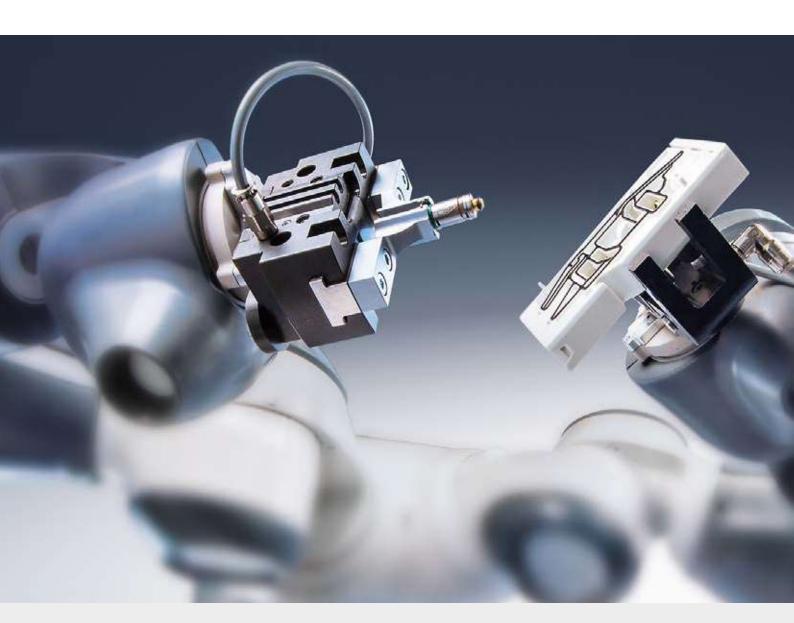


SHORT FORM CATALOGUE



WELCOME TO CAMOZZI AUTOMATION

Camozzi Automation is a global leader in the design and production of motion and fluid control components, systems and technologies for industrial automation, transportation and life science industries.





Our catalogues

1 Pneumatic actuation



International standard cylinders Compact cylinders Stainless steel cylinders Guided cylinders Cylinders not according standards Rotary cylinders Rodless cylinders Proximity switches Hydrochecks, Rod lock, Shock absorbers

3 Grippers



Angular grippers Radial grippers Parallel grippers Three jaw grippers Sprue grippers

5 Vacuum components



Suction pads Ejectors based on Venturi principle Accessories Filters

7 Fieldbus and multipole systems



Valve islands Multi-serial modules

9 Air treatment



Series MC Modular FRL Units Series MD Modular FRL Units Series N FRL Units Pressure regulators Pressure switches and vacuum switches Pressure boosters Air treatment accessories

Series MX Modular FRL Units

2 Electric actuation



Electromechanical cylinders Electromechanical axes Drives Motors and gearboxes

4 Tools changer



Robot tool changer Series RTC

6 Valves and solenoid valves



Direct and indirect acting 2/2, 3/2 solenoid valves Solenoid, pneumatic and manifold valves Mechanical and manual valves Logic valves Automatic valves Flow control valves Silencers

8 Proportional technology



Proportional valves Proportional regulators

10 Fittings, connectors, tubing and accessories



Super-rapid fittings
Rapid fittings
Universal fittings
Fittings accessories
Quick-release couplings
Stainless steel fittings and adaptors
Mini ball valves
Fittings and accessories
for applications of medical gases
Tubing, spirals and accessories

CAMOZZI AUTOMATION DIGITISED SOLUTIONS FOR INTELLIGENT MANUFACTURING



Camozzi Automation offers a wide range of **components**, **systems and technologies for the industrial automation sector**,

the control of liquid and gas fluids as well as applications dedicated to the transportation industry and life sciences. Camozzi Automation's design architecture allows us to offer customers real added value with **high-performance** and sustainable products.

Our mission is to accompany you in the development of innovative **intelligent production** solutions that are energy efficient and share the same attention to the future of the environment and people. We make use of advanced technologies and digital solutions such as artificial intelligence (AI), machine learning and IoT to optimise production processes. With these technologies, we are able to carry out activities such as predictive maintenance – using automatic data analysis and learning algorithms for equipment monitoring and the prediction of maintenance times – scenario modelling



and simulation, which allows for the prompt implementation of changes in the real world, robotics to increase efficiency and reduce costs, and additive manufacturing for rapid prototyping.

Our goal is to work closely with customers to establish lasting relationships and accompany them into the future.

- Packaging
- Food & Beverage
- Plastics & Rubber
- Automotive
- Electronic Systems
- Textile Machinery
- Assembly & Robotics
- Printing & Paper
- Woodworking Machinery



Life Science

- Medical Devices
- Biotechnologies



Transportation

- Truck & Trailer
- Bus & Coach
- Railway
- Off Highway
- Passenger Car & Light Duty Commercial

TECHNOLOGIES FOR PRODUCTION EFFICIENCY

We analyse each **individual application** and provide solutions by selecting the **best performing** technology, be that pneumatic, electric or proportional options. This overall vision requires **extensive expertise** both in terms of the technical features of the technologies and products, and the functional characteristics of the **requested applications**.

Camozzi Automation's **competitive advantage for customers** lies in the ability to offer all these technologies and combine them where necessary, optimising the individual movements and performance required for each **industrial application**.

OUR TECHNOLOGY VISION



Systems and solutions with intelligent components, interconnected with data analysis algorithms.



Safe energy-saving components and systems made using environmentally-friendly materials and processes.





The experience accumulated over the years allows us to support our customers from concept **to the realisation of any solution**, while respecting constraints, regulations, technical requirements and project time frames.

Miniaturisation and space reduction are further significant objectives in production, within the framework of sustainability.

Advanced design methodologies, such as modelling, simulation and virtual reality, adopted by Camozzi Automation, enable the combination of key mechanical and digital technologies to develop innovative components and systems capable of **increasing** machine productivity and flexibility.

They also allow remote control for predictive maintenance purposes, as well as the monitoring of production and energy consumption.



General index

PNEUMATIC ACTUATION International standard cylinders Page Series 16, 23, 24, 25 16 Mini-cylinders Series 40K 18 Cylinders 20 Cylinders - Aluminium profile Series 63 22 ISO 15552 cylinders Series 63 END LOCK 24 Cylinders Series 61 26 Cylinders - Aluminium profile Series 6PF 28 Positioning Feedback cylinders 30 Series 32 Compact cylinders ISO 21287 32 Series 32 Compact cylinders, Tandem and Multi-position versions

Anti-rotation guide units

• Compact cylin	ders	Page
(G)	Series QN Short-stroke cylinders	34
	Series QP, QPR Short-stroke cylinders	35
	Series QL Short-stroke cylinders	36
	Series RPA Short stroke cylinders with non-rotating rod	37
	Series 31 Compact cylinders	38
04	Series 31 Compact cylinders, Tandem and Multi-position versions	40
	Series ST Stopper cylinders	41
Stainless steel cylinders		Page
4-4 1	Series 90 Stainless steel cylinders ISO 15552	42

Guided cylinders		P	age
11 9 41	Series QC Cylinders with integrated guide		48
	Series QCTF, QCBF Cylinders with integrated guide		49
雨雨	Series QX Twin cylinders		50
	Series MSN Pneumatic mini slides	New	51
0	Series MST Pneumatic mini slides	New	52

Series 94, 95

Series 97

Stainless steel mini-cylinders

Stainless steel cylinders

44

46



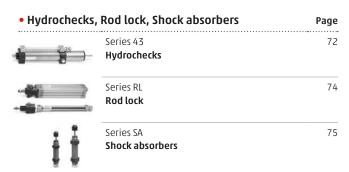
PNEUMATIC ACTUATION

• Cylinders not	according standards	Page
	Series 14 Compact mini-cylinders	53
-	Series 27 Roundline cylinders	54
	Series 42 Cylinders	56

Rotary cylinders		Page
4 10 7	Series 69 Rotary cylinders	58
<u></u>	Series 30 Rotary cylinders	59
	Series ARP Rotary actuators	60
	Series QR Rotary actuators with rack and pinion system	61



Proximity switches		Page
< P	Series CST - CSV - CSH CSB - CSC - CSD - CSG Magnetic proximity switches	64
•	Series CSN Proximity switches	67
	Tables for the use of sensors	68





ELECTRIC ACTUATION

Electromechanical cylinders			Page
	Series 6E Electromechanical cylinders		76
	Series 3E Compact electromechanical cylinders	New	79

Electromechanical axes		Page
•	Series 5ESTBL Electromechanical axis	82
	Series 5ESBS Electromechanical axis	85
000	Series 5V Vertical electromechanical axis	88





GRIPPERS

Angular grippers		Page
	Series CGAN Angular grippers with opening angle of 30°	96
• Radial grippe	rs	Page
	Series CGSY Radial grippers 180° opening	96
• Parallel gripp	ers	Page
	Series CGPT New mode Parallel grippers with T-guide	ls 97
	Series CGPS Parallel grippers with double ball bearing guide	97
	Series CGPM Parallel grippers self-centering with H-shaped guide	98
	Series CGSP Compact parallel grippers with T-guide	99

Series CGLN
Wide opening
parallel grippers

100
Page
101
101

Page

• Three jaw grippers

99

CAMOZZI Automation

TOOLS CHANGER



VACUUM COMPONENTS

Suction pads		Page
♣.	Series VTCF Flat suction pads (round)	104
<u></u>	Series VTOF Flat suction pads (oval)	104
4	Series VTCL Bellows suction pads (round) 1,5 folds	105
₽ 0	Series VTCN Bellows suction pads (round) 2,5 folds	105
	Series VSCF Flat suction pads	106
44	Series VPOL Bellows suction pads (oval) for Packaging - 1,5 folds	106
S s	Series VPCL Bellows suction pads (round) for Packaging - 1,5 folds	107
8.	Series VPCM Bellows suction pads (round) for Packaging - 2,5 folds	107
	Series VPCN Bellows suction pads (round) for Packaging - 2,5 folds	108
å	Series VPCO Bellows suction pads (round) for Packaging - 4,5 folds	108
	Series VPCQ Bellows suction pads (round) for Packaging - 4,5 folds	109
	Series VPCF Flat suction pads (round) for Packaging	109

• Ejectors base	d on Venturi principle	Page
The state of the s	Series VEB Basic ejectors	110
-	Series VEBL Basic ejectors	110
	Series VED Inline ejectors	111
1	Series VEDL Inline ejectors	111
4	Series VEC Compact ejectors	112
~	Series VEM Compact ejectors	113
8	Series VES Compact ejectors	114
	Series VEN Compact ejectors	115
46	Series VEQ Compact ejectors	116
 Accessories 		Page
<u>I</u>	Series NPF Flexible suction pad mountings	117
TO STATE OF THE PARTY OF THE PA	Series NPM and NPR Spring plungers (non rotating)	117
	Series VNV Check valves	118





VALVE AND SOLENOID VALVES

 Direct and ind 2/2 - 3/2 sole 	noid valves	Page
	Series K8 - K8X Direct acting solenoid valves	120
	Series K8B Pilot operated solenoid valves	122
	Series K8DV Media separated solenoid valves	124
	Series K Direct acting solenoid valves	126
	Series KL Direct acting solenoid valves	128
	Series KLE Direct acting solenoid valves	130
	Series KN and KN HIGH FLOW Direct acting solenoid valves	132
11	Series KDV Media separated solenoid valves	134
	Series LDV Media separated solenoid valves	136
	Series W Direct acting solenoid valves	138
1	Series P Direct acting solenoid valves	140
	Series PL Direct acting solenoid valves	142
Ü	Series PN Direct acting solenoid valves	144
0	Series PD Direct acting solenoid valves	146
	Series PDV Media separated solenoid valves	148
	Series A Direct acting solenoid valves	150
	Series 6 Direct acting solenoid valves	153
3	Series CFB Solenoid valves	155
	Series CFB stainless steel Solenoid valves	158

Solenoid, pne and manifold		Page
99	Series 8 Pneumatic operated cartridge valves	160
	Series 8 Pneumatically and electropneumatically operated valves	162
	Series TC shut-off micro-valves	164
	Series E Valves and solenoid valves	166
	Series EN Valves and solenoid valves	168
	Series D Valves and solenoid valves VA version	170
	Series D Valves and solenoid valves VB version	173
	Series 3 Valves and solenoid valves	176
10	Series 4 Valves and solenoid valves	178
CT	Series 9 Valves and solenoid valves	180
	Series 7 Valves and solenoid valves	182
8	Series NA Valves and solenoid valves	184
19	Series ASX Angle seat valves	186
	Series ASP Angle seat valves	188
	Series GP B7 G93 - U7 U7EX - G7 A8 B8 H8 B9 Solenoids	190



VALVE AND SOLENOID VALVES

• Mechanical an	d manual valves	Page
	Series 2 Mechanically operated minivalves	193
	Series 1 and 3 Mechanically operated valves	194
	Series 3 and 4 Mechanically operated sensor valves	195
	Series 2 and 3 Foot operated pedal electrical and pneumatic	196
	Series 2 Manually operated console minivalves	197
3	Series 1, 3, 4 and VMS Manually operated valves	198
	Series 2 Mini-handle valves	199

Logic valves		Page
1	Series 2L Basic logic valves	200

• Automatic	valves		Page
0 est	Mod. SCS Circuit selector		200
	Series VNR Unidirectional valves		201
2	Series XVNR Unidirectional valves in 316L stainless steel		201
2 B	Series VSO - VSC Quick exhaust valves		202
4	Series XVSC Quick exhaust valves in 316L stainless steel		202
	Mod. VMR 1/8-B10 Adjustable overpressure exhaust valve		203
5	Series VBO - VBU Blocking valves	New models	203

• Flow control	valves	Page
	Series SCU, MCU, SVU, MVU, SCO, MCO Flow control valves	204
44	Series XSCU, XSCO, XMFU, XMFO Flow regulators in 316L stainless steel	205
	Series PSCU, PMCU, PSVU, PMVU, PSCO, PMCO Flow control valves	206
	Series TMCU, TMVU, TMCO Flow control valves	207
ŀ	Series GSCU, GMCU, GSVU, GMVU, GSCO, GMCO Flow control valves	208
	Series RFU and RFO Flow control valves	209
X.	Series XRFU and XRFO Flow control valves in 316L stainless steel	210
	Series 28 Flow control valves	211





FIELDBUS AND MULTIPOLE SYSTEMS

• Valve islands		Page
0000	Series 3 PLUG-IN valve islands, Multipole and Fieldbus	214
COILVISION°	COILVISION® TECHNOLOGY	217
	Series D Valve islands, Size 1, Multipole and Fieldbus	218
	Series D Valve islands, Size 2, Multipole and Fieldbus	222
	Series D Valve islands, Size 4, Multipole and Fieldbus	226
	Series D Valve islands, Size 5, Multipole and Fieldbus	230
A. I. I.	Series F Valve islands, Multipole and Fieldbus	234
	Series HN Valve islands, Multipole and Fieldbus	238
	Series HC Valve island Cabinet version	242
	Series Y Valve islands, Individual, Multipole	245

Multi-serial modules		Pago
	Series CX Multi-serial module	24
13.	Series CX4 Multi-serial module	248

PROPORTIONAL TECHNOLOGY

Proportional valves		Page
	Series AP Direct acting proportional valves	250
	Series CP Direct acting and pressure compensated proportional solenoid valves	252
	Series 130 Electronic control device for proportional valves	253
	Series LR Digital proportional servo valves	254
18	Series OF Open Frame proportional controller	255

Proportional regulators		Page
-	Series K8P Electronic proportional micro regulator	257
	Series MX-PRO Proportional pressure regulator and proportional flow valve	258
	Series PRE Proportional pressure regulator with CoilVision® technology	260
	Series PME Proportional pressure regulator	263



AIR TREATMENT

ries MX Mo	dular FRL Units	Page
9	Series MX	266
	Filters	
5	Series MX	267
	Coalescing filters	
	Series MX	268
	Activated carbon filters	
	Series MX	269
10	Pressure regulators	
-	Series MX	270
12	Pneumatic pilot operated pressure regulators	
800	Series MX	270
	Lubricators	
E	Series MX	271
10	Filter-regulators	
-	Series MX	272
V	Lockable isolation 3/2-way valves	
(III	Series MX SAFEMAX	273
	3/2-way quick exhaust safety valves	
9 (1)	Series MX SAFEMAX	275
	3/2-way quick exhaust safety valves with soft start	
A 100	Series MX	277
	Soft start valves	
8	Series MX	277
1	Take-off blocks	
Dia DD	Series MX	278
RAH	Accessories	
112.41	Series MX	279
VIIV	Assembled FRL	

• Series MC Mod	dular FRL Units	Page
	Series MC Filters	281
	Series MC Coalescing filters	281
	Series MC Activated carbon filters	282
	Series MC Pressure regulators	283
	Series MC Lubricators	284
	Series MC Filter-regulators	285
Ě	Series MC Lockable isolation 3/2-way valves	286
	Series MC Soft start valves	287
	Series MC Take-off blocks	287
(0)	Series MC Accessories	288
-	Series MC Assembled FRL	289
	Series MC Manifold pressure regulators	290

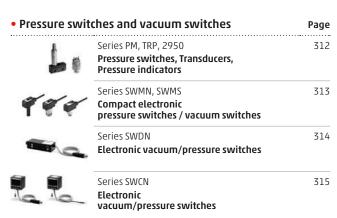


AIR TREATMENT

	Page
Series MD Filters new automatic drain	291
Series MD	292
Coalescing filters	
Series MD	293
Activated carbon filters	
Series MD	294
Pressure regulators	
Series MD	295
Lubricators	
Series MD	296
Pressure filter-regulators new automatic drain	
Series MD	297
Lockable isolation 3/2-way valves	
Series MD	298
Soft start valves	
Series MD	298
Take-off blocks	
Series MD	299
Accessories	
Series MD	300
Assembled FRL	
FRL Units	Page

Series N FRL Units	Page
Series N Filters, coalescing filters and actived carbon filters	302
Series N Pressure regulators	303
Series N Lubricators	304
Series N Filter-regulators	304
Series N Accessories	305

• Pressure regu	ılators	Page
1 1	Series CLR Micro pressure regulators	306
	Series TC Pressure microregulators	307
	Series M Pressure microregulators	308
	Series T Pressure microregulators	309
	Series M, T Accessories	309
	Series PR Precision regulators with manual override	310
• Pressure boo	sters	Page
	Series BPA Pressure booster	New 311



• Air treatmen	t accessories	Page
• Ø	Pressure gauges	316
***	Series PG Digital pressure gauges	317
811	Condensate drains filtering elements	318



FITTINGS, CONNECTORS, TUBING AND ACCESSORIES

• Super-rapid fi	ittings	Page	• Fittings accessories	Page
FF	Series 6000 Brass super-rapid fittings for plastic tubes	320	Series S2000 Brass pipe fittings Sprint®	360
520	Series HP6000 Brass super-rapid fittings for Lubrication Applications	325	Series 2000 Brass pipe fittings	odels 362
	Series 7000 Super-rapid Compact fittings in technopolymer	328	• Quick-release couplings	Page
	Series 8000 Brass dual seal super-rapid fittings	331	Series 5000 Quick-release couplings	365
15	Series H8000 Nickel-plated dual seal super-rapid fitting	332	Series 5000L, 5000LT Quick-release couplings for the conditioning of moulds for plastics	367
و داس	Series 6000M Fittings for misting systems	333	Stainless steel fittings and adaptors	Page
	Series 7000 Fluidics In technopolymer for water cooling applications	335	Series X6000 Super-rapid fittings in stainless steel 316L	368
I	Series 9000 Air Brake Fittings	338	Series X1000 Rapid push-on fittings in 316L stainless steel	370
1 50	Series 7000 - Automation GRIPfit push-in fittings	New 343	Series X2000 Adaptors in 316L stainless steel	372
T 60	Series 7000 - Cooling GRIPfit push-in fittings	New 349	Mini ball valves	Page
	Series 7000 - Beverage and Water filtration GRIPfit push-in fittings	New 351	Series 29 Mini ball valves for pneumatics and industrial fluids	374
1	Series 7000 - Medical GRIPfit push-in fittings	New 353	Series X29 Mini ball valves in 316 stainless steel	376
• Rapid fittings		Page	Fittings and accessories for applications of medical gases	Page
1 5	Series 1000 Brass rapid push-on fittings for plastic tubes	355	Series OX1 Fittings and accessories for applications of medical gases	377
• Universal fitti	ngs	Page	Tubing, spirals and accessories	Page
9 }	Series 1000 Brass universal nose fittings	358	Series T, MPL, PNZ Tubing, spirals and accessories	380

C CAMOZZI

Mini-cylinders Series 16, 23, 24 and 25

Series 16: Ø 8, 10, 12 mm - non-magnetic

Series 23: Ø 16, 20, 25 mm - magnetic, auto-cushioned

Series 24: Ø 16, 20, 25, 32 mm - magnetic

Series 25: Ø 16, 20, 25, 32 mm - magnetic, cushioned





STANDARD STROKES

■ = Double-acting × = Single-acting

Series	Ø	10	25	40	50	80	100	125	160	200	250	300	320	400	500
16	10	= ×	=×	=×	= ×										
16	12	=×	=×	= ×	= ×			•				•			
16	16	= ×	= ×	=×	= ×	•		•	•		•	•			-
24	20	= ×	= ×	= ×	= ×	•		•		•		•			-
24	25	= ×	=×	= ×	= ×							•			
24	32	= ×	= ×	= ×	= ×			•						•	-
23/25	16	•	•	•	•	•						•			•
23/25	20			-	-		•							•	-
23/25	25														
25	32														





Front/rear flange mount Mod. E



Mod. I



Rear trunnion bracket

Rod fork end



Swivel ball joint Mod. GA



Piston rod socket joint Mod. GY



Piston rod lock nut Mod. U



Nose nut Mod. V



Self aligning rod



Coupling piece Mod. GKF



Proximity switches



Proximity switches Mod. CSH



Proximity switches



Adapters



Guides Mod. 45NUT



Guides Mod. 45NHT

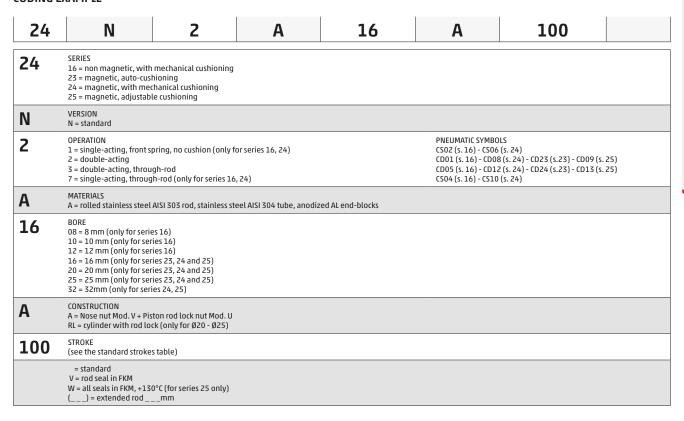


Guides Mod. 45NHB

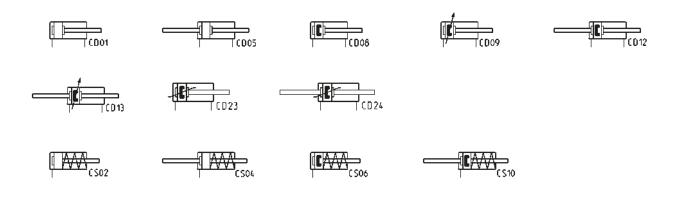


CAMOZZI





PNEUMATIC SYMBOLS



Cylinders Series 40K

Double acting, cushioned, magnetic Ø 160 - 200 - 250 - 320 mm





STANDARD STROKES

■ = Double-acting

Ø	25	50	75	80	100	125	150	160	200	250	300	320	400	500
160				•	•								•	
200		•			•				•		•			
250														
320														



90° Swivel combination Mod. ZS



Clevis pin Mod. S



Magnetic proximity switch Mod. CSG



Front and rear flange



Swivel combination



Piston rod lock nut Mod. U



Proximity switch Mod. CSN



Front and rear female trunnion Mod. C-H



Counter bracket for centre



Self aligning rod Mod. GK



Adapter Mod. S-CST-28 for CST-CSH-CSG proximity



Rear male trunnion



Rod fork end Mod. G



Magnetic proximity switch Mod. CST



Adapter Mod. S21 for CSN proximity switches



Centre trunnion Mod. F



Swivel ball joint Mod. GA



Magnetic proximity switch Mod. CSH



Adapter Mod. S-CST-29 for CSH-CSG proximity



C∢ CAMOZZI

CODING EXAMPLE

40	K	2	L	160	Α	0200	
40	SERIES						
K	VERSION K = standard, magne	etic					
2	3 = double-acting, no 4 = double-acting, ro 5 = double-acting, fr 6 = double-acting, th	ear cushions	ear cushions			PNEUMATIC SYMBOLS CD09 CD07 CD37 CD38 CD13 CD14	
L	anodized AL tube, zir T = stainless steel AIS C = rolled stainless st U = rolled stainless s W = rolled stainless s	nc-plated steel tie-rods SI 420B tie-rods - stainle teel AISI 303 piston rod, teel AISI 303 piston rod,	and tie-rod nuts, NBR-F ss steel AISI 303 tie-roc stainless steel AISI 304 stainless steel AISI 304 , stainless steel AISI 304	PU rod - piston and cushion sea I nuts piston rod nut piston-rod nut, stainless steel 4 piston-rod nut, stainless steel	ls, brass rod scraper ring AISI 420B tie-rods, stair	m) rod, zinc-plated steel rod nut, 3 nless steel AISI 303 tie-rod nuts nless steel AISI 303 tie-rod nuts	
160	BORE 160 = 160 mm 200 = 200 mm 250 = 250 mm 320 = 320 mm						
Α	TYPE OF BRACKET A = standard F = cylinder with cen	itre trunnion					
0200	STROKE (see the standard str	okes table)					
	() = extended p	er. Colour: Grey * raper (chrome plated st		rod, NBR rod seal) [Ø 250 and late tour technical dept.	320 excluded]		
	CERTIFICATIONS EX = ATEX						

PNEUMATIC SYMBOLS













1 PNEUMATIC ACTUATION

Cylinders - Aluminium profile Series 41K

Double-acting, cushioned, magnetic Ø 160 - 200 mm





STANDARD STROKES

x = Double-acting

Ø	25	50	75	80	100	125	150	160	200	250	300	320	400	500
160		×			×		×		×				×	×
200		×			×				×					





































41	K	2	P	160	Α	0200	
41	SERIES						
K	VERSION K = standard magne	tic					
2	3 = double-acting, n 4 = double-acting, re 5 = double-acting, fr 6 = double-acting, th	ear cushions				PNEUMATIC SYMBOLS CD09 CD07 CD37 CD38 CD13 CD14	
Р	anodized AL-profile R = AISI 420B stainle C = rolled AISI 303 st stainless steel AISI 4	tube zinc-plated steel t ess steel tie-rods, AISI 30 ainless steel piston rod 20B tie-rods, stainless s	tie-rods and tie-rod nuts 03 stainless steel tie-rod , AISI 304 stainless steel steel AISI 303 tie-rod nut	rod - zinc-plated steel piston r - NBR-PU rod - piston - cushior nuts piston rod nut U = rolled stainl s,AISI 420B stainless steel tie-r piston rod nut, AISI 420B stair	n seals - brass rod scrap less steel AISI 303 pistor rods, AISI 303 stainless s	n rod, AISI 304 stainless steel p steel tie-rod nuts	
160	BORE 160 = 160 mm 200 = 200 mm						
Α	TYPE OF DESIGN A = tie-rods F = cylinder with cer	ntre trunnion					
0200	STROKE (see the standard str	rokes table)					
	() = extended p	er. Color: Grey * craper (chrome plated s piston rod mm	tainless steel AISI 420B r	od, NBR rod seal) ntact our technical dept.			
	CERTIFICATIONS EX = ATEX						

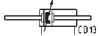
PNEUMATIC SYMBOLS















1 PNEUMATIC ACTUATION

ISO 15552 cylinders Series 63

Single and double-acting, magnetic, cushioned Ø 32, 40, 50, 63, 80, 100, 125 mm







STANDARD STROKES

- = Single-acting, front spring (standard and high temperatures); ▲ = Single-acting, rear spring (standard and high temperatures);
- = Double-acting (standard, low friction, high/low temperatures) Other strokes up to 2500 mm are available on request.

Ø	25	50	75	80	100	125	150	160	200	250	300	320	400	500
32	E A X	E A X	= ×	×	×	×	×	×	×	×	×	×	×	×
40	E A X	m A X	= ×	×	×	×	×	×	×	×	×	×	×	×
50	E A X	m A X	= ×	×	×	×	×	×	×	×	×	×	×	×
63	E A X	E A X	= ×	×	×	×	×	×	×	×	×	×	×	×
80	m A X	m A X	= ×	×	×	×	×	×	×	×	×	×	×	×
100		E A X	= ×	×	×	×	×	×	×	×	×	×	×	×
125		E A X	= ×	×	×	×	×	×	×	×	×	×	×	×





Foot mount Mod. B-41



Front and rear flange Mod. D-E



Rear female trunnion Mod. C and C-H



Front female trunnion Mod. H and C-H



Rear male trunnion Mod. L



Front/rear spot faced trunnion Mod. FN



Trunnion ball-joint Mod. R



Centre trunnion Mod. F for round tube cylinders



Centre trunnion Mod. F for profile cylinders





Accessory combination Mod. C+L+S



90° male trunnion Mod. ZC



Counter bracket for centre trunnion Mod. BF



Accessory to mount valves on the cylinder



to connect valves - solenoid valves Series 3

PCV-62-K4 to connect valves - solenoid valves Series 4 port G1/4 PCV-62-KEN to connect valves - solenoid valves Series EN



Clevis pin Mod. S



Swivel ball joint



Piston rod socket joint Mod. GY



Rod fork end Mod. G



Piston rod lock nut Mod. U



Self aligning rod Mod. GK



Coupling piece Mod. GKF



Special key to disassemble cylinders Ø 80-100, round tube



CODING EXAMPLE

63	M	P	2	С	050	Α	0200	W						
63	SERIES													
M	V = unifor	lard, magnetic rm movement (i iction, magnetio		agnetic										
P	CONSTRUC T = round P = profile	tube												
2	2 = doubl 6 = doubl 7 = single	-acting, front sp	gh-rod n-rod			PNEUMATIC SYMBOLS CS07/CS18 CD08 - CD09 - CD10 - CD11 CD13 CS11 CS14/CS17								
С	C = cushic F = front c	NG shioning (mech oning on both si cushioning ushioning)		CDO	9/CD13 .1							
050	BORE 032 = 32 040 = 40 050 = 50 063 = 63 080 = 80 100 = 100 125 = 125	mm mm mm mm) mm												
A	A = standa RL = cylina DC = back TR = back	CTIVE TYPE ard with rod nut der with rod loo to back cylinde to back cylinde er with centre t	k r with DC access r for round tube											
0200	STROKE = stando N = tando / = more		[X1 <x2]< th=""><th></th><th></th><td></td><th></th><th></th><td></td><td></td><td></td><td></td></x2]<>											
W	= standa W = high Z = low te	rURE RANGE ard (-20°/+80°) temperatures (1 emperatures (-4 emperatures (-5	0°C)											
	= stand C1 = rod r C2 = end (C3 = C2 +) C4 = C1 +	nut AISI 304 stair cap treated scre AISI 316 rod nut	nless steel, rod / ws (profile) or / , AISI 316 rod		ss steel s and AISI 420B tie-ro	ds (round tube)								
	F = femal K = end ca L = withou V = FKM ro R = NBR ro U = unlub H = hydro A = use in G = dry ar B = cylind	ard (male rod the rod the rod thread aps with Kanige ut rod seal (rear od seal of seal or seal	n treatment air inlet only)* on nt frequent wash iments (with br low rod protect	down applicati ass rod scraper	ons and chrome-plated s	tainless steel Al!	51 420B rod)							
	OTHER P = cylind	er with RAL 703	5 polyurethane	coating										
	CERTIFICA EX = ATEX													
* Only for low	friction													

^{*} Only for low friction

PNEUMATIC SYMBOLS





















K CAMOZZI

END LOCK cylinders Series 63

Double-acting, magnetic, cushioned Ø 32, 40, 50, 63, 80, 100, 125 mm





STANDARD STROKES

≭ = Double-acting (standard, high/low temperatures) Other strokes up to 2500 mm are available on request.

Ø	25	50	75	80	100	125	150	160	200	250	300	320	400	500
32	×	×	×	×	×	×	×	×	×	×	×	×	×	×
40	×	×	×	×	×	×	×	×	×	×	×	×	×	×
50	×	×	×	×	×	×	×	×	×	×	×	×	×	×
63	×	×	×	×	×	×	×	×	×	×	×	×	×	×
80	×	×	×	×	×	×	×	×	×	×	×	×	×	×
100		×	×	×	×	×	×	×	×	×	×	×	×	×
125		×	×	×	×	×	×	×	×	×	×	×	×	×





Foot mount Mod. B-41



Front and rear flange Mod. D-E



Rear female trunnion Mod. C and C-H



Front female trunnion Mod. H and C-H



Rear male trunnion Mod. L



Front/rear spot faced trunnion Mod. FN



Trunnion ball-joint Mod. R



Centre trunnion Mod. F-63 for cylinders,



Centre trunnion Mod. F-63 for cylinders, **BL-type**



Centre trunnion Mod. F-63 for cylinders, DL-type



Accessory combination Mod. C+L+S



90° male trunnion Mod. ZC



Counter bracket for centre trunnion Mod. BF



Clevis pin Mod. S



Swivel ball joint Mod. GA





Piston rod socket

joint Mod. GY

Rod fork end Mod. G



Piston rod lock nut Mod. U



Self aligning rod Mod. GK



Coupling piece Mod. GKF



Screws and locking screws Mod. KR



C₹ CAMOZZI



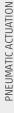
63	M	P	2	С	050	Α	0400	FL	W				
63	SERIES												
М	VERSION M = stan	l Idard, magne	tic										
Р	CONSTRI P = profi												
2	OPERATI 2 = doub	ON ble-acting											
C		CUSHIONING C = cushioning on both sides											
050	040 = 40 050 = 50 063 = 63 080 = 80 100 = 10	-											
Α	A = stand DC = bad	CONSTRUCTION A = standard with rod nut DC = back to back cylinder with DC accessory $[x_1/x_2]$ F = cylinder with centre trunnion											
0400	STROKE = stan	dard											
FL	FL = Fror BL = Rea							PNEUMATIC CD34 CD35 CD36	SYMBOLS				
	= stand W = high Z = low t	ATURE RANGE dard (-20°/+8 h temperature temperature temperature	80°) es (150°C) s (-40°C)										
	= star C2 = trea C3 = C2 +	ated end cap + AISI 316 rod	screws (profile I nut, AISI 316 ro	bd	e-rod nuts and AISI (only for constructiv								
	= manı		OCKING crew (not supp ooking pin and		er								
	K = end V = FKM R = NBR G = dust B = cylin	dard (male ro caps without rod seal rod seal y and dirty er	END LOCK with nvironments (w. R bellow rod pro	ith metal scra	ment (only for consi								
	CERTIFIC = stan EX = ATE	dard											

PNEUMATIC SYMBOLS









1

Cylinders - Aluminium profile Series 61

Single and double-acting, magnetic, cushioned Standard, low friction, low temperatures and tandem versions Ø 32, 40, 50, 63, 80, 100, 125 mm





STANDARD STROKES

x = Double-acting (standard, low friction and low temperature) = Single-acting (standard and low temperature) Other strokes up to 2500 mm are available on request.

Ø	25	50	75	80	100	125	150	160	200	250	300	320	400	500
32	= ×	= ×	= ×	×	×	×	×	×	×	×	×	×	×	×
40	= ×	= ×	= ×	×	×	×	×	×	×	×	×	×	×	×
50	= ×	= ×	= ×	×	×	×	×	×	×	×	×	×	×	×
63	= ×	= ×	= ×	×	×	×	×	×	×	×	×	×	×	×
80	= ×	= ×	= ×	×	×	×	×	×	×	×	×	×	×	×
100		= ×	= ×	×	×	×	×	×	×	×	×	×	×	×
125		×	×	×	×	×	×	×	×	×	×	×	×	×





Accessory combination Mod. C+L+S





90° male trunnion

Mod. ZC

Rear female trunnion Mod. C and C-H



Trunnion ball-joint Mod. R



Counter bracket for

Front female trunnion

Mod. H and C-H



centre trunnion Mod. BF



Piston rod socket



Rear male trunnion Mod. L



Clevis pin Mod. S



Rod fork end



Swivel ball joint Mod. GA

Centre trunnion

Mod. F

Piston rod lock nut Mod. U



Accessory to mount valves on the cylinder



Mod. GK

to connect valves - solenoid valves Series 4 port G1/4

PCV-62-KEN to connect valves - solenoid valves Series EN

PCV-61-K8 to connect valves - solenoid valves Series 4 port G1/8 and Series 3 port G1/4

Self aligning rod



Coupling piece Mod. GKF



disassemble cylinders Ø 80-100, round tube



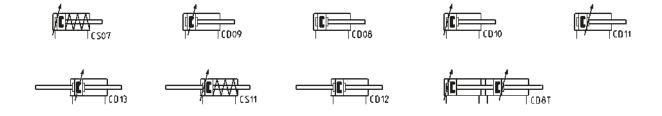
C∢ CAMOZZI

CODING EXAMPLE

61	M	2	P	050	Α	0200					
61	SERIES										
М	VERSION M = standard, magne L = low friction, mag										
2	2 = double-acting, fr 3 = double-acting, n 4 = double-acting, re 5 = double-acting, fr 6 = double-acting, th 7 = single-acting, th	ear cushioned ront cushioned nrough-rod, front and re	l ear cushioned			PNEUMATIC S CS07 CD09 CD08 CD10 CD11 CD13 CS11 CD12	SYMBOLS				
P	MATERIALS P = standard: AL end-blocks and piston, rolled stainless steel AISI 420B rod, anodized AL profile tube, zinc-plated steel tie-rods and tie-rod, nuts, PU seals R = stainless steel AISI 420B tie-rods, stainless steel AISI 303 tie-rod nuts C = rolled stainless steel AISI 303 piston rod, stainless steel AISI 304 piston rod nut U = rolled stainless steel AISI 303 piston rod, AISI 304 piston-rod nut, AISI 420B tie-rods, AISI 303 tie-rod nuts W = rolled stainless steel AISI 304 piston rod, AISI304 piston-rod nut, AISI 420B tie-rods, AISI 303 tie-rod nuts Z = chrome plated stainless steel AISI 420B rod, stainless steel AISI 304 rod nut, stainless steel AISI 420B tie-rods, stainless steel AISI 303 tie-rods nuts, seals for low temperature (-40°C), brass rod scraper Y = chrome plated stainless steel AISI 420B rod, stainless steel AISI 304 rod nut, stainless steel AISI 420B tie-rods, stainless steel AISI 303 tie-rods nuts, seals for low temperature (-50°C), brass rod scraper										
050	BORE 032 = 32 mm 040 = 40 mm 050 = 50 mm 063 = 63 mm 080 = 80 mm 100 = 100 mm 125 = 125 mm										
Α	CONSTRUCTION A = standard with ro RL = cylinder with ro										
0200	STROKE (see the standard str	okes table)									
	() = extended p G = with brass rod sc * Version C: available	30°C er. Colour: Grey* on without rod seal (re biston rod mm raper (chrome plated s e on request. For furthe order the cylinder with	tainless steel AISI 420B r r information, please co out piston rod seal, furtl	rod, NBR rod seal) intact our technical dept. her reduces the friction force.							

Note: all double-acting cylinders are also available in the low friction version.

PNEUMATIC SYMBOLS



K CAMOZZI

Positioning Feedback cylinders Series 6PF

Double-acting low friction, magnetic Ø 50, 63, 80, 100, 125 mm





STANDARD STROKES

x = Double-acting, low friction

Ø	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
50	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
63	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
80	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
100	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
125	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×





Front and rear flange



Rear female trunnion



Front female trunnion





Rear male trunnion

Centre trunnion



Accessory combination Mod. C+L+S



90° male trunnion Mod. ZC



Trunnion ball-joint Mod. R



Counter bracket for centre trunnion Mod. BF



Clevis pin Mod. S



Swivel ball joint Mod. GA



Accessory to mount valves on the cylinder



PCV-61-K3 to connect valves - solenoid valves Series 3
PCV-61-K4 to connect valves - solenoid valves Series 4 port G1/4

PCV-62-KEN to connect valves - solenoid valves Series EN
PCV-61-K8 to connect valves - solenoid valves Series 4 port G1/8 and Series 3 port G1/4

Piston rod socket joint Mod. GY



Rod fork end Mod. G



Piston rod lock nut Mod. U



Self aligning rod



Coupling piece Mod. GKF



Special key to disassemble cylinders



Straight connector for power supply



CS-LF04HB

Angular connector for power supply



CS-LR04HB

Cable Mod. CS-LF05HB-D200/D500



Cable Mod. CS-LR05HB-D200/D500



28

C₹ CAMOZZI

CODING EXAMPLE

6PF	3	P	050	Α	0200					
6PF	SERIES									
3	OPERATION PNEUMATIC SYMBOL 3 = double-acting low friction, no cushion CD22									
P	piston guide element a extrusion profile anod	acetal resin, piston alumini ized aluminium, OR seal NI	ed bronz, rod chrome plated steel um, piston seal NBR, BR, M12 connector nickel plated bi ymium, OR seal NBR, positioning s	ass, grain steel,						
050	BORES 050 = 50 mm 063 = 63 mm 080 = 80 mm 100 = 100 mm 125 = 125 mm									
Α	CONSTRUCTION A = standard with rod nut RL = cylinder with rod lock									
0200	STROKES (see the standard strokes	table)								
	VERSIONS = standard P = PU rod seal V = FKM rod seal L = without rod seal (rear G = with brass rod scraper EX = ATEX () = extended piston									
	* The possibility to order t	he cylinder without piston	rod seal further reduces the fricti	on force.						

PNEUMATIC SYMBOLS





1

Compact cylinders ISO 21287 Series 32

Single and double-acting, non-rotating Ø 20, 25, 32, 40, 50, 63, 80, 100, 125 mm











STANDARD STROKES

x = Non-rotating • = Double-acting, male/female rod thread ■ = Single-acting, front/rear spring, male/female rod thread

Ø	5	10	15	20	25	50	100	200	300	400	500
12	• =	• •	• •	• =	• •	•	•	•			
16	• =	• =	• =	• =	• =	•	•	•			
20	× • ■	ו =	× • ■	ו =	ו =	× •	× •	× •	× •		
25	× • ■	ו =	× • =	ו =	ו =	× •	× •	× •	× •		
32	× • =	ו =	ו =	ו =	ו =	× •	x •	× •	× •	× •	
40	× • =	ו =	× • =	× • =	ו =	× •	× •	× •	× •	× •	
50	ו =	× • =	× • =	× • =	ו =	× •	× •	× •	× •	× •	
63	ו =	× • =	× • =	ו =	× • =	× •	× •	× •	× •	× •	
80	ו =	× • =	× • =	ו =	× • =	× •	× •	× •	× •	× •	•
100	× • =	× • =	× • =	ו =	× • =	× •	× •	× •	× •	× •	•
125	• =	• =	• =	• =	• =	•	•	•	•	•	•





Rear female trunnion Mod. C and C-H



Front female trunnion Mod. H and C-H



Front and rear flange Mod. D-E



Rear trunnion male Mod. L



Swivel combination Mod. C+L+S



90° male trunnion Mod. ZC



90° swivel combination for trunnion Mod. I



Clevis pin Mod. S



in Rod fork end Mod. G



d Piston rod socket joint Mod. GY



Swivel ball joint Mod. GA



Piston rod lock nut Mod. U



Centring sleeve Mod. TR



Self aligning rod Mod. GK



Coupling piece



Front/rear spot faced trunnion Mod. FN



Opposed cylinder



Proximity switches Mod. CST



Proximity switches Mod. CSH



Proximity switches Mod. CSG



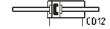
C₹ CAMOZZI



32	M	2	А	032	Α	050						
32	SERIES											
М	VERSION M = male rod thread, mo F = female rod thread R = antirotation with fla											
2	2 = double-acting 3 = double-acting, throu	= single-acting, front spring CS06 = double-acting CD08 = double-acting, through-rod CD12 = single-acting, rear spring CS08										
Α	MATERIALS A = anodized aluminium	MATERIALS A = anodized aluminium body, end blocks and piston, PU seals (rod, end-blocks OR and piston)										
032	BORES 012 = 12 mm 016 = 16 mm 020 = 20 mm 025 = 25 mm 032 = 32 mm 040 = 40 mm 050 = 50 mm 063 = 63 mm 063 = 63 mm 080 = 80 mm 125 = 125 mm											
Α	CONSTRUCTION A = standard											
050	STROKE (see the table)											
	VARIANTS = standard V = FKM rod seal W = high temperatures (up to 140°C) non-magnetic () = stem longer than mm											

PNEUMATIC SYMBOLS











Compact cylinders, Tandem and Multi-position versions Series 32

Double-acting, magnetic Ø 25, 40, 63, 100 mm





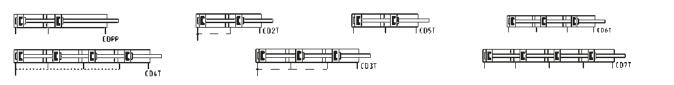


CODING EXAMPLE

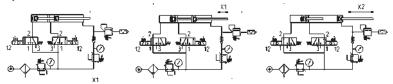
32	M	2	Α	040	Α	050	N	2				
32	SERIES compact magneti	SERIES compact magnetic										
M	VERSION M = male rod thre	VERSION M = male rod thread, mounted with rod nut Mod. U - F = female rod thread										
2	OPERATION PNEUMATIC SYMBOL CDPP CDPP											
Α	MATERIALS A = anodized alur	MATERIALS A = anodized aluminium profile, end blocks and piston PU seals (rod - OR end block and piston)										
040	BORE 025 = 25 mm 040 = 40 mm 063 = 63 mm 100 = 100 mm					CD5T, CD6T, CD7T CD5T, CD6T, CD7T CD2T, CD3T, CD4T CD5T, CD6T, CD7T						
Α	CONSTRUCTION A = standard											
050	STROKE - Tandem stroke in mm - Multi-position X1mm/X2mm. Insert the strokes without the initial 0 (see application scheme)											
N	Tandem and Multi-position											
2	STAGES (for Tande 2 = 2 stages	em version only)										

PNEUMATIC SYMBOLS

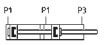
The pneumatic symbols which have been indicated in the CODING EXAMPLE are shown below.



Operation scheme



Multi-position - Example: 32M2A040A25/75N X1 = 25 mm $X2 = 75 \, mm$





Tandem, stroke = 50 mm - Example: 32M2A040A050N2 In order to increase the speed of the rod's return, it is possible to remove the covers from the intermediate end caps and supply the positive chambers from the outside

Anti-rotation guide units Series 45

Suitable for cylinders:

- DIN/ISO 6432 (Ø 12, 16, 20, 25 mm)
- ISO 15552, previous DIN/ISO 6431 (Ø 32, 40, 50, 63, 80, 100 mm)





CODING EXAMPLE

45	N	UT	050	Α	0100							
45	SERIES											
N	VERSION N = standard											
UT	OPERATION UT = "U" self lubricating gu HT = "H" self lubricating gu HB = "H" ball guide											
050	BORE 016 = Ø 12-16 mm (available only in the UT version with "U" self lubricating guide) 020 = 20 mm 025 = 25 mm 032 = 32 mm 040 = 40 mm 050 = 50 mm 063 = 63 mm 080 = 80 mm 100 = 100 mm											
Α	MATERIALS A = anodized aluminium b	ody - stainless steel AISI 420B co	lumns for 45UT and 45HT - hardened ste	eel C50 columns for 45HB								
0100	STROKE in mm											

Short-stroke cylinders Series QN

Single-acting, non magnetic Ø 8, 12, 20, 32, 50, 63 mm





STANDARD STROKES

Ø	4	5	10	25
8	×			
12	×		×	
20	×		×	
32		×	×	×
50			×	×
63			×	×

CODING EXAMPLE

QN	1	Α	50	Α	25						
QN	SERIES										
1	OPERATING PNEUMATIC SYMBOL 1 = single-acting CS01										
Α	MATERIALS A = rolled stainless steel rod - aluminium body										
50	BORE 08 = 8 mm 12 = 12 mm 20 = 20 mm 32 = 32 mm 50 = 50 mm 63 = 63 mm										
Α	TYPE OF DESIGN A = standard										
25	STROKE (see the standard strokes table)										

PNEUMATIC SYMBOLS



Short-stroke cylinders Series QP - QPR

Series QP: single and double-acting, magnetic Series QPR: double-acting magnetic, non-rotating Ø 12, 16, 20, 25, 32, 40, 50, 63, 80, 100 mm





STANDARD STROKES

■ = D	■ = Double-acting × = Single-acting					● = Non-rotating								
Ø	5	10	15	20	25	30	35	40	45	50	60	75	80	100
12	= × •	= × •	= × •	■ ×	= × •		•	•						
16	= × •	= × •	= × •	= × •	= × •					. •				•
20	= × •	= × •	= × •	= × •	= x •									
25	= × •	= × •	= × •	= × •	= x •									
32	= × •	= x •	= x •	= x •	= x •							. •		. •
40	= × •	= x •	= × •	= x •	= x •							. •	■ •	. •
50	= × •	= x •	= × •	= x •	= x •							. •		. •
63	= × •	= × •	= × •	= × •	= × •	. •			. •	. •		. •	. •	. •
80	= × •	= × •	= × •	= x •	= x •								■ •	. •
100	= × •	= × •	= × •	= × •	= × •								= •	

CODING EXAMPLE

QP	2	Α	050	Α	050								
QP	SERIES QP = standard - QPR = stand	SERIES QP = standard - QPR = standard non-rotating											
2	OPERATION PNEUMATIC SYMBOLS 1 = single-acting, front spring (only QP) CS09 2 = double-acting CD07 3 = double-acting, through-rod CD14												
Α	MATERIALS A = rolled stainless steel rod - AL tube profile												
050	BORE 012 = 12 mm - 016 = 16 mm	m - 020 = 20 mm - 025 =	25 mm - 032 = 32 mm - 040 =	40 mm - 050 = 50 mm -	063 = 63 mm - 080 = 80 mm - 3	100 = 100 mm							
Α	TYPE OF MOUNTING A = standard												
050	STROKE (see the standard strokes table)												
	= standard V = FKM rod seal W = all FKM seals (Ø 12 excepted)												

PNEUMATIC SYMBOLS











Short-stroke cylinders Series QL

Double-acting, magnetic and non magnetic Ø 12, 16, 20, 25, 32, 40, 50, 63, 80, 100 mm



STANDARD STROKES

Ø	5	10	15	20	25	30	35	40	45	50	75	100	125	150	175	200	250	300
12			. •	. •														
16			. •	. •														
20			. •	. •					. •									
25			. •	. •					. •									
32									. •			- •	×	×	×	×	×	×
40	. •		. •	. •					. •			- •	×	×	×	×	×	×
50			. •	. •	. •		. •		. •	•			×	×	×	×	×	×
63					. •		. •	. •				- •	×	×	×	×	×	×
80		.	•	•	. •	•	. •	•	•	•			×	×	×	×	×	×
100													×	×	×	×	×	×

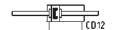
CODING EXAMPLE

QL	M	2	Α	032	Α	050							
QL	SERIES	SERIES											
M	VERSION M = Magnetic - N = No	M = Magnetic - N = Non magnetic											
2	OPERATION PNEUMATIC SYMBOLS 2 = double-acting CD08 (M) - CDB1 (N) 3 = double-acting, through-rod (only for M version) CD12 (M)												
Α	MATERIALS A = rolled stainless steel	MATERIALS A = rolled stainless steel rod - AL tube profile											
032	BORE 012 = 12 mm - 016 = 1	16 mm - 020 = 20 mm - ()25 = 25 mm - 032 = 32 m	m - 040 = 40 mm - 050 = 50 mi	m - 063 = 63 mm - 080 =	80 mm - 100 = 100 mm							
Α	CONSTRUCTION A = Standard - L = Long	g strokes (>100mm)											
050	STROKE (see the standard strokes table)												
	= Standard M = Male rod												
	= Standard EX = Atex												

PNEUMATIC SYMBOLS













Double-effect, magnetic with hollow through rod and mounting stud Bores: 20 and 30 mm





CODING EXAMPLE

RPA 20 R 010 A 20

RPA	SERIES
20	BORE 020 = 20 mm 030 = 30 mm
R	VERSION R = non-rotating
010	STROKE 010 = 10 mm 015 = 15 mm 025 = 25 mm 030 = 30 mm 050 = 50 mm
Α	CONSTRUCTION A = standard
20	STUD 14 = 14 mm 20 = 20 mm

PNEUMATIC SYMBOLS



Compact cylinders Series 31

Double and single-acting, double-acting non-rotating, magnetic \emptyset 12, 16, 20, 25 mm \emptyset 32, 40, 50, 63, 80, 100 mm UNITOP







STANDARD STROKES

■ = Do	ouble-a	cting	fema	le, ma	le
--------	---------	-------	------	--------	----

× = Non-rotating

• = Single-acting female, male

Ø	5	10	15	20	25	30	40	50	60	80
12	= × •	m × •	* ×	= ×	x	= ×	= ×			
16	= × •	m × •	E × •	= × •	= × •	= ×	= ×			
20	= × •	m × •	E × •	= × •	= × •	= ×	= ×	= ×		
25	= × •	= × •	E × •	= × •	= × •	= ×	= ×	= ×		
32	= × •	m × •	E × •	E × •	= × •	= ×	= ×	= ×		
40	= × •	= × •	E × •	= × •	= × •	= ×	= ×	= ×	= ×	= ×
50		= × •	E × •	= × •	= × •	= ×	= ×	= ×	= ×	= ×
63		= × •	= × •	= × •	= × •	= ×	= ×	= ×	= ×	= ×
80		= × •	E × •	= × •	= × •	= ×	= ×	= ×	= ×	= ×
100		E × •	= × •	= × •	= × •	= ×	= ×	= ×	= ×	= ×

Foot mount Mod. B



Rear and front flange Mod. D-E



Female rear trunnion Mod. C



Intermediate bracket Mod. DC



90° Swivel combination for female trunnion Mod. ZC



90° swivel combination for trunnion Mod. I



Rear male trunnion Mod. L



Piston rod lock nut Mod. U



Swivel ball joint Mod. GA



Rod fork end Mod. G



Piston rod socket joint Mod. GY



Self aligning rod



Coupling piece Mod. GKF



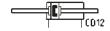
C∢ CAMOZZI

CODING EXAMPLE

31	M	2	Α	032	Α	050			
31	SERIES compact magnetic								
М	VERSION M = male rod thread, mo F = female rod thread R = non-rotating with fla								
2	OPERATION 1 = single-acting, front s 2 = double-acting 3 = double-acting, throu 4 = single-acting, throu 7 = single-acting, throu	ugh-rod oring			PNEUMATIC SYMBO CS06 CD08 CD12 CS08 CS10	LS			
Α	MATERIALS A = rolled stainless steel	AISI 303 rod - AL tube p	rofile						
032	BORE 012 = 12 mm 016 = 16 mm 020 = 20 mm 025 = 25 mm 032 = 32 mm 040 = 40 mm 050 = 50 mm 063 = 63 mm 080 = 80 mm 100 = 100 mm								
Α	DESIGN TYPE A = standard								
050	STROKE (see the standard stroke	es table)							
	= standard V = rod seal FKM W = seals in FKM for high	n temperatures (140°C),	only available in the do	uble-acting, non magnetic ver	rsion				

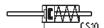
PNEUMATIC SYMBOLS











1 PNEUMATIC ACTUATION



Compact cylinders, Tandem and Multi-position versions Series 31

Double-acting, magnetic Ø 12, 16, 20, 25, 32, 40, 50, 63, 80, 100 mm



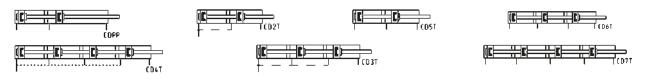


CODING EXAMPLE

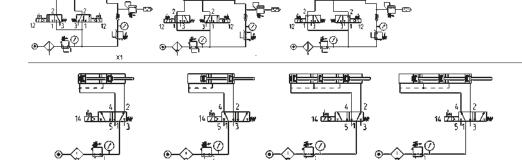
31	M	2	Α	032	Α	050	N	2				
31	SERIES											
M	VERSION M = male rod thre	VERSION M = male rod thread, mounted with rod nut Mod. U - F = female rod thread										
2	OPERATION PNEUMATIC SYMBOLS 2 = double-acting CDPP											
Α	MATERIALS A = rolled stainless steel rod AISI 303 - AL tube profile											
032		040 = 40 mm - 050	= 20 mm - 025 = 2 = 50 mm - 063 = 6			CD5T, CD6' CD2T, CD3' CD2T, CD3'	T, CD4T					
Α	CONSTRUCTION TY A = standard	PE										
050	STROKE - tandem stroke (mm) - multi-position X1mm/X2mm. Insert stroke without the initial 0 (see application scheme)											
N	TANDEM AND MULTI-POSITION											
2	STAGES (only for tandem) 2 = 2 stages - 3 = 3 stages - 4 = 4 stages											

PNEUMATIC SYMBOLS

The pneumatic symbols which have been indicated in the CODING EXAMPLE are shown below.



Operation scheme



Multi-position Example for ordering: X1 = 25 mm and X2 = 100 mm31M2A032A25/100N

Tandem Example for ordering: stroke 25 mm 31M2A032A025N2 (2 stages)

Stopper cylinders Series ST

Single and double-acting, magnetic, non-rotating Sizes 20, 32, 40, 50 mm









STANDARD STROKES

x = Single-acting and double-acting

Mod.	Ø	10	15	20	25	30	
ST31	20		×				
ST31	32			×			
ST31	50					×	
ST32	20	×	×				
ST32	32		×	×	×		
ST32	40			×	×	×	
ST32	50			×	×	×	

CODING EXAMPLE

ST	31	2	Α	050	Α	030				
ST	SERIES									
31	CONSTRUCTION STA 31 = UNITOP - 32									
2	OPERATION 2 = double-acting, r 4 = single-acting, r 9 = double-acting,	rear spring		PNEUMATIC SYMBOLS CD20 / CD08 CS15 / CS08 CS16 / CS17						
Α	DESIGN A = standard - R :	= non-rotating (for Mod. ST	32 only)							
050	BORE 020 = 20 mm - 0	32 = 32 mm - 040 = 40 m	m (for Mod. ST32 only) - 0	150 = 50 mm						
Α	CONSTRUCTION A = standard - R :	= with roller (for non-rotati	ng version only) - F = wit	h female thread (for Mod. ST32 onl	y)					
030	STROKE (see the standard strokes table)									
	VERSION = standard () = extended piston rod mm									

PNEUMATIC SYMBOLS















1 PNEUMATIC ACTUATION

Stainless steel cylinders Series 90

Single and double-acting, cushioned, magnetic Ø 32, 40, 50, 63, 80, 100 and 125 mm







STANDARD STROKES

x = Double-acting • = Single-acting

Ø	25	50	80	100	125	150	160	200	250	300	320	400	500
32	× •	× •	×	×	×	×	×	×	×	×	×	×	×
40	× •	× •	×	×	×	×	×	×	×	×	×	×	×
50	× •	× •	×	×	×	×	×	×	×	×	×	×	×
63	× •	× •	×	×	×	×	×	×	×	×	×	×	×
80	× •	× •	×	×	×	×	×	×	×	×	×	×	×
100	× •	× •	×	×	×	×	×	×	×	×	×	×	×
125		× •	×	×	×	×	×	×	×	×	×	×	×













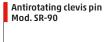




Clevis pin

Tight rear female trunnion bracket Mod. CR







Male trunnion bracket with swivel ball joint Mod. R







Piston rod lock nut Mod. U-90



C₹ CAMOZZI

CODING EXAMPLE

90	M	2	Α	050	Α	0200	
90	SERIES						
M	VERSION M = standard, magne	etic					
2		ont spring ront and rear cushions hrough-rod, front and r	ear cushions		PNEUMATIC S' CS06 CD09 CD13	YMBOLS	
Α	MATERIALS A = stainless steel AIS V = stainless steel AIS	SI 316, seals in NBR SI 316, all seals in FKM (150°C)				
050	BORE 032 = 32 mm 040 = 40 mm 050 = 50 mm 063 = 63 mm 080 = 80 mm 100 = 100 mm 125 = 125 mm						
Α	TYPE OF DESIGN A = standard with pis	ston rod lock nut Mod. l	J				
0200	STROKE (see the standard str	rokes table)					
	= standard V = rod seal in FKM						

PNEUMATIC SYMBOLS







C CAMOZZI

Stainless steel mini-cylinders Series 94 and 95

Single-acting and double-acting, magnetic

Series 94: Ø 16, 20, 25 mm Series 95: Ø 25 mm, cushioned





STANDARD STROKES

• = Single-acting × = Double-acting

Ø	10	25	40	50	80	100	125	160	200	250	300	320	400	500
94 16	• x	• ×	• x	• ×	×	×	×	×	×					
94 20	• ×	• ×	• x	• ×	×	×	×	×	×	×	×			
94 25	• x	• ×	• x	• ×	×	×	×	×	×	×	×	×	×	×
95 25	×	×	×	×	×	×	×	×	×	×	×	×	×	×















C₹ CAMOZZI

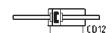
CODING EXAMPLE

94	N	2	Α	16	Α	100	
94	SERIES 94 = magnetic 95 = magnetic, cushione	d					
N	VERSION N = standard						
2	OPERATION 1 = single-acting, front s 2 = double-acting 3 = double-acting, throu				CS06 (S. 9- CD08 (S. 9	C SYMBOLS 4) '4) - CD09 (S. 95) '4) - CD13 (S. 95)	
Α	MATERIALS A = stainless steel, seals V = stainless steel, all sea						
16	BORE 16 = 16 mm 20 = 20 mm 25 = 25 mm						
Α	TYPE OF DESIGN A = standard with locking	g ring for end cap Mod.\	and piston rod lock nut	Mod. U			
100	STROKE (see the standard stroke	s table)					
	= standard V = rod seal in FKM						

PNEUMATIC SYMBOLS













1 PNEUMATIC ACTUATION

Stainless steel cylinders Series 97

Single and double-acting, cushioned, magnetic Ø 32, 40, 50, 63 mm





STANDARD STROKES

• = Single-acting **x** = Double-acting

Ø	25	50	75	80	100	125	150	160	200	250	300	320	400	500
32	× •	× •	×	×	×	×	×	×	×	×	×	×	×	×
40	× •	× •	×	×	×	×	×	×	×	×	×	×	×	×
50	ו	× •	×	×	×	×	×	×	×	×	×	×	×	×
63	× •	× •	×	×	×	×	×	×	×	×	×	×	×	×











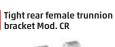




















C₹ CAMOZZI

CODING EXAMPLE

97	M	2	Α	050	Α	0200	
97	SERIES						
M	VERSIONS M = rear male hinge S = articulated rear n F = rear female hinge T = front and rear thr A = front end block w	nale hinge e readed end blocks					
2		ont and rear cushions	ear cushions (T and A ver	sions only)	PNEUI CS06 CD09 CD13	MATIC SYMBOLS	
Α	MATERIALS A = stainless steel AIS V = stainless steel AIS	SI 304 - PU seals SI 304 - FKM seals (150°	c)				
050	BORE 032 = 32 mm 040 = 40 mm 050 = 50 mm 063 = 63 mm						
Α	TYPE OF DESIGN A = standard (locking	g ring for end cap V + loo	ck nut for rod U)				
0200	STROKE (see the standard str	okes table)					
	= standard V = rod seal in FKM						_

PNEUMATIC SYMBOLS







C CAMOZZI

Cylinders with integrated guide Series QC

Double-acting, magnetic piston, guided Ø 20, 25, 32, 40, 50, 63 mm



STANDARD STROKES

■ = Double-acting

Out of standard intermediate strokes available on request (strokes multiple of 5 mm)

Ø	20	25	30	40	50	75	100	125	150	175	200
20	•				•			-			•
25			•	•	•		•		•	•	•
32								•			
40		-			-	-	-	-	-	-	
50								•			
63		•					•	•	•		-

CODING EXAMPLE

QC	Т	2	Α	020	Α	050

QC	SERIES
T	VERSION T = sintered bronze bushes B = linear ball bearings
2	OPERATION PNEUMATIC SYMBOL 2 = double-acting CD07
Α	MATERIALS A = anodized aluminium body - rolled stainless steel AISI 303 piston rod rolled stainless steel AISI 420B columns for QCT - hardened steel C50 columns for QCB
020	BORE 020 = 20 mm - 025 = 25 mm - 032 = 32 mm - 040 = 40 mm - 050 = 50 mm - 063 = 63 mm
Α	TYPE OF DESIGN A = standard
050	STROKE (see the standard strokes table)

PNEUMATIC SYMBOLS





Double-acting, magnetic, with double bearings and flanges \emptyset 20, 25, 32, 40 mm



STANDARD STROKES

■ = Type A and C Out of standard intermediate strokes available on request (strokes multiple of 5 mm)

≭ = Type B

Ø	20	25	30	40	50	75	100	125	150	175	200
20						E ×	= ×	E ×	= ×	m ×	= ×
25	•		-	•		= ×	= ×	= ×	= ×	= ×	= ×
32							= ×	= ×	= ×	= ×	= ×
40							= ×	= ×	= ×	= ×	= ×

CODING EXAMPLE

QC	T	F	2	Α	020	Α	050
QC	SERIES						
T	TYPE OF BEARING T = sintered bronze B = linear ball bear						
F	VERSION F = double flange						
2	OPERATION 2 = double-acting					PNEUMATIC SYMBOL CD14	
Α	MATERIALS A = anodized alumi	inium body - rolled stail	nless steel piston rod AI:	SI 303 rolled stainless st	eel AISI 420B colums for QCTF -	hardened steel C50 colu	ums for QCBF
020	BORE 020 = 20 mm - 02	25 = 25 mm - 032 = 32	mm - 040 = 40 mm				
Α	B = two shock abso	al cushion (standard) orbers located on the bo orber located on the rear					
050	STROKE (see the standard s	trokes table)					

PNEUMATIC SYMBOLS



050

Twin cylinders Series QX

Double-acting, magnetic, guided Ø 10x2, 16x2, 20x2, 25x2, 32x2 mm







STANDARD STROKES

■ = Double-acting

Ø	10	20	30	40	50	75	100
10							
16	•	•	•	•		•	•
20							
25							
32							

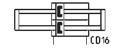
CODING EXAMPLE

ŲΛ			_ ^	020		050				
QX	SERIES									
T	VERSION T = sintered bronze bu B = linear ball bearing									
2		OPERATION 2 = double-acting (1 flange) radial / axial pressure supply 3 = double-acting through-rod (double-flange), radial pressure supply CD16								
Α	MATERIALS A = anodized aluminic	um body, rolled stainless ste	el AISI 303 (QXT) or hardene	d steel C50 (QXB) piston rod						
020	BORE 010 = 10 mm - 016 =	= 16 mm - 020 = 20 mm -	025 = 25 mm - 032 = 32 r	nm						
Α	TYPE OF DESIGN A = standard									
050	STROKE (see the standard stro	kes table)								

020

PNEUMATIC SYMBOLS





IFS MSN

New

Pneumatic mini slides Series MSN

Size: 6, 10, 16, 20



STANDARD STROKES

■ = Double-acting

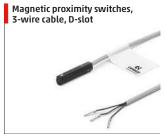
Ø	5	10	15	20	25	30	40	50	60
6	•	•	•	•	•	•			
10	•	•	•	•	•	•	•	•	
16		•	•	•	•	•	•	•	•
20									

CODING EXAMPLE

MSN	10	-	30
MSN	SERIES		
10	SIZE 6 10 16 20		
30	STROKE (see the standard strokes table)		

PNEUMATIC SYMBOLS











Pneumatic mini slides **Series MST**



Size: 6, 8, 12, 16, 20, 25



STANDARD STROKES

■ = Double-acting

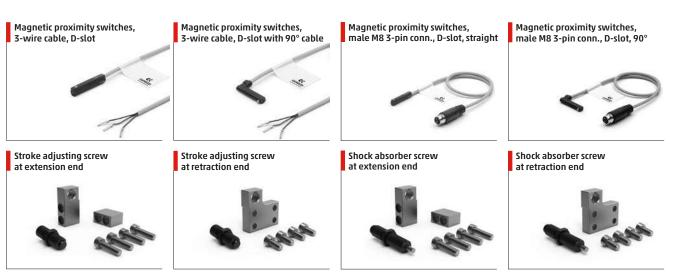
Ø	10	20	30	40	50	75	100	125	150
6									
8	•	•	•	•	•	•			
10									
12									
16									
25									

CODING EXAMPLE

MST	12	-	40
MST	SERIES		
12	SIZE 6 8 12 16 20 25		
40	STROKE (see the standard strokes table)		

PNEUMATIC SYMBOLS





SHORT FORM CATALOGUE 2024 PNEUMATIC ACTUATION > SERIES 14

Compact mini-cylinders Series 14

Single-acting Bores Ø 6, 10, 16 mm and strokes 5, 10, 15 mm With super-rapid fitting Ø 4 and M5 port

with non threaded piston rod

Super-rapid fitting incorporated

Mod.	Ø	STROKE
14N1A06A05	6	5
14N1A06A10	6	10
14N1A06A15	6	15
14N1A10A05	10	5
14N1A10A10	10	10
14N1A10A15	10	15
14N1A16A05	16	5
14N1A16A10	16	10
14N1A16A15	16	15



with threaded piston rod

Super-rapid fitting incorporated

Mod.	Ø	STROKE
14N1A06B05	6	5
14N1A06B10	6	10
14N1A06B15	6	15
14N1A10B05	10	5
14N1A10B10	10	10
14N1A10B15	10	15
14N1A16B05	16	5
14N1A16B10	16	10
14N1A16B15	16	15



with non threaded piston rod

Threaded port

Mod.	Ø	STROKE
14N1M06A05	6	5
14N1M06A10	6	10
14N1M06A15	6	15
14N1M10A05	10	5
14N1M10A10	10	10
14N1M10A15	10	15
14N1M16A05	16	5
14N1M16A10	16	10
14N1M16A15	16	15



with threaded piston rod

Threaded port

Mod.	Ø	STROKE
14N1M06B05	6	5
14N1M06B10	6	10
14N1M06B15	6	15
14N1M10B05	10	5
14N1M10B10	10	10
14N1M10B15	10	15
14N1M16B05	16	5
14N1M16B10	16	10
14N1M16B15	16	15



CODING EXAMPLE

14	N	1	Α	06	Α	05
14	SERIES					
N	VERSION N = non-magnetic					
1	OPERATION 1 = single-acting			PNEUMATIC SY CS01	/MBOL	
Α	TYPE OF CONNECTION A = tube Ø 4 M = thread M5					
06	BORE 06 = 6 mm 10 = 10 mm 16 = 16 mm					
Α	TYPE OF DESIGN A = non-threaded smooth pistor B = threaded piston rod	n rod				
05	STROKE 05 = 5 mm 10 = 10 mm 15 = 15 mm					

PNEUMATIC SYMBOLS



1 PNEUMATIC ACTUATION

Roundline cylinders Series 27

Double-acting, magnetic Ø 20, 25, 32, 40, 50, 63 mm





STANDARD STROKES

Mod. 27M and 27T (\emptyset 20 \div 40) and Mod. 27U (\emptyset 20 \div 63)

Ø	10	25	40	50	80	100	125	160	200	250	300	320	400	500
20			•	•	•	•		•			•		•	
25														-
32														
40														
50														
63														





Swivel ball joint Mod. GA



Foot mount Mod. B



Piston rod socket joint Mod. GY



Threaded trunnion pin Mod. T



Piston rod lock nut Mod. U



Rear trunnion bracket Mod. I (Ø 20, 25, 32, 40)



Nose nut Mod. V



Rear trunnion bracket Mod. I (Ø 50 - 63)



Self aligning rod Mod. GK



Rod fork end Mod. G



Coupling piece Mod. GKF



C₹ CAMOZZI

CODING EXAMPLE

SHORT FORM CATALOGUE 2024

27	M	2	Α	20	Α	0050						
27	SERIES											
М	VERSION M = rear endblock with trunnion and upper round port for ø 20-25-32-40 T = rear endblock with rear round port for ø 20-25-32-40 U = rear endblock with upper round port for ø 20-25-32-40-50-63											
2	OPERATION 2 = double-acting				PNEUMATIC S' CD08	YMBOL						
Α	MATERIALS A = rolled stainless st	eel rod - stainless steel tube										
20	BORE 20 = 20 mm 25 = 25 mm 32 = 32 mm 40 = 40 mm 50 = 50 mm 63 = 63 mm											
Α	TYPE OF DESIGN A = standard											
0050	STROKE (see the standard strokes table)											

PNEUMATIC SYMBOLS



Cylinders Series 42

Single and double-acting, magnetic, cushioned \emptyset 32, 40, 50, 63



STANDARD STROKES

x = Double acting ■ = Single acting

Ø	25	50	75	80	100	125	150	160	200	250	300	320	400	500
32	× =	× =	× =	×	×	×	×	×	×	×	×	×	×	×
40	× =	× =	× =	×	×	×	×	×	×	×	×	×	×	×
50	× =	¥ =	v =	*	~		×	*				×	×	~
														•
63	× =	× =	× =	×	×	×	×	×	×	×	×	×	×	×





Trunnion Mod. I



threaded pins Mod. T

Bracket with



Nose nut



Rod fork end Mod. G



Piston rod lock Mod. U



Swivel ball joint Mod. GA



Piston rod socket joint Mod. GY



Self aligning rod Mod. GK



Coupling piece Mod. GKF



C∢ CAMOZZI



42	M	2	N	050	Α	0200					
42	SERIES										
M	VERSION M= standard magnetic										
2	OPERATION 1 = single-acting, cushions (front spring) 2 = double-acting, front and rear cushions 3 = double-acting, no cushion 4 = double-acting, rear cushions 5 = double-acting, front cushion 6 = double-acting, front cushion 6 = double-acting, front cushion 7 = single-acting, through-rod, cushions CD13 CS13										
N	MATERIALS N = stainless steel AIS	SI 420B rod - stainless steel	AISI 304 tube - NBR seals								
050	BORE 032 = 32 mm 040 = 40 mm 050 = 50 mm 063 = 63 mm										
Α	TYPE OF DESIGN A = standard with nose nut Mod. V and piston rod lock nut Mod. U										
0200	STROKE (see the standard strokes table)										

PNEUMATIC SYMBOLS



Rotary cylinders Series 69

Magnetic, cushioned

Ø 32, 40, 50, 63, 80, 100, 125 mm Rotational angles: 90°, 180°, 270° and 360°



- » Male or female version
- » Clean design

TABLE OF TORQUE FORCE IN Nm (THEORETICAL)

Ø	1 bar	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	8 bar	9 bar	10 bar
32	1,2	2,4	3,6	4,8	6	7,2	8,4	9,6	10,8	12
40	2,25	4,5	6,75	9	11,25	13,5	15,75	18	20,25	22,5
50	3,9	7,8	11,7	15,6	19,5	23,4	27,3	31,2	35,1	39
63	7,3	14,6	21,9	29,2	36,5	43,8	51,1	58,4	65,7	73
80	15,7	31,4	47,1	62,8	78,5	94,2	109,9	125,6	141,3	157
100	26,35	52,7	79,05	105,4	131,75	158,1	184,45	210,8	237,15	263,5
125	51	102	153	204	255	306	357	408	459	510

CODING EXAMPLE

69	-	050	/	090	-	F	
69	SERIES PNEUMATIC SYMBOL CD18						
050	BORE 032 = 32 mm 040 = 40 mm 050 = 50 mm 063 = 63 mm 080 = 80 mm 100 = 100 mm 125 = 125 mm						
090	ROTATIONAL ANGLES 090 = 90° 180 = 180° 270 = 270° 360 = 360°						
F	PINION F = Female M = Male						
	SEALS MATERIAL = NBR W = FKM + 130°C						

PNEUMATIC SYMBOLS



Rotary cylinders Series 30

Non magnetic, cushioned and not cushioned Ø 50, 63, 80, 100 mm Rotational angles: 90° and 180°



TABLE OF TORQUE FORCE IN Nm (THEORETICAL)

Ø	1 bar	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	8 bar	9 bar	10 bar
50	2,08	4,16	6,24	8,32	10,40	12,48	14,55	16,63	18,71	20,79
63	4,40	8,80	13,20	17,61	22,01	26,41	30,81	35,21	39,61	44,01
80	7,10	14,19	21,29	28,39	35,49	42,58	49,68	56,78	63,87	70,97
100	16,63	33,27	49,90	66,54	83,17	99,80	116,44	133,07	149,07	166,34

CODING EXAMPLE

30	-	050	/	090	-	3		
30	SERIES PNEUMATIC SYMBOL CD17							
050	BORE 050 = 50 mm 063 = 63 mm 080 = 80 mm 100 = 100 mm							
090	ROTATIONAL ANGLES 090 = 90° 180 = 180°							
3	VERSION = cushioned 3 = not cushioned							

PNEUMATIC SYMBOLS



1 PNEUMATIC ACTUATION

PNEUMATIC ACTUATION > SERIES ARP SHORT FORM CATALOGUE 2024

Rotary actuators Series ARP

Model: "Rack & Pinion"

Sizes: 1, 3, 5, 10, 12, 20, 35, 55, 70, 100, 150, 250, 400 Rotational angles: 90°





CODING EXAMPLE

ARP	-	003	-	1A	Α	-	F0300	-	Α	EX
ARP	SERIES									
003	003 = torque force 24 Nm 005 = torque force 50 Nm 010 = torque force 100 Nm 012 = torque force 120 Nm 020 = torque force 200 Nm 035 = torque force 200 Nm 035 = torque force 370 Nm 055 = torque force 597 Nm 070 = torque force 825 Nm 100 = torque force 1122 Nm 150 = torque force 1122 Nm 150 = torque force 2648 Nm 250 = torque force 2648 Nm 400 = torque force 4800 Nm									
1A	OPERATION 1A = single-acting, minimum pressure of 4 bar 1B = single-acting, minimum pressure of 5 bar 1C = single-acting, minimum pressure of 5,5, bar 1D = single-acting, minimum pressure of 6 bar 2A = double-acting						PNEUMATIC SYMBOLS CD19 / CD21 CD19 / CD21 CD19 / CD21 CD19 / CD21 CD19 / CD21 CD17			
Α	ROTATION ANGLE $A = 90^{\circ}$									
F0300	INTERFACE FOR FLANGE (ISO 5211) F0300 = F03 flange and 9mm square holes F0305 = F03 flange and 9mm square holes F0400 = F04 flange and 11mm square holes F0507 = F05 flange holes + F07 flange and 14mm square holes F0705 = F07 flange holes + F07 flange and 17mm square holes F0706 = F07 flange holes + F010 flange and 17mm square holes F0707 = F10 flange holes + F07 flange and 27mm square holes F1007 = F12 flange holes + F07 flange and 27mm square holes F1210 = F12 flange holes + F10 flange and 27mm square holes F1400 = F14 flange and 36mm square holes F1600 = F16 flange and 46mm square holes F2516 = F25 flange + F16 flange and 55mm square holes									
Α	C = CNI k	ALS dard anodized Kanigen type nickel-p -KM seals (130°C)	lating							
EX	ATEX cer	tified product								

PNEUMATIC SYMBOLS







Rotary actuators with rack and pinion system Series QR

Magnetic, cushioned 7, 10, 20, 30, 50 mm Rotation angles: 0 - 190°



CODING EXAMPLE

	QR	20	Α
--	----	----	---

QR	SERIES	PNEUMATIC SYMBOL CD18
20	SIZE 07 10 20 30 50	
Α	TYPE OF CUSHIONING A = Mechanical stop S = Shock absorber	

PNEUMATIC SYMBOLS



1 PNEUMATIC ACTUATION

Rodless cylinders Series 50

Double-acting, magnetic, cushioned Ø 16, 25, 32, 40, 50, 63, 80 mm





CODING EXAMPLE

50	M	2	P	50	Α	0500			
50	SERIES								
M	VERSION M = standard magnetic								
2	OPERATION PNEUMATIC SYMBOL CDSS CDSS								
Р	MATERIALS P = anodized AL profile tube - PU and NBR seals - standard carriage U = anodized AL profile tube - PU and NBR seals - flanged carriage								
50	BORE 16 = 16 mm 25 = 25 mm 32 = 32 mm 40 = 40 mm 50 = 50 mm 63 = 63 mm 80 = 80 mm								
Α	TYPE OF MOUNTING A = standard								
0500	STROKE for all diameters 100 ÷	4000 mm							

Foot mount Mod. B-50

Mod. B-50-16 B-50-25 B-50-32 B-50-40 B-50-63 B-50-63



Brackets Mod. BH-50

Mod. BH-50-16 BH-50-25 BH-50-32 BH-50-40 BH-50-50 BH-50-63 BH-50-80



Self-compensating adaptor Mod. CF-50

Mod. CF-50-25 CF-50-32 CF-50-40 CF-50-63 CF-50-63



C∢ CAMOZZI

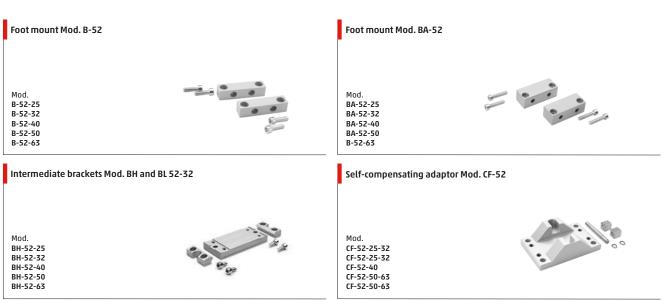
Rodless cylinders Series 52

Double-acting, magnetic, cushioned Ø 25, 32, 40, 50, 63 mm



CODING EXAMPLE

52	M	2	Р	40	А	0500				
52	SERIES									
M	VERSION M = standard G = with slide bearing R = with roller bearing (only Ø25 - 32 - 40)									
2	OPERATION PNEUMATIC SYMBOLS 2 = double-acting, cushioned, with air supply from both sides CDSS 8 = double-acting, cushioned, with air supply from one side only CDSS									
Р	MATERIALS P = anodized AL profile tube, NBR and PU seals, standard carriage C = anodized AL profile, NBR and PU seals, stort carriage									
40	BORE 25 = 25 mm 32 = 32 mm 40 = 40 mm 50 = 50 mm 63 = 63 mm									
Α	TYPE OF MOUNTING A = standard									
0500	STROKE Up to 6000 mm									



CAMOZZI

Magnetic proximity switches Series CST-CSV, CSB-CSC-CSD, CSG

Reed

Magnetoresistive - Hall effect (Series CST, CSV, CSH only)

Magnetic proximity switches with 2- or 3-wire cable for T-slot

1-100.					
CST-220	CST-220-5EX				
CST-220-5	CST-220-12EX				
CST-220-12	CST-232				
CST-220EX	CST-232-5				





Magnetic proximity switches with 2- or 3-wire cable for V-slot

Mod.	
CSV-220	
CSV-232	
CSV-332	



Magnetic proximity switches with M8 3-pin connector for T-slot

Mod.	
CST-250N	CST-362
CST-250NEX	CST-362EX
CST-262	CST-562
CST-262EX	CST-562EX



Magnetic proximity switches with M8 3-pin connector for V-slot

Mod.	
CSV-250N	
CSV-262	
CCV 742	_



Magnetic proximity switches with 2- or 3-wire cable for H-slot

CSH-223-2	_
CSH-223-5	
CSH-223-10	_
CSH-223-2EX	

CSH-223-5EX CSH-223-10EX CSH-221-2 CSH-221-5 CSH-221-2EX CSH-221-5EX CSH-233-2



Magnetic proximity switches wtih M8 3-pin connector for H-slot

Mod.	
CSH-253	CSH-364
CSH-253EX	CSH-364EX
CSH-263	CSH-463
CSH-263EX	CSH-463EX



Magnetic proximity switch with 2-wire cable for B-slot



Magnetic proximity switch with 2-wire 90° cable for B-slot



Magnetic proximity switch with 2-wire cable for C-slot



Mod.

CSB-D-220



Magnetic proximity switch with 2-wire 90° cable for C-slot



Mod.

Mod.

CSD-H-

Mod.

CSD-H-364

Mod.

CSB-H-220

Magnetic proximity switches, 3-wire cable, D-slot





Magnetic proximity switches, 3-wire cable, D-slot with 90° cable

ire cable, D-Slot With 90° Cable	
	4 13
334	
33/-5	

Magnetic proximity switches, male M8 3-pin conn., D-slot, straight



Magnetic proximity switches, male M8 3-pin conn., D-slot, 90°



Mod.

Magnetic proximity switches,
ATEX "II 3 GD" certified, T-slot, straight

1-104.		
CSG-223-2-EX	CSG-324-5-EX	CSG-734-2-EX
CSG-223-5-EX	CSG-334-2-EX	CSG-734-5-EX
CSG-233-2-EX	CSG-334-5-EX	CSG-634-2-EX
CSG-233-5-EX	CSG-534-2-EX	CSG-634-5-EX
CSG-324-2-FX	CSG-534-5-FX	



Magnetic proximity switches, UL certified, T-slot, straight

Mod.		
CSG-223-2-UL	CSG-233-5-UL	CSG-334-2-UL
CSG-223-5-UL	CSG-233-10-UL	CSG-334-5-UL
CSG-223-10-UL	CSG-324-2-UL	CSG-534-2-UL
CSG-233-2-UL	CSG-324-5-UL	



C∢ CAMOZZI



CS	T	_	2	2	0	N	-	5	EX
							•		
CS	SERIES								
T	TYPE OF SLOT T = T-slot - V = V-9	slot - H = H-slot							
2	OPERATION 2 = Reed NO - 3 :	= Magnetoresistive	- 4 = Reed NC - 5	= Hall effect					
2	CONNECTIONS 2 = 2 wires (Reed 3 = 3 wires 5 = 2 wires with M 6 = 3 wires with M	8 connector (Reed	only)						
0		10 ÷ 230 V AC (PNP 30 ÷ 230 V AC (PNP P) C (PNP)							
N	NOTE (CST/CSV-250 N = according to n								
5	LENGTH OF THE CAR = 2m (CST and CS 2 = 2m (CSH only) 5 = 5m								
EV	ATEX certification -	Category 3 Zone 2	/22 G / D						

SERIES CSB, CSC, CSD CODING EXAMPLE

CS	B - D - 2 2 0 -
CS	SERIES
В	TYPE OF SLOT B = B-slot - C = C-slot - D = D-slot
D	CABLE OUTPUT D = straight H = 90°
2	OPERATION 2 = Reed NC (CSB, CSC only) - 3 = Magnetoresistive (CSD only)
2	CONNECTIONS 2 = 2 wires (CSB, CSC only) 3 = 3 wires (CSD only) 6 = 3 wires with M8 connector (CSD only)
0	POWER SUPPLY VOLTAGE 0 = 10 ÷ 110 V DC/AC (CSB, CSC only) 4 = 10 ÷ 27 V DC PNP (CSD only)
	LENGTH OF THE CABLE = 2m (standard) 5 = 5m

SERIES CSG CODING EXAMPLE

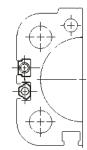
CS	G - 2 2 3 - 2 - UL	
CS	SERIES	
G	TYPE OF SLOT G = T-slot	
2	OPERATION 2 = Reed Normally Open - 3 = Magnetoresistive PNP - 5 = Magnetoresistive NPN - 6 = Magnetoresistive PNP Normally Closed - 7 = Magnetoresistive NPN Normally Closed	ed
2	CONNECTIONS 2 = 2 wires 3 = 3 wires	
3	POWER SUPPLY VOLTAGE 3 = 5/10 ÷ 30 V AC/DC (PNP) 4 = 10 ÷ 28 V DC (PNP)	
2	LENGTH OF THE CABLE 2 = 2m 5 = 5m 10 = 10 m	
UL	CERTIFICATION EX = ATEX certification UL = UL certification	

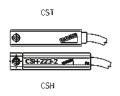
1

Mounting of Series CST - CSH - CSG sensors

CST/CSH/CSG sensors can be directly mounted on cylinders: Series 31, 31R, 32, 32R Series 52 Series 61 Series 63 (CSH only)

Series 69 Series 6PF Series QC, QCBF, QCTF

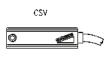




Mounting of Series CSV sensors

CSV sensors must be assembled directly into the groove of cylinders: Series 50 ø 16÷25 Series QP - QPR ø 12÷16





3-wire extension with M8 3-pin female connector

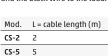
With PU sheathing, non shielded cable.

Protection class: IP65 1 BN = Brown

4 BK = Black 3 BU = Blue

CS-10 10

In case 2-wire sensors with M8 connector (Mod. CST-250N, CSV-250N, CSH-253) are used, please connect the brown wire to the supply (+) and the black wire to the load.





3-wire extension with M8 3-pin male / female connector



Mod.	L = cable length (m)
CS-DW03HB-C250	2,5
CS-DW03HB-C500	5

Adapters Mod. S-CST-01 for Series CST-CSH-CSG sensors, V-slot



Mod.	Series QP-QPR cylinders	Series 50 cylinders
S-CST-01	Ø 20 ÷ 100	Ø 32 ÷ 80

Adapters Mod. S-CST-02..21 for Series CST-CSH-CSG sensors

- stainless steel and technopolymer

(S-CST-05÷12)*

- technopolymer (S-CST-02÷04) - technopolymer (S-CST-18÷21)

* Not suitable for use with Series CSG sensors



MOU.	Cytilideis selles	ע
S-CST-02	24, 25, 27	16
S-CST-03	24, 25, 27	20
S-CST-04	24, 25, 27	25
S-CST-05	94, 95	16-20-25 (94), 16-20 (95)
S-CST-06	90, 97, 95	32 (90-97), 25 (95)
S-CST-07	90, 97	40
S-CST-08	90, 97	50
S-CST-09	90, 97	63
S-CST-10	90	80
S-CST-11	90	100
S-CST-12	90	125
S-CST-18	27, 42	32
S-CST-19	27, 42	40
S-CST-20	27, 42	50
S-CST-21	27, 42	63
S-CST-16	63	32

Mod Cylinders Series Ø

Adapters Mod. S-CST-25..28 for Series CST-CSH-CSG sensors

Material: anodized aluminium



Mod.	Cylinders Series	Ø
S-CST-25	90, 63MT	32 ÷ 63
S-CST-26	90, 63MT	80 ÷ 100
S-CST-27	90, 63MT	125
S-CST-28	40	160 - 200

Adapters for Series CST-CSH-CSG sensors

For Series 63MT cylinders mounted with guides 45NHT or 45NHB. S-CST-45N1 is not suitable for use with Series CSG sensors.





Mod.	Cylinders Series	Ø
S-CST-45N1	90,63MT	32 ÷ 63
S-CST-45N2	90, 63MT	80 ÷ 100

Slot cover profile suitable for actuators with T- and H-slot

Supplied with 500 mm tube



Mod.	Series of cylinders
S-CST-500	31, 31 Tandem and Multi-position, QCT, QCB, QCBT, QCBF, 61, 63MP, 6E, 5E, 69, 32, 32 Tandem and Multi-position

Proximity switches Series CSN

Reed switch



Mod.	for cylinders Series 40 - ø 160 ÷ 200	for cylinders Series 40 - ø 250 ÷ 320	for cylinders Series 41 - ø 160 ÷ 200
CSN 2032-0	mounting band to be ordered separately	direct mounting	mounting band to be ordered separately

Mounting bracket for sensor

Mod.	
S21	for cylinders Series 40 ø 160 and 200
\$53	for cylinders Series 41 ø 160 and 200



Table 1: mounting of sensors on cylinders

Series	Ø	CST - CSH	CSV	CSN
3- 24 - 25	16	S-CST-02		CSIV
5 24 25	20	S-CST-03		
	25	S-CST-04		
7	20	S-CST-03		
<u> </u>	25	S-CST-04		
	32	S-CST-18		
	40	S-CST-19		
	50 63	S-CST-20		
		S-CST-21		
1	12	Direct mounting		
	16	Direct mounting		
	20	Direct mounting		
	25	Direct mounting		
	32	Direct mounting		
	40	Direct mounting		
	50	Direct mounting		
	63	Direct mounting		
	80	Direct mounting		
	100	Direct mounting		
2	12	Direct mounting		
	16	Direct mounting		
	20	Direct mounting		
	25	Direct mounting		
	32	Direct mounting		
	40	Direct mounting		
	50	Direct mounting		
	63	Direct mounting		
	80	Direct mounting		
	100	Direct mounting		
	125	Direct mounting		
юк	160	S-CST-28		S21
	200	S-CST-28		S21
	250			Direct mounting
	320			Direct mounting
1K	160			\$53
	200			S53
2	32	S-CST-18		333
	40	S-CST-19		
	50	S-CST-20		
	63	S-CST-21		
.0	16	2-C21-21	Disect mounting	
0			Direct mounting	
	25		Direct mounting	
	32	S-CST-01		
	40	S-CST-01		
	50	S-CST-01		
	63	S-CST-01		
	80	S-CST-01		
2	25	Direct mounting		
	32	Direct mounting		
	40	Direct mounting		
	50	Direct mounting		
	63	Direct mounting		
5N	32	S-CST-45N1		
	40	S-CST-45N1		
	50	S-CST-45N1		
	63	S-CST-45N1		
	80	S-CST-45N2		
	100	S-CST-45N2		

C₹ CAMOZZI

Table 2: mounting of sensors on cylinders

Series	Ø	CST - CSH	
61	32	Direct mounting	
	40	Direct mounting	
	50	Direct mounting	
	63	Direct mounting	
	80	Direct mounting	
	100	Direct mounting	
63P	32	Direct mounting (CSH only)	
	40	Direct mounting (CSH only)	
	50	Direct mounting (CSH only)	
	63	Direct mounting (CSH only)	
	80	Direct mounting (CSH only)	
	100	Direct mounting (CSH only)	
	125	Direct mounting (CSH only)	
63T	32	S-CST-25	
	40	S-CST-25	
	50	S-CST-25	
	63	S-CST-25	
	80	S-CST-26	
	100	S-CST-26	
	125	S-CST-27	
59	32	Direct mounting	
	40	Direct mounting	
	50	Direct mounting	
	63	Direct mounting	
	80	Direct mounting	
	100	Direct mounting	
	125	Direct mounting	
SPF	50	Direct mounting	
	63	Direct mounting	
	80	Direct mounting	
	100	Direct mounting	
	125	Direct mounting	
90	32	S-CST-06	
	40	S-CST-07	
	50	S-CST-08	
	63	S-CST-09	
	80	S-CST-10	
	100	S-CST-11	
	125	S-CST-12	
94	16	S-CST-05	
	20	S-CST-05	
	25	S-CST-05	
95	16	S-CST-05	
	20	S-CST-05	
	25	S-CST-06	
97	32	S-CST-06	
	40	S-CST-07	
	50	S-CST-08	
	63	S-CST-09	

C₹ CAMOZZI

Table 3: mounting of sensors on cylinders

Series	Ø	CST - CSH	CSV	CSC-D / CSC-H
бс	20	Direct mounting		
	25	Direct mounting		
	32	Direct mounting		
	40	Direct mounting		
	50	Direct mounting		
	63	Direct mounting		
QCBF	20	Direct mounting		
	25	Direct mounting		
	32	Direct mounting		
	40	Direct mounting		
QCTF	20	Direct mounting		
	25	Direct mounting		
	32	Direct mounting		
	40	Direct mounting		
)L	12			Direct mounting
	16			Direct mounting
	20			Direct mounting
	25			Direct mounting
	32			Direct mounting
	40			Direct mountin
	50			Direct mounting
P - QPR	12		Direct mounting	
	16		Direct mounting	
	20	S-CST-01		
	25	S-CST-01		
	32	S-CST-01		
	40	S-CST-01		
	50	S-CST-01		
	63	S-CST-01		
	80	S-CST-01		
	100	S-CST-01		
ΣΧ	10			Direct mounting
-	16			Direct mountin
	20			Direct mountin
	25			Direct mountin
	32			Direct mountin
ST	20	Direct mounting		
	32	Direct mounting		
	40	Direct mounting		
	50	Direct mounting		

C∢ CAMOZZI



Table 4: mounting of sensors on grippers, electromechanical axis/cylinders

* Further details about Series 5E electromechanical axis and Series 6E electromechanical cylinders can be found in the Electric actuation catalogue.

Series	Ø	CST - CSH	CSB-D / CSB-H	CSC-D / CSC-H	CSD-D / CSD-H
Grippers					
CGAN	10				Direct mounting
	16				Direct mounting
	20				Direct mounting
	25				Direct mounting
	32				Direct mounting
CGLN	10			Direct mounting	
	16			Direct mounting	
	20			Direct mounting	
	25			Direct mounting	
	32			Direct mounting	
CGPS	10				Direct mounting
	16				Direct mounting
	20				Direct mounting
	25				Direct mounting
	32				Direct mounting
GSP	20				Direct mounting
	25				Direct mounting
	32				Direct mounting
	40				Direct mounting
CGPT	16				Direct mounting
	20				Direct mounting
	25				Direct mounting
	32				Direct mounting
	40				Direct mounting
GSN	16			Direct mounting	Direct mounting
	20			Direct mounting	Direct mounting
	25			Direct mounting	Direct mounting
	32			Direct mounting	Direct mounting
GSY	10				Direct mounting
	16				Direct mounting
	20				Direct mounting
	25				Direct mounting
RPGB	8				Direct mounting
	12				Direct mounting
RPGA	20				Direct mounting
	30				Direct mounting
Electromechanical axis *					
5E	50	Direct mounting (CSH only)			
	65	Direct mounting (CSH only)			
	80	Direct mounting (CSH only)			
5V	50	Direct mounting			
	60	Direct mounting			
	80	Direct mounting			
Electromechanical cylinders *					
SE .	32	Direct mounting			
	40	Direct mounting			
	50	Direct mounting			
	63	Direct mounting			
3E	20				Direct mounting
	32				Direct mounting
Tools changer					
RTC	90				Direct mounting
	150		·		Direct mounting

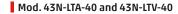


1

Hydrochecks Series 43

Bore Ø 40 mm Regulated thrust or return stroke. Skip-Stop function

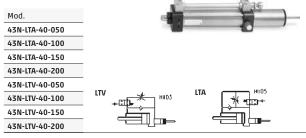
Mod. 43N-LT0-40





Mod.
43N-LT0-40-050
43N-LTO-40-100
43N-LT0-40-150
43N-LT0-40-200





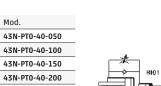
Mod. 43N-LTB-40



Mod.	
43N-LTB-40-050	
43N-LTB-40-100	
43N-LTB-40-150	
43N-LTB-40-200	

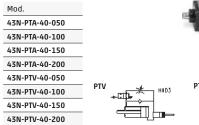


Mod. 43N-PT0-40



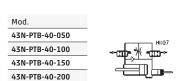
Mod. 43N-PTA-40 and 43N-PTV-40

Mod. 43N-PTB-40





1137

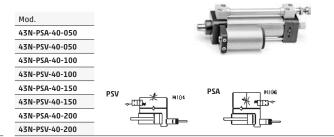


Mod. 43N-PS0-40

Mod. 43N-PSA-40 and 43N-PSV-40



0		



Mod. 43N-PSB-40

Mod.

43N-PS0-40-050

43N-PSO-40-100 43N-PS0-40-150

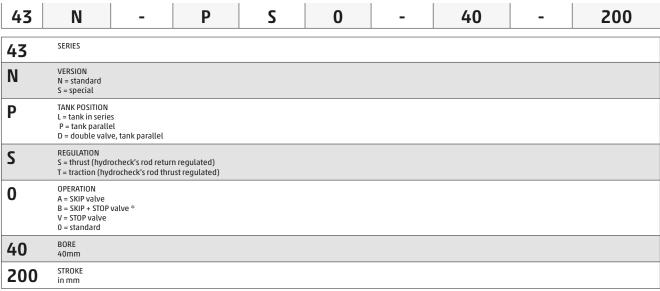
43N-PS0-40-200





C∢ CAMOZZI





^{* =} minimum stroke 80mm

Connecting kit Mod. 43N-40

Hydrocheck connecting kit to suit cylinders Ø 40 - 50 - 63 - 80 mm Material: phosphated steel





Hydrocheck refilling pump Mod. 43N-PMP

Pump for refilling hydrocheck speed regulator



1 PNEUMATIC ACTUATION

Rod lock Series RL

For cylinders ISO 15552 and ISO 6432 Ø 20, 25, 32, 40, 50, 63, 80, 100, 125 mm





CODING EXAMPLE

RLC	-	41	-	32
RLC	SERIES RLC = standard, complete with cartridge RLB = cartridge only	and housing		
41	CYLINDER SERIES 24 = for Series 24 and 25 41 = for Series 61 and 63		PNEUMATIC SYMBOL RDLK	
32	CYLINDER DIAMETER (mm) 20 = 20 mm 25 = 25 mm 32 = 32 mm 40 = 40 mm 50 = 50 mm 63 = 63 mm 80 = 80 mm 100 = 100 mm 125 = 125 mm			

PNEUMATIC SYMBOLS

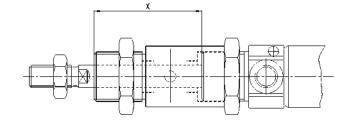
The pneumatic symbols which have been indicated in the CODING EXAMPLE are shown below.



Rod extension and holding force

 $Table showing the \ rod \ extensions \ which \ are \ necessary \ for \ the \ rod \ lock \ mounting.$

Ø	Rod extension [X] (mm)	Holding force [static load] (N)
20	+50	300
25	+48	400
32	+40	650
40	+43	1100
50	+57	1600
63	+57	2500
80	+80	4000
100	+80	6300
125	+125	8800



C∢ CAMOZZI

Shock absorbes Series SA

7 different sizes

Threads: M8x1 - M10x1 - M12x1 - M14x1,5 - M20x1,5 - M25x1,5 - M27x1,5



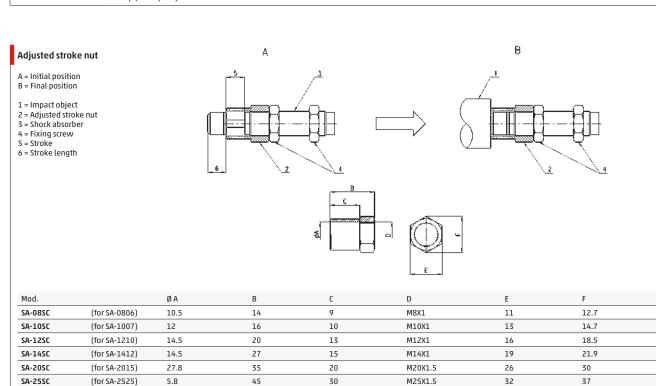
CODING EXAMPLE

SA-27SC

(for SA-2725)

20.7

SA	-	2015	
SA	SERIES		
0806	SIZE/STROKE 0806 = Size M8 x 1 / Stroke 6 mm 1007 = Size M10 x 1 / Stroke 7 mm 1210 = Size M12 x 1 / Stroke 10 mm 1412 = Size M14 x 1,5 / Stroke 12 mm 2015 = Size M20 x 1,5 / Stroke 15 mm 2525 = Size M25 x 1,5 / Stroke 25 mm 2725 = Size M27 x 1,5 / Stroke 25 mm		
	VERSION = standard, with cap W = Without cap (on request)		



50

M27X1.5

32

37

65

FCTRIC ACTIDATION

ELectromechanical cylinders Series 6E

Sizes 32, 40, 50, 63, 80, 100



- » In compliance with the ISO 15552 standard
- » Multi-position system with transmission of the movement by means of a recirculating ball screw
- » Possibility to connect the motor in line or parallel
- » Large range of motor interfaces
- » Permanent pre-lubrication (maintenance free)
- » High positioning repeatability
- » Reduced axial backlash
- » Possibility to use magnetic sensors
- » Integrated anti-rotation system of the rod
- » IP40 / IP65
- » Wide range of fixing accessories

STANDARD STROKES

Intermediate strokes are available upon request.

Size	100	200	300	400	500	600	700	800	1000	1200	1500
32	×	×	×	×	×						
40	×	×	×	×	×	×	×				
50	×	×	×	×	×	×		×	×		
63	×	×	×	×	×			×	×	×	
80	×	×	×	×	×			×	×	×	×
100	×	×	×	×	×			×	×	×	×

6E	032	BS	0200	P05	Α	
6E	SERIES					
032	SIZE: 032 = 32 040 = 40		050 = 50 063 = 63	080 = 80 100 = 10		
BS	DESIGN: BS = recirculating ball screw					
0200	STROKE: 100 ÷ 1500 mm					
P05	SCREW PITCH: P05 = 5 mm P10 = 10 mm P16 = 16 mm (for size 40 only)		P20 = 20 mm (for size 50 only) P25 = 25 mm (for size 63 only) P32 = 32 mm (for size 80 only)	P40 = 40) mm (for size 100 only)	
Α	CONSTRUCTION: A = standard with rod nut					
	VERSION: = IP40 (not available for sizes 80 an P = IP65 () = extended piston rodf					

CAMOZZI

Housing for axial connection Mod. CM

Material: anodized aluminium Supplied with: 1x housing 4x screws



Mod. CM-6E-32 CM-6E-40 CM-6E-50

CM-6E-63

Flange for axial connection Mod. FM

Material: anodized aluminium Supplied with: 1x flange
1x flexible coupling 4x screws



FM-6E-63-0024





Kit for axial connection Mod. AM

Supplied with: 1x housing, 1x flange, 1x flexible coupling, 4x screws to connect on the cylinder's side, 4x screws to connect on the motor's side, 3x seals, 4x seal washers

Mod. AM-6E-32-0100 AM-6E-32-0100P AM-6E-50-0024 AM-6E-50-0024P AM-6E-32-0023 AM-6E-50-0034P AM-6E-63-0750 AM-6E-32-0023P AM-6E-32-0024P AM-6E-63-0750P AM-6E-40-0400 AM-6E-40-0400P AM-6E-63-0024 AM-6E-63-0024P AM-6F-40-0023

AM-6E-63-0034P AM-6E-80-1000P AM-6E-40-0023P AM-6E-40-0024P AM-6E-80-0034P AM-6E-100-1000P AM-6E-50-0400 AM-6E-50-0400P AM-6E-100-0034P

AM-6E-50-0750P



Kit for axial connection Mod. AR

Supplied with: 2x flanges (1 for size 80) 8x screws 1x coupling 2x seals (1 for size 80)



Mod.

AR-6E-50-R060P AR-6E-63-R060P AR-6E-80-R080P AR-6E-100-R120P

Kit for parallel connection Mod. PM

The kit includes: 1x front cover 1x rear cover 2x pulleys 2x locking sets 1x toothed belt 1x belt traction unit 4x screws for cylinder's side 4x cover rear screws + seal washers 6x cover fixing screws 3x seals 1x seal plug 4x motor seal washers



PM-6E-32-0100P PM-6E-63-0034P PM-6E-32-0024P PM-6E-63-R060P PM-6E-40-0400P PM-6E-80-1000P PM-6E-40-0024P PM-6E-80-0034P PM-6E-50-0400P PM-6E-50-0034P PM-6E-80-R080P PM-6E-100-1000P PM-6E-50-R060P PM-6E-100-0034P PM-6E-63-0750P PM-6E-100-R080P

Cylinder bracket Mod. BA-6E

Supplied with: 2x feet 8x centering rings 8x screws



Mod. BA-6E-80 BA-6E-100

Foot bracket Mod. B-6E

Material: zinc-plated steel Supplied with: 2x feet 8x screws



Mod. B-6E-32 B-6E-40 B-6E-50 B-6E-63 B-6E-80 B-6E-100



Front spot faced trunnion Mod. FN

Material: zinc-plated steel Supplied with: 1x spot faced trunnion 4x screws



Mod. FN-32 FN-40 FN-50 FN-63 FN-6E-80 FN-6E-100



Counter bracket for front trunnion Mod. BF

Material: aluminium Supplied with: 2x supports



Mod. BF-32 BF-40-50 BF-63-80 BF-100-125

Front flange Mod. D-E

Material: aluminium Supplied with: 1x flange 4x screws



D-E-6E-100

D-E-41-50 D-E-41-63 D-E-6E-80



2



Side clamping bracket Mod. BG

Material: aluminium Supplied with: 2x clamps



Rear male trunnion Mod. L

Material: aluminium Supplied with: 1x male trunnion 4x screws





Rear female trunnion Mod. C and C-H

Material: aluminium Supplied with: 1x female trunnion

C-H-41-100



Accessory combination Mod. C+L+S

Material: aluminium



90° male trunnion Mod. ZC

CETOP RP 107P Material: aluminium Supplied with: 1x male support





Trunnion ball-joint Mod. R

This trunnion doesn't comply with the ISO 15552 standard Material: aluminium Supplied with: 1x trunnion ball joint 4x screws

Mod. R-41-32 R-41-40 R-41-50 R-41-63 R-41-80 R-41-100 R-50



Clevis pin Mod. S

Supplied with: 1x clevis pin in stainless steel 303 2x Seeger in steel



Swivel ball joint Mod. GA

Material: zinc-plated steel



Piston rod socket joint Mod. GY

Material: zama and zinc-plated steel



Rod fork end Mod. G

ISO 8140 Material: zinc-plated steel



Piston rod lock nut Mod. U

ISO 4035

Mod. GA-32

GA-40

GA-50-63

GA-80-100

Material: zinc-plated steel



Self aligning rod Mod. GK

Material: zinc-plated steel

GY-80-100



Mod. U-25-32 U-40 U-50-63 U-80-100

Coupling piece Mod. GKF

Material: zinc-plated steel

hoM

G-40

G-25-32

G-50-63

G-80-100



Slot cover profile Mod. S-CST-500

Supplied with 500 mm tube

Slot nut for sensor

Material: steel Supplied with: 2x nuts

Mod.

GK-40

GK-25-32

GK-50-63

GK-80-100



Mod. PCV-5E-CS-M3 PCV-5E-CS-M4

Mod. GKF-25-32 GKF-40

GKF-50-63

GKF-80-100

S ELECTRIC ACTUATION

Compact electromechanical cylinders Series 3E

New

Sizes 20, 32



- » Flexibility
- » Ease of use
- » Reduced commissioning times
- » Increased machine efficiency and productivity

CODING EXAMPLE

3E	020	BS	0100	P10	M	
3E	SERIES					
020	SIZE 020 = 20 032 = 32					
BS	TRANSMISSION BS = recirculating ball sci	rew				
0100	STROKE See table of mechanical	characteristics				
P10	SCREW PITCH P03 = 3 mm P10 = 10 mm					
М	CONSTRUCTION M = male F = female					
	EXTENDED ROD () = rod extended wit	th mm				

MECHANICAL CHARACTERISTICS

		Size 20	Size 20	Size 32	Size 32
Pitch "P"	[mm]	3	10	3	10
Dynamic load coefficient "C"	[N]	2100	1875	2800	2500
Average load (A)	[N]	177	236	236	315
Max torque applicable to screw's shaft	[Nm]	0,42	1,41	0,53	1,77
Max force applicable*	[N]	800	800	1000	1000
Max linear speed cylinder*	[m/s]	0,4	1,3	0,4	1,3
Maximum rotation speed of the cylinder shaft	[rpm]	8000	8000	8000	8000
Max accelleration of cylinder	[m/s²]	25	25	25	25
Min Stroke	[mm]	10	25	10	25
Max Stroke	[mm]	300	300	500	500

⁽A) Value refers to a covered distance of 5000 Km (see the diagrams "Life of the cylinder according to the average axial force applied"). *This parameter varies as the stroke varies (see the diagrams "Maximum speed of the cylinder according to its stroke").

S ELECTRIC ACTUATION

CODING EXAMPLE - CYLINDER SUPPLIED WITH ASSEMBLED MOTOR AND STANDARD ACCESSORIES AM AND PM



	3E	020	BS	0100	P10	M		/	AM	Α	0	E	-	EC	SF
--	----	-----	----	------	-----	---	--	---	----	---	---	---	---	----	----

3E	SERIES
020	SIZE 020 = 20 032 = 32
BS	TRANSMISSION BS = recirculating ball screw
0100	STROKE See table of mechanical characteristics on the previous page
P10	SCREW PITCH P03 = 3 mm P10 = 10 mm
М	CONSTRUCTION M = male F = female
	EXTENDED ROD () = rod extended with mm
AM	MOTOR CONNECTION AM = Kit Mod. AM PM = Kit Mod. PM
Α	MOTOR A = MTS 17 B = MTS 23 C = MTS 24 E = DRVI-23ST F = DRVI-24ST G = DRVI-24EC
0	BRAKE 0 = without brake B = with brake (for motor A, B, C only)
E	ENCODER VARIANTS 0 = without encoder E = with encoder
EC	TYPE OF COMMUNICATION PN = Profinet CO = CanOpen EC = Ethercat EI = Ethernet IP = without drive
SF	ADDITIONAL FUNCTIONS = no additional function SF = STO (not certified)

2

CAMOZZI

Kit for axial connection Mod. AM

Supplied with: 1 housing

- 1 flexible coupling 4 nuts
- 4 motor connection screws



Kit for parallel connection Mod. PM

Supplied with: 1 front cover 1 rear cover

- 2 pulleys 2 locking sets
- 1 plate for pulley 1 toothed belt 3 nuts

Mod. PM-3E-20-0017 PM-3E-32-0023 PM-3E-32-0024

PM-3E-32-0100

4 rear cover screws 2-4 cover fixing screws 2 cylindrical pins 4 motor fixing screws



Foot bracket Mod. B-3E-AM

Material: zinc-plated steel Supplied with: 2 foot brackets

4 screws

Mod.

B-3E-20-AM

B-3E-32-AM-1

B-3E-32-AM-2



Foot bracket Mod. B-3E-PM

Material: zinc-plated steel Supplied with: 2 foot brackets







Front spot faced trunnion Mod. FN

Material: zinc-plated steel Supplied with:

- 1 spot faced trunnion 4 screws
- 4 washers



Mod. FN-3E-32

Counter bracket for front trunnion Mod. BF

Material: aluminium Supplied with: 2 supports



Mod. BF-32



Material: aluminium Supplied with:

- 1 flange
- 4 screws
- 4 washers



Mod. D-E-3E-32

Side clamping bracket Mod. BG

Material: aluminium Supplied with: 2 clamps





Rear male trunnion Mod. L

Material: aluminium Supplied with:

- 1 male trunnion
- 4 screws
- 4 washers (only for size 32)

Mod. L-3E-20 L-3E-32



Rear female trunnion Mod. C

Material: aluminium Supplied with: 1 female trunnion

- 4 screws
- 4 washers



Mod. **C-3E-32**

90° male trunnion Mod. ZC

CETOP RP 107P Material: aluminium Supplied with: 1 male support



Mod. ZC-32

Trunnion ball-joint Mod. R

Supplied with: 1 trunnion ball-joint

4 screws

4 washers



Mod. R-3E-32

Clevis pin Mod. S

Supplied with:

- 1 clevis pin in stainless steel 303
- 2 Seeger in steel



Mod

Swivel ball joint Mod. GA

ISO 8139

Material: zinc-plated steel



Mod. GA-20 GA-22



Piston rod socket joint Mod. GY

Material: zama and zinc-plated steel



Mod. GY-20



Rod fork end Mod. G

ISO 8140 Material: zinc-plated steel



Mod. G-20 G-25-32

Piston rod lock nut Mod. U

ISO 4035 Material: zinc-plated steel



Mod. U-20 U-25-32

Self aligning rod Mod. GK

Material: zinc-plated steel



Coupling piece Mod. GKF

Material: zinc-plated steel



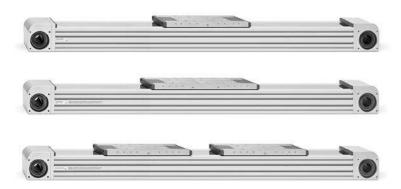
Mod. GKF-20 GKF-25-32 **ELECTRIC ACTUATION**

2

Electromechanical axis Series 5ES...TBL

Sizes 50, 65, 80

Available versions: standard axis, support axis, reinforced axis



- » Multiposition system with transmission of the movement with toothed belt
- » Suitable for high dynamics
- » Possibility to connect the motor on 4 sides
- » Large range of motor interfaces
- » Possibility to use magnetic proximity switches and/or inductive sensors
- » Supplied with protection plugs for end caps and slider's cetering bushings
- » Max stroke 6 meters
- » Plates to realize multi-axis systems
- » Presence of internal channels for re-lubrification
- » Greasing nipples included
- » Large range of axis mounting accessories
- » Sliders avaible: standard, long, double

5E	S	050	TBL	0200	Α	S	2(500)				
5E	SERIES										
S	PROFILE S = square	PROFILE S = square section									
050	FRAME SIZE 050 = 50x50 mm 065 = 65x65 mm 080 = 80x80 mm										
TBL	TRANSMISSION TBL = toothed belt										
0200	STROKE 0050 ÷ 4000 mm for size 050 0050 ÷ 6000 mm for sizes 065 and 080										
Α	VERSIONS A = standard axis D = support axis H = reinforced axis (for sizes 65 and 80 only)										
S	TYPE OF SLI S = standar L = long - o		ion)								
2(500)											

CAMOZZI

Side clamping bracket Mod. BGS

Material: Aluminium Supplied with: 2x clamps

Mod. BGS-5E-M5 BGS-5E-M5 BGS-5E-M5 BGS-5E-M6 BGS-5E-M6 BGS-5E-M6



Perforated side clamping bracket Mod. BGA

Material: Aluminium Supplied with: 2x clamps with perforation

Mod. BGA-5E-M5 BGA-5E-M5 BGA-5E-M5 RGA-5F-M6 BGA-5E-M6 BGA-5E-M6



Interface plate - slider on slider

The kit includes:

1x interface plate

8x screws + 8x lock washers to connect the plate

on the slider of the main axis 4x screws + 4x lock washers to connect the plate on the slider of the secondary axis



Mod. XY-S65-S50 XY-S80-S50 XY-S80-S65



Interface plate - profile on slider

The kit includes:

1x interface plate 8x screws + 8x lock washers to connect the plate

on the slider of the main axis

Mod.

XY-S65-P50 XY-S80-P50

XY-S80-P65

8x screws + 8x lock washers to connect the secondary axis

on the plate by means of clamps



Interface plate - profile on slider - long arm

The kit includes:

1x interface plate

8x screws + 8x lock washers to connect plate

on the slider of the main axis

4x clamps

8x screws + 8x lock washers to connect plate

on the slider of the secondary axis by means of clamps NB: Pay attention when mounting models FRH and FS

Mod.

XY-S50-P50-T

XY-S65-P50-T XY-S65-P65-T

XY-S80-P50-T

XY-S80-P65-T

XY-S80-P80-T



Interface plate - Series 6E cylinder on slider

The kit includes:

1x interface plate
4x screws + 4x lock washers to connect the plate

on the slider of the axis

2x clamps

4x screws + 4x lock washers to fix the Series 6E cylinder

by means of clamps

hoM

XY S50-6E32

XY-S65-6E32 XY-S65-6E40

XY S65-6E50 XY-580-6F32

XY-S80-6E40

XY-S80-6E50

XY S80-6E63



Interface plate - profile side on slider - left position

The kit includes:

1x interface plate

8x screws + 8x lock washers to connect the plate on the slider of the main axis, screws and nuts for slot to connect the plate

on the slider of the secondary axis

XY-S50-LL50 XY-S65-LL50 XY-565-1165 XY-S80-LL50 XY-S80-LL65 XY-S80-LL80



Interface plate - profile side on slider - right position

The kit includes:

1x interface plate 8x screws + 8x lock washers to connect the plate

on the slider of the main axis,

screws and nuts for slot to connect the plate

on the slider of the secondary axis

Mod. XY-S50-LR50 XY-S65-LR50 XY-565-1R65 XY-S80-LR50

XY-S80-LR65 XY-S80-LR80



Interface plate - Anti-rotation guides S. 45 / Cylinders S. 6E on slider

The kit includes:

1x interface plate

8x screws + 8x lock washers to connect the plate on the slider 4x screws to connect the cylinder





Fixed interface plate

The kit includes:

1x interface plate

4x clamps

Mod. **X-P50**

X-P65

X-P80

8x screws to connect the clamps on the plate





2

5E/5V connection flange

Mod. YZ-50-5V50 YZ-65-5V50 YZ-65-5V65 Y7-80-5V50

YZ-80-5V80



Centering ring Mod. TR-CG

Supplied with: 2x centering rings in steel

Mod. TR-CG-04 TR-CG-05 TR-CG-06 TR-CG-08 TR-CG-10



Kit to fix the inductive sensor

The kit includes:

1x sensor dog 2x screws to fix the sensor dog

1x sensor supporting plate
2x screws to connect the sensor supporting plate

2x nuts for the slot



Mod

SIS-M5-50/65

SIS-M8-65 SIS-M5-80

SIS-M8-80

Kit to connect the Series FR gearbox

The kit includes:

1x connection flange 4x screws + 4x lock washers to connect the flange

1x locking set

TR-CG-12

4x screws + 4x lock washers to connect the gearbox



Mod. FR-5E-50 FR-5E-65

FR-5E-80

Mod FRH-5E-80

Kit to connect the gearbox - enhanced series (sizes 50, 65)

The kit includes:

1x connection flange 4x screws + 4x lock washers to connect the flange

1x expansion coupling

4x screws + 4x lock washers to connect the gearbox



Kit to connect the gearbox - enhanced series (size 80)

The kit includes:

2x connection flanges 4x screws + 4x lock washers

1x expansion coupling

4x screws + 4x lock washers to fix the axis 4x screws + 4x lock washers to fix the profile

4x nuts + 4x screws to fix the gearbox



Mod. FRH-5E-50 FRH-5E-65

Direct connection kit for Stepper motor

The kit includes:

1x MTS-24 connection flange 4x screws + 4 lock washers

1x expansion coupling 1x bushing (not present in FS-5E-50-0024)



Slot nut for sensor

Material: steel Supplied with:

2x nuts

Mod.

PCV-5F-CS-M3

PCV-5E-CS-M4



Slot nut 6 - rectangular type

Material: steel Supplied with: 2x nuts





Slot nut 6 for front insertion

Material: steel Supplied with: 2x nuts

FS-5E-50-0024

FS-5E-65-0024



PCV-5E-C6-M4R

Slot nut 8 with flexible flap

Material: steel Supplied with: 2x nuts

Mod.

PCV-5E-C8-M6



PCV-5E-C8-M5

Parallel connection kit

The kit includes: 1x parallel shaft 2x expansion couplings



PS-5E-50-0000 PS-5E-65-0000 PS-5E-80-0000

C CAMOZZI

Electromechanical axis Series 5ES...BS

Series 5ES...BS axes are mechanical linear actuators in which the rotary movement generated by a motor is converted into a linear movement by means of a recirculating ball screw.



- » Multiposition system with transmission of the movement with a recirculating ball screw
- » High load carrying capacity
- » High precision and repeatability
- » IP40
- » Large range of axis mounting accessories

5E	S	050	BS	0200	Α	S	1		
5E	SERIES								
S	PROFILE S = square section								
050	SIZE 050 = 50x50 mm 065 = 65x65 mm 080 = 80x80 mm								
BS	TRANSMISSION BS = recirculating ball screw								
05P	SCREW PITCH 00P = without spindle (only for D version) 05P = 5 mm 10P = 10 mm 16P = 16 mm (only for size 080)								
0200	TOTAL STROKE (TS) Refer to complete catalogue								
Α	VERSIONS A = standard axis D = support axis (dummy)								
S	TYPE OF SLIDER S = standard C = short								
1	NUMBER OF SLIDE 1 = 1 slider	RS							

ELECTRIC ACTUATION

2

Side clamping bracket Mod. BGS

Material: Aluminium Supplied with:

Mod. BGS-5E-M5 BGS-5E-M5 BGS-5E-M5 RGS-5F-M6 BGS-5E-M6 BGS-5E-M6



Perforated side clamping bracket Mod. BGA

Material: Aluminium Supplied with: 2x clamps with perforation

Interface plate - profile on slider

axis on the plate by means of clamps

1x interface plate 8x screws + 8x lock washers to connect the plate on the

8x screws + 8x lock washers to connect the secondary

Mod. BGA-5E-M5 BGA-5E-M5 BGA-5E-M5 RGA-5F-M6 BGA-5E-M6 BGA-5E-M6

The kit includes:

slider of the main axis 4x clamps



Interface plate - slider on slider

The kit includes:

1x interface plate

8x screws + 8x lock washers to connect the plate on the slider of the main axis 4x screws + 4x lock washers to connect the plate on the

slider of the secondary axis



XY-S65-P50 XY-S80-P50

XY-S80-P65



Mod. XY-S65-S50

XY-S80-S50 XY-S80-S65

Interface plate - profile on slider - long arm

The kit includes:

1x interface plate

8x screws + 8x lock washers to connect plate on the slider of the main axis

4x clamps

8x screws + 8x lock washers to connect plate on the slider of the secondary axis by means of clamps

Mod. **XY-S50-P50-T** XY-S65-P50-T XY-S65-P65-T XY-S80-P50-T XY-S80-P65-T XY-S80-P80-T



Interface plate - Series 6E cylinder on slider

The kit includes:

1x interface plate
4x screws + 4x lock washers to connect the plate on the

slider of the axis

2x clamps

4x screws + 4x lock washers to fix the Series 6E cylinder

by means of clamps

hoM

XY S50-6E32

XY-S65-6E32 XY-S65-6E40

XY S65-6E50 XY-580-6F32

XY-S80-6E40

XY-S80-6E50 XY S80-6E63

Interface plate - profile side on slider - left position

The kit includes:

1x interface plate

8x screws + 8x lock washers to connect the plate on the slider of the main axis, screws and nuts for slot to connect the plate on the slider of the secondary axis

XY-S50-LL50 XY-S65-LL50 XY-565-1165 XY-S80-LL50 XY-S80-LL65 XY-S80-LL80



Interface plate - profile side on slider - right position

The kit includes:

1x interface plate

8x screws + 8x lock washers to connect the plate on the slider of the main axis, screws and nuts for slot to connect the plate on the slider of the secondary axis

Mod. XY-S50-LR50 XY-S65-LR50 XY-565-1R65

XY-S80-LR50 XY-S80-LR65 XY-S80-LR80



Interface plate - Anti-rotation guides S. 45 / Cylinders S. 6E on slider

The kit includes:

1x interface plate

8x screws + 8x lock washers to connect the plate on the slider 4x screws to connect the cylinder





Fixed interface plate

The kit includes:

1x interface plate

4x clamps

8x screws to connect the clamps on the plate



Mod. **X-P50** X-P65 X-P80



5E/5V connection flange

Mod. YZ-50-5V50 YZ-65-5V50 YZ-65-5V65 YZ-80-5V50 YZ-80-5V80



Centering ring

Supply includes: 2 steel centering rings





Kit for axial connection Mod. AM

Supplied with flexible coupling







Kit for parallel connection Mod. PM





Slot nut for sensor

Material: steel Supplied with: 2x nuts



Slot nut 6 - rectangular type

Material: steel Supplied with: 2x nuts



Slot nut 6 for front insertion

Material: steel Supplied with: 2x nuts

PCV-5E-CS-M3 PCV-5E-CS-M4



Mod. PCV-5E-C6-M4R

Slot nut 8 with flexible flap

Material: steel Supplied with: 2x nuts

Mod. PCV-5E-C6-M4Q



Mod. PCV-5E-C8-M5 PCV-5E-C8-M6

Vertical electromechanical axis Series 5V

Sizes 50, 65, 80



- » High dynamics
- » Easy to integrate in x-y-z systems
- » Strokes up to 1500 mm
- » Version with integrated shock absorbers
- » Greasing nipples included
- » Supplied with slider's centering bushings

CODING EXAMPLE

5V	S	050	TBL	0200	Α	S	1	
5V	SERIES							
S	PROFILE: S = square section							
050	FRAME SIZE: 050 = 50x50 mm 065 = 65x65 mm 080 = 80x80 mm							
TBL	TRANSMISSION: TBL = toothed belt							
0200	STROKE: 0050 ÷ 1500							
Α	VERSION: A = standard H = reinforced axis	(for sizes 65 and 80 only)					
S	TYPE OF SLIDER: S = standard							
1	NUMBER OF SLIDER 1 = 1 slider	S:						
	TYPE OF END CAP: = standard SA = shock absorbe	er integrated						

2

Kit to connect the gearbox

The kit includes:

1x connection flange

4x screws + 4x lock washers to connect the flange

1x locking set

4x screws + 4x lock washers to connect the gearbox



Mod. FR-5V-50 FR-5V-65 FR-5V-80

Sensor holder kit Mod. SMS-5V

Supplied with: 1x plate 2x screws

SMS-5V-50 SMS-5V-65/80 SMS-5V-65/80



Magnet kit Mod. SMS-5V-U

Supplied with: 1x plate 1x magnet 2x locking screws



Centering ring Mod. TR-CG

Supplied with: 2x centering rings in steel

Mod.





5E/5V connection flange

Mod. YZ-50-5V50 YZ-65-5V50 YZ-65-5V65 YZ-80-5V50 YZ-80-5V65 YZ-80-5V80



Slot nut for sensor

Material: steel Supplied with: 2x nuts



Mod. PCV-5E-CS-M3 PCV-5E-CS-M4

Slot nut 6 - rectangular type

Material: steel Supplied with: 2x nuts



Mod. PCV-5E-C6-M4Q

Slot nut 6 for front insertion

Material: steel Supplied with: 2x nuts



Mod. PCV-5E-C6-M4R

Slot nut 8 with flexible flap

Material: steel Supplied with: 2x nuts



Mod. PCV-5E-C8-M5 PCV-5E-C8-M6



Drives for Stepper motors Series DRCS

One-size full digital drives with WLAN system and NFC integrated



- » Full digital drive with integrated PLC functions
- » Programmable with the Camozzi QSet configuration software
- » Feedback by incremental encoder
- » NFC (Near Field Communication) system enabled
- » 127 programmable positions (setting, acceleration, speed and position)
- » Wire configuration by means of USB 2.0 and WLAN BL-BLE
- » Can be controlled in frequency (step and direction), digital I/O and serial CANopen protocol

CODING EXAMPLE

DRCS	-	A05	-	8	-	D	-	0	-	Α
DRCS	SERIES									
Δ05	SIZE AT MAX CURR	ENT:								

8	SUPPLY: 8 = 48 V DC
D	COMMUNICATION: D = Digital I/O and impulse frequency C = CANopen, Digital I/O and impulse frequency
0	FEEDBACK: 0 = Feedback

VERSIONS: A = standard B = WLAN BL-BLE

Integrated field-oriented control drive Series DRVI



For stepper and brushless DC, Nema 23 and Nema 24 motors





- » Integrated solution: Encoder, motor, and drive all in one
- » Versatile: Control of different types of motors: brushless DC and stepper, Nema 23 and 24
- » Energy efficient: Compared to traditional stepper motors
- » Precise Positioning: With no loss of steps achieved through Field-Oriented Control
- » Different communication protocols: CANopen, Profinet, EtherCAT, Eternet IP

DRVI	-	23	ST	012	-	0	E	-	PN	SF
DRVI	SERIES									
23	MOTOR FLANGE 23 = Nema 23 24 = Nema 24									
ST	MOTOR TYPE ST = stepper EC = brushless D	OC .								
012	MOTOR TORQUE 012 = 1,2 Nm (N 022 = 2,2 Nm (N 125 = 125 W (O	lema 23) lema 24)								
0	MOTOR BRAKE 0 = without bra	ke								
E	MOTOR FEEDBAC E = absolute sin	CK gle turn encoder								
PN	COMMUNICATION PN = Profinet CO = CanOpen EC = EtherCAT EI = EtherNet/IP									
SF	SAFETY FUNCTIO = Standard SF = Safe torque	N e off (not certified)							





M12 male connector

General Purpose Input/Output (GPIO)



Mod. CS-LM12HC

Y-cable with straight and M12 / 12 pin and M8 / 6 pin connectors (proximity)

General Purpose Input/Output (GPIO)



Mod. CS-L012HC-D025

Extension with M8 connector, 3 pin male/female (Non shielded)

General Purpose Input/Output (GPIO)



Mod. CS-DW03HB-C250 CS-DW03HB-C500

Cable with M12, 12-pin male connector, straight

General Purpose Input/Output (GPIO)



Mod. CS-LM12HC-D500

M8 3 pin female connector

General Purpose Input/Output (GPIO)



Mod. CS-DF03HB

M8 4 pin male connector

Safe Torque Off (STO)



Mod. CS-DM04HB

Cable with M8 4-pole male connectors, straight

Safe Torque Off (STO)



Mod. CS-LM04HB-D500

Cables with straight connectors

Profinet, EtherCAT, EtherNet/IP



Adaptor and panel mount for Ethernet RJ45 to M12 networks

Profinet, EtherCAT, EtherNet/IP



Mod. CS-SE04HB-F050

Straight female M12 connector for Bus-IN

CANopen



Mod. CS-LF05HC

Male M12 connectors for Bus-OUT

CANopen



Mod. CS-LM05HC

Cable with M12 5 pin connector, straight female for Bus-IN

CANopen



Mod. CS-LF05HB-D200 CS-LF05HB-D500

Straight cable with M12 male connector for BUS OUT

CANopen



Mod. CS-LM05HC-D200 CS-LM05HC-D50

M12 Male connector, 90°, for Bus-IN

CANopen



Mod. CS-LR05HC

Mod.

G11W-

G12W-2

M12 Male connector, 90°, for Bus-OUT

CANopen



Mod. CS-LS05HC

Termination resistor with M12 male connector

CANopen



Mod. CS-LP05H0

USB to Micro USB cable Mod. G11W-G12W-2

For the hardware configuration of the Camozzi products



M8 and M12 connector cover caps

For digital and analog input/output modules and subnet



Mod. CS-DFTP

CS-LFTP

CAMOZZI Automation

Motors for electric actuation Series MTS

Stepper motors with Nema 17, 23, 24, 34 fixing flange



- » Different sizes or power classes available
- » Version with incremental encoder
- » Version with incremental encoder and brake
- » IP65 version available





CODING EXAMP	LE
--------------	----

MTS - 23 - 18 - 060 - 0 - 0 - S -

MTS	SERIES
23	MOTOR SIZE FLANGE CONNECTION: 17 = Nema 17 23 = Nema 23 24 = Nema 24 34 = Nema 34
18	RESOLUTION IN DEGREES PER REVOLUTION: 18 = 1.8° per step
060	TORQUE: 050 = 0,5 Nm with Nema 17 only 060 = 0.6 Nm with Nema 23 only 120 = 1.2 Nm with Nema 23 IP65 only 250 = 2.5 Nm with Nema 24 only 701 = 7.1 Nm with Nema 34 only
0	ELECTRICAL CONNECTION: 0 = connector
0	BRAKE: 0 = without brake F = with brake
S	ENCODER VARIANTS: S = single shaft without encoder E = single shaft with encoder (SIZE Nema 23 and 24 only)
C	MECHANICAL SHAFT VARIANTS: C = cylindrical shaft
	VERSION: = Standard P = IP65

ACTUATION

Planetary gearboxes Series GB

Available sizes: 40, 60, 80, 120

In-line planetary gearbox



Mod.	
GB-040-03-D-0100	GB-060-07-D-0400
GB-040-05-D-0100	GB-060-10-D-0400
GB-040-07-D-0100	GB-060-03-D-0024
GB-040-10-D-0100	GB-060-05-D-0024
GB-040-03-D-0024	GB-060-07-D-0024
GB-040-05-D-0024	GB-060-10-D-0024
GB-040-07-D-0024	GB-080-03-D-0750
GB-040-10-D-0024	GB-080-05-D-0750
GB-060-03-D-0400	GB-080-07-D-0750

GB-080-03-D-0024
GB-080-05-D-0024
GB-080-07-D-0024
GB-080-10-D-0024
GB-120-03-D-1000
GB-120-05-D-1000
GB-120-07-D-1000
GB-120-10-D-1000

Orthogonal planetary gearbox



Mod.	
GB-040-0	3-A-0100
GB-040-0	5-A-0100
GB-040-0	7-A-0100
GB-040-1	0-A-0100
GB-040-0	3-A-0024
GB-040-0	5-A-0024
GB-040-0	7-A-0024
GB-040-1	0-A-0024
GB-060-0	3-A-0400
GB-060-0	5-A-0400

GB-060-05-D-0400

GB-060-07-A-0400
GB-060-10-A-0400
GB-060-03-A-0024
GB-060-05-A-0024
GB-060-07-A-0024
GB-060-10-A-0024
GB-080-03-A-0750
GB-080-05-A-0750
GB-080-07-A-0750
GB-080-10-A-0750

GB-080-10-D-0750

GB-080-03-A-0024
GB-080-05-A-0024
GB-080-07-A-0024
GB-080-10-A-0024
GB-120-03-A-1000
GB-120-05-A-1000
GB-120-07-A-1000
GR-120-10-A-1000



Motion transmission devices Series CO

Elastomer coupling with clamps Mod. COE



CODING EXAMPLE

COE	-	10	_	1200	-	1400	_	Α
-----	---	----	---	------	---	------	---	---

COE	SERIES MODEL	
10	SIZE: 05 10 20 60	
1200	HOLE DIAMETER 1: 0635 = 6,35 mm (for sizes 5 and 10 only) 0800 = 8,00 mm (for sizes 5 and 10 only) 1000 = 10,00 mm (for sizes 5 and 10 only) 1100 = 11,00 mm (for size 5 only) 1200 = 12,00 mm (for sizes 10 and 20 only) 1400 = 14,00 mm (for sizes 10, 20 and 60 only) 1500 = 15,00 mm (for sizes 10 and 20 only)	1600 = 16,00 mm (for sizes 10, 20 and 60 only) 1900 = 19,00 mm (for sizes 20 and 60 only) 2000 = 20,00 mm (for sizes 20 and 60 only) 2400 = 24,00 mm (for sizes 20 and 60 only) 2500 = 25,00 mm (for size 60 only) 3200 = 32,00 mm (for size 60 only)
1400	HOLE DIAMETER 2: 0635 = 6.35mm (for sizes 5 and 10 only) 0800 = 8.00mm (for sizes 5 and 10 only) 1000 = 10.00mm (for sizes 5 and 10 only) 1100 = 11.00mm (for size 5 only) 1200 = 12.00mm (for sizes 10 and 20 only) 1400 = 14.00mm (for sizes 10, 20 and 60 only) 1500 = 15.00mm (for sizes 10 and 20 only)	1600 = 16.00mm (for sizes 10, 20 and 60 only) 1900 = 19.00mm (for sizes 20 and 60 only) 2000 = 20.00mm (for sizes 20 and 60 only) 2400 = 24.00mm (for sizes 20 and 60 only) 2500 = 25.00mm (for size 60 only) 3200 = 32.00mm (for size 60 only)
Α	ELASTOMER HARDNESS: A = 98 Sh A B = 64 Sh D (for sizes 10 and 20 only)	

Elastomer coupling with expansion shaft Mod. COS



CODING EXAMPLE

cos	-	10	-	2000	-	1400	-	Α
-----	---	----	---	------	---	------	---	---

cos	SERIES MODEL
10	SIZE: 10 20 60
2000	SHAFT DIAMETER: 2000 = 20.00mm (for size 10 only) 2600 = 26.00mm (for size 20 only) 3800 = 38.00mm (for size 60 only)
1400	HOLE DIAMETER: 0635 = 6.35mm (for size 10 only) 0800 = 8.00mm (for size 10 only) 1000 = 10.00mm (for size 10 only) 1200 = 12.00mm (for size 10 only) 1270 = 12.70mm (for sizes 10 only) 1400 = 14.00mm (for sizes 10, 20 and 60 only) 1500 = 15.00mm (for sizes 10, 20 and 60 only) 1600 = 16.00mm (for sizes 10, 20 and 60 only) 1900 = 19.00mm (for sizes 20 and 60 only) 2000 = 20.00mm (for sizes 20 and 60 only) 2200 = 22.00mm (for sizes 20 and 60 only) 2500 = 25.00mm (for sizes 20 and 60 only) 2500 = 25.00mm (for size 60 only) 3200 = 32.00mm (for size 60 only)
Α	ELASTOMER HARDNESS: A = 98 Sh A B = 64 Sh D (for sizes 10 and 20 only)

Self-centering locking-set Mod. COT



Mod.
COT-1800-0800
COT-2000-1000
COT-2200-1200
COT-2600-1400
COT-2800-1500
COT-3500-1900
COT-3800-2000
COT-4700-2400
COT-4700-2500

GRIPPERS

Angular grippers with opening angle of 30° Series CGAN

Double acting, magnetic, self centering Size: 10, 16, 20, 25, 32



EX

Mod. CGAN-10 CGAN-16 CGAN-20 CGAN-25 CGAN-32

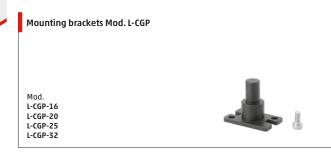


CODING EXAMPLE

CGAN

		_		
CGAN	SERIES		PNEUMAT PNZ1	TC SYMBOL
16	SIZE 10 16 20 25 32			
EX	Add EX to order th	e certified ATEX vers	ion	

20





Radial grippers 180° opening Series CGSY

Double acting, magnetic, self-centering Size: 10, 16, 20, 25





CGSY	-	16	-	EX
CGSY	SERIES		NEUMATIC SYMBOL NZ1	
20	SIZE 10 16 20 25			
EX	Add EX to order the	e certified ATEX vers	ion	

New models

Parallel grippers with T-guide Series CGPT

Single and double acting, magnetic, self-centering Size: 16, 20, 25, 32, 40, 50, 63, 80







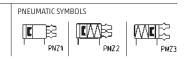
Mod.			
CGPT-16	CGPT-25	CGPT-40	CGPT-63
CGPT-16-NC	CGPT-25-NC	CGPT-40-NC	CGPT-63-NC
CGPT-16-NO	CGPT-25-NO	CGPT-40-NO	CGPT-63-NO
CGPT-20	CGPT-32	CGPT-50	CGPT-80
CGPT-20-NC	CGPT-32-NC	CGPT-50-NC	CGPT-80-NC
CGPT-20-NO	CGPT-32-NO	CGPT-50-NO	CGPT-80-NO

CODING EXAMPLE

CGPT	- 16 - NC - W EX					
CGPT	SERIES					
16	SIZE 16 - 20 - 25 - 32 - 40 - 50 - 63 - 80					
NC	FUNCTIONING PNEUMATIC SYMBOLS = double acting PNZ1 NO = single acting, normally open PNZ3 NC = single acting, normally closed PNZ2					
W	VERSION = standard - W = high temperatures (150°C) - not magnetic					
EX	Add EX to order the certified ATEX version					

Parallel grippers with double ball bearing guide Series CGPS

Single and double acting, magnetic, self-centering Size: 10, 16, 20, 25, 32







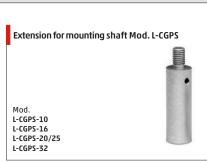
Mod.				
CGPS-L-10	CGPS-L-16	CGPS-L-20	CGPS-L-25	CGPS-L-32
CGPS-F-10	CGPS-F-16	CGPS-F-20	CGPS-F-25	CGPS-F-32
CGPS-L-10-NC	CGPS-L-16-NC	CGPS-L-20-NC	CGPS-L-25-NC	CGPS-L-32-NC
CGPS-F-10-NC	CGPS-F-16-NC	CGPS-F-20-NC	CGPS-F-25-NC	CGPS-F-32-NC
CGPS-L-10-NO	CGPS-L-16-NO	CGPS-L-20-NO	CGPS-L-25-NO	CGPS-L-32-NO
CGPS-F-10-NO	CGPS-F-16-NO	CGPS-F-20-NO	CGPS-F-25-NO	CGPS-F-32-NO

CODING EXAMPLE

CGPS	- L	-	16	-	NO	-	W	EX
CGPS	SERIES							
L	DESIGN TYPE: L = Long finge	:SIGN TYPE: - Long finger - F = Flat finger						
16	SIZE 10 - 16 - 20 -	SIZE 10 - 16 - 20 - 25 - 32						
NO	FUNCTIONING PNEUMATIC SYMBOLS = double acting PNZ1 NO = single acting, normally open PNZ3 NC = single acting, normally closed PNZ2			MBOLS				
W	VERSION: = standard - W = high temperatures (150°C) non magnetic							
EX	Add EX to order the certified ATEX version							



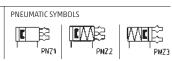
Mod.
C-CGPS-10
C-CGPS-16
C-CGPS-20
C-CGPS-25



CAMOZZI

Parallel grippers self-centering with H-shaped guide Series CGPM

Single and double acting, magnetic, self-centering Bores: 12, 16, 25, 35, 45 Standard stroke or long stroke





Mod.	
CGPM-12	CGP
CGPM-12-NC	CGP
CGPM-12-NO	CGP
CGPM-12L	CGP
CPGM-12L-NC	CPG

CGPM-12L-NO

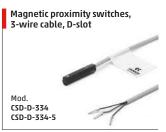
CGPM-16
CGPM-16-NC
CGPM-16-NO
CGPM-16L
CPGM-16L-NC
CGPM-16L-NO

	CGPM-25	CGPM-35
	CGPM-25-NC	CGPM-35-NC
	CGPM-25-NO	CGPM-35-NO
	CGPM-25L	CGPM-35L
	CPGM-25L-NC	CPGM-35L-NC
_	CGPM-25L-NO	CGPM-35L-NC

CGPM-45	
CGPM-45-NC	
CGPM-45-NO	
CGPM-45L	
CPGM-45L-NC	
CGPM-45L-NO	

|--|

CGPM	SERIES	
12	BORES 12 - 16 - 25 - 35 - 45	
L	STROKE = standard L = long stroke	
L	FUNCTIONING = double acting NO = single acting, normally open NC = single acting, normally closed	PNEUMATIC SYMBOLS PNZ1 PNZ3 PNZ2
EX	Add EX to order the certified ATEX version	



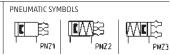






Compact parallel grippers with T-guide Series CGSP

Single and double acting, magnetic, self-centering Size: 20, 25, 32, 40







Mod.			
CGSP-20	CGSP-25	CGSP-32	CGSP-40
CGSP-20-NC	CGSP-25-NC	CGSP-32-NC	CGSP-40-NC
CGSP-20-NO	CGSP-25-NO	CGSP-32-NO	CGSP-40-NO

CODING EXAMPLE

CGSP	-	20	-	NC	-	EX

CGSP	SERIES	
20	SIZE 20 25 32 40	
NC	FUNCTIONING = double acting NO = single acting, normally open NC = single acting, normally closed	PNEUMATIC SYMBOLS PNZ1 PNZ3 PNZ2
EX	Add EX to order the certified ATEX version	

Magnetic sensors fixing kit

Supplied with: fixing screws (M)

- flange (L)

Mod. M-CGSP-20

M-CGSP-25 M-CGSP-32

M-CGSP-40



Inductive sensors fixing kit

Supplied with:

fixing screws (S)

- setting screws (Q - R) - flange (P)

Mod. I-CGSP-20

I-CGSP-25 I-CGSP-32

I-CGSP-40



Wide opening parallel grippers Series CGLN

Double acting, magnetic, self-centering Size: 10, 16, 20, 25, 32





-00	-			
1	-			-
		-		
		- A	•	

Mod.				
CGLN-10-020	CGLN-16-030	CGLN-20-040	CGLN-25-050	CGLN-32-070
CGLN-10-040	CGLN-16-060	CGLN-20-080	CGLN-25-100	CGLN-32-120
CGLN-10-060	CGLN-16-080	CGLN-20-100	CGLN-25-120	CGLN-32-160

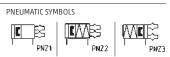
CGLN	_	20	_	040
COLIN	_	20	_	040

CGLN	SERIES	PNEUMATIC SYMBOL PNZ1
20	SIZE 10 16 20 25 32	
040	STROKE	

3

Three-jaw grippers with T-guide Series CGZT

Single and double acting, magnetic, self-centering Size: 40, 50, 64, 80, 100, 125, 160





Part retaining unit

P-CGZT-100

P-CGZT-125

P-CGZT-160

Mod. P-CGZT-040 P-CGZT-050

P-CGZT-064

P-CGZT-080



Mod.			
CGZT-040	CGZT-064	CGZT-100	CGZT-160
CGZT-040-NC	CGZT-064-NC	CGZT-100-NC	CGZT-160-NC
CGZT-040-NO	CGZT-064-NO	CGZT-100-NO	CGZT-160-NO
CGZT-050	CGZT-080	CGZT-125	
CGZT-050-NC	CGZT-080-NC	CGZT-125-NC	
CGZT-050-NO	CGZT-080-NO	CGZT-125-NO	

CODING EXAMPLE

CGZT	-	050	-	NC	-	W	EX
CGZT	SERIES						
050	SIZE 040 050 064 080 100 125 160						
NC					PNEI PNZ: PNZ: PNZ:	3	/IBOLS
W	VERSION = standa W = high te	rd emperatures ((130°C) - n	on magneti	С		
EX	Add EX to c	order the certi	fied ATEX v	version			

Three-jaw grippers with T-guide Series CGCN

Double acting, magnetic, self-centering Size: 50, 64, 80, 100, 125







CODING EXAMPLE

EX

CGCN	-		050	-	EX
CGCN	SERIES				
050	SIZE 050 064 080 100 125			PNEUN PNZ1	MATIC SYMBOLS
EV	Add EX to or	der the cert	ified ATEX versi	on	

Mod. CGCN-050 CGCN-080 CGCN-100 CGCN-125

100

GRIPPERS

Sprue grippers - Size 20 Series RPGA

Angular, not self-centering, single-acting, Normally Open Models available: Flat Finger, Curved Finger, Short Finger, Flat Finger with sensor slot, Curved Finger with sensor slot













CODING EXAMPLE

RPGA - 20 - A	- 20 - A		-	RPGA
---------------	----------	--	---	------

RPGA	SERIES
20	SIZE 20
A	TYPE OF CONSTRUCTION A = Flat finger B = Curved finger C = Short finger with mounting holes for extensions D = Flat finger for sensor E = Curved finger for sensor

Mod.

RPGA-20-A RPGA-20-D

RPGA-20-B RPGA-20-E

RPGA-20-C

Sprue grippers - Size 8, 12 Series RPGB

















CODING EXAMPLE

RPGB	_	12	_	Α
KFUD	_	17	_	_ A

RPGB	SERIES
12	SIZE 08 12
A	TYPE OF CONSTRUCTION A = Flat finger C = Short finger with mounting holes for extensions D = Flat finger with sensor mounted (CSD-D-364)

 Mod.

 RPGB-08-A
 RPGB-12-A

 RPGB-08-C
 RPGB-12-C

 RPGB-08-D
 RPGB-12-D

CAMOZZI Automation

Robot tool changer Series RTC

New

Sizes: 50, 90, 150



- » High flexibility and adaptability
- » Constant monitoring of the locking device status
- » Enhanced efficiency and accuracy
- » High load capacity
- » Reduction of downtime

The Series RTC Tool Changer is the ideal solution for industrial applications that require an efficient and reliable device for a fast and secure changeover of tools (gripping or working systems). Series RTC is available in three sizes: 50, 90 and 150 and offers high eliability and robustness, handling loads of up to 50 kg, and guaranteeing excellent performance even under very demanding operating conditions. Thanks to its compact design, the Tool Changer can be easily integrated within industrial robots and cobots, improving the efficiency and productivity of production lines on the one hand while providing enhanced flexibility and quality of work on the other.

Using a special pneumatically operated accessory, the Tool Changer automates the opening and closing of the locking system, eliminating the need for this to be done manually by an operator. This makes the tool changing process faster and more accurate, reducing human error to a minimum and guaranteeing a more reliable system. Furthermore, the inclusion of magnetic proximity switches and inductive sensors makes it possible to monitor the status of the device and the tools associated with it. This avoids possible malfunctions, ensuring improved safety and system reliability.

GENERAL DATA

Size	50	90	150
Medium	Compressed air according to ISO 8573-1:2010 [7:4:4]	Compressed air according to ISO 8573-1:2010 [7:4:4]	Compressed air according to ISO 8573-1:2010 [7:4:4]
Operating pressure	-1 ÷ 6 bar	-1 ÷ 6 bar	-1 ÷ 6 bar
Operating temperature	5 ÷ 60 °C	5 ÷ 60 °C	5 ÷ 60 °C
Max payload	5 kg	20 kg	50 kg
Pneumatic connections	4	8	10
Tool changer (robot)	RTC-50-R (103 g)	RTC-90-R (318 g)	RTC-150-R (1123 g)
Tool changer (gripper)	RTC-50-T	RTC-90-T	RTC-150-T

CODING EXAMPLE

KIC	-	50	-	l l
RTC	SERIES			
50	SIZE 50			

VERSION
T = tool
R = robot

<u>4</u>

Mod.

RTC-50

Mod.

size 90 size 50







Mod. Mod. RTC-90 RTC-150

Pneumatic actuator for RTC tool changer - size 90

Allows to automate the changeover process with a minimal increase in thickness. Optional inductive sensors (piston's position) and proximity switches to mount on the gripper.



A-RTC-90

Pneumatic actuator for RTC tool changer - size 150

Allows to automate the changeover process with a minimal increase in thickness. Optional inductive sensors (piston's position) and proximity switches to mount on the gripper.

size 150



Mod. A-RTC-150

Electrical connection kit

I/O connection through 16 spring pins



Plate

Tool fixing screws included



Inductive sensor holder Ø3

Accessory to fix the inductive sensor that detects the presence of the tool.

The supply includes: fixing screws Sensor not included in the kit.



Inductive sensor holder Ø3

Accessory to fix the inductive sensor that detects the proper closure of the locking device.

The supply includes: fixing screws Sensor not included in the kit.





Flat suction pads (round) Series VTCF

Universal suction pads in NBR or Silicone.

Diameters from 3.5 to 95 mm with thread size M3, M5, G1/8, G1/4, both male and female.



CODING EXAMPLE

VT	C	F	-	0035	N	-	M3	M			
VT	SERIES VT = Suction p	SERIES VT = Suction pad									
C	SHAPE C = round										
F	VERSION F = flat										
003	- 0055 5/5 1111	DIAMETERS 0035= 3,5 mm - 0050 = 5,0 mm - 0080 = 8,0 mm - 0100 = 10,0 mm - 0150 = 15,0 mm - 0200 = 20,0 mm - 0250 = 25,0 mm - 0300 = 30,0 mm 0350 = 35,0 mm - 0400 = 40,0 mm - 0500 = 50,0 mm - 0600 = 60,0 mm - 0800 = 80,0 mm - 0950 = 95,0 mm									
N	MATERIALS N = NBR - S =	MATERIALS N = NBR - S = Silicone									
М3	THREAD SIZE M3 = M3 - M5	THREAD SIZE M3 = M3 - M5 = M5 - 1/8 = G1/8 - 1/4 = G1/4									
M	THREAD M = male - F	= female									

Flat suction pads (oval) Series VTOF

Flat suction pads in NBR or Silicone.

Diameters from 4x2 to 90x30 mm with thread size M3, M5, G1/8, G1/4, both male and female.



CODING EXAMPLE

VT	0	F	-	0040-020	N	-	М3	М
VT		SERIES /T = suction pad						
0		HAPE) = oval						
Е	\	/ERSION						

0040-020

 $40-020 = 4,0 \times 2,0 \text{ mm} - 0070-035 = 7,0 \times 3,5 \text{ mm} - 0150-050 = 15,0 \times 5,0 \text{ mm} - 0180-060 = 18,0 \times 6,0 \text{ mm} - 0300-100 = 30,0 \times 10,0 \text{ mm} - 0450-150 = 45,0 \times 15,0 \text{ mm} - 0600-200 = 60,0 \times 20,0 \text{ mm} - 0750-250 = 75,0 \times 25,0 \text{ mm} - 0900-300 = 90,0 \times 30,0 \text{ mm}$

MATERIALS N= NBR - S = Silicone N

THREAD SIZE **M3** M3 = M3 - M5 = M5 - 1/8 = G1/8 - 1/4 = G1/4

F = flat

THREAD

M M = male - F = female



Bellows suction pads (round) Series VTCL - 1,5 folds

Series VTCL bellows suction pads available in NBR or Silicone. Diameters from 4 to 53 mm with thread size M3, M5, G1/8, G1/4, both male and female.



CODING EXAMPLE

VT	C	L	-	040	N	-	M5	M	
VT	SERIES VT = Suction pad								
C	SHAPE C = round								
L	VERSION L = 1,5 folds								
040	DIAMETERS 040 = 4,0 mm - 6	DIAMETERS 040 = 4,0 mm - 60 = 6,0 mm - 110 = 11,0 mm - 140 = 14,0 mm - 160 = 16,0 mm - 200 = 20,0 mm - 250 = 25,0 mm - 330 = 33,0 mm - 430 = 43,0 mm - 530 = 53,0 mm							
N	MATERIALS N = NBR - S = Sili	MATERIALS N = NBR - S = Silicone							
M5	THREAD SIZE M5 = M5 - 1/8 = G1/8 - 1/4 = G1/4								
М	THREAD M = male - F = female								

Bellows suction pads (round) Series VTCN - 2,5 folds

Series VTCN bellows suction pads, available in NBR or Silicone. Diameters from 3 to 52 mm with thread size M3, M5, G1/8, G1/4, both male and female.



VT	_	N		030	N		M5	N/I
VI	L	IV	-	050	IN IN	-	IMD	M

VT	SERIES VT = Suction pad
C	SHAPE C = round
N	VERSION N = 2,5 folds
030	DIAMETERS 030 = 3,0 mm - 040 = 4,0 mm - 050 = 5,0 mm - 070 = 7,0 mm - 090 = 9,0 mm - 120 = 12,0 mm - 140 = 14,0 mm - 180 = 18,0 mm - 200 = 20,0 mm - 250 = 25,0 mm 320 = 32,0 mm - 420 = 42,0 mm - 520 = 52,0 mm
N	MATERIALS N = NBR - S = Silicone
M5	THREAD SIZE M5 = M5 - 1/8 = G1/8 - 1/4 = G1/4
М	THREAD M = male - F = female



Flat suction pads Series VSCF

Universal suction pads in NBR or Silicone.

Diameters from 1 to 100 mm with thread size M3, M5, G1/8, G1/4, both male and female.



CODING EXAMPLE

VS	C	F	-	0010	N	-	M3	M		
VS	SERIES VS = Suction p	ad								
С	SHAPE C = round									
F	VERSION F = flat									
0010	DIAMETERS 0010 = 1,0 mm - 0015 = 1,5 mm - 0020 = 2,5 mm - 0030 = 3,0 mm - 0040 = 4,0 mm - 0050 = 5,0 mm - 0060 = 6,0 mm - 0070 = 7,0 mm - 0080 = 8,0 mm 0090 = 9,0 mm - 0100 = 10,0 mm - 0120 = 12,0 mm - 0150 = 15,0 mm - 0180 = 18,0 mm - 0200 = 20,0 mm - 0250 = 25,0 mm - 0300 = 30,0 mm - 0350 = 35,0 mm 0400 = 40,0 mm - 0500 = 50,0 mm - 0600 = 60,0 mm - 0700 = 70,0 mm - 0800 = 80,0 mm - 0900 = 90,0 mm - 1000 = 100,0 mm									
N	MATERIALS N = NBR - S =	MATERIALS N = NBR - S = Silicone								
M3	THREAD SIZE M3 = M3 - M5	THREAD SIZE M3 = M3 - M5 = M5 - 1/8 = G1/8 - 1/4 = G1/4								
M	THREAD M = male - F	= female								

Bellows suction pads (oval) for Packaging Series VPOL - 1,5 folds

Suction pads in Elastodur ED-65 or Silicone.

Dimensions from 60x20 to 100x40 mm with thread size G1/8 and G1/4, both male and female.



VP	0	L	-	0350-150	S	_	G1/8	M
----	---	---	---	----------	---	---	------	---

VP	SERIES VP = Suction pad
0	SHAPE O = oval
L	VERSION L = 1,5 folds
0350-150	DIAMETERS 0350-150 = 35,0 x 15,0 mm - 0600-200 = 60,0 x 20,0 mm - 0600-250 = 60,0 x 25,0 mm - 0800-350 = 80,0 x 35,0 mm - 1000-400 = 100,0 x 40,0 mm
S	MATERIALS S = Silicone - E = Elastodur
G1/8	THREAD SIZE 1/8 = G1/8 - 1/4 = G1/4
M	THREAD M = male - F = female



Bellows suction pads (round) for Packaging Series VPCL - 1,5 folds

Suction pads in Elastodur ED-65.

Diameters from 4 to 80 mm with thread size M5, G1/8 and G1/4, both male and female.



CODING EXAMPLE

VP	C L - 0100 E - M5 M						
VP	SERIES VP = Suction pad						
С	SHAPE C = round						
L	VERSION L = 1,5 folds						
0100	DIAMETERS 0100 = 10,0 mm - 0150 = 15,0 mm - 0200 = 20,0 mm - 0250 = 25,0 mm - 0300 = 30,0 mm - 0400 = 40,0 mm - 0500 = 50,0 mm - 0600 = 60,0 mm - 0800 = 80,0 mm						
E	MATERIALS E = elastodur						
M5	THREAD SIZE M5 = M5 - 1/8 = G1/8 - 1/4 = G1/4						
M	THREAD M = male - F = female						

Bellows suction pads (round) for Packaging Series VPCM - 2,5 folds

Suction pads in Elastodur ED-65.

Diameters from 20 to 50 mm with thread size G1/8 and G1/4, both male and female.



VP	C	M	-	0200	E	_	G1/8	M
----	---	---	---	------	---	---	------	---

VP	SERIES VP = Suction pad
C	SHAPE C=round
M	VERSION M = 1,5 folds
0200	DIAMETERS 0200 = 20,0 mm - 0250 = 25,0 mm - 0300 = 30,0 mm - 0400 = 40,0 mm - 0500 = 50,0 mm
E	MATERIALS E = elastodur
G1/8	THREAD SIZE 1/8 = G1/8 - 1/4 = G1/4
М	THREAD M=male - F=female



Bellows suction pads (round) for Packaging Series VPCN - 2,5 folds

Suction pads in Silicone.

Diameters from 15 to 50 mm with thread size G1/8, G1/4, G3/8 and G1/2, both male and female.



CODING EXAMPLE

VP	C N -	0150	S	-	G1/8	M	
VP	SERIES VP = Suction pad						
C	SHAPE C = round						
N	VERSION N = 2,5 folds						
0150	DIAMETERS 0150 = 15,0 mm - 0200 = 20,0 mm - 0250 = 25	DIAMETERS 0150 = 15,0 mm - 0200 = 20,0 mm - 0250 = 25,0 mm - 0300 = 30,0 mm - 0400 = 40,0 mm - 0500 = 50,0 mm					
S	MATERIALS S = Silicone						
G1/8	THREAD SIZE 1/8 = G1/8 - 1/4 = G1/4 - 1/2 = G1/2 - 3/8 = G3/8						
М	THREAD M = male - F = female						

Bellows suction pads (round) for Packaging Series VPCO - 4,5 folds

Suction pads in Silicone.

Diameters from 30 to 50 mm with thread size G1/8, G1/4 and G3/8, both male and female.



VP	С	0	-	0300	S	_	G1/8	M
----	---	---	---	------	---	---	------	---

VP	SERIES VP = Suction pad
С	SHAPE C = round
0	VERSION O = 4,5 folds
0300	DIAMETERS 0300 = 30,0 mm - 0400 = 40,0 mm - 0500 = 50,0 mm
S	MATERIALS S = Silicone
G1/8	THREAD SIZE 1/8 = G1/8 - 1/4 = G1/4 - 1/2 = G1/2 - 3/8 = G3/8
М	THREAD M=male - F=female



Bellows suction pads (round) for Packaging Series VPCQ - 4,5 folds

Suction pads in Silicone.

Diameters from 20 to 50 mm with thread size G1/8, G1/4 and G3/8, both male and female.



CODING EXAMPLE

VP	C	Q	-	0200	S	-	G1/8	M
VP	SERIES VP = Suction pa	d						
С	SHAPE C = round							
Q	VERSION Q = 4,5 folds							
0200	DIAMETERS 0200 = 20,0 mr	n - 0300 = 30,0 mm	ı - 0400 = 40,0 mm ·	- 0500 = 50,0 mm				
S	MATERIALS S = Silicone							
G1/8	THREAD SIZE 1/8 = G1/8 - 1/4	THREAD SIZE 1/8 = G1/8 - 1/4 = G1/4 - 1/2 = G1/2 - 3/8 = G3/8						
M	THREAD M = male - F =							

Flat suction pads (round) for Packaging Series VPCF

Suction pads in Elastodur ED-65.

Diameters from 1 to 65 mm with thread size M5, G1/8 and G1/4, both male and female.



VP	C	F	-	0100	E	_	M5	M
----	---	---	---	------	---	---	----	---

VP	SERIES VP = Suction pad
C	SHAPE C=round
F	VERSION F = flat
0100	DIAMETERS 0100 = 10,0 mm - 0150 = 15,0 mm - 0200 = 20,0 mm - 0250 = 25,0 mm - 0300 = 30,0 mm - 0400 = 40,0 mm - 0500 = 50,0 mm - 0600 = 60,0 mm
E	MATERIALS E = Elastodur
M5	THREAD SIZE M5 = M5 - 1/8 = G1/8 - 1/4 = G1/4
М	THREAD M=male - F=female



Basic ejectors Series VEB

Basic ejectors with no moving parts, based on the Venturi principle. Version "L" for porosive workpieces.





CODING EXAMPLE

V	EB	-	05	Н		
VEB	SERIES VEB = Vacuum ejector					
05	NOZZLE DIAMETER 05 = 0,5 mm - 07 = 0,7 mm - 10 = 1 mm - 15 = 1,5 mm - 20 = 2 mm - 25 = 2,5 mm - 30 = 3 mm					
Н	SUCTION TYPE H = high vacuum - L = high suction rate					

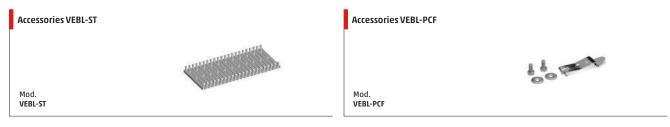
Basic ejectors Series VEBL

Basic ejectors in technopolymer without moving parts, based on the Venturi principle. Different sizes available, with internal nozzle from 0,5 to 2,5 mm and with suction rate from 8 to 207 l/min.



VEBL -	10H	-	T2
--------	-----	---	----

VEBL	SERIES VEBL = Vacuum ejector
10H	NOZZLE DIAMETER 05H = 0,5 mm - 07H = 0,7 mm - 10H = 1 mm - 15H = 1,5 mm - 20H = 2 mm - 25H = 2,5 mm
T2	TYPE OF CONNECTION (ON SUPPLY SIDE) T1 = plier - tube Ø4 - T2 = plier - tube Ø6 - T3 = plier - tube Ø8





Inline ejectors Series VED

Vacuum ejectors without moving parts, based on the Venturi principle, used for direct installation on suction pads.



CODING EXAMPLE

	VED	-	05
VED	SERIES VED = Vacuum ejectors		
05	NOZZLE DIAMETER 05 = 0,5 mm 07 = 0,7 mm 09 = 0,9 mm		

Inline ejectors Series VEDL

Vacuum compact ejectors in technopolymer without moving parts, based on the Venturi principle, used for direct installation on suction pads. Available in two sizes with internal nozzle of 0,5 and 0,7 mm and with suction rate from 8 to 16 l/min.



CODING EXAMPLE

VEDI

V	EDL	-	05	-	1 1		
VEDL	SERIES VEDL = Vacuum ejed	ctor					
05	NOZZLE DIAMETER 05 = 0,5 mm 07 = 0,7 mm						
T1	TYPE OF CONNECTIO T1 = plier - tube Ø4						



Compact ejectors Series VEC

Vacuum generators with integrated valves and monitoring system. Possibility to command suction and blow-off individually without using external valves.





CODING EXAMPLE

VEC	-	10	С	2	-	RD
-----	---	----	---	---	---	----

VEC	SERIES VEC = Vacuum ejector
10	NOZZLE DIAMETER 10 = 1,0 mm 15 = 1,5 mm 20 = 2,0 mm 25 = 2,5 mm
С	VALVE FUNCTION C = NC (suction OFF when not activated) A = NO (suction ON when not activated)
2	VERSION 2 = with Blow-off valve
RD	VERSION * RD = with air saving system and digital vacuum switch (with display). It is supplied complete with connectors and cables. * RE = with air saving system and electronic vacuum switch. It is supplied complete with connectors and cables. VD = without air saving system, digital vacuum switch (with display) VE = without air saving system, with electronic vacuum switch

^{*} The air saving circuit, where used, switches the suction signal to "ON" apart from the fact that the jector is NC or NO; this means that, in order to swtch the internal loop back to "OFF", it is necessary to activate the signal on the coil controlling it (green cable).



Connector Mod. 126-... DIN 43650 pin spacing 8 mm

For Mod. VEC-20 and VEC-25





Circular M8 4-pole connectors, Female

With PU sheathing, non shielded cable Protection class: IP65

CS-DF04EG-E200 CS-DF04EG-E500 CS-DR04EG-E200 CS-DR04EG-E500





Compact ejectors Series VEM

Miniaturized vacuum generators with integrated valves and monitoring system. Possibility to command suction and blow-off individually without using external valves.



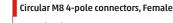
CODING EXAMPLE

VEM	-	05	С	2	-	VE
VENA SERIES						

VEM	SERIES VEM = Vacuum ejector
05	NOZZLE DIAMETER 05 = 0,5 mm 07 = 0,7 mm 10 = 1,0 mm
C	VALVE FUNCTION C = NC (suction OFF when not activated) A = NO (suction ON when not activated)
2	VERSION 2 = with Blow-off valve
VE	VALVE TYPE VE = without air saving system, with electronic vacuum switch

Connector Mod. 121-8.. for Mod. VEC-10 and VEC-15

Mod. 121-803 121-806 121-810 121-830



Protection class: IP65 Materials: PU non shielded cable

Mod. CS-DF04EG-E200 CS-DF04EG-E500 CS-DR04EG-E200 CS-DR04EG-E500



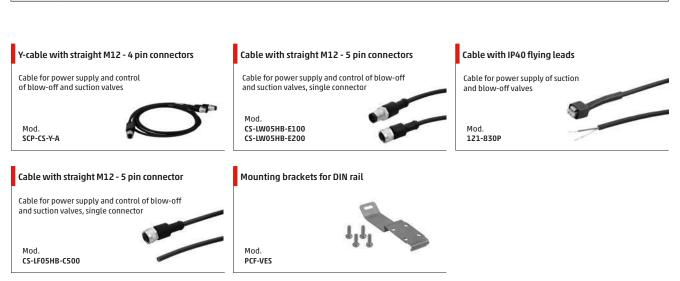


Compact ejectors Series VES

Compact vacuum generators with a high suction speed and reduced air consumption. Nozzle diameter: 1.0 - 1.5 mm



V	VES -		10	NC	-	S			
VES	SERIES VES = Compact ejector								
10	NOZZLE DIAMETER 10 = 1.0 mm 15 = 1.5 mm								
NC	VALVE FUNCTION NC = Normally Closed (at rest, no vacuum generation) NO = Normally Open (at rest, vacuum is present)								
S	VERSION S = with air saving circuit I = with air saving circuit and I/O Link communication B = without air saving circuit								



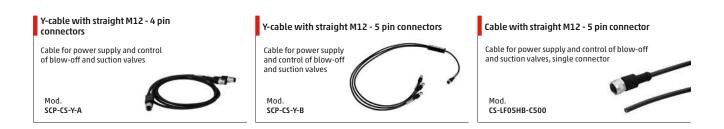


Compact ejectors Series VEN

Compact vacuum generators with a high suction capacity and reduced air consumption. Nozzle diameter: 2.0 - 2.5 mm



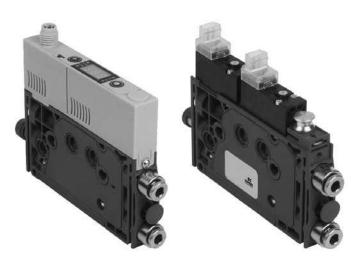
VE	= IV	-	20	NC	-	2		
VEN	SERIES VEN = Vac	uum ejector						
20	NOZZLE DI 20 = 2.0 m 25 = 2.5 m	nm						
NC	NC = Norm	VALVE FUNCTION NC = Normally Closed (at rest, no vacuum generation) NO = Normally Open (at rest, vacuum is present)						
S	I = with ai	ir saving circuit r saving circuit and I/O Link comm ut air saving circuit	nunication					



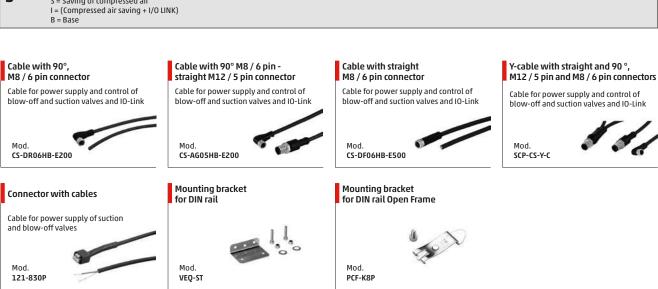


Compact ejectors Series VEQ

Ultra-compact vacuum generators with a high suction capacity with containted dimensions. Nozzle diameter: 0.5 - 0.7 - 1.0 mm



V	EQ	-	05	NC	-	S
VEQ	SERIES VEQ = Vacu	um ejectors				
05	NOZZLE DIA 05 = 0,5 mi 07 = 0,7 mi 10 = 1,0 mi	m m				
NC	VALVE FUNC C = NC A = NO	TION				
S		of compressed air essed air saving + I/O LINK)				





Flexible suction pad mountings Series NPF

The vulcanisation provides flexibility in all directions. Thread G1/4.



CODING EXAMPLE

NPF	-	FM	-	1/4	-	M10 X 1,25		
NPF	SERIES NPF = Flexible	SERIES NPF = Flexible suction pad mountings						
FM		THREAD VERSION FM = G1 Female / G2 Male						
1/4	FEMALE THREA 1/4 = G1/4	FEMALE THREAD G1 1/4 = G1/4						
M10x1,	M10x1,25 MALE THREAD G2 M10x1,25 = M10x1,25 1/4 = G1/4							

Spring plungers Series NPM and NPR (non rotating)

These spring plungers are used in situations where significant height differences of the workpiece have to be compensated for.

Thread size M3, M5, G1/8, G1/4, plunger stroke length from 5 to 75 mm.



CODING EXAMPLE

NIPM

INFIN	_	FIVI	_	1/4	_	13
NPM	SERIES NPM = spring plunger NPR = spring plunger - no	on-rotating				
FM	THREAD VERSION FM = female / male - FF =	= female / female				
1/4	THREAD M3 = M3 - M5 = M5 - 1/8	= G1/8 - 1/4 = G1/4				
75	COMPENSATION STROKE 05 = 5 mm 10 = 10 mm 15 = 15 mm 20 = 20 mm 25 = 25 mm 50 = 50 mm 75 = 75 mm					

1/4



Check valves Series VNV

These check valves are mainly used on vacuum gripper systems containing multiple suction pads in order to shut off individual suction pads which are not covered. Thread size M5, G1/8, G1/4, G3/8, G1/2.



CODING EXAMPLE

VNV	-	MF	-	M5
VNV	SERIES VNV = Check valve			

MF	THREAD VERSION MF= G1 male / G2 female FM = G1 female / G2 male
M5	THREAD M5 = M5 1/8 = G1/8 1/4 = G1/4 3/8 = G3/8 (MF version only) 1/2 = G1/2

Inline vacuum filters Series FVD

For use in vacuum systems with minor to medium levels of dirt. Direct mounting on the suction pad.



FVD	SERIES FVD = inline filter
4/2	CONNECTIONS 4/2 = tube 4 6/4 = tube 6 8/6 = tube 8
50	FILTER ELEMENT 50 = 50 µm



Vacuum cup filters Series FVT

Used as pre-filters and fine filters for air with varying amounts of contamination, for the protection of the vacuum generator. Mounted as protection for the ejector.





CODING EXAMPLE

FVT - FF - 1/4 - 80

FVT	SERIES FVT = cup filter
FF	THREAD SIZE FF = female-female
1/4	CONNECTIONS 1/8 = G1/8 1/4 = G1/4 3/8 = G3/8 1/2 = G1/2 3/4 = G3/4
80	FILTER ELEMENT 80 = 80 µm

Mounting foot bracket

The mod. FVT-FF-1/8-80-B is used on cup filters with ports 61/8, 61/4, 63/8 e 61/2. The mod. FVT-FF-3/4-80-B is used on cup filters with ports 63/4.

Mod. FVT-FF-1/8-80-B FVT-FF-3/4-80-B





Direct acting solenoid valves Series K8 - K8X

2/2-way - Normally Closed (NC) and Normally Open (NO) 3/2-way - Normally Closed (NC) and Normally Open (NO)

3/2-way - Universal (UNI)



Thanks to their particular design these valves can be used in applications where very compact solutions are required as well as high performances.

Series K8 is used to control actuators or very small devices and it is suitable for portable equipments thanks to low power consumption, reduced weight and dimensions.

The universal (UNI) version enables to mix two different gaseous fluids or to select the path of the gaseous fluid in the pneumatic circuit.

GENERAL DATA

TECHNICAL FEATURES

Function 2/2 NC - 3/2 NC - 2/2 NO - 3/2 NO - 3/2 UNI

Operation direct acting poppet type

Pneumatic connections cartridge seat in manifold / barb fittings for tube 4/2 - 4/2.5 - 5/3 mm

 $\begin{array}{lll} \textbf{Orifice diameter} & 0.5 \dots 0.7 \text{ mm} \\ \textbf{Flow efficient kv (l/min)} & 0.08 \dots 0.15 \\ \textbf{Operating pressure} & -1 \div 3 \dots 7 \text{ bar} \\ \textbf{Operating temperature} & 0 \div 50 \,^{\circ}\text{C} \\ \end{array}$

Media filtered compressed air, unlubricated, according to ISO 8573-1:2010 class [3:4:3], inert gas

Response time (ISO 12238) ON <10 ms - OFF <10 ms

Installation in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body brass - stainless steel - PBT

Seals FKM

Internal parts stainless steel - enamelled copper

ELECTRICAL FEATURES

Voltage 3 ... 24 V DC - other voltages on demand

Voltage tolerance±10%Power consumption0.6 WDuty cycleED 100%

Electrical connection 2 pins 0.5 x 0.5 pitch 4 mm - JST connector with 300 mm flying leads

Protection class IF

Special versions available on demand

CAMOZZI

CODING EXAMPLE



NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue of Series K8 - K8X, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Direct and indirect acting 2/2 - 3/2-way solenoid valves, where you will find all compatible accessories as well.



Pilot operated solenoid valves Series K8B

2/2-way - Normally Closed (NC) and Normally Open (NO) 3/2-way - Normally Closed (NC) and Normally Open (NO)



Series K8B pilot operated solenoid valves represent the evolution of Series K8 which has been equipped with a flow amplifier. Their particular design makes these valves ideal for use in applications requiring very compact solutions and high flow.

Thanks to their low power consumption and light weight Series K8B solenoid valves are particularly suitable for use with portable equipment too.

GENERAL DATA

TECHNICAL FEATURES

2/2 NC - 2/2 NO - 3/2 NC - 3/2 NO Function Operation pilot operated poppet type

Pneumatic connections cartridge seat in manifold - M7 threads - on subbase

Orifice diameter 3.6 mm Flow coefficient kv (l/min) 2.8 1 ÷ 7 bar Operating pressure Operating temperature 0 ÷ 50 °C

Media filtered compressed air, unlubricated, according to ISO 8573-1:2010 class [2:4:2], inert gas

Response time (ISO 12238) ON <15 ms - OFF <15 ms in any position Installation

MATERIALS IN CONTACT WITH THE MEDIUM

Body brass - stainless steel - PBT - aluminium

Seals

Internal parts stainless steel - enamelled copper

ELECTRICAL FEATURES

Voltage 3 ... 24 V DC - other voltages on demand

Voltage tolerance Power consumption 0.6 W **Duty cycle** ED 100%

Electrical connection 2 pins 0.5 x 0.5 pitch 4 mm - JST connector with 300 mm flying leads

Protection class

Special versions available on demand

C∢ CAMOZZI

CODING EXAMPLE



I/OD	SERIES
K8B	
C5	BODY DESIGN C0 = valve with aluminium body flanged connections C3 = valve with aluminium body threaded connections C5 = cartridge valve without body
4	NUMBER OF WAYS - FUNCTIONS 1 = 2/2-way - NC 2 = 2/2-way - NO 4 = 3/2-way - NC 5 = 3/2-way - NO
00	PNEUMATIC CONNECTIONS 00 = cartridge seat in manifold 03 = M7 thread 18 = 2/2-way K8B-type interface 19 = 3/2-way K8B-type interface
D4	ORIFICE DIAMETER D4 = Ø 3.6mm
3	SEALS MATERIALS 3 = FKM
2	MATERIALS 1 = stainless steel - brass - aluminium (valve with body version) 2 = stainless steel - brass (cartridge version)
N	MANUAL OVERRIDE N = not foreseen
N	FIXING N = not foreseen P = screws for plastics M = screws for metal
00	OPTION 00 = no option
1A	ELECTRICAL CONNECTION 1A = pins - pitch 4 mm 1B = JST connector with 300 mm flying leads
C003	VOLTAGE - POWER CONSUMPTION COO1 = 6 V DC (0.6 W) COO2 = 12 V DC (0.6 W) COO3 = 24 V DC (0.6 W)
	OPTIONS = standard OX1 = for use with oxygen (non volatile residual less than 550 mg/m²)

NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue of Series K8B, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Direct and indirect acting 2/2 - 3/2-way solenoid valves, where you will find all compatible accessories as well.



Media separated solenoid valves Series K8DV

2/2-way - Normally Closed (NC)





The K8DV solenoid valve was born to meet all the demands to shut off aggressive or heat sensitive fluids. Thanks to a fluid separation membrane, the fluid is isolated from all internal metal parts of the solenoid valve and avoids heating, even if minimum, generated by the solenoid positioned above.

To choose the most suitable model for a specific application, check the chemical compatibility of the medium to control with the available materials of body and seals.

GENERAL DATA

TECHNICAL FEATURES

Function 2/2 N

 Operation
 direct acting with fluid separation membrane

 Pneumatic connections
 cartridge seat in manifold - on subbase

Orifice diameter 0.7 mm
Flow efficient kv (l/min) 0.1

 $\begin{array}{ll} \textbf{Operating pressure} & 0 \div 2.1 \, \text{bar} \, (\text{FKM/EPDM}) \, / \, 0 \div 1.5 \, \text{bar} \, (\text{FKM}) \\ \textbf{Operating temperature} & 5 \div 50 \, ^{\circ}\text{C} \, (\text{FKM/EPDM}) \, / \, 20 \div 50 \, ^{\circ}\text{C} \, (\text{FKM}) \\ \end{array}$

Media inert or corrosive liquids and gases compatible with the materials in contact

Response time ON \leq 10 ms - OFF \leq 15 ms

Installation in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body PEEK
Seals FKM - EPDM - FFKM

ELECTRICAL FEATURES

Voltage 3 ... 24 V DC - other voltages on demand

Voltage tolerance ±10%
Power consumption 0.6 W
Duty cycle ED 100%

Electrical connection 2 pins 0.5 x 0.5 pitch 4 mm

Protection class IP

C∢ CAMOZZI





K8DV	SERIES
С	TYPE OF BODY C = cartridge version 0 = flanged version
00	NUMBER OF POSITIONS 00 = valve without housing
5	NUMBER OF WAYS - FUNCTIONS 5 = 2/2-way - NC
0	SEAL MATERIAL 0 = FKM 4 = EPDM 5 = FFKM
5	ORIFICE DIAMETER 5 = Ø 0.7 mm
G	BODY MATERIAL G = PEEK
2	ELECTRICAL CONNECTION 2 = pins - pitch 4 mm
3	VOLTAGE - POWER CONSUMPTION 1 = 6V DC - 0.6 W 2 = 12V DC - 0.6 W 3 = 24V DC - 0.6 W 4 = 3V DC - 0.6 W 5 = 5V DC - 0.6 W
	OPTIONS = standard OX1 = for use with oxygen (non volatile residual less than 550 mg/m²)

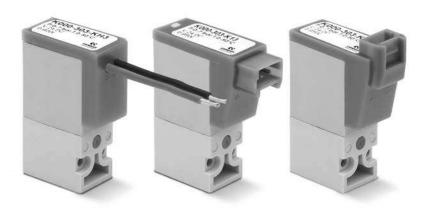
NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue of Series K8DV, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Direct and indirect acting 2/2 - 3/2-way solenoid valves, where you will find all compatible accessories as well.



Direct acting solenoid valves Series K

2/2-way - Normally Closed (NC)

3/2-way - Normally Closed (NC) and Normally Open (NO)



The Series K direct acting solenoid valves can be mounted on single sub-bases or manifolds.
Thanks to the same mounting pad 2/2-way and 3/2-way versions can be installed on the same manifold.
The manual override is available only for the 3/2-way versions.

GENERAL DATA

TECHNICAL FEATURES

Function 2/2 NC - 3/2 NC - 3/2 NO Operation direct acting poppet type

 Pneumatic connections
 on subbase

 Orifice diameter
 0.6 ... 1 mm

 Flow coefficient kv (l/min)
 0.12 ... 0.30

 Operating pressure
 0 ÷ 3 ... 7 bar

 Operating temperature
 0 ÷ 50 °C

Media filtered compressed air, unlubricated, according to ISO 8573-1:2010 class [3:4:3], inert gas

Response timeON <10 ms - OFF <10 ms

Manual override
ON <10 ms - OFF <10 ms

monostable - only for 3/2 versions

Installation in any position

MATERIALS IN CONTACT WITH THE MEDIUM

BodyPBTSealsNBR - FKMInternal partsstainless steel

ELECTRICAL FEATURES

Voltage 6 ... 24 V DC - other voltages on demand

Electrical connection connector mod. 121-8... - 300 mm flying leads

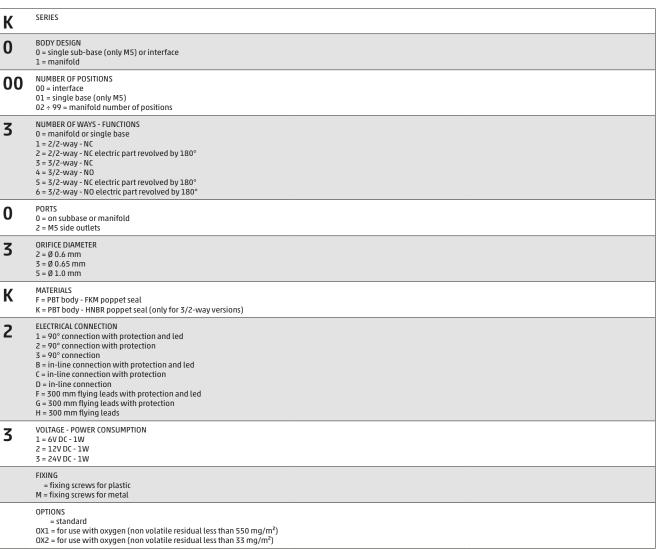
Protection class IP50

Special versions available on demand

CAMOZZI

CODING EXAMPLE





NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue of Series K, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Direct and indirect acting 2/2 - 3/2-way solenoid valves, where you will find all compatible accessories as well.

6



Direct acting solenoid valves Series KL

2/2-way - Normally Closed (NC)

3/2-way - Normally Closed (NC) and Normally Open (NO)

3/2-way - Universal (UNI)







- » Application sectors:
 - Life Science
 - Industrial Automation
- » Compact design
- » M8 3 pin electric connection available
- » Monostable and bistable manual override

Series KL are miniaturised solenoid valves with a width of only 10 mm. Its compact design, reduced weight, and low energy consumption make the Series KL ideal for applications within confined spaces and with a limited power supply.

The body is designed in such a way it can be mounted both on manifold and on subbase and the valve is available in 2-way normally closed and in 3-way normally closed, open and universal version.

GENERAL DATA

2/2 NC - 3/2 NC - 3/2 NO - 3/2 UNI
direct acting poppet type
on subbase
0.6 1.6 mm
0.12 0.50
0 ÷ 2 7 bar
0 ÷ 50 °C
filtered compressed air, unlubricated, according to ISO 8573-1:2010 class [3:4:3], inert gas
ON <10 ms - OFF <10 ms
monostable or bistable - only for 3/2 versions
in any position
PBT
FKM
stailess steel - brass
6 24 V DC - other voltages on demand
±10%
1 W - 1.3/0.3 W - 4/1 W
ED 100%
connector mod. 121-8 M8 connector mod. CS (the M8 connection of the valve accepts polarity reversal)
IP50 with connector 121-8 IP65 with M8 connector

C∢ CAMOZZI

CODING EXAMPLE



KL	SERIES
0	BODY DESIGN 0 = 3/2 body - ISO 15218 A = 3/2 body - ISO 15218 - coil rotated by 180° 2 = 2/2 body C = 2/2 body - coil rotated by 180°
4	NUMBER OF WAYS - FUNCTIONS 1 = 2/2-way NC 4 = 3/2-way NC 5 = 3/2-way NO 6 = 3/2-way UNI
0	PORTS 0 = on subbase or manifold
A6	ORIFICE DIAMETER A6 = Ø 0.60 mm A8 = Ø 0.80 mm B1 = Ø 1.10 mm B2 = Ø 1.20 mm B3 = Ø 1.30 mm B6 = Ø 1.60 mm
3	SEAL MATERIAL 3 = FKM
Α	BODY MATERIAL A = PBT
Y	MANUAL OVERRIDE 0 = not requested or not foreseen Y = monostable B = bistable
1	ELECTRICAL CONNECTION 1 = 90° connection with protection and led B = in-line connection with protection and led M = M8 - 3 pin connection
3	VOLTAGE - POWER CONSUMPTION 1 = 6 V DC - 1 W 2 = 12 V DC - 1 W 3 = 24 V DC - 1 W A = 6 V DC - 1.3/0.3 W B = 12 V DC - 1.3/0.3 W C = 24 V DC - 1.3/0.3 W 5 = 5 V DC - 4/1 W 7 = 12 V DC - 4/1 W 8 = 24 V DC - 4/1 W
М	FIXING M = fixing screws for metal P = fixing screws for plastic
	OPTIONS = standard OX1 = for use with oxygen (non volatile residual less than 550 mg/m²)

NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue of Series KL, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Direct and indirect acting 2/2 - 3/2-way solenoid valves, where you will find all compatible accessories as well.



Direct acting solenoid valves Series KLE

2/2-way - Normally Closed (NC)

3/2-way - Normally Closed (NC) and Normally Open (NO)

3/2-way - Universal (UNI)







- » Application sectors:
 - Life Science
 - Industrial Automation
- » Compact design
- » M8 3 pin electric connection available
- » Monostable and bistable manual override

Series KLE are miniaturised solenoid valves with a width of only 10 mm. The body is designed in such a way it can be mounted both on manifold and on subbase and the valve is available in 2-way normally closed and in 3-way normally closed, open and universal version.

The use of a longer coil allowed to increase the pressure values the valves can withstand.

GENERAL DATA

GENERAL DATA	
TECHNICAL FEATURES	
Function	2/2 NC - 3/2 NC - 3/2 NO - 3/2 UNI
Operation	direct acting poppet type
Pneumatic connections	on subbase
Orifice diameter	0.6 1.6 mm
Flow coefficient kv (l/min)	0.12 0.50
Operating pressure	0 ÷ 2 9 bar
Operating temperature	0 ÷ 50 °C
Media	filtered compressed air, unlubricated, according to ISO 8573-1:2010 class [3:4:3], inert gas
Response time	ON <10 ms - OFF <10 ms
Manual override	monostable or bistable - only for 3/2 versions
Installation	in any position
MATERIALS IN CONTACT WITH THE MEDIL	UM
Body	PBT
Seals	FKM
Internal parts	stailess steel - brass
ELECTRICAL FEATURES	
Voltage	6 24 V DC - other voltages on demand
Voltage Voltage tolerance	6 24 V DC - other voltages on demand ±10%
•	•
Voltage tolerance	±10%
Voltage tolerance Power consumption	±10% 1 W - 1.3/0.3 W - 4/1 W

C∢ CAMOZZI

CODING EXAMPLE

KLE	0	4	0	_	A6	3	Α	Υ	-	1	3	М
										l		1

KLE	SERIES										
0	BODY DESIGN 0 = 3/2 body - ISO 15218 A = 3/2 body - ISO 15218 - coil rotated by 180° 2 = 2/2 body C = 2/2 body - coil rotated by 180°										
4	NUMBER OF WAYS - FUNCTIONS 1 = 2/2-way NC 4 = 3/2-way NC 5 = 3/2-way NO 6 = 3/2-way UNI										
0	PORTS 0 = on su	bbase or manif	old								
A6	ORIFICE D A6 = Ø 0. A8 = Ø 0. B1 = Ø 1. B2 = Ø 1. B3 = Ø 1. B6 = Ø 1.	80 mm 10 mm 20 mm 30 mm									
3	SEAL MAT 3 = FKM	ERIAL									
Α	BODY MA A = PBT	TERIAL									
Υ			foreseen								
1	1 = 90° co B = in-lin	AL CONNECTION onnection with e connection w 3 pin connectio	protection and with protection a								
3	1 = 6 V DO 2 = 12 V I 3 = 24 V DO 6 = 6 V DO 7 = 12 V I	DC - 1 W DC - 1 W	JMPTION								
М		g screws for me g screws for pla									
	OPTIONS = standa OX1 = for	rd	en (non volatile	e residual less t	than 550 mg/m	·})					

NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue of Series KLE, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Direct and indirect acting 2/2 - 3/2-way solenoid valves, where you will find all compatible accessories as well.



Direct acting solenoid valves Series KN and KN High Flow

3/2-way - Normally Closed (NC) and Normally Open (NO) 3/2-way - Universal (UNI)





The Series KN direct acting solenoid valves are available also in the high flow version (KN High Flow).

Thanks to its low energy consumption and to its compact design, the KN miniaturized solenoid valve can be used in industrial and scientific applications.

GENERAL DATA

TECHNICAL FEATURES

Function 3/2 NC - 3/2 NO - 3/2 UNI **Operation** direct acting poppet type

Pneumatic connections on subbase with ISO 15218 interface

 Orifice diameter
 0.65 ... 1.1 mm

 Flow coefficient kv (l/min)
 0.15 ... 0.39

 Operating pressure
 0 ÷ 3 ... 7 bar

 Operating temperature
 0 ÷ 50 °C

Media filtered compressed air, unlubricated, according to ISO 8573-1:2010 class [3:4:3], inert gas

Response time ON <10 ms - OFF <10 ms Manual override monostable

Installation in any position

MATERIALS IN CONTACT WITH THE MEDIUM

BodyPBTSealsNBR - FKMInternal partsstainless steel

ELECTRICAL FEATURES

 Voltage
 5 ... 24 V DC - other voltages on demand

 Voltage tolerance
 ±10%

 Power consumption
 1.3/0.25 ... 4/1 W (inrush/holding)

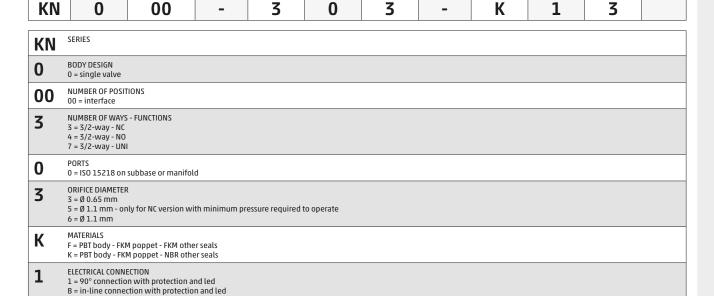
Duty cycleED 100%Electrical connectionconnector mod. 121-8...

Protection class IP50

Special versions available on demand

CAMOZZI

CODING EXAMPLE



VOLTAGE - POWER CONSUMPTION

VOLTAGE - POWER CONSO 2 = 12 V DC - 1.3/0.25 W 3 = 24 V DC - 1.3/0.25 W 5 = 5 V DC - 4/1 W 7 = 12 V DC - 4/1 W 8 = 24 V DC - 4.1 W

3

fixing screws for plastic

M = fixing screws for metal

OPTIONS

= standard OX2 = for use with oxygen (non volatile residual less than 33 mg/m²)

NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue of Series KN and KN High Flow, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Direct and indirect acting 2/2 - 3/2-way solenoid valves, where you will find all compatible accessories as well.



Media separated solenoid valves Series KDV

2/2-way - Normally Closed (NC) 2/2-way - Normally Open (NO) 3/2-way - Universal (UNI)



The Series KDV are solenoid valves designed to control critical media such as aggressive, high purity liquids or gases or thermosensitive fluids. These valves prevent the controlled media from interacting with the internal mechanical part of the valve. The orifices are open or closed by a separation element on which acts a mechanism moved by a solenoid actuator.

To choose the most suitable model for a specific application, check the chemical compatibility of the medium with the available materials of body and seals.

GENERAL DATA

TECHNICAL FEATURES

Function 2/2 NC - 2/2 NO - 3/2 NC - 3/2 NO - 3/2 UNI
Operation direct acting with fluid separation membrane

Pneumatic connections flanged for subbase or manifold

Orifice diameter $0.8 \dots 1.3 \text{ mm}$ Flow coefficient kv (l/min) $0.2 \dots 0.4$ Operating pressure $-0.95 \dots 2.0 \text{ bar}$

Operating temperature $0 \div 50 \,^{\circ}\text{C} \, (\text{FKM/EPDM}) \, / \, \, 10 \div 50 \,^{\circ}\text{C} \, (\text{FFKM})$

Media inert or corrosive liquids and gases compatible with the materials in contact

Response time ON ≤20 ms - OFF ≤20 ms **Installation** in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body PEEK

Seals FKM - EPDM - FFKM

ELECTRICAL FEATURES

Voltage 6 ... 24 V DC - other voltages on demand

Voltage tolerance ±5%
Power consumption 4/1 W
Duty cycle ED 100%

Electrical connection connector mod. 121-8... - 300 mm flying leads

Protection class IP40 with connector

Special versions available on request

C∢ CAMOZZI





KDV	SERIES
1	BODY DESIGN 1 = flanged body for sub-base
6	NUMBER OF WAYS - FUNCTION 1 = 2/2-way - NC 2 = 2/2-way - NO 6 = 3/2-way - UNI
0	PNEUMATIC CONNECTION 0 = on sub-base or manifold
В0	ORIFICE DIAMETER A8 = Ø 0.8 mm B0 = Ø 1.0 mm B3 = Ø 1.3 mm
3	SEAL MATERIAL 3 = FKM 4 = EPDM 5 = FFKM
G	BODY MATERIAL G = PEEK
1	ELECTRICAL CONNECTION 1 = 90° connection with protection and led B = in-line connection with protection and led F = 90° 300 mm flying leads with protection and led W = in-line 300 mm flying leads with protection and led
8	VOLTAGE - POWER CONSUMPTION 6 = 6 V DC - 4/1 W 7 = 12 V DC - 4/1 W 8 = 24 V DC - 4/1 W
M	FIXING M = fixing screws
	OPTIONS = standard

NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue of Series KDV, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Direct and indirect acting 2/2 - 3/2-way solenoid valves, where you will find all compatible accessories as well.



Media separated solenoid valves Series LDV

2/2-way - Normally Closed (NC) 2/2-way - Normally Open (NO) 3/2-way - Universal (UNI)



- » Suitable to be used with neutral or aggressive or heat sensitive fluids
- » Suitable for specific applications on medical and analytical equipment or instruments
- » Compact design

The Series LDV are solenoid valves designed to control critical media such as aggressive, high purity liquids or gases or thermosensitive fluids.

These valves prevent the controlled media from interacting with the internal mechanical part of the valve. The orifices are open or closed by a separation element on which acts a mechanism moved by a solenoid actuator.

To choose the most suitable model for a specific application, check the chemical compatibility of the medium with the available materials of body and seals.

GENERAL DATA

TECHNICAL FEATURES

Function 2/2 NC - 2/2 NO - 3/2 NC - 3/2 NO - 3/2 UNI
Operation direct acting with fluid separation membrane

Pneumatic connections flanged for subbase or manifold

 Orifice diameter
 0.8 ... 1.6 mm

 Flow coefficient kv (l/min)
 0.3 ... 0.6

 Operating pressure
 -0.95 ... 5.0 bar

Operating temperature $0 \div 50 \,^{\circ}\text{C} \, (\text{FKM/EPDM}) \, / \, \, 10 \div 50 \,^{\circ}\text{C} \, (\text{FFKM})$

Media inert or corrosive liquids and gases compatible with the materials in contact

Response time ON ≤20 ms - OFF ≤20 ms **Installation** in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body PEEK Seals EPDM - FFKM

ELECTRICAL FEATURES

Voltage 6 ... 24 V DC - other voltages on demand

Voltage tolerance ±5%
Power consumption 4 W
Duty cycle ED 100%

Electrical connection connector mod. 121-8... -300 mm flying leads

Protection class IP54 with connector

Special versions available on request industrial standard form C (9.4 mm)

C∢ CAMOZZI

CODING EXAMPLE



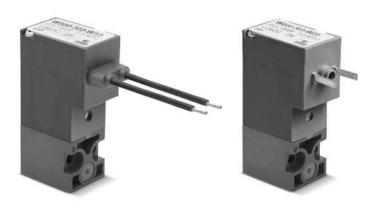
LDV	SERIES
1	BODY DESIGN 1 = flanged body for sub-base
6	NUMBER OF WAYS - FUNCTION 1 = 2/2-way - NC 2 = 2/2-way - NO 6 = 3/2-way - UNI
0	PNEUMATIC CONNECTION 0 = on sub-base or manifold
B2	ORIFICE DIAMETER A8 = Ø 0.8 mm B2 = Ø 1.2 mm B6 = Ø 1.6 mm
4	SEAL MATERIAL 4 = EPDM 5 = FFKM
G	BODY MATERIAL G = PEEK
1	ELECTRICAL CONNECTION 1 = industrial standard form C (9.4 mm)
8	VOLTAGE - POWER CONSUMPTION 6 = 6 V DC - 4 W 7 = 12 V DC - 4 W 8 = 24 V DC - 4 W
M	FIXING M = fixing screws
	OPTIONS = standard

NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue of Series LDV, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Direct and indirect acting 2/2 - 3/2-way solenoid valves, where you will find all compatible accessories as well.



Direct acting solenoid valves Series W

3/2-way - Normally Closed (NC) and Normally Open (NO)



Series W direct acting solenoid valves are available as 3/2-way either NC or NO. Both versions can be mounted on single sub-bases or manifolds and they are equipped with a monostable manual override.

GENERAL DATA

TECHNICAL FEATURES

Function 3/2 NC - 3/2 NO

Operation direct acting poppet type

Pneumatic connections on subbase with ISO 15218 interface

 $\begin{array}{lll} \textbf{Orifice diameter} & 0.8 \dots 1.5 \, \text{mm} \\ \textbf{Flow coefficient kv (l/min)} & 0.21 \dots 0.54 \\ \textbf{Operating pressure} & 0 \div 5 \dots 10 \, \text{bar} \\ \textbf{Operating temperature} & 0 \div 50 \, ^{\circ}\text{C} \\ \end{array}$

Media filtered air, class [5:4:4] according to ISO 8573-1:2010 (max oil viscosity 32 cSt), inert gas

Response time (ISO 12238) ON <10 ms - OFF <15 ms

Manual override monostable in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body PB'

Seals PU - NBR - FKM - EPDM Internal parts stainless steel

ELECTRICAL FEATURES

Voltage 12 ... 48 V DC - other voltages on demand

Voltage tolerance ±109

Power consumption 2 W - 1 W (24 V DC only)

Duty cycle ED 100

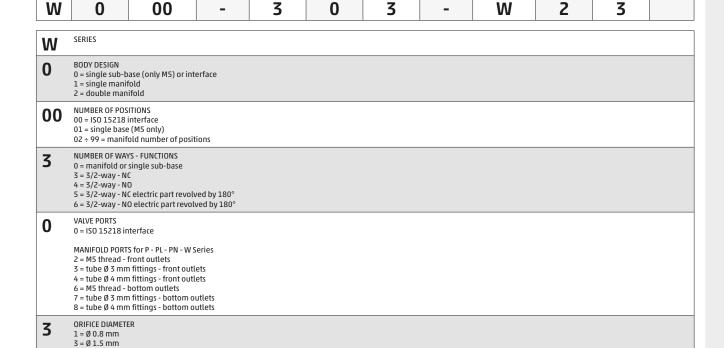
Electrical connection connector DIN EN 175 301-803-C (8 mm) - 300 mm flying leads

Protection class IP65 with connector

Special versions available on demand

CAMOZZI





MATERIALS W

E = PBT body - EPDM seals F = PBT body - FKM seals

5 = Ø 1.1 mm - NC versions

5 = Ø 0.9 mm - NO versions

W = PBT body - NBR - FKM - PU seals

ELECTRICAL CONNECTION 2

1 = 300 mm flying leads 2 = DIN EN 175 301-803-C (8 mm)

VOLTAGE - POWER CONSUMPTION 3

2 = 12 V DC - 2 W 3 = 24 V DC - 1 W - NC Ø 0.8 mm version only 3 = 24 V DC - 2 W

4 = 48 V DC - 2 W

FIXING

= fixing screws for metal

P = fixing screws for plastic

OPTIONS

OX1 = for use with oxygen (non volatile residual less than 550 mg/m²)
OX2 = for use with oxygen (non volatile residual less than 33 mg/m²)

6 = Ø 1.5 mm - NC versions with voltage tolerance -25% ÷ +10%

NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue of Series W, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Direct and indirect acting 2/2 - 3/2-way solenoid valves, where you will find all compatible accessories as well.



Direct acting solenoid valves Series P

3/2-way - Normally Closed (NC) and Normally Open (NO)





Series P direct acting solenoid valves are available as 3/2-way, either NC or NO. Both versions can be mounted on single sub-bases or manifolds and they are equipped with a monostable manual override.

Please note that all Series P solenoid valves are supplied with direct current (DC). To operate in alternating current (AC), it is necessary to use the connector with bridge rectifier Mod. 125-900.

GENERAL DATA

TECHNICAL FEATURES

Function 3/2 NC - 3/2 NO Operation

direct acting poppet type Pneumatic connections

on subbase with ISO 15218 interface

Orifice diameter 0.8 ... 1.5 mm Flow coefficient kv (l/min) 0.21 ... 0.54 Operating pressure 0 ÷ 3 ... 10 bar Operating temperature

Media filtered air, class [5:4:4] according to ISO 8573-1:2010 (max oil viscosity 32 cSt), inert gas

Response time (ISO 12238) ON <10 ms - OFF <15 ms

Manual override monostable Installation in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Seals PU - NBR - FKM - EPDM Internal parts stainless steel

ELECTRICAL FEATURES

Voltage 12 ... 110 V DC - 24 ... 110 V AC 50/60 Hz - other voltages on demand

Voltage tolerance Power consumption 1 ... 2 W **Duty cycle** ED 100%

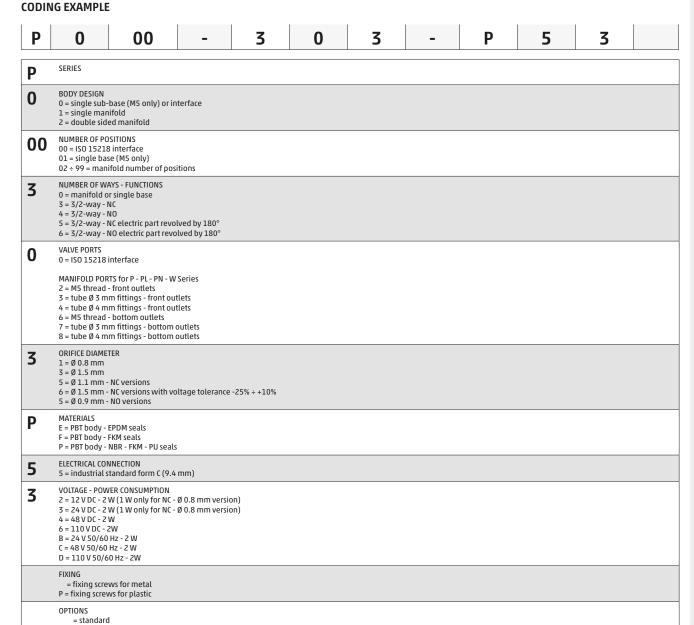
Electrical connection industrial standard connector (9.4 mm)

Protection class IP65 with connector

Special versions available on demand

CAMOZZI





NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue of Series P, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Direct and indirect acting 2/2 - 3/2-way solenoid valves, where you will find all compatible accessories as well.

OX1 = for use with oxygen (non volatile residual less than 550 mg/m²) OX2 = for use with oxygen (non volatile residual less than 33 mg/m²)



Direct acting solenoid valves Series PL

2/2-way - Normally Open (NO)

3/2-way - Normally Closed (NC) and Normally Open (NO)

3/2-way - Universal (UNI)









- » Application sectors:
 - Industrial Automation
 - Life Science
 - Transportation
- » Mounting on a single base (M5 connections) or on manifold (M5 or fittings Ø3 and Ø4)

Series PL solenoid valves are available in the normally closed, normally open and universal versions.

They can be mounted on single sub-bases or manifolds

GENERAL DATA

TECHNICAL FEATURES

Function 2/2 NO - 3/2 NC - 3/2 NO - 3/2 UNI
Operation direct acting poppet type
Pneumatic connections on subbase

 Preumatic connections
 on subbase

 Orifice diameter
 0.8 ... 1.6 mm

 Flow coefficient kv (l/min)
 0.30 ... 0.62

 Operating pressure
 0 ÷ 3.5 ... 10 bar

Operating temperature 0 ÷ 50 °C (FKM) / -50 ÷ 50 °C (low temperature NBR on demand)

Media filtered air, class [5:4:4] according to ISO 8573-1:2010 (max oil viscosity 32 cSt), inert gas

Response time ON <10 ms - OFF <15 ms

Manual override mono/bistable - PBT 3/2 versions only

Installation in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body brass - PBT - PPS

Seals FKM - NBR - EPDM (on demand)
Internal parts brass - stainless steel

ELECTRICAL FEATURES

Voltage 6 ... 110 V DC - other voltages on demand

Voltage tolerance ±10%
Power consumption 1.2 ... 3 W
Duty cycle ED 100%

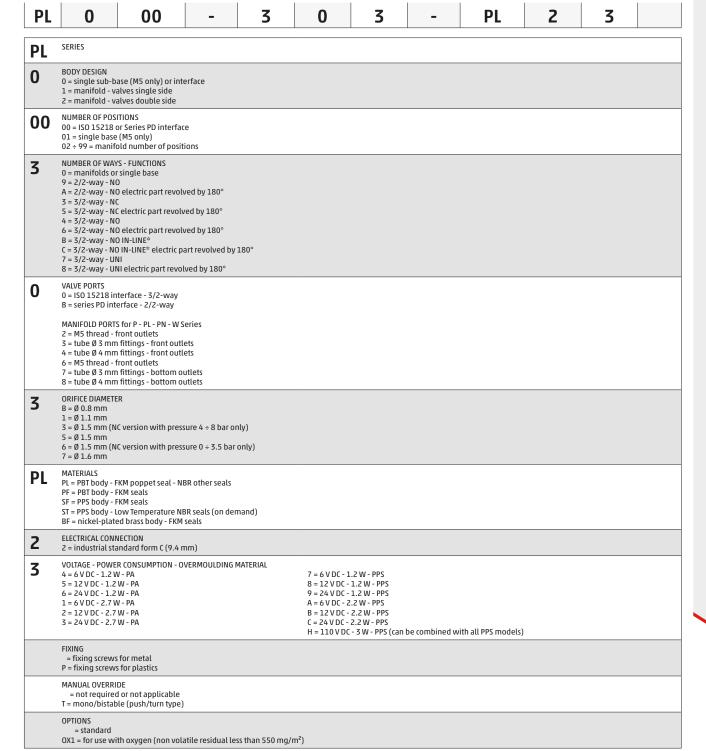
Electrical connection industry standard connector (9.4 mm)

Protection class IP65 with connector

Special versions available on demand

CAMOZZI





^{* 3/2} NO IN-LINE version: the position of the ports 1 - 2 - 3 is identical to 3/2 NC version

NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue of Series PL, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Direct and indirect acting 2/2 - 3/2-way solenoid valves, where you will find all compatible accessories as well.



Direct acting solenoid valves Series PN

3/2-way - Normally Closed (NC)



Series PN direct acting solenoid valves are available as 3/2-way NC.

Please note that all Series PN solenoid valves are supplied with direct current (DC). To operate in alternating current (AC), it is necessary to use the connector with bridge rectifier Mod. 125-900.

GENERAL DATA

TECHNICAL FEATURES

Function 3/2 N

Operation direct acting poppet type

Pneumatic connections on subbase with ISO 12238 interface

 $\begin{array}{lll} \text{Orifice diameter} & 0.8 \text{ mm} \\ \text{Flow coefficient kv (l/min)} & 0.19 \\ \text{Operating pressure} & 0 \div 10 \text{ bar} \\ \text{Operating temperature} & 0 \div 50 \text{ °C} \\ \end{array}$

Media filtered air, class [5:4:4] according to ISO 8573-1:2010 (max oil viscosity 32 cSt), inert gas

Response time (ISO 12238) ON <10 ms - OFF <15 ms

Installation in any position

MATERIALS IN CONTACT WITH THE MEDIUM

BodyPBTSealsFKM - NBRInternal partsstainless steel

ELECTRICAL FEATURES

Voltage 24 ... 205 V DC - other voltages on demand

Voltage tolerance ±10%
Power consumption 1 ... 2 W
Duty cycle ED 100%

Electrical connection industrial standard connector (9.4 mm)

Protection class IP65 with connector

Special versions available on demand

0

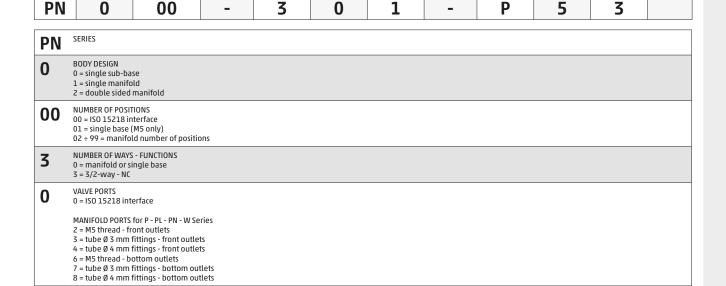
3

5

CAMOZZI



PN



0

1

3

1 = Ø 0.8 mm MATERIALS P

ORIFICE DIAMETER

1

5

P = PBT body - seals FKM - NBR

ELECTRICAL CONNECTION 5 = industrial standard form C (9.4 mm)

VOLTAGE - POWER CONSUMPTION 3

3 = 24 V DC - 1 W 4 = 48 V DC - 2 W

6 = 110 V DC - 2 W 7 = 205 V DC - 1.7 W

= fixing screws for plastic M = fixing screws for metal

NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue of Series PN, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Direct and indirect acting 2/2 - 3/2-way solenoid valves, where you will find all compatible accessories as well.



Direct acting solenoid valves Series PD

2/2-way - Normally Closed (NC)



The Series PD direct acting solenoid valves are available in the 2/2-way normally closed (NC) version. Pneumatic interfaces allow installation on manifolds in horizontal or vertical position. Also available with threaded connections.

Please note that all Series PD solenoid valves are supplied with direct current (DC). To operate in alternating current (AC), it is necessary to use the connector with bridge rectifier Mod. 125-900.

GENERAL DATA

TECHNICAL FEATURES

Function 2/2 N

Operation direct acting poppet type
Pneumatic connections on subbase - M5 threads
Orifice diameter 0.8 ... 2.5 mm
Flow coefficient kv (l/min) 0.39 ... 1.93

Operating pressure 0.39 ... 1.93
Operating pressure -0.9 ÷ 4 ... 12 bar
Operating temperature 0 ÷ 50 °C

Media filtered air, class [5:4:4] according to ISO 8573-1:2010 (max oil viscosity 32 cSt), inert gas - liquids (on demand)

Response time <15 ms Installation in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body brass - anodized aluminium - POM

Seals NBR - FKM - EPDM Internal parts stainless steel

ELECTRICAL FEATURES

Voltage 12 ... 24 V DC - other voltages on demand

Voltage tolerance 1 and 2 W ±10% - 4 W ±5%

Power consumption $1 \dots 4 W$

Duty cycleED 100% (1 and 2 W) - ED 50% (4W)Electrical connectionindustrial standard connector (9.4 mm)

Protection class IP65 with connector

Special versions available on demand

VOLTAGE - POWER CONSUMPTION

= with screws for metal P = with screws for plastics

= standard

OXI = for use with oxygen (non volatile residual less than 550 mg/m²)

OX2 = for use with oxygen (non volatile residual less than 33 mg/m²)

1 = 12 V DC - 1 W 2 = 12 V DC - 2 W 3 = 24 V DC - 1 W 5 = 24 V DC - 2 W 8 = 24 V DC - 4 W

FIXING

OPTIONS

3

CAMOZZI

CODING EXAMPLE



NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue of Series PD, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Direct and indirect acting 2/2 - 3/2-way solenoid valves, where you will find all compatible accessories as well.



Media separated solenoid valves Series PDV

2/2-way - Normally Closed (NC)



Series PDV direct acting solenoid valve is available with several nominal diameters and in three different versions according to the electrical connection.

Moreover, the fluid separation membrane protects the medium from extreme changes of temperature due to heating of the solenoid.

To choose the most suitable model for a specific application, check the chemical compatibility of the medium with the available materials of body and seals.

GENERAL DATA

TECHNICAL FEATURES

Function 2/2 NC

Operation direct acting with fluid separation membrane

Pneumatic connectionson subbaseOrifice diameter0.8 ... 2 mmFlow coefficient kv (l/min)0.25 ... 0.8Operating pressure0 ... 7 bar

Operating temperature 10 ÷ 50 °C (FKM/EPDM) / 20 ÷ 50 °C (FFKM)

Media inert or corrosive liquids and gases compatible with the materials in contact

Response time \$ 15 ms
Installation in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body PEEK

Seals FKM - EPDM - FFKM

ELECTRICAL FEATURES

Voltage 6 ... 24 V DC - other voltages on demand

Voltage tolerance±10%Power consumption2 WDuty cycleED 100%

Electrical connection industrial standard (9.4 mm), DIN EN 175 301-803-C (8 mm), 300 mm flying leads

Protection class IP65 with connector

Special versions available on request

C∢ CAMOZZI

CODING EXAMPLE

DDV	CO	1	22		D.7	7	_	N.		B.4	00	/- A	C023	
שעץ	CO	<u>T</u>	22	-	B/	5	G	N	-	M	00	4A	CU23	ı

PDV	SERIES
CO	BODY DESIGN CO = body with interface for subbase
1	NUMBER OF WAYS - FUNCTIONS 1 = 2/2-way - NC
22	PNEUMATIC CONNECTIONS 22 = PDV-type interface, 2-way
B7	ORIFICE DIAMETER $A7 = \emptyset \ 0.8 \ mm$ $B3 = \emptyset \ 1.2 \ mm$ $B7 = \emptyset \ 1.6 \ mm$ $C1 = \emptyset \ 2.0 \ mm$
3	SEAL MATERIAL 3 = FKM 4 = EPDM 5 = FFKM
G	BODY MATERIAL G = PEEK
N	MANUAL OVERRIDE N = not foreseen
M	FIXING M = fixing screws for metal
00	OPTIONS 00 = none
4A	ELECTRICAL CONNECTION 3A = DIN EN 175 301-803-C (8 mm) 3C = DIN EN 175 301-803-C (8 mm) with coil rotated 180° 4A = industrial standard form C (9.4 mm) 4C = industrial standard form C (9.4 mm) (9,4 mm) with coil rotated 180° 7A = 300 mm flying leads 7C = 300 mm flying leads with coil rotated 180°
C023	VOLTAGE - POWER CONSUMPTION CO17 = 6 V DC - 2 W CO20 = 12 V DC - 2 W CO23 = 24 V DC - 2 W
	OPTIONS = standard OX2 = for oxygen (non-volatile residue less than 33 mg / m2)

NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue of Series PDV, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Direct and indirect acting 2/2 - 3/2-way solenoid valves, where you will find all compatible accessories as well.



Direct acting solenoid valves Series A

2/2-way - Normally Closed (NC) and Normally Open (NO) 3/2-way - Normally Closed (NC) and Normally Open (NO)





Series A solenoid valves are of the direct acting type and can be used with dry or lubricated air. They are available in the 2/2 and 3/2-way versions with normally closed (NC) or normally open (NO) operation. As shown in the following tables, they are supplied in different versions according to the type of body, threaded ports and orifice. They can thus satisfy various operating and installation requirements.

The solenoid can be easily and quickly replaced without interfering with the pressurised part of the valve.
On the same mechanical part different types of solenoids can be interchanged.
The choice of solenoids determines the performance of the solenoid valve in terms of consumption and pressure.

GENERAL DATA

TECHNICAL FEATURES

Function 2/2 NC - 2/2 NO - 3/2 NC - 3/2 NO **Operation** direct acting poppet type

Pneumatic connections M5, G1/8, R1/8 threads - Ø4 fittings - CNOMO and manifold interface- Ø6 barb fittings

 Orifice diameter
 1.2 ... 2.5 mm

 Flow coefficient kv (l/min)
 0.62 ... 2.0

 Operating pressure
 -0.9 ... 15 bar

Operating temperature $0 \div 60 \degree \text{C} (-20 \degree \text{C} \text{ with dry air})$

Media filtered air, class [5:4:4] according to ISO 8573-1:2010 (max oil viscosity 32 cSt), inert gas

Response time ON <15 ms - OFF <25 ms **Installation** in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body nickel-plated brass - burnished brass - PA6 - PBT

Seals HNBR, FKM Internal parts stainless steel

ELECTRICAL FEATURES

 $\begin{array}{lll} \mbox{Voltage} & 12 \dots 110 \mbox{ V DC - 24 } \dots 380 \mbox{ V AC 50/60 Hz} \\ \mbox{Voltage tolerance} & \pm 10\% \mbox{ (DC)} \mbox{ / -15\% \div} + 10\% \mbox{ (AC)} \\ \mbox{Power consumption} & 3 \dots 5 \mbox{ W (DC)} \mbox{ / 3.5 } \dots 7 \mbox{ VA (AC)} \\ \end{array}$

Duty cycle ED 100% Insulation class F (155°C)

Electrical connection DIN EN 175 301-803-A - DIN EN 175 301-803-B

Protection class IP65 with connector

Special versions available on demand

CODING EXAMPLE

Α	3 3 1 - 0 C 2 - U7 7
Α	SERIES
3	BODY DESIGN 1 = 360° rotatable interface body (24x24 mm) 2 = fixed interface body (24x24 mm) 3 = threaded body 4 = threaded body with quick exhaust 5 = ISO interface body 6 = 360° rotatable interface body (16x16 mm) 7 = 360° rotatable interface body (21 mm) 8 = barb fittings connections body A = single manifold B = 2-part manifold C = 3-part manifold E = 5-part manifold E = 5-part manifold E = 5-part manifold E = 6-part manifold H = 8-part manifold K = 9-part manifold K = 9-part manifold K = 9-part manifold N = 11-part manifold N = 12-part manifold N = 12-part manifold N = 12-part manifold N = 12-part manifold N = 13-part manifold S = 15-part manifold
3	NUMBER OF PORTS 2 = 2 ways 3 = 3 ways
1	FUNCTION 1 = NC - normally closed 2 = NO - normally open 3 = NO IN-LINE* - normally open
0	PORTS 0 = M5 1 = G1/8 3 = M5-R1/8 4 = M5-R1/8 with manual override A = O-Rings rotatable interface B = O-Rings fixed interface C = G1/8-fittings Ø4 mm F = Ø6 mm barb fittings
С	ORIFICE DIAMETER C = Ø 1.2 - 1.4 - 1.5 mm D = Ø 2.0 mm E = Ø 2.5 mm
2	BODY MATERIAL 2 - nickel-plated bross - burnished bross - aluminium

SOLENOIDS - OVERMOLDING MATERIAL / SIZE

U7 = PET / 22 mm - solenoids available in standard version and in ATEX version for Zones 2-22

G7 = PAG6 / 22 mm

G9 = PA66 / 22 mm - solenoid for bistable function (not available for 2/2 NO function)

A8 = PPS / 30 mm

H8 = PA6 V0 / 30 mm - solenoids ATEX version for Zones 1-21

2 = nickel-plated brass - burnished brass - aluminium 3 = PA6 - PBT technopolimers

VOLTAGE - POWER CONSUMPTION See the U7 / G7 solenoids section

NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue of Series A, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Direct and indirect acting 2/2 - 3/2-way solenoid valves, where you will find all compatible accessories as well.

^{* 3/2} NO IN-LINE version: port position 1 - 2 - 3 are identical to port positions of 3/2 NC versions



PRESSURE RANGES AND SOLENOIDS - VALVES BODY MATCHING TABLE

For vacuum applications:

2/2-way function connect the suction source to port 2 3/2-way function connect the suction source to port 1

Mod.	Min ÷ max working pressure (bar) allowed with solenoids DC >3 W	Min ÷ max working pressure (bar) allowed with solenoids DC >4 W	Min ÷ max working pressure (bar) allowed with solenoids AC >3.5 VA
Function 2/2 NC	-	0.0.45	0.0.45
A321-0C2-*	-0.9 ÷ 8	-0.9 ÷ 15	-0.9 ÷ 15
A321-1C2-*	-0.9 ÷ 8	-0.9 ÷ 15	-0.9 ÷ 15 -0.9 ÷ 9
A321-1D2-*	-0.9 ÷ 4	-0.9 ÷ 9	*** **
N321-1E2-*	-0.9 ÷ 1	-0.9 ÷ 6	-0.9 ÷ 6
A821-FE3-*	-0.9 ÷ 1	-0.9 ÷ 6	-0.9 ÷ 6
	-	<u>-</u>	-
unction 2/2 NO	<u> </u>	<u> </u>	<u> </u>
A322-0C2-*	2 ÷ 10	-0.9 ÷ 10	-0.9 ÷ 10
N322-1C2-*	2 ÷ 10	-0.9 ÷ 10	-0.9 ÷ 10
	-	-	-
unction 3/2 NC	-	-	-
\131-AC2-*	-	-	-
231-BC2-*	-	-	-
331-0C2-*	2÷10	-0.9 ÷ 10	-0.9 ÷ 10
331-102-*	2 ÷ 10	-0.9 ÷ 10	-0.9 ÷ 10
\331-1D2-*	<u> </u>	-0.9 ÷ 6	-0.9 ÷ 6
331-1E2-*	-	-0.9 ÷ 4	-0.9 ÷ 4
331-3C2-*	2 ÷ 10	-0.9 ÷ 10	-0.9 ÷ 10
331-4(2-*	2 ÷ 10 2 ÷ 10	-0.9 ÷ 10	-0.9 ÷ 10
431-102-*	2 ÷ 10 2 ÷ 10	-0.9 ÷ 10 2 ÷ 10	2 ÷ 10
.531-BC2-*	2 ÷ 10	-0.9 ÷ 10	-0.9 ÷ 10
.631-AC2-*	2 ÷ 10	-0.9 ÷ 10	-0.9 ÷ 10
731-AC2-*	2 ÷ 10	-0.9 ÷ 10	-0.9 ÷ 10
831-FE3-*	-	-0.9 ÷ 4	-0.9 ÷ 4
A31-0C2-*	2 ÷ 10	-0.9 ÷ 10	-0.9 ÷ 10
A31-0C3-*	2 ÷ 8	-0.9 ÷ 8	-0.9 ÷ 8
A31-CC2-*	2 ÷ 10	-0.9 ÷ 10	-0.9 ÷ 10
A31-CC3-*	2 ÷ 8	-0.9 ÷ 8	-0.9 ÷ 8
	-	-	-
unction 3/2 NO	-	-	-
N332-0C2-*	-0.9 ÷ 7	-0.9 ÷ 7	-0.9 ÷ 7
N332-1C2-*	-0.9 ÷ 7	-0.9 ÷ 7	-0.9 ÷ 7
NA32-0C2-*	-0.9 ÷ 7	-0.9 ÷ 7	-0.9 ÷ 7
MA32-0C3-*	-0.9 ÷ 7	-0.9 ÷ 7	-0.9 ÷ 7
M32-003-	-0.9 ÷ 7	-0.9 ÷ 7	-0.9 ÷ 7
M32-CC3-*	-0.9 ÷ 7	-0.9 ÷ 7	-0.9 ÷ 7
M32-CC3-	-0.9 - 7		
		<u> </u>	-
Function 3/2 NO IN-LINE	-	<u>-</u>	-
A333-0C2-*	-0.9 ÷ 6	-	-0.9 ÷ 9
\333-1C2-*	-0.9 ÷ 6	-	-0.9 ÷ 9
A33-0C2-*	-0.9 ÷ 6	<u> </u>	-0.9 ÷ 9
A33-0C3-*	-0.9 ÷ 6	-	-0.9 ÷ 8
A33-CC2-*	-0.9 ÷ 6	-	-0.9 ÷ 9
A33-CC3-*	-0.9 ÷ 6	-	-0.9 ÷ 8
	-	-	-
olenoids for functions 2/2 NC - 2/2 NO - 3/2	NC - 3/2 NO		-
2 V DC - 3.1 W	G7H - U7H - U7HEX	-	-
4 V DC - 3.1 W	G77 - U77 - U77EX	-	-
8 V DC - 3.1 W	G79 - U79 - U79EX	-	-
10 V DC - 3.2 W	G710 - U710 - U710EX	-	-
V DC - 5.1 W		U71 - U71EX	-
	-		- -
2 V DC - 5 W		G72 - U72 - U72EX	
4 V DC - 5 W	-	G73 - U73 - U73EX	-
8 V DC - 5.3 W	-	U74 - U74EX	-
2 V DC - 4.8 W	-	G7K - U7K - U7KEX	-
10 V DC - 4.2 W	-	G76 - U76 - U76EX	-
8 V 50/60 Hz - 3.8 VA	-	-	G77 - U77 - U77EX
10 V 50/60 Hz - 3.8 VA	-	-	G7K - U7K - U7KEX
25 V 50/60 Hz - 5.5 VA	-	-	G7K - U7K - U7KEX
30 V 50/60 Hz - 3.5 VA	-	-	G7J - U7J - U7JEX
40 V 50/60 Hz - 4 VA	-	-	G7J - U7J - U7JEX
	-	-	-
olenoids for 3/2 NO IN-LINE functions	-	-	-
		-	-
2 VDC - 3.1 W	G7H1 - U7H1		
24 V DC - 3.1 W	U771 - U771EX		-
'2 V DC - 5.6 W	<u>-</u>	G7K1 - U7K1 - U7K1EX	<u>-</u>
8 V 50/60 Hz - 3.8 VA	-	-	G771 - U771 - U771EX
.10 V 50/60 Hz - 5.8 VA	-	-	G7K1 - U7K1 - U7K1EX

Note: for AC voltages, the indicated pressure ranges refer to 50 Hz frequency.

Please contact our technical dept. for use with 60Hz frequency.



2/2-way - Normally Closed (NC)

3/2-way - Normally Closed (NC), Normally Open (NO)





Series 6 solenoid valves are available as 2/2 and 3/2-way, either NC or NO. These direct acting solenoid valves can be used either with or without lubrication.

The bodies of these valves can be used either individually or in manifolds.
The latter are provided with G1/8 threaded ports or an inbuilt diameter 4 cartridge (G3/8 for 2-way only).

GENERAL DATA

TECHNICAL FEATURES

Function2/2 NC - 3/2 NC - 3/2 NOOperationdirect acting poppet type

Pneumatic connections G1/8, G3/8 threads - Ø4 fitting - CNOMO interface

 Orifice diameter
 2 ... 4 mm

 Flow coefficient kv (l/min)
 1.2 ... 5.4

 Operating pressure
 0 ÷ 4 ... 15 bar

Operating temperature $0 \div 60 \,^{\circ}\text{C} \text{ (FKM seals)} / -50 \div 50 \,^{\circ}\text{C} \text{ (NBR seals)}$

Media filtered air, class [5:4:4] (5.1.4 for versions -50°C) according to ISO 8573-1:2010 (max oil viscosity 32 cSt),

Response time inert gas ON <15 ms - OFF <15 ms

Installation in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body nickel-plated brass - anodized aluminium

Seals FKM (NBR for versions -50 °C)

Internal parts stainless steel

ELECTRICAL FEATURES

Voltage 12 ... 110 V DC - 24 ... 230 V AC 50/60 Hz

Voltage tolerance $\pm 10\%$ (DC) - $+10\% \div -15\%$ (AC)

Power consumption 10 W (DC) - 19 VA (inrush AC), 12 VA (holding AC)

Duty cycle ED 100% Insulation class H (180°C)

Electrical connection connector DIN EN 175 301-803-A

Protection class IP65 with connector

Special versions available on demand



CODING EXAMPLE

			1		1							
6	3	8		M		-	105	-	Α	6	В	
6	SERIES											
3	NUMBER OF 0 = interface 2 = 2/2-way 3 = 3/2-way 4 = 3/2-way	/ - NC / - NC	ICTIONS									
8	CONNECTION 0 = interface 3 = G3/8 8 = G1/8 C = cartridge	2										
М	M = manifol	d										
105	15E = thread 15F = thread 15G = thread 450 = rotata 45E = rotata 45T = fixed 101 = single 102 = manif 103 = manif 104 = manif 107 = manif 108 = manif 109 = manif 110 = manif 111 = manif 112 = manif 113 = manif 114 = manif	ded body G1/8 ded body G3/8 ded body G3/8 ded body G3/8 able interface b ble interface b interface body	orifice Ø orifice Ø orifice Ø ody - Ø 2 r ody - Ø 2.5	2.5 mm 3 mm 4 mm nm orifice 5 mm orific								
Α	COIL MATERI A = PPS	AL										
6	SOLENOID D 6 = 32x32	IMENSIONS										
В	B = 24 V 50/ C = 48 V 50/ D = 110 V 50	- 10 W - 10 W - 10 W - 10 W	PTION									
	VERSIONS = standar LT = for low	d temperatures										

NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue of Series 6, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Direct and indirect acting 2/2 - 3/2-way solenoid valves, where you will find all compatible accessories as well.

CAMOZZI



2/2-way - Normally Closed (NC) and Normally Open (NO) 3/2-way - Normally Closed (NC)



For general applications, solenoid valves Series CFB are available in 2/2-way NC and NO version, while 3/2-way is only available in NC version.

Special versions are available on demand for the protection against the water hammer or with specific traitments for the interception of aggressive fluids. The valve function is determined by a poppet or by a diaphragm with operation direct or indirect.

Different versions are available according to the nominal diameter and to the threaded ports, as shown in the following tables. They can thus satisfy various requirements in terms of flow rates and working pressures.

GENERAL DATA

TECHNICAL FEATURES

Function 2/2 NC - 2/2 NO - 3/2 NC

Operation direct acting poppet type - servo-assisted with diaphragm

Pneumatic connections G1/8 ... G2 threads
Orifice diameter 1.4 ... 50 mm
Flow coefficient Kv (m³/h) 0.14 ... 45
Operating pressure 0 ÷ 0.8 ... 22 bar
Operating temperature −10 ÷ 90 ... 140 °C

Media air, water, liquid and gaseous fluids with max viscosity 37 cSt (5° E)

 Response time
 ON <15 ms - OFF <25 ms</th>

 Installation
 in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Bodybrass (alimentary or anti-limestone nickel-platings on demand)SealsNBR (CFB-A, CFB-E) - FKM (CFB-B, CFB-D) - EPDM (on demand)Internal partsstainless steel - stainless steel and brass (CFB-D1)

ELECTRICAL FEATURES

Voltage 12 V DC, 24 V DC - 24 V 50 Hz, 110 V 50/60 Hz, 220/230 V 50/60 Hz

Voltage tolerance $\pm 5\%$ (DC) - $\pm 10\%$ (AC)

Power consumption 10 ... 30 W (DC) - 9 ... 29 VA (AC)

Duty cycle ED 100% Insulation class H (180°C)

Electrical connection industry standard form B - DIN EN 175 301-803-A

Protection class IP65 with connector

Special versions available on demand

It is recommended to use connections with internal diameters bigger than valve orifices, otherwise there may be a performance change.

3 = 24 V DC



CODING EXAMPLE

CFB	_	Α		1	3			_	R	1	_	В7	Е
CID			1	_		•	-		N			D1	_
CFB	SERIES												
Α	D = direct	th linked diapl with coil for he		applicatio	ns								
1	NUMBER OF N 1 = 2/2-way 2 = 2/2-way 3 = 3/2-way	- NC	NS										
3	CONNECTION 1 = G1/8 2 = G1/4 3 = G3/8 4 = G1/2 5 = G3/4 6 = G1 7 = G1 1/4 8 = G1 1/2 9 = G2	S											
L	ORIFICE DIAM A = 1.4 mm B = 2 mm C = 2.5 mm D = 2.8 mm F = 4 mm G = 6 mm J = 8 mm L = 11.5 mm M = 13 mm N = 13.5 mm P = 18 mm R = 26 mm T = 32 mm Z = 45 mm Z = 50 mm												
R	SEALS MATER R = NBR W = FKM E = EPDM (or												
1		IAL ary anti-limesto ary nickel-plate				temperatur	res (on de	mand)					
В7	SOLENOID DI B7 = 22 mm B8 = 30 mm B9 = 36 mm												
E	SOLENOID VC B = 24 V AC 5 D = 110 V AC E = 230 V AC 2 = 12 V DC 3 = 24 V DC	0 Hz 50/60 Hz											

NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue of Series CFB, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Direct and indirect acting 2/2 - 3/2-way solenoid valves, where you will find all compatible accessories as well.

C∢ CAMOZZI



For solenoids and their connectors see the dedicated section. Coil mod. B8... / B9... - DIN EN 175 301-803-A = connector mod. 124-... Coil mod. B7... - DIN EN 175 301-803-B = connector mod. 122-...

Mod.	24V AC 50 Hz	110V AC 50/60 Hz	220/230V AC 50/60 Hz	12V DC	24V DC
Direct acting solenoid valve, 2/2 NC - 2/2 NO - 3/2 NC					
FB-D21C-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
FB-D21F-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
FB-D22C-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
FB-D22F-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
FB-D22G-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
FB-D23J-*	B9B (29VA)	B9D (29VA)	B9E (29VA) **	not available	B93 (30W)
CFB-D24J-*	B9B (29VA)	B9D (29VA)	B9E (29VA) **	not available	B93 (30W)
FB-D24M-*	B9B (29VA)	B9D (29VA)	B9E (29VA) **	not available	not available
CFB-D11A-*	B8BK (15VA)	B8DK (15VA)	B8EK (15VA)	B82K (19W)	B83K (19W)
CFB-D12D-*	B8BK (15VA)	B8DK (15VA)	B8EK (15VA)	B82K (19W)	B83K (19W)
CFB-D13J-*	B8BK (15VA)	B8DK (15VA)	B8EK (15VA)	non disponibile	non disponibile
	B8B (15VA)	B8D (15VA)	B8EK (15VA)	B82 (19W)	B83 (19W)
CFB-D31D-*	B8B (15VA)	B8D (15VA)	B8EK (15VA)	B82 (19W)	B83 (19W)
CFB-D32A-*	B8B (15VA)	B8D (15VA)	B8EK (15VA)	B82 (19W)	B83 (19W)
CFB-D32D-*	B8B (15VA)	B8D (15VA)	B8EK (15VA)	B82 (19W)	B83 (19W)
Direct acting solenoid valve					
with constrained diaphragm, 2/2 NC	DOD (2012)	POD (2011)	POE (201/4)	mak	B07 /7011
FB-B23L-*	B9B (29VA)	B9D (29VA)	B9E (29VA)	not available	B93 (30W)
FB-B24N-*	B9B (29VA)	B9D (29VA)	B9E (29VA)	not available	B93 (30W)
CFB-B25P-*	B9B (29VA)	B9D (29VA)	B9E (29VA)	not available	B93 (30W)
CFB-B26R-*	B9B (29VA)	B9D (29VA)	B9E (29VA)	not available	B93 (30W)
Indirect acting solenoid valve, 2/2 NC					
CFB-A23L-*	B7B (9VA) *	B7D (9VA)	B7E (9VA)	B72 (10W)	B73 (10W)
CFB-A24N-*	B7B (9VA) *	B7D (9VA)	B7E (9VA)	B72 (10W)	B73 (10W)
CFB-A25P-*	B7B (9VA) *	B7D (9VA)	B7E (9VA)	B72 (10W)	B73 (10W)
CFB-A26R-*	B7B (9VA) *	B7D (9VA)	B7E (9VA)	B72 (10W)	B73 (10W)
CFB-A27T-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-A28X-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-A29Z-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
Indirect acting solenoid valve, for heavy-duty applications, 2/2 NC					
CFB-E23L-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-E24N-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-E25P-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
FB-E26R-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
FB-E27T-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-E28X-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-E29Z-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
Indirect acting solenoid valve,					
2/2 NO CFB-E13L-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-E14N-*					B83 (19W)
	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	
FB-E15P-* FB-E17T-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-E16R-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-E18X-*	B9B (29VA)	B9D (29VA)	B9E (29VA)	not available	B93 (30W)
CFB-E19Z-*	B9B (29VA)	B9D (29VA)	B9E (29VA)	not available	B93 (30W)
	* B7B solenoid with nominal bifrequency		** only to be used with nominal frequency of 50 Hz		





Stainless steel solenoid valves Series CFB

2/2-way - Normally Closed (NC) 3/2-way - Normally Closed (NC)



Series CFB Stainless Steel direct acting solenoid valves for general purpose, 2/2-way and 3/2-way NC, are the ideal solution for a wide range of applications whereby the environment and fluids used can be particularly aggressive and contaminating.

Special versions are available on demand.

The valve function is determined by a poppet and the operation is direct.
Different versions are available according to the nominal diameter and to the threaded ports, as shown in the following tables.
They can thus satisfy various requirements in terms of flow rates and working pressures.

GENERAL DATA

TECHNICAL FEATURES

Function 2/2 NC - 3/2 NC
Operation direct acting poppet type
Pneumatic connections 61/8 ... G1/2 threads
Orifice diameter 1.5 ... 4 mm
Flow coefficient Kv (m³/h) 0.08 ... 0.28
Operating pressure 0 + 4 ... 25 bar
Operating temperature -10 ÷ 140 °C

Media air, water, liquid and gaseous fluids with max viscosity 37 cSt (5° E)

Response time ON <15 ms - OFF <25 ms Installation in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Bodystainless steel 316LSealsFKM - EPDMInternal partsstainless steel

ELECTRICAL FEATURES

Voltage 12 V DC, 24 V DC - 24V AC 50 Hz, 110 V AC 50/60 Hz, 220/230 V AC 50/60 Hz

 Voltage tolerance
 ±5% (DC) - ±10% (AC)

 Power consumption
 19 W (DC) - 15 VA (AC)

Duty cycleED 100%Insulation classH (180°C)

Electrical connection DIN EN 175-301-803-A connector

Protection class IP65 with connector

Special versions available on demand

It is recommended to use connections with internal diameters bigger than valve orifices, otherwise there may be a performance change.



CODING EXAMPLE

CFB	- D 2 1 A - W X - B8 E
CFB	SERIES
D	OPERATION D = direct
2	NUMBER OF WAYS - POSITIONS 2 = 2/2-way - NC 3 = 3/2-way - NC
1	CONNECTIONS 1 = G1/8 2 = G1/4 3 = G3/8 4 = G1/2
Α	ORIFICE DIAMETER A = 1.5 mm B = 2 mm C = 2.5 mm E = 3 mm F = 4 mm
W	SEALS MATERIAL W = FKM E = EPDM
X	BODY MATERIAL X = 316L stainless steel
B8	SOLENOID DIMENSION B8 = 30 mm
E	VOLTAGE - POWER CONSUMPTION B = 24 V 50/60 Hz - 15 VA D = 110 V 50/60 Hz - 15 VA E = 230 V 50/60 Hz - 15 VA 2 = 12 V DC - 19 W 3 = 24 V DC - 19 W

NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue of Series CFB, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Direct and indirect acting 2/2 - 3/2-way solenoid valves, where you will find all compatible accessories as well.

TABLE FOR THE COUPLING BETWEEN SOLENOIDS AND VALVES

For solenoids and their connectors see the dedicated section. Coil mod. B8... - DIN EN 175 301-803-A = connector mod. 124-...

* = complete the code according to coding example

Mod.	24V AC 50 Hz	110V AC 50/60 Hz	220/230V AC 50/60 Hz	12V DC	24V DC
CFB-D21A-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D21B*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D21C-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D22B-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D22C-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D22E-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D23E-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D23F-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D24E-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D24F-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D32A-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D32B-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D32C-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D32E-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)



Pneumatic operated cartridge valves Series 8

2/2-way - Normally Closed (NC) 3/2-way - Normally Closed (NC)









Series 8 pneumatic operated valves are particularly suitable for applications requiring high flow combined wtih compact design.

The valve is pneumatic operated by electro-pilots which are dimensioned according to the size.

The cartridge design, which is ideal for manifold assembly, allows to reduce both dimensions and the number of pneumatic connections.

The standard function of the valve is 2/2-way NC. It can however fulfill the 3/2-way NC function if inserted in a proper seat.

GENERAL DATA

TECHNICAL FEATURES

Function 2/2 NC - 3/2 NC

 Operation
 pneumatic operated poppet type

 Pneumatic connections
 cartridge seat in manifold

Orifice diameter 5 ... 9 mm

Nominal flow 420 ... 1480 Nl/min (air at 6 bar ΔP 1 bar)

Flow coefficient kv (l/min) 6.5 ... 23

Operating pressure $3 \div 6$ bar $(0 \div 6$ bar with external pilot supply)

Piloting pressure 3 ÷ 6 bar Operating temperature 0 ÷ 50 °C

Media filtered air, class [5:4:4] according to ISO 8573-1:2010 (max oil viscosity 32 cSt), inert gas, oxigen

Installation in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body PPS - brass Internal parts aluminium Seals FKM



C∢ CAMOZZI



8 10 C5 1 00 - F1 3 2 - OX2

8	SERIES
10	SIZE 10 = size 1 - Ø 10.0 mm 20 = size 2 - Ø 14.5 mm 30 = size 3 - Ø 22.0 mm
C5	BODY DESIGN C5 = cartridge
1	NUMBER OF WAYS - FUNCTIONS 1 = 2/2 or 3/2-way - NC NOTE: the function 2/2 o 3/2-way depends on the seat used
00	PNEUMATIC CONNECTIONS 00 = cartridge
F1	ORIFICE DIAMETER F1 = Ø 5.0 mm - size 1 only G7 = Ø 6.6 mm - size 2 only K1 = Ø 9.0 mm - size 3 only
3	SEAL MATERIAL 3 = FKM
2	BODY MATERIAL 2 = brass B = PPS
OX2	OX2 = for use with oxygen (non volatile residual less than 33 mg/m2) NOTE: the OX2 suffix must be added also in case of use with air/gas.

NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue of Series 8, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Solenoid, pneumatic and manifold valves, where you will find all compatible accessories as well.



Pneumatically and electropneumatically operated valves Series 8

2/2-way - Normally Closed (NC) 3/2-way - Normally Closed (NC)













The Series 8 enlarges the range of versions available with the cartridge valve directly integrated in an anodized aluminium body comprising also the pilot solenoid valve. The new bodies enable to have pneumatically operated versions with external piloting or electropneumatically operated versions with both external and internal piloting.

GENERAL DATA

TECHNICAL SPECIFICATIONS

2/2 NC - 3/2 NC

pneumatic or electropneumatic Operation

Pneumatic connections G1/8 - G1/4 - G3/8 Nominal diameter 5 ... 9 mm Flow coefficient kv (l/min)

Nominal flow 420 ... 1480 Nl/min (air at 6 bar ΔP 1 bar) Operating pressure 3 ÷ 6 bar (0 ÷ 6 bar with external pilot supply)

External pilot pressure Operating temperature

filtered air class [5:4:4] according to ISO 8573-1:2010 (oil viscosity max. 32 cSt), inert gases

Response times ON <10 ms - OFF <10 ms

Installation any position

MATERIALS IN CONTACT WITH FLUID

Body aluminium Seals Internal parts

aluminium - brass

ELECTRICAL SPECIFICATIONS

Voltage 24 V DC - other voltages on demand Voltage tolerance Size 1 = $\pm 10\%$ - Size 2 and 3 = -10% +15%

Size 1 = 1.3 W (inrush) 0.25 W (holding) - Size 2 and 3 = 2 W **Power consumption**

Duty cycle ED 100%

connectors - 300 mm flying leads **Electrical connection**

Protection class Size 1 = IP50 - Size 2 and 3 = IP65 (with connector) OPTIONS

VERSION = standard

00 = no option

ELECTRICAL CONNECTION

PP = pneumatic piloting
PE = electropilot with external piloting

VOLTAGE - POWER CONSUMPTION C012 = 12V DC - 1.3/0.25W (size 1) C014 = 24V DC - 1.3/0.25W (size 1)

C020 = 12V DC - 2W (size 2 - 3) C023 = 24V DC - 2W (size 2 - 3) C025 = 48V DC - 2W (size 2 - 3)

2C = KN 90° type + protection + led - only for size 1 2F = KN in line type + protection + led - only for size 1

3A = DIN EN 175 301-803-C (8 mm) - only for size 2 and 3 4A = industrial standard (9.4 mm) - only for size 2 and 3 7A = 300 mm flying leads - only for size 2 and 3

0X1 = for use with oxygen (non volatile residual less than 550 mg/m²) 0X2 = for use with oxygen (non volatile residual less than 33 mg/m²)

00

2C

C014

CAMOZZI

CODING EXAMPLE



NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue of Series 8, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Solenoid, pneumatic and manifold valves, where you will find all compatible accessories as well.



Shut-off micro-valves Series TC

2/2-way - Normally Closed (NC)





The principle of the Series TC1-V shut-off micro-valves is based on the actuation of a poppet by means of an operating pressure applied above it.

The poppet, once actuated, moves away from the tightening seal, permitting the flow of the intercepted fluid.

By removing the actuation pressure, the poppet repositions itself on the tightening seal by means of a spring positioned below that closes the flow of the fluid.

For its realization the most suitable materials for contact with fluids were selected. The body in PPS and the FKM tightening seals guarantee full compatibility with a wide range of gaseous fluids.

GENERAL DATA

Construction	compact with pre-formed diaphragm
Ports	cartridge construction in manifold - G1/8 or 1/8NPTF (only for aluminium body version)
Mounting	in-line or cartridge (any position)
Operating temperature	-5°C ÷ 50°C
Inlet pressure	0 ÷ 10 bar
Pilot pressure	$0.6 \div 10$ bar
Nominal flow	240 Nl/min (6 bar ΔP 1 bar)
Medium	air, inert/medical gases and oxygen

C∢ CAMOZZI



CODING EXAMPLE

TC	1 - V 36 -	C -	V - OX2
TC	SERIES		
1	SIZE		
V	VALVE		
36	CONSTRUCTION 36 = pneumatic command		
C	PORTS C = Cartridge 1/8 = G1/8 1/8TF = 1/8NPTF		

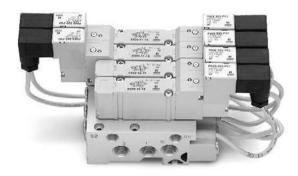
SEALS MATERIAL V = FKM V VERSIONS **OX2** OX1 = for oxygen (non-volatile residue lower than 550 mg/m²) OX2 = for oxygen (non-volatile residue lower than 33 mg/m²)

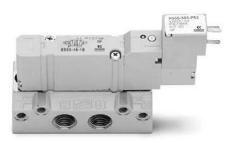
NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue of Series TC, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Solenoid, pneumatic and manifold valves, where you will find all compatible accessories as well.



Valves and solenoid valves Series E

5/2-way monostable/bistable - 5/3 CC, CO, CP With outlets on the body - For individual or manifold assembly Size 10,5 mm





CODING EXAMPLE - THREADED BODY

Ε	5	2	1	-	11	-	10	-	K	1	3
	SERIES										

FUNCTION 5 5 = 5/2

6 = 5/3 Centres Closed 7 = 5/3 Centres Open

8 = 5/3 Centres in Pressure

2 2 = 10,5 mm

BODY TYPE 1

ACTUATION 11 = electro-pneumatic, bistable

16 = electro-pneumatic, monostable 33 = pneumatic bistable - tube 3

36 = pneumatic monostable - tube 4

C33 = pneumatic bistable - tube 4

C36 = pneumatic monostable - tube 4

INTERFACE 10

TYPE OF SOLENOID K

SOLENOID DIMENSION 1 = 10x10

SOLENOID VOLTAGE 1 = 6V DC

2 = 12V DC

3 = 24V DC

NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue of Series E, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Solenoid, pneumatic and manifold valves, where you will find all compatible accessories as well.

VALVES AND SOLENOID VALVES







CODING EXAMPLE - BODY FOR SUB-BASE

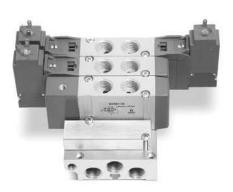
E	5 2 0 - 11 - 10 - K 1 3
E	SERIES
5	FUNCTION 5 = 5/2 6 = 5/3 Centres Closed 7 = 5/3 Centres Open 8 = 5/3 Centres in Pressure
2	SIZE 2 = 10,5 mm
0	BODY TYPE 0 = body for sub-base
11	ACTUATION 11 = electropneumatic bistable 16 = electropneumatic monostable 33 = pneumatic monostable - tube Ø 3 36 = pneumatic monostable - tube Ø 3 C33 = pneumatic bistable - tube Ø 4 C36 = pneumatic monostable - tube Ø 4
10	INTERFACE 10
K	TYPE OF SOLENOID K
1	SOLENOID DIMENSIONS 1 = 10×10
3	SOLENOID VOLTAGE 1 = 6V DC 2 = 12V DC 3 = 24V DC

NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue of Series E, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Solenoid, pneumatic and manifold valves, where you will find all compatible accessories as well.



Valves and solenoid valves Series EN

5/2-way - 5/3-way CC, CO, CP With outlets on the body - For individual or manifold assembly Size 16 - 19 mm





Camozzi has developed a new series of valves to be used in applications requiring a reduced space of installation and in situations where the valves need to be located as near as possible to the operating elements.

The single valves can be mounted on any flat surface, allowing compact machine design, which is also enhanced by the reduced dimensions of the valve itself. Thanks to their robust aluminium bodies, the valves Series EN offer the highest reliability.

This new generation of solenoid valves is the evolution of the previous Series E, size 16 - 19 mm valve with ports threaded into the body.

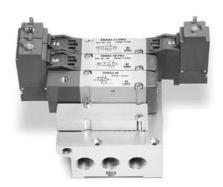
As this valve is completely interchangeable with Series E, part of the code is maintained though the valve has a completely new shape and new components.

CODING EXAMPLE - THREADED BODY

EN	5	3	1	-	11	_	PN3
EN	SERIES						
5	FUNCTION 5 = 5/2 6 = 5/3 Centre Close 7 = 5/3 Centre Oper 8 = 5/3 Pressure Cen	า					
3	SIZE 3 = size 16 5 = size 19						
1	BODY TYPE 1 = threaded						
11		natic, monostable table		ply			
PN3	TYPE OF SOLENOID PN3 = 24V DC - 1W P13 = 24V DC - 1W PN4 = 48V DC - 2W PN6 = 110V DC - 2W PN7 = 230V - 2W P53 = 24V DC - 2W P54 = 48V DC - 2W W53 = 24V DC - 2W W54 = 48V DC - 2W						
	In case of application	ons with alternate curren	t, use a bridge rectifier c	onnector			

NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue of Series EN, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Solenoid, pneumatic and manifold valves, where you will find all compatible accessories as well.







CODING EXAMPLE - BODY FOR SUB-BASE

EN	5	3	0	-	11	-	PN3
EN	SERIES						
5	FUNCTION 5 = 5/2 6 = 5/3 Centre Close 7 = 5/3 Centre Oper 8 = 5/3 Pressure Cer	ı					
3	SIZE 3 = size 16 5 = size 19						
0	BODY TYPE 0 = body for sub-ba	se					
11		natic, monostable table nostable matic, bistable with ext	ernal servo-pilot supply external servo-pilot sup				
PN3	TYPE OF SOLENOID PN3 = 24V DC - 1W PN4 = 48V DC - 2W PN6 = 110V DC - 2W PN7 = 230V - 2W P13 = 24V DC - 1W P54 = 48V DC - 2W W53 = 24V DC - 2W W54 = 48V DC - 2W						
	In case of application	ons with alternate curre	nt, use a bridge rectifier	connector			

NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue of Series EN, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Solenoid, pneumatic and manifold valves, where you will find all compatible accessories as well.

GENERAL DATA

Construction	spool-type
Valve functions	5/2 - 5/3 CC - 5/3 CO - 5/3 CP
Materials	body, spool, bases = AL end-covers = tecnnopolymer joints = NBR PU
Ports	G1/8 - G1/4
Temperature	0°C min. + 50° C max
Fluid	filtered air without lubricant. If lubricated air is used, it is recommended to use ISOVG32 oil and to never interrupt lubrication.
Voltage tolerance	± 10%
Power consumption	2W, 1W
Class of insulation	class F
Protection class	IP65 with connector DIN 40050



6



Valves and solenoid valves VA version Series D

3/2; 2x3/2; 5/2; 5/3-way With outlets on the body - For individual or manifold assembly Size 10,5 - 16 - 25 mm













Camozzi has developed a new series of valves for applications with limited installation space where it is necessary to have the control elements as close to the actuator as possible. Valves with threads on the body can be used individually or assembled on manifold.

The sub-base version allows a better cleaning of the application. Thanks to the extreme robust aluminium body, the Series D valves quarantee maximum reliability even under difficult operating conditions.

GENERAL DATA

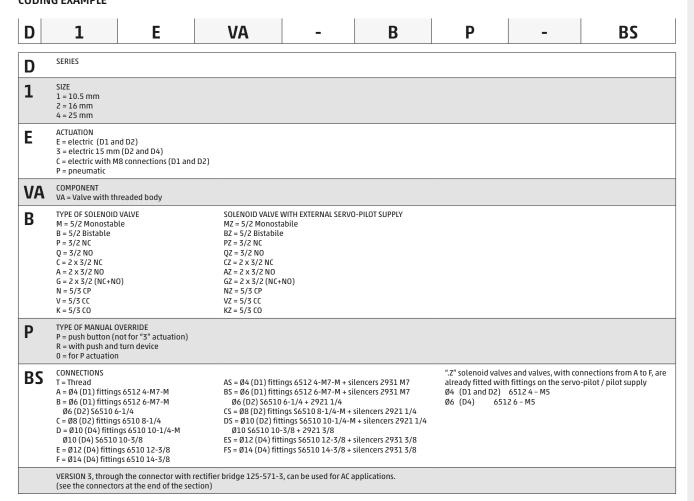
Valve construction spool-type Valve functions 3/2 NC/NO; 2x3/2 NC/NO/NC+NO; 5/2; 5/3 CC/CO/CP Materials body, spool, bases = AL; end caps = technopolymer; seals = HNBR M7 - G1/4 - G3/8 Ambient temperature 0°C min. + 50° C max Medium compressed, filtered and non-lubricated air in class [7:4:4] according to ISO 8573-1:2010. In case lubrication should be necessary, only use oils with a maximum viscosity of 32 Cst and the version with external servo pilot. The air quality for the servo pilot should be of class [7:4:4] according to ISO 8573-1:2010 Voltage 24V DC Voltage tolerance ± 10% Power consumption 1W Class of insulation class F Protection class IP65 with EN 175301 C connector ("3" actuation. Ex DIN 43650)*

IP65 with M8 connector ("C" actuation)* IP40 with micro connector ("E" actuation)*

*See coding example

C< CAMOZZI





NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue of Series D, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Solenoid, pneumatic and manifold valves, where you will find all compatible accessories as well.





CODING EXAMPLE MANIFOLD WITH VALVES AND FITTINGS

DO	A	1	E	P	-	MBMXCVB	-	3BX2AB	-	CSL	-	R	
----	----------	---	---	---	---	---------	---	--------	---	-----	---	---	--

DC	SERIES		
A	MANIFOLD WITH VALVES A = For type VA valve		
1	SIZE/DIMENSION 1 = 10.5 mm 2 = 16 mm 4 = 25 mm		
E	ACTUATION E = Electric (D1 and D2) - 3 = Electric with solenoid 15 mm (D2 and D4) -	· C = Electric with M8 connector (D1 and D2)	- P = Pneumatic
P	TYPE OF MANUAL OVERRIDE $P=$ push button (not for "3" actuation) - $R=$ with push and turn device -	0 = without manual override (for "P" actual	tion)
MBMXCVB	TYPE OF VALVE / SOLENOID VALVE M = 5/2 Monostable B = 5/2 Bistable C = 2 × 3/2 NC A = 2 × 3/2 NO G = 2 × 3/2 (NC + NO) V = 5/3 CC K = 5/3 CO N = 5/3 CP L= Free position X = Additional supply and exhaust Y = Additional supply and exhaust with silencer	SOLENOID VALVE WITH EXTERNAL SERV MZ = 5/2 Monostable BZ = 5/2 Bistable CZ = 2 x 3/2 NC AZ = 2 x 3/2 NO GZ = 2 x 3/2 (NC + NO) VZ = 5/3 CC KZ = 5/3 CO NZ = 5/3 CP	O-PILOT SUPPLY
3BX2AB	CONNECTIONS ON VALVE POSITIONS T = Thread A = Ø4 (D1) Fittings 6512 4-M7-M B = Ø6 (D1) Fittings 6512 6-M7-M C = Ø8 (D2) Fittings S6510 8-1/4 D = Ø10 (D2) Fittings S6510 10-1/4 E = Ø12 (D4) Fittings S6510 12-3/8 F = Ø14 (D4) Fittings S6510 14-3/8 L = Free position X = Threaded plate Y = See code D1AVA-Y / D2AVA-Y / D4AVA-Y	(D2) S6510 6-1/4 (D4) S6510 10-3/8	".2" solenoid valves and valves, with connections from A to F, are already fitted with fittings on the servo-pilot / pilot supply Ø4 (D1 and D2) 65124 - M5 Ø6 (D4) 65126 - M5
CSL	MANIFOLD CONNECTIONS T = Thread (on both sides) C = Fittings on connections 1;3;5 CS = Fittings Ø 8 - Silencer 2931 1/8 on supply + silencers on exhausts D = Fittings Ø 10 on connections 1;3;5 DS = Fittings Ø 12 on connections 1;3;5 ES = Fittings Ø 12 on connections 1;3;5 ES = Fittings Ø 12 on supply + silencers on exhausts F = Fittings Ø 14 on connections 1;3;5 FS = Fittings Ø 14 on supply + silencers on exhausts G = Fittings Ø 16 (D4), S6510 16-1/2 GS = Fittings Ø 16 on supply + silencers on exhausts CONNECTION SIDE Both L = Fittings on the Left (right side covered) R = Fittings on the Right (Left side covered)	(D1) 6512 8-1/8-M (D1) 6512 8-1/8-M + 2921 1/8 (D2) 56510 10-3/8 (D4) 56510 10-3/8 + 2921 3/8 (D4) 56510 12-1/2 (D4) 56510 12-1/2 + 2921 1/2 (D4) 56510 14-1/2 (D4) 56510 14-1/2 + 2921 1/2 (D4) 56510 16-1/2 (D4) 56510 16-1/2 + 2921 1/2	(D2) \$6510 8-3/8 (D2) \$6510 8-3/8 + 2921 3/8 (D4) \$6510 10-1/2 (D4) \$6510 10-1/2 + 2921 1/2
R	FIXING = Direct R = Port for DIN rail (only for D1)		
	In case of the same consecutive codes, group them and indicate the total of DCA1EP-MMMYCCVG-BBBYBAAA-CSI-R DCA1EP-3MY2CVG-3BYB3A-CSI-R The positions L, X, Y should be repeated on the VALVE POSITION CONNECTION VERSION 3, through the connector with rectifier bridge, can be used for AC (see the connectors at the end of the section)	NS, e.g., DCA1EP-3M2L-3B2L-C	

NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue of Series D, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Solenoid, pneumatic and manifold valves, where you will find all compatible accessories as well.

CAMOZZI



2x3/2; 5/2; 5/3-way Valve with body for subbase Size 10,5 - 16 - 25 mm







Camozzi has developed a new series of valves for applications with limited installation space where it is necessary to have the control elements as close to the actuator as possible.

Thanks to the extreme robust aluminium body, the Series D valves guarantee maximum reliability even under difficult operating conditions.

GENERAL DATA

Protection class

Valve construction spool-type Valve functions 2x3/2 NC/NO/NC+NO; 5/2; 5/3 CC/CO/CP **Materials** body, spool, bases = AL; end caps = technopolymer; seals = HNBR Ambient temperature Medium compressed, filtered and non-lubricated air in class [7:4:4] according to ISO 8573-1:2010. In case lubrication should be necessary, only use oils with a maximum viscosity of 32 Cst and the version with external servo pilot. The air quality for the servo pilot should be of class [7:4:4] according to ISO 8573-1:2010 Voltage 24V DC Voltage tolerance ± 10% Power consumption 1W Class of insulation

IP65 with EN 175301 C connector ("3" actuation. Ex DIN 43650)*
IP65 with M8 connector ("C" actuation)*

IP65 with M8 connector ("C" actuation)*
IP40 with micro connector ("E" actuation)*

*See coding example



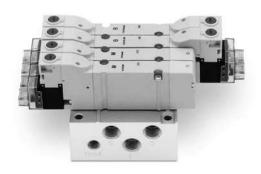


CODING EXAMPLE

D	1	E	VB	_	В	P
D	SERIES					
1	SIZE 1 = 10,5 mm 2 = 16 mm 4 = 25 mm					
E	ACTUATION E = electric (D1 and D2) 3 = electric 15 mm (D2 an C = electric with M8 conne					
VB	COMPONENT VB = Valve with body for s	sub-base				
В	TYPE OF SOLENOID VALVE M = 5/2 Monostable B = 5/2 Bistable C = 2 x 3/2 NC A = 2 x 3/2 NC G = 2 x 3/2 (NC+NO) N = 5/3 CP V = 5/3 CC K = 5/3 CO					
P	TYPE OF MANUAL OVERRID P = push button (not for ": R = with push and turn de	3" actuation)				
	VERSION 3, through the co (see the connectors at the		125-571-3, can be used for AC ap	plications.		

NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue of Series D, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Solenoid, pneumatic and manifold valves, where you will find all compatible accessories as well.





CODING EXAMPLE MANIFOLD WITH VALVES AND FITTINGS

DC	В	1	E	R	Α	-	MBMXCVB	-	3BX2AB	-	CSL	-	R	
DC			SERIES											
В			MANIFOLD W B = For type											
1			SIZE 1=10.5 mm - 2=16 mm - 4=25 mm											
E		ACTUATION E = Electric (D1 and D2) - 3 = Electric 15 mm (D2 and D4) - C = Electric with M8 connector (D1 and D2)												
R TYPE OF MANUAL OVERRIDE P = push button (not for "3" actuation) - R = with push and turn device														
Α			SERVO-PILOT A = internal		rnal									
MBI	ЧΧС\	/B	TYPE OF VALV M = 5/2 Mon B = 5/2 Bista C = 2 x 3/2 N A = 2 x 3/2 N G = 2 x 3/2 (I V = 5/3 CC K = 5/3 CO N = 5/3 CP L= Free posit X = Addition Y = Addition	ostable ble C O NC + NO) ion al supply a	nd exhaust	with silen	icer							
3BX	ZAB		CONNECTION T = Thread A = Ø4 (D1) F B = Ø6 (D1) F C = Ø8 (D2) F D = Ø10 (D2) E E = Ø12 (D4) F L = Free posi X = Threadec Y = See code	Fittings 651 Fittings 651 Fittings S65 Fittings S6 Fittings S6 Fittings S6 I plate	.2 4-M7-M .2 6-M7-M; 10 8-1/4 .510 10-1/4 510 12-3/8 510 14-3/8	(D2) S651 s; (D4) S6!								
CSL			L = Fittings o R = Fittings o Servo-pilot f	on both side 8 on conne 80 on conne 910 on con 910 on sup 110 on con 912 on sup 114 on con 914 on con 916 on to 116 on con 117 on sup 118 on sup 119 on su	es) sections 1;3; sly + silence nections 1;3 pply + silen g will be m right side of t (left side of	5 srs on exh 3;5 ters on ex 5;5 ters on ex 6;5 ters on ex 3;5 ters on ex 0;5 ters on ex 0;0 ters on ex	austs chausts hausts hausts	(D1) 65 (D2) S6 (D2) S6 (D4) S6 (D4) S6 (D4) S6 (D4) S6 (D4) S6	12 8-1/8-M 12 8-1/8-M + 2921 1/8 510 10-3/8 510 10-3/8 + 2921 3/8 510 12-1/2 510 12-1/2 + 2921 1/2 510 14-1/2 510 14-1/2 + 2921 1/2 510 16-1/2 510 16-1/2 + 2921 1/2	(D2 (D4) \$6510 8-3/8) \$6510 8-3/8-) \$6510 10-1/2) \$6510 10-1/2	2		
R			FIXING = Direct R = Port for I	<u> </u>		- 2/5/0								
				hrough the	connector		fier bridge, can be used for AC a	pplication	S.					

NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue of Series D, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Solenoid, pneumatic and manifold valves, where you will find all compatible accessories as well.



Valves and solenoid valves Series 3

2x3/2, 3/2, 5/2 and 5/3-way CC CO CP

Ports: G1/8 and G1/4









Series 3 solenoid valves with G1/8 and G1/4 ports have been designed in the 3/2, 2 x 3/2, 5/2, 5/3 versions and with the following two devices of actuation:

- Electropneumatically actuated with mechanical spring return
- Electropneumatically actuated with external and internal air pressure supply

Series 3 valves are equipped with a manual override which allows a stable operation and they can use Series U or G solenoids (22x22).

Pneumatically actuated valves 3/2 NC become NO when the supply is on connection 3.

GENERAL DATA

Construction spool - type

Valve group 2x3/2 - 3/2 - 5/2 - 5/3-way CC CO CP

Materials AL body, stainless steel spool, NBR seals

Ports G1/8 - G1/4

Installation in any position

Operating temperature 0 ÷ 60°C (with dry air at -20°C)

Operating pressure -0,9 - 10 bar

Fluid filtered air, without lubrication. If lubricated air is used, it is recommended to use ISOVG32 oil.

Once applied the lubrication should never be interrupted.

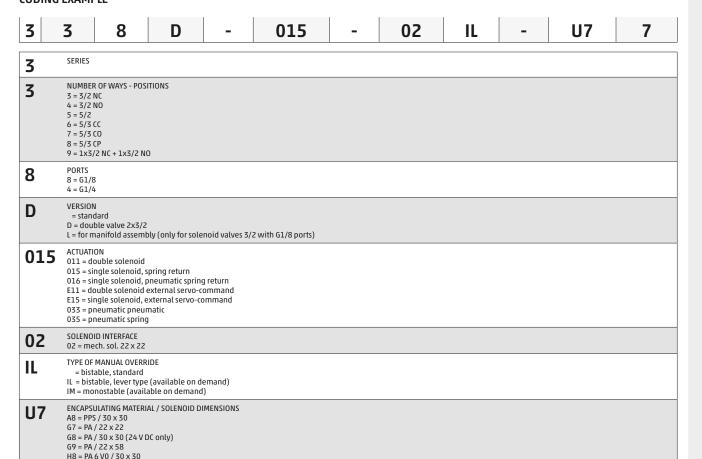
U7 = PET / 22 x 22

7

SOLENOID VOLTAGE (see the dedicated section)

CAMOZZI

CODING EXAMPLE



NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue of Series 3, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Solenoid, pneumatic and manifold valves, where you will find all compatible accessories as well.



Valves and solenoid valves Series 4

3/2, 5/2 and 5/3-way CC, CO Ports: G1/8, G1/4, G3/8, G1/2



Series 4 solenoid valves have been designed in the 3/2, 5/2, 5/3 versions and with the following two devices of actuation:

- electropneumatically actuated with mechanical spring return - electropneumatically actuated
- and return with external and internal air pressure supply

Series 4 valves are equipped with a manual override which allows a stable operation and they are particularly suitable for mounting in arduous conditions.

All these valves can be operated by solenoids Series U, G A8 and H8.

Pneumatically actuated valves 3/2 NC become NO when the supply is on connection 3.

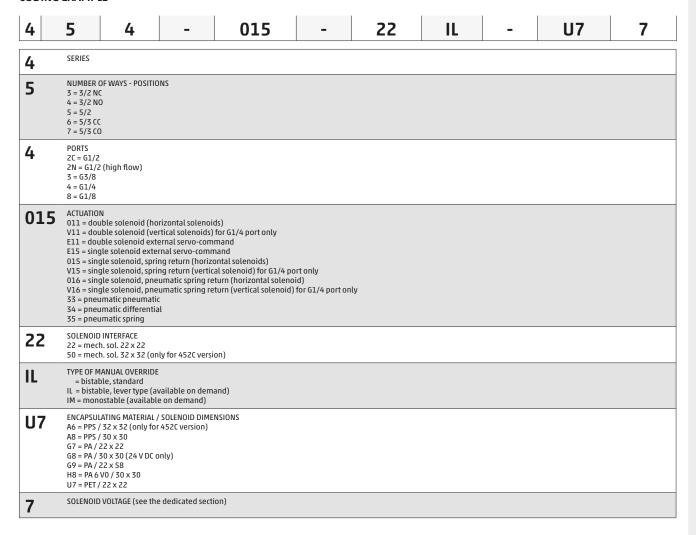
GENERAL DATA

Construction balanced spool type Valve functions 3/2 - 5/2 - 5/3-way CC, CO Materials AL body and subbases stainless steel spool technopolymer end cover NBR PU seals Ports G1/8 - G1/4 - G3/8 - G1/2 Installation in any position Operating temperature $0 \div 60$ °C (with dry air at -20°C) Operating pressure -0,9 - 10 bar Medium

filtered air, without lubrication. If lubricated air is used, it is recommended to use ISOVG32 oil.

Once applied the lubrication should never be interrupted.





NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue of Series 4, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Solenoid, pneumatic and manifold valves, where you will find all compatible accessories as well.



Valves and solenoid valves Series 9

5/2 and 5/3-way CC CO Sizes 1 - 2 - 3 According to the standard ISO 5599/1



Series 9 electropneumatically or pneumatically operated valves have been designed with sizes 1, 2 and 3, as recommended by the ISO Standards. The ease of pneumatic and electrical wiring makes these valves extremely flexible.

GENERAL DATA

 Operating pressure
 0 - 10 bar

 Nominal flow
 ISO 1 = 900 Nl/min

 ISO 2 = 1610 Nl/min
 ISO 3 = 4350 Nl/min

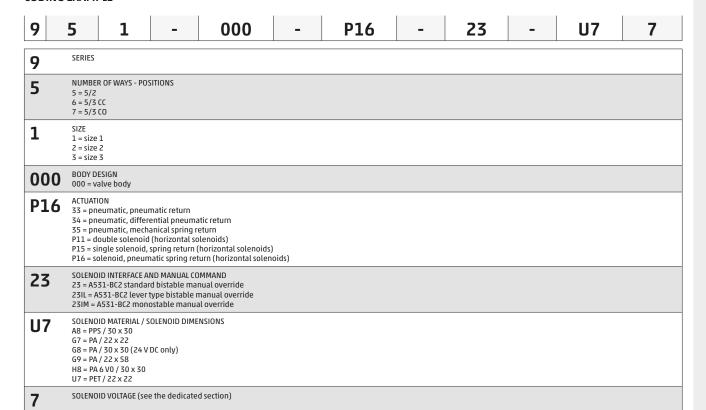
 Operating temperature
 0 ÷ 60°C (with dry air at -20°C)

Fluid filtered air, without lubrication.

If lubricated air is used, it is recommended to use ISOVG32 oil and to never interrupt the lubrication.

Electropneumatic interface according CNOMO Standards





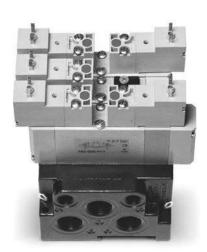
NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue of Series 9, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Solenoid, pneumatic and manifold valves, where you will find all compatible accessories as well.



Valves and solenoid valves Series 7

VDMA 24563 (ISO 15407-1) 5/2 - 5/3-way CC CO CP





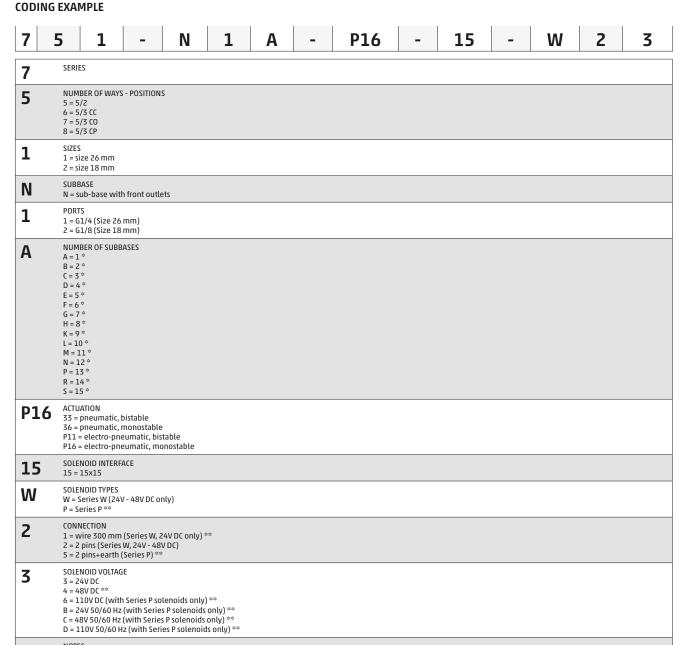
Size 26 mm (VDMA 24563-01) Size 18 mm (VDMA 24563-02)

GENERAL DATA

Construction balanced spool type Valve functions 5/2 - 5/3-way CC CO CP Materials AL body, spool base, polyamide endcovers, NBR seals Mounting by means of screws on the base Ports on sub-base Operating temperature 0° C min. +50° C max Fluid filtered air (5 micron or less), without lubrication. If lubricated air is used, it is recommended to use ISOVG32 oil. Once applied the lubrication should never be interrupted. Size 26 mm 18 mm Installation in any position Operating pressure P. max 7 bar Nominal pressure 6 bar Qn Size 26 mm = 900 Nl/min Nominal flow Qn Size 18 mm = 450 Nl/min ± 10% Voltage tolerance Power consumption 2W Class of insulation class F

Protection

IP54 (IP65 with connector DIN 40050)



NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue of Series 7, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Solenoid, pneumatic and manifold valves, where you will find all compatible accessories as well.

* complete with the two end blocks ** on request



Valves and solenoid valves Series NA

3/2 - 5/2 - 5/3-way CC CO CP with holes configured according NAMUR standards



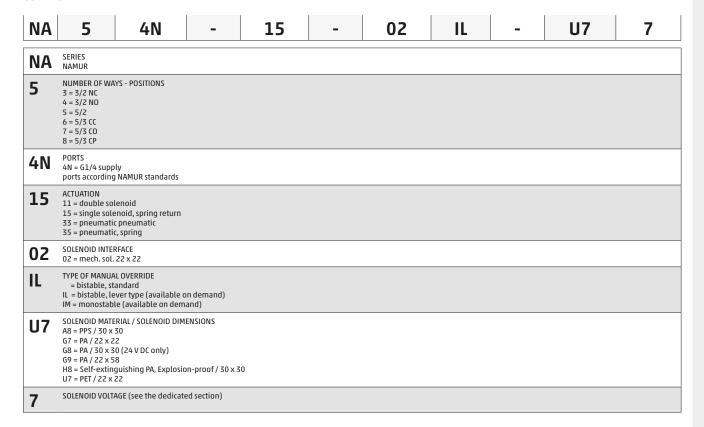
The pneumatic interface connection complies with NAMUR standards. These solenoid valves can be equipped with solenoids that are in compliance with UL or ATEX standards.

GENERAL DATA

Construction spool type (servo-pilot operated) Valve functions 3/2-way NC, NO - 5/2-way - 5/3-way CC, CO, CP Materials AL body - stainless steel spool - NBR seals Mounting through 2 Ø5 holes in the valve body Ports 2 - 4 = NAMUR 1 - 3 - 5 = G1/4 Installation directly on a Namur Interface **Operating temperature** $0 \div 60^{\circ}\text{C}$ (using dry air -20°C) Operating pressure 1,5 - 10 bar double solenoid 2,5 - 10 bar single solenoid Nominal pressure 6 bar Nominal flow Qn = 1000 Nl/min Nominal diameter 8 mm Fluid filtered air without lubrication.

If lubricated air is used, it is recommended to use ISOVG32 oil, and to never interrupt the lubrication.





NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue Series NA, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Solenoid, pneumatic and manifold valves, where you will find all compatible accessories as well.



Series ASX

2/2-way - Normally Closed (NC) and Normally Open (NO) 2/2-way - Double Acting (DA)



Angle seat valves are available in different versions with regard to nominal diameter, type of fluid and process connections. They are able to manage media that are corrosive or contain suspended solid particulate matter and can be used in applications with high operating temperatures.

The operation is determined by the pneumatic drive of a single acting, guided piston actuator with spring return. There are also models available with double acting actuators, without spring. For liquid media we recommend the models with flow direction under the seat. For gas or steam we recommend the models with flow direction above the seat.

GENERAL DATA

TECHNICAL FEATURES

Function 2/2 NC - 2/2 NO - 2/2 Double Acting

pneumatic, poppet type Operation

Pneumatic connections 1/4 ... 4" with BSP/BSPT/NPT threads, flanged, welding ends, tri-clamp

Nominal diameter DN8 ... DN100 Flow coefficient Kv (m³/h) 2.2 ... 132 Operating pressure 0 ÷ 2 ... 16 bar

Operating temperature -10 ÷ 180 °C (standard seals) / 25 ÷ 220 °C (high temperature seals)

Media water, air, steam, inert or corrosive liquids and gases (compatible with the materials in contact)

Viscosity 600 cSt. max Installation in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body 316 stainless steel (DN8 ÷ DN80) / 304 stainless steel (DN100)

Internal parts 316 stainless steel

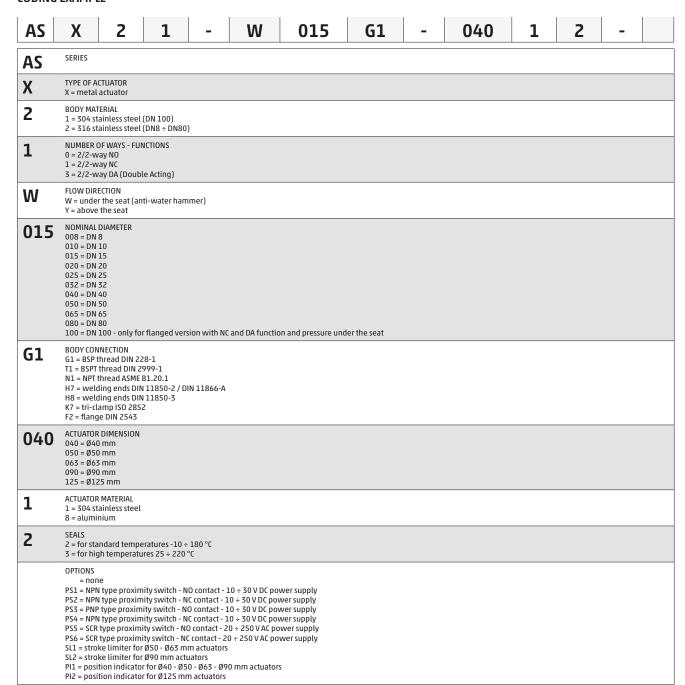
SPECIFICATIONS PNEUMATIC ACTUATOR

Actuator dimensions Ø40 - Ø50 - Ø63 - Ø90 - Ø125 mm

Actuator material 304 stainless steel / aluminium (only for Ø125 mm)

Piston material aluminium Piston seal material FKM air or inert gases Piloting fluid Piloting pressure 10 bar max. **Actuator position** 360° rotatable

CODING EXAMPLE



NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue Series ASX, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Solenoid, pneumatic and manifold valves, where you will find all compatible accessories as well.



Angle seat valves Series ASP

2/2-way - Normally Closed (NC) and Normally Open (NO) 2/2-way - Double Acting (DA)





The Series ASP angle seat valves are an efficient and cost-effective solution for fluid control. Their robustness is suitable for the most varied applications with inert gases and liquids, with steam or with fluids having solid particulates in suspension.

Available with 3/8" to 2-1/2" threaded connections.

The operation is determined by the pneumatic drive of a single acting, guided piston actuator with spring return. There are also models available with double acting actuators, without spring. For liquid media we recommend the models with flow direction under the seat. For gas or steam we recommend the models with flow direction above the seat.

GENERAL DATA

TECHNICAL FEATURES

Function 2/2 NC - 2/2 NO - 2/2 Double Acting Operation pneumatic, poppet type
Pneumatic connections 3/8 ... 2-1/2" with BSP thread

 $\begin{array}{lll} \mbox{Nominal diameter} & \mbox{DN10} \dots \mbox{DN65} \\ \mbox{Flow coefficient Kv (m³/h)} & 2.6 \dots 65 \\ \mbox{Operating pressure} & 0 \div 6 \dots 20 \mbox{ bar} \\ \mbox{Operating temperature} & -20 \div 130 \mbox{ }^{\circ}\mbox{C} \end{array}$

Media water, air, steam, inert liquids and gases (compatible with the materials in contact)

Viscosity 600 cSt. max Installation in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body brass Seals EPDM

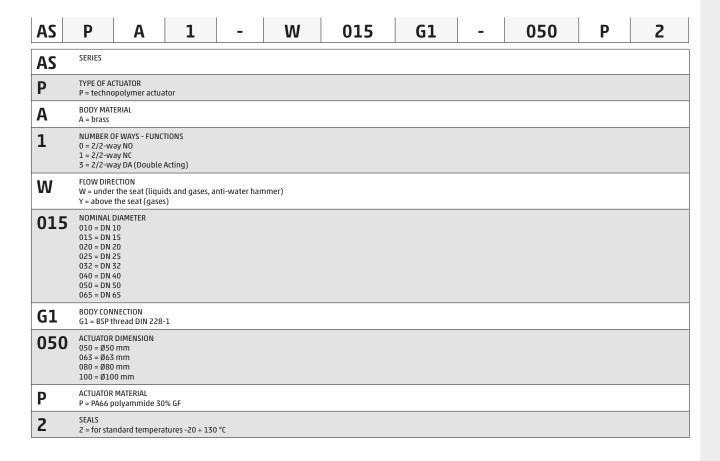
Internal parts 304 stainless steel

SPECIFICATIONS PNEUMATIC ACTUATOR

Actuator dimensions 950 - 963 - 980 - 9100 mm Actuator material PA66 polyamide 30% GF Piston material aluminium

Piston seal materialPURPiloting fluidair or inert gasesPiloting pressure10 bar max.Actuator position360° rotatable

CODING EXAMPLE



NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue Series ASP, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Solenoid, pneumatic and manifold valves, where you will find all compatible accessories as well.



Solenoids GP... - B7... - G93 - U7... - U7...EX - G7... - A8... - B8... - H8... - B9...

Version A and B Connections according to industrial standard and to DIN EN 175 301-803 standards

Solenoids Mod. GP...

In compliance with industrial standard (9.4mm) and designed to be mounted only on Series AP proportional valves, size 16 mm.

Electrical connection: bipolar Norm: industrial standard (9.4 mm)

Solenoid material: PA



Mod.	Solenoid voltage	Power absorption
GPH	12 V DC	3 W
GP7	24 V DC	3 W

Solenoids Mod. B7...

To be used only with Series CFB solenoid valves.

Electrical connection: bipolar plus earth Norm: DIN EN 175 301-803-B

Solenoid material: PA-MXD6



Mod.	Solenoid voltage	Power absorption
B7B	24 V - 50/60 Hz	9 VA
B7D	110 V - 50/60 Hz	9 VA
B7E	230 V - 50/60 Hz	9 VA
В7Н	24 V - 50/60 Hz	4 VA
B72	12 V - DC	10 W
B721	12 V - DC	14 W
B73	24 V - DC	10 W
B731	24 V - DC	14 W
B74	24 V - DC	7 W

Solenoids Mod. G93 (with memory)

Special solenoids with incorporated memory for pulsed operation.

Electrical connection: bipolar plus earth Norm: DIN EN 175 301-803-B Voltage tolerance: ±10%



ľ	4od. Volta	age Minimum inpulse	e latch/release Consumptio	n latch/release
G	12 V	DC 18 ms -	10 ms 200 m/	A - 160 mA
G	i 93 24 V	DC 18 ms -	10 ms 100 m	A - 80 mA

Solenoids Mod. U7... / U7*EX and Mod. G7...

Standard solenoids are certified by UL as Recognized Component for USA and Canada. Solenoids Mod. U7 are available also with ATEX certification.

Electrical connection: bipolar plus earth Norm: DIN EN 175 301-803-B Solenoid material: U7* = PET; G7* = PA To order the ATEX version of Mod. U7 (not available for Mod. U7F, U7K1 with voltage 125V 50/60Hz) it is necessary to add EX at the end of the code.

Mod. U7*EX marked: II 3G Ex nA IIC T4 Gc X IP65 II 3D Ex tc IIIC 130°C Dc X



Mod.	Solenoid voltage (1)	Power absorption (1)	Solenoid voltage (2)	Power absorption (2)	Solenoid voltage (3)	Power absorption (3)
U7H	12 V DC	3.1 W	24V - 50/60 Hz	3.5 VA		
G7H	12 V DC	3.1 W	24V - 50/60Hz	3.5 VA		
U7K	110V - 50/60Hz	3.8 VA	125V - 50/60Hz	5.5 VA	72 V DC	4.8 W
U7K1	110V - 50/60Hz	5.8 VA	125V - 50/60Hz	8.3 VA	72 V DC	5.6 W
G7K	110V - 50/60Hz	3.8 VA	125V - 50/60Hz	5.5 VA	72 V DC	4.8 W
G7K1	110V - 50/60Hz	5.8 VA	125V - 50/60Hz	8.3 VA	72 V DC	5.6 W
U7J	230V - 50/60Hz	3.5 VA	240V - 50/60Hz	4 VA		
G7J	230V - 50/60Hz	3.5 VA	240V - 50/60Hz	4 VA		
U79	48 V DC	3.1 W				
G79	48 V DC	3.1 W				
U710	110 V DC	3.2 W				
G710	110 V DC	3.2 W				
U77	24 V DC	3.1 W	48V - 50/60Hz	3.8 VA		
U771	24 V DC	3.1 W	48V - 50/60Hz	3.8 VA		
G77	24 V DC	3.1 W	48V - 50/60Hz	3.8 VA		
G771	24 V DC	3.1 W	48V - 50/60Hz	3.8 VA		
U7F	380V - 50/60Hz	7 VA				
U72	12 V DC	5 W				
G72	12 V DC	5 W				
U73	24 V DC	5 W				
G73	24 V DC	5 W				

Solenoids Mod. A8...

Mod. U7K1, G7K1, U771 and G771 are to be used only with sol. valves series A, NO in line.

Electrical connection: bipolar plus earth Norm: DIN EN 175 301-803-A



Mod.	Solenoid voltage	Power absorption
A8B	24V - 50/60Hz	5VA
A8D	110V - 50/60Hz	5VA
A8E	220V - 50/60Hz	5VA
A83	24V DC	4W

Solenoids Mod. B8...

To be used only with Series CFB solenoid valves.

Electrical connection: bipolar plus earth Norm: DIN EN 175 301-803-A

Solenoid material: PA-MXD6

The B8*K models can be used only with some solenoid valves Series CFB (Mod. CFB-D1..., 2/2 NO). Further details in the Series CFB section.



Mod.	Solenoid voltage	Power absorption
B8B	24 V - 50 Hz	15 VA
B8BK	24 V - 50 Hz	15 VA
B8D	110 V - 50/60 Hz	15 VA
B8DK	110 V - 50/60 Hz	15 VA
B8E	220/230 V - 50/60 Hz	15 VA
B8EK	230 V - 50/60 Hz	15 VA
B8F	220/230 V - 50/60 Hz	21 VA
B8FK	220/230 V - 50/60 Hz	21 VA
B82	12 V - DC	19 W
B82K	12 V - DC	19 W
B83	24 V - DC	19 W
B83K	24 V - DC	19 W



Solenoid Mod. H8.. for potentially explosive ambients

Explosion-proof solenoids suitable for potentially explosive ambients (ATEX, IECEx).

Certification in compliance with EN 60079-0 EN 60079-18
ATEX:
II 2G EX mb IIC T4 Gb
II 2D EX mb IIIC T135°C Db
I M2 EX mb I Mb
INERIS 06ATEX0002X

IECEX: EX mb IIC T4 Gb EX mb IIIC T135°C Db EX mb I Mb IECEX INE 15.0053X

For Series NA use plate mod. NA54-PC.



Mod.	Solenoid voltage	Power absorption
H83I	24 V - DC	5.3 W
нвы	24 V - 50/60 Hz	5.3 W
н8СІ	48 V - 50/60 Hz	5.3 W
H8DI	110 V - 50/60 Hz	5.3 W
H8EI	230 V - 50/60 Hz	5.3 W

Temperature class/Max surface temperature: T4/135°C Environment temperature: $-20^{\circ}\text{C} + 40^{\circ}\text{C}$ Connection: tripolar cable 3 m (other lenghts on request) Incapsulating material: self-extinguishing PA.

Solenoids Mod. B9...

To be used only with Series CFB solenoid valves.

Electrical connection: bipolar plus earth Norm: DIN EN 175 301-803-A

Solenoid material: PA-MXD6



Mod.	Solenoid voltage	Power absorption
В9В	24 V - 50 Hz	29 VA
B9D	110 V - 50/60 Hz	29 VA
B9E	230 V - 50 Hz	29 VA
B93	24 V - DC	30 W

Connectors Mod. 122-... DIN EN 175 301-803-B

For solenoids Mod. U7/U7*EX, G7 and B7

Mod. 122-800EX: for ATEX certified solenoids mod. U7*EX, with anti-screwing off screw mod. TORX.

Mod.	
122-601	
122-701	
122-702	
122-703	
122-800	
122-800EX	



Connectors Mod. 122-571 DIN EN 175 301-803-B with cable

For solenoids Mod. U7, G7 and B7

Mod.
122-571-1
122-571-2
122-571-3
122-571-5
122-571-10



Connectors Mod. 122-89*C DIN EN 175 301-803-B

For solenoids Mod. G9



For solenoids Mod. A8 and Mod. B8/B9

Connector Mod. 124-... DIN EN 175 301-803-A

Protection class IP65

Mod.
124-800
124-702
124-701
124-703



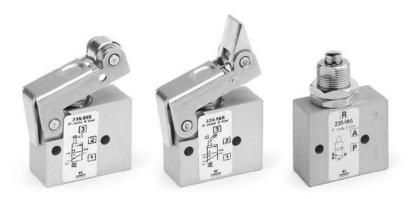
122-892C 122-893C

Mod.



Mechanically operated minivalves Series 2

3/2-way Ports M5, cartridge ø 4



Series 2 mechanically operated miniature valves, 3/2-way normally closed, are available with M5 threaded ports or with an integrated super-rapid fitting for ø 4mm tubes.

The devices are actuated by a plunger, roller/lever or a unidirectional lever.

GENERAL DATA

Construction	poppet type
Valve group	3-way/2-position
Materials	aluminium body, brass plunger, NBR seals
Mounting	by means of screws in the through-holes of the valve body
Ports	M5, Ø4mm cartridge
Room temperature	0°C ÷ 60°C
Fluid temperature	0°C ÷ 50°C
Operating pressure	2 bar ÷ 10 bar
Fluid	Filtered air, without lubrication. If lubricated air is used, it is recommended to use ISO VG32 oil. Once applied the lubrication should never be interrupted.

CODING EXAMPLE

2	3	4	-	94	5
2	SERIES				
3	FUNCTION 3 = 3/2-way NC 4 = 3/2-way NO				
4	PORTS 4 = cartridge ø 4mm 5 = M5				
94	ACTUATION 94 = plunger 95 = lever/roller 96 = unidirectional lever 98 = plunger, panel mounting				
5	RESETTING 5= spring return				

NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue of Series 2, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Mechanical and manual valves.



Mechanically operated valves Series 1 and 3

Series 1: 3/2-way and 5/2-way, ports G1/8 and G1/4

Series 3: 3/2-way and 5/2-way, ports G1/8



These mechanically operated valves have been designed with three different types of actuation:

- plunger
- lever/roller
- unidirectional lever/roller
 In each case, return is triggered by a mechanical spring.

3/2-way monostable valves Series 3 are normally closed in the rest position when pressure is supplied in 1 and are normally open when pressure is supplied on connection 3, the user port 2 remaining unchanged.

5/2-way valves Series 3 can be supplied via the ports 3 and 5 with two different pressures if a cylinder has to be operated using a delivery pressure which is different from the return pressure.

GENERAL DATA

Construction spool-type (Series 3), poppet-type (Series 1)

Valve group 3/2, 5/2 way/pos.

Materials aluminium body, brass poppet, stainless steel spool, NBR seals

Ports 61/8, 61/4Ambient temperature $0^{\circ}\text{C} \div 60^{\circ}\text{C}$ Medium temperature $0^{\circ}\text{C} \div 50^{\circ}\text{C}$

luid Filtered air, without lubrication. If lubricated air is used, it is recommended to use ISO VG32 oil.

Once applied the lubrication should never be interrupted.

CODING EXAMPLE

3	3	8	-	94	5
3	SERIES 1 3				
3	FUNCTION 3 = 3/2 ways NC 4 = 3/2 ways NO (only Series 1) 5 = 5/2 ways				
8	PORTS 8 = G1/8 4 = G1/4 (only Series 1)				
94	ACTUATION 94 = plunger 95 = lever/roller 96 = unidirectional roller				
5	RESETTING 5= spring return				

NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue of Series 1 and 3, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Mechanical and manual valves.



Mechanically operated sensor valves Series 3 and 4

3/2 and 5/2-way Ports G1/8, G1/4



The particular mechanical device allows these end-stroke valves to operate with very low actuating forces.

Series 3 has been designed with a mechanical lever device which works in negative pressure. To increase sensitivity it is possible to add to the lever a steel extension with ø 3 mm.

GENERAL DATA

Construction spool-type (servocontrolled)

Valve group 3/2, 5/2 way/pos.

Materials aluminium body, stainless steel spool, NBR seals

Ports 61/8, 61/4Ambient temperature $0^{\circ}\text{C} \div 60^{\circ}\text{C}$ Medium temperature $0^{\circ}\text{C} \div 50^{\circ}\text{C}$

Fluid Filtered air, without lubrication. If lubricated air is used, it is recommended to use ISO VG32 oil.

Once applied the lubrication should never be interrupted.

CODING EXAMPLE

3	3	8	-	D15	-	9A5
3	SERIES 3 4					
3	FUNCTION 3 = 3/2-way NC 4 = 3/2-way NO 5 = 5/2-way					
8	PORTS 8 = G1/8 4 = G1/4					
D15	ACTUATION D15 = pressure dro 015 = pressure/spri 011 = pressure/pre	ng				
9A5	DEVICES 9A5 = lever sensor, 194 = plunger sens 294 = plunger sens 195 = lever/roller, 295 = lever/roller,	or, spring return or, bistable pring return				

NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue of Series 3 and 4, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Mechanical and manual valves.

Mod.

GPH

354N-925



Foot operated pedal Electrical and pneumatic - Series 3 Pneumatic - Series 2

New models

Series 3: G1/4, 5/2-way - NC / NO contacts

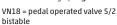
Series 2: M5; 4/2 tube; 3/2-way NC

Pneumatic foot operated pedal Series 3

Actuating force at 6 bar = 17N Operating pressure = $2,5 \div 8$ bar Flow rate = 650Nl/min.



14, 12 VN 74





VN19 = pedal operated valve 5/2 monostable bistable

Electrical foot operated pedal Series 3





Mod. 3E2-925

Pneumatic foot operated pedal Series 2

Operating pressure = 2 ÷ 8 bar Flow rate = 60 Nl/min.



Mod.	
234N-925	
235N-925	





Manually operated console minivalves Series 2

3/2 NC, NO Ports M5, Cartridge Ø 4



This series of miniature valves has been especially designed to satisfy all the application requirements of the controls industry with particular attention paid to the

operating characteristics required from these components:

- short operational stroke
- small dimensions

GENERAL DATA

valve group	3/2 NC, NO 5/2 and 5/3 CO
Construction	poppet-type (closed centres)
Materials	aluminium body, brass plunger, NBR seals
Mounting	panel
Ports	M5 or cartridge dia. 4
Ambient temperature	0°C ÷ 60°C
Medium temperature	0°C ÷ 50°C

CODING EXAMPLE

2	3	4	-	97	5
2	SERIES				
3	FUNCTION 3 = 3/2-way NC 4 = 3/2-way NO 8 = 5/3-way CO (function realiz	ed with 2x 3/2-way NC valves)			
4	PORTS 4 = cartridge ø 4 5 = M5				
97	MODE OF OPERATION 87 = 3 position selector 89 = push button 97 = palm switch 90 = joystick 99 = 2 position selector 92 = pedal 904 = key				
5	RESETTING 5 = spring return 0 = stable 2 = latching-twist to release 54= joystick				

NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue of Series 2, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Mechanical and manual valves.



Manually operated valves Series 1, 3, 4 and VMS

Series 1, 3 and 4: 3/2-, 5/2- and 5/3-way CC, CO; ports G1/8, G1/4 Series VMS: 3/2-way; ports M5, G1/8, G1/4, G3/8, G1/2 and G3/4









Series 3 manual valves (G1/8) and Series 4 (G1/4), 3/2-, 5/2- and 5/3-way, are available with several devices designed to satisfy different needs.
Series 1 is provided with two devices:

pushbutton (3/2-way) and lever (3/2 and 5/2-way).
Series VMS valves are 3/2-way slide

Series VMS valves are 3/2-way slide valves which are available with ports M5, G1/8, G1/4, G3/8, G1/2 and G3/4.

The 3/2-way valves Series 3 and 4 are normally closed when 1 is the inlet and they can also be normally open when 3 is the inlet.

Series 3 and 4 5/2-way valves can be supplied via ports 3 and 5 with two different pressures, if a cylinder has to be operated using a delivery pressure which is different from the return pressure.

GENERAL DATA

 Construction
 Series 3 and 4: spool-type - Series 1: poppet-type - Series VMS: slide

 Function
 Series 1, 3 and 4: 3/2 - 5/2 - 5/3 ways CCC 0 - Series VMS: 3/2-way

 Materials
 aluminium body, stainless steel spool, brass poppet, NBR seals

Ports Series 1, 3 and 4: G1/8, G1/4 - Series VMS: M5, G1/8, G1/4, G3/8, G1/2, G3/4

Ambient temperature $0^{\circ}\text{C} \div 60^{\circ}\text{C}$ Medium temperature $0^{\circ}\text{C} \div 50^{\circ}\text{C}$

Fluid Filtered air, without lubrication.

If lubricated air is used, it is recommended to use ISO VG32 oil. Once applied the lubrication should never be interrupted.

CODING EXAMPLE

3	3	8	-	900
3	SERIES 1 - 3 - 4			
5	FUNCTION 3 = 3/2-way NC 5 = 5/2-way 6 = 5/3-way CC 7 = 5/3-way CO 8 = 5/3-way CP			
8	PORTS 8 = G1/8	4 = G1/4		
900	RESETTING 895 = pushbutton, monostable, blac 896 = pushbutton, monostable, gree 897 = pushbutton, monostable, red 900 = lever, bistable 905 = lever, monostable 910 = knob, bistable		ole, green	

NOTE: to check possible combinations and codes that can be ordered, please consult the complete catalogue of Series 1, 3, 4 and VMS, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Mechanical and manual valves.

C∢ CAMOZZI

Mini-handle valves Series 2

Handle with incorporated micro valve 3/2 NC and NO Handle with incorporated micro switch

Handle 3/2 NC and NO





Mod. 234-885 Mod. 244-885

Handle





Mod.

234-88E 234-88E



Basic logic valves Series 2L

Cartridge Ø 4 mm or - and - yes - not - memory

Basic logic valves AND / OR



Basic logic valves YES / NOT











_	- 2		_
12	1	1) 3

Mod.

2LS-SB4-B 2LT-SB4-B



Function

NOT



Pneumatic symbol

NOT1



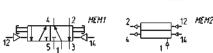
Logic symbol

NOT2

Mod.	Function	Pneumatic symbol	Logic symbol
2LD-SB4-B	AND	AND1	AND2
2LR-SB4-B	OR	OR01	OR02

Basic logic valves "Memory"





Mod.	Function	Pneumatic symbol	Logic symbol
2LM-SB4-B	Memory	MEM1	MEM2

Right-angled bracket



Mod. 2LQ-8A

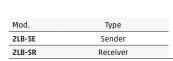
Pneumatically operated 3/2 NC amplifier valve - G1/8 ports

Sender and receiver sensor Series 2L - M5 ports











Circuit selector Mod. SCS

Ports: G1/8

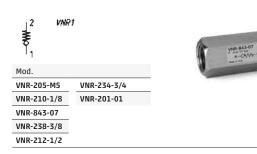


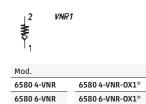






Ports of Thread version: M5, G1/8, G1/4, G3/8, G1/2, G3/4, G1 Dimensions of Tube/Tube version: Ø4; Ø6; Ø8; Ø10; Ø12





6580 8-VNR-0X1*

6580 10-VNR-OX1*

6580 12-VNR-OX1*

VNR60 1/4-8-0X1*

6580 8-VNR

6580 10-VNR

6580 12-VNR

VNR60 1/4-8



* OX1 = for Oxygen (nonvolatile residue lower than 550 mg/m²)

VMR1				
1 2				
Mod.				
VNR60 4-M5	VNR60 4-M5-0X1*			
VNR60 6-1/8	VNR60 6-1/8-0X1*			
VNR60 6-1/4	VNR60 6-1/4-0X1*			
VNR60 8-1/8	VNR60 8-1/8-0X1*			
VNR60 8-1/4	VNR60 8-1/4-0X1*			



* OX1 = for Oxygen
(nonvolatile residue lower than 550 mg/m²)

1 2	
Mod.	
VNR60 M5-4	VNR60 M5-4-0X1*
VNR60 1/8-6	VNR60 1/8-6-0X1*
VNR60 1/4-6	VNR60 1/4-6-0X1*
VNR60 1/8-8	VNR60 8-1/8-0X1*

VNR1



* OX1 = for Oxygen (nonvolatile residue lower than 550 mg/m²)

Unidirectional valves in 316L stainless steel Series XVNR

Ports of Thread version: G1/8, G1/4, G3/8, G1/2 1/8 NPT, 1/4 NPT, 3/8 NPT, 1/2 NPT



6

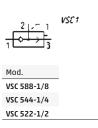


Quick exhaust valves Series VSO, VSC

Series VSO ports: M5, G1/8, cartridge Ø4 Series VSC ports: G1/8, G1/4, G1/2







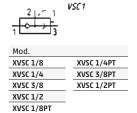


Mod.

VSO 4-1/8

Quick exhaust valves in 316L stainless steel Series XVSC

Threads: G1/8, G1/4, G1/2, G3/8 1/8 NPT, 1/4 NPT, 3/8 NPT, 1/2 NPT





CAMOZZI Automation

Adjustable overpressure exhaust valve Mod. VMR 1/8-B10

Ports: G1/8

VMR 1/8-B10



Blocking valves Series VBO - VBU

New models

Unidirectional valves (VBU) and bidirectional valves (VBO) Ports G1/8, G1/4, G3/8 and G1/2



Mod.

VBO 1/8

VBO 1/4

VBO 3/8

VBO 1/2



VBU 1/8
VBU 1/4
VBU 3/8
VBU 1/2



Mod.
VBU 6 1/8
VBU 6 1/4
VBU 8 1/4
VBU 8 3/8
VBU 10 3/8

VBU 12 1/2



Flow control valves Series SCU, MCU, SVU, MVU, SCO, MCO

Unidirectional and bidirectional banjo flow control regulators Ports: M5, G1/8, G1/4, G3/8, G1/2



These unidirectional and bidirectional flow controllers have been designed as small as possible so as to be mounted directly on valves or cylinders.

The great variety of adjustable fittings makes it possible to complete the regulator with the most suitable system in relation to the available tube.

Only the G1/2 model is supplied complete with banjo flow controllers. For the other models the banjo flow controller is to be requested separately.

GENERAL DATA

Construction	needle type
Valve group	unidirectional and bidirectional controller
Materials	body and regulation screw: M5 = stainless steel; $1/8 - 1/4 - 3/8 - 1/2 = 0T$; seals = NBR
Mounting	by male thread
Ports	M5 - G1/8 - G1/4 - G3/8 - G1/2
Installation	in any position
Operating temperature	0°C ÷ 80°C (with dry air - 20°C)
Operating pressure	1 ÷ 10 bar
Nominal pressure	6 bar
Nominal diameter	M5 = 1,5 mm - G1/8 = 2 mm - G1/4 = 4 mm - G3/8 = 7 mm - G1/2 = 12 mm
Fluid	filtered air. If lubricated air is used, it is recommended to use ISOVG 32 oil. Once applied the lubrication should never be interrupted.

To ensure the right choice of unidirectional flow controller, proceed as follows: calculate the quantity of air in NI/min, determine the stroke time of the cylinder, refer to graph to see which controller is the right type.

CODING EXAMPLE

M	CU		7	02	-	M5			
M	ACTUATION M = Manual - S = Screwdriver								
CU	ASSEMBLY CU = on cylinders unidirectional - VU = on valves unidirectional - CO = bidirectional								
7	VERSIONS 6 = needle (screwdriver operated) - 7 = needle (manual operated)								
02	NOMINAL DIAMETER 02 = Ø 1,5 max - 04 = Ø 2 max - 06 = Ø 4 max - 08 = Ø 7 max - 10 = Ø 12 max								
M5	PORTS M5 = M5 - 1/8 = G1/8 - 1/4 = G1/4 - 3/8 = G3/8 - 1/2 = G1/2								

NOTE: to check flow rates and possible combinations, please consult the complete catalogue of Series SCU, MCU, SVU, MVU, SCO, MCO, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Flow control valves.

Silenced exhaust controllers Mod. SCO + 2905

The flow control valve Mod. SCO and the silencer Mod. 2905 are supplied separately.

Mod. SCO 602-M5+2905 M5 SCO 604-1/8+2905 1/8 SCO 606-1/4+2905 1/4





Series RSW flow control valves with silencer

Ports: G1/8, G1/4, G1/2.

Mod. RSW 1/8 RSW 1/4 RSW 3/8 RSW 1/2







Flow regulators in 316L stainless steel Series XSCU, XSCO, XMFU and XMFO

Unidirectional and bidirectional banjo flow control regulators

Ports: G1/8, G1/4, G3/8, G1/2





These unidirectional and bidirectional flow regulators have a compact design that allows mounting directly

on valves or cylinders in environments with aggressive fluids or gases.

GENERAL DATA

Construction	needle type
Valve group	unidirectional and bidirectional controller
Materials	body and regulation screw: 316L stainless steel; FKM seals
Mounting	by male/female thread
Threads	G1/8, G1/4, G3/8, G1/2
Installation	in any position
Operating temperature	-10°C ÷ +120°C
Operating pressure	1 ÷ 10 bar (unidirectional regulator) 0 ÷ 10 bar (bidirectional regulator Series XMFO) 0 ÷ 8 bar (bidirectional regulator Series XSCO)
Nominal pressure	6 bar
Nominal diameter	XSCU, XSCO: G1/8 = 4,5 - G1/4 = 6 - G3/8 = 8 - G1/2 = 12
Medium	filtered air without lubrication with the unidirectional and bidirectional flow regulators all fluids compatible with the materials of the bidirectional flow regulators

CODING EXAMPLE

Х	(M	CU	M5
X	= INOX		
M	ACTUATION M = Manual S = Screwdriver		
CU	ASSEMBLY CU = on cylinders unidirectional CO = bidirectional FU = unidirectional FO = bidirectional		
M5	PORTS 1/8 = G1/8 1/4 = G1/4 3/8 = G3/8 1/2 = G1/2		

To ensure the right choice of unidirectional flow controller, proceed as follows: calculate the quantity of air in Nl/min, determine the stroke time of the cylinder, refer to graph to see which controller is the right type.

NOTE: to check flow rates and possible combinations, please consult the complete catalogue of Series XSCU, XMCU, XSVU, XMVU, XSCO, XMCO, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Flow control valves.

VALVES AND SOLENOID VALVES

Flow control valves Series PSCU, PMCU, PSVU, PMVU, PSCO, PMCO

Unidirectional and bidirectional flow regulators with banjo in brass (M5) or in technopolymer (G1/8, G1/4, G3/8)

Ports: M5, G1/8, G1/4, G3/8



These unidirectional and bidirectional flow controllers have been designed as small as possible so as to be mounted directly on valves or cylinders.

The great variety of adjustable fittings makes it possible to complete the regulator with the most suitable system in relation to the available tube.

All models are supplied complete with banjo flow controllers.

GENERAL DATA

Construction	needle type
Valve group	unidirectional and bidirectional controller
Materials	body, regulation screw: stainless steel (M5), brass (G1/8 - G1/4 - G3/8) collet and insert = brass banjo: brass (M5), technopolymer (G1/8 - G1/4 - G3/8) controller = technopolymer - seals = NBR
Mounting	by male thread
Ports	M5 - G1/8 - G1/4 - G3/8
Installation	in any position
Operating temperature	0°C ÷ 60°C (with dry air -20°C)
Operating pressure	1 ÷ 10 bar
Nominal pressure	6 bar
Nominal diameter	M5 = 1.5 mm - G1/8 = 2 mm - G1/4 = 4 mm - G3/8 = 7 mm
Fluid	filtered air. If lubricated air is used, it is recommended to use ISOVG 32 oil. Once applied the lubrication should never be interrupted.

CODING EXAMPLE

Р	M	CU		7	04	-	1/8	-	4		
P	SERIES	SERIES									
M	ACTUATION M = Manual - S = Screwdriver										
CU	ASSEMBLY CU = on cylind	ers unidirectional - VI	J = on valves u	ınidirectional - CO	= bidirectional						
7	VERSIONS 6 = needle (sc	rewdriver operated) -	7 = needle (n	nanual operated)							
04	NOMINAL DIAM 02 = Ø1.5 MAX	METER (- 04 = Ø2 MAX - 06 =	= Ø4 MAX - 08	s = Ø7 MAX							
1/8	PORTS M5 = M5 - 1/8 = G1/8 - 1/4 = G1/4 - 3/8 = G3/8										
4	TUBE 4 = Ø 4 - 6 = Ø	Ø 6 - 8 = Ø 8 - 10 = Ø	10 - 12 = Ø 1	2							

To ensure the right choice of unidirectional flow controller, proceed as follows:

calculate the quantity of air in NI/min, determine the stroke time of the cylinder, refer to graph to see which is the right type of controller.

NOTE: to check flow rates and possible combinations, please consult the complete catalogue of Series PSCU, PMCU, PSVU, PMVU, PSCO, PMCO, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Flow control valves.



Flow control valves Series TMCU, TMVU, TMCO

Unidirectional and bidirectional banjo flow controllers with nominal diameter 2 - 3,8 - 5,8 - 8 mm Ports: G1/8, G1/4, G3/8, G1/2



Series TMCU, TMVU, TMCO unidirectional and bidirectional flow controllers have been revised in order to decrease their dimensions and improve their flow rate characteristics.

Their construction allows for easy assembly to cylinders and valves and allows the regulation adjustment to be precise and gradual.

GENERAL DATA

Construction	needle - type
Valve group	unidirectional and bidirectional controller
Materials	brass - technopolymer - NBR
Mounting	by male threaded
Threaded ports	G1/8 - G1/4 - G3/8 - G1/2
Installation	in any position
Operating temperature	0°C ÷ 60°C (with dry air -20°C)
Operating pressure	0,5 ÷ 10 bar
Nominal pressure	6 bar
Nominal diameter	Tube 4 Ø2 - Tube 6 Ø3,8 - Tube 8 Ø5,8 - Tube 10 and 12 Ø8
Fluid	filtered air. If Juhricated air is used, it is recommended to use ISOVG 32 oil. Once applied the Juhrication should never be interrunted.

CODING EXAMPLE

TM	CU 9 74 - 1/8 - 6
TM	ACTUATION TM = manual
CU	ASSEMBLY CU = on cylinders unidirectional
9	VERSIONS 9 = manual needle
74	REGULATION step - ø tube 72 = 2 4 74 = 3.8 6 76 = 5.8 8 78 = 8 10
1/8	PORTS 1/8 - 1/4 - 3/8 - 1/2
6	ØTUBE 4 - 6 - 8 - 10

To ensure the right choice of unidirectional flow controller, proceed as follows:

calculate the quantity of air in NI/min, determine the stroke time of the cylinder, refer to graph to see which controller is the right type.

NOTE: to check flow rates and possible combinations, please consult the complete catalogue of Series TMCU, TMVU, TMCO, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Flow control valves.



Flow control valves Series GSCU, GMCU, GSVU, GMVU, GSCO, GMCO

Unidirectional and bidirectional banjo flow controllers with nominal diameter 1,5 - 3,5 - 5 mm

Ports: M5, G1/8 and G1/4



These unidirectional and bidirectional flow controllers have been designed as small as possible to enable mounting directly on valves or cylinders.

The flow regulation range is wide and gradual, allowing the regulation to be very accurate either at minimum or maximum flow.

GENERAL DATA

Construction	needle - type
Valve group	unidirectional and bidirectional controller
Materials	body and screws M5 stainless steel; 1/8 - 1/4 - 3/8 - 1/2 brass; seals NBR
Mounting	by male threaded
Installation	in any position
Operating temperature	0°C ÷ 80°C (with dry air -20°C)
Operating pressure	1 ÷ 10 bar
Nominal pressure	6 bar
Nominal diameter	M5 = 1.5 mm - G1/8 = 2 mm - G1/4 = 4 mm G3/8 = 7 mm - G1/2 = 12 mm
Fluid	filtered air. If Jubricated air is used, it is recommended to use ISOVG 32 oil. Once applied the Jubrication should never be interrupted.

CODING EXAMPLE

GM	CU		9	03	-	1/8	-	6		
GM	ACTUATION GM = manual - GS = screwdriver									
CU	ASSEMBLY CU = on cylinders unid	ASSEMBLY CU = on cylinders unidirectional - VU = on valves unidirectional - CO = bidirectional								
9	VERSIONS 8 = needle (screwdriv	er operated) -	9 = needle (manually	operated)						
03	FLOW CONTROL RANGE Size									
1/8	PORTS M5 - 1/8 - 1/4									
6	ØTUBE 3 - 4 - 6 - 8 - 10									

To ensure the right choice of unidirectional flow controller, proceed as follows:

calculate the quantity of air in NI/min, determine the stroke time of the cylinder, refer to graph to see which controller is the right type.

NOTE: to check flow rates and possible combinations, please consult the complete catalogue of Series GSCU, GMCU, GSVU, GMVU, GSCO, GMCO, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Flow control valves.



Flow control valves Series RFU and RFO

Unidirectional and bidirectional. Ports: M5, G1/8, G1/4, G3/8 and G1/2 Nominal diameters: 1,5 mm (M5), 2 and 3 mm (G1/8), 4 and 6 mm (G1/4), 7 mm (G3/8 and G1/2)





The unidirectional flow controllers are equipped with M5, G1/8, G1/4, G3/8 and G1/2 ports.
G1/8 and G1/4 ports are available with two different types of adjustment, whereas M5, G3/8 and G1/2 ports have just one type of adjustment.
All models can be panel or wall mounted or they can be mounted on cylinders, as required.

To choose the most suitable model, it is recommended to:

- 1. calculate the quantity of air in Nl/min;
- 2. determine the stroke time of the cylinder;
- 3. check the flow diagrams.

GENERAL DATA

Construction	needle-type			
Valve group	unidirectional and bidirectional controller			
Materials	AL body - brass needle (not nickel-plated) - NBR seals			
Mounting	with screws in the holes of the valve body or panel mounted			
Threaded ports	M5 - G1/8 - G1/4 - G3/8 - G1/2			
Installation	as required			
Operating temperature	0°C ÷ 80°C (with dry air - 20°C)			
Operating pressure	$1 \div 10$ bar (for models with M5 - G1/8 - G1/4 ports) $2 \div 10$ bar (for models with G3/8 - G1/2 ports)			
Nominal pressure	6 bar			
Nominal diameter	M5 = 1,5 - G1/8 = 2 or 3 mm - G1/4 = 4 or 6 mm - G3/8 and G1/2 = 7 mm			
Fluid	filtered air. If lubricated air is used, it is recommended to use ISOVG 32 oil. Once applied the lubrication should never be interrupted.			

CODING EXAMPLE

RF	U		4	8	2	-	1/8
RF	SERIES						
U 4	FUNCTION U 4 = unidirectional - 0 3 = bidirectional						
8	PORTS 4=G1/4 - 5=M5 - 6=G3/8 - 7=G1/2 - 8=G1/8						
2	FLOW CONTROL RANGE 2 = Ø 1.5 mm max (for ports 1/8 only) Ø 2 mm max (for ports 1/8 only) 3 = Ø 3 mm max (for ports 1/8 only) 4 = Ø 4 mm max (for ports 1/4 only) 6 = Ø 6 mm max (for ports 1/4 only) 7 = Ø 7 mm max (for ports 3/8,1/2 only)						
1/8	PORTS M5 - 1/8 - 1/4 - 3	3/8 - 1/2					

NOTE: to check flow rates and possible combinations, please consult the complete catalogue of Series RFU and RFO, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Flow control valves.



Flow control valves in 316L stainless steel Series XRFU and XRFO

Unidirectional and bidirectional.

Threads: G1/8, G1/4, G3/8, G1/2 1/8 NPT, 1/4 NPT, 3/8 NPT, 1/2 NPT.

Nominal diameter: 6 mm (G1/8), 6 mm (G1/4), 9 mm (G3/8), 10 mm (G1/2),

6 mm (PT1/8), 6 mm (PT1/4), 9 mm (PT3/8), 10 mm (PT1/2)



The unidirectional and bidirectional flow controllers are equipped with G1/8, G1/4, G3/8 and G1/2 ports. All models can be used in environments with aggressive fluids or gases.

GENERAL DATA

Construction	needle-type			
Valve group	unidirectional and bidirectional controller			
Materials	body in 316L stainless steel, FKM seals			
Mounting	with screws in the holes of the valve body or panel mounted			
Threads	G1/8, G1/4, G3/8, G1/2 1/8 NPT, 1/4 NPT, 3/8 NPT, 1/2 NPT			
Installation	in any position			
Operating temperature	-15 ÷ +120°C			
Operating pressure	- 0,5 \div + 16 bar (unidirectional regulator) 0 \div 40 bar (bidirectional regulator)			
Nominal pressure	6 bar			
Nominal diameter	G1/8 = 6 - G1/4 = 6 - G3/8 = 9 - G1/2 = 10 - PT1/8 = 6 - PT1/4 = 6 - PT3/8 = 9 - PT1/2 = 10			
Medium	filtered air without lubrication with unidirectional and bidirectional flow control valves all fluids compatible with the materials of the bidirectional flow control valves			

CODING EXAMPLE

Х	T	RF	U	1/8	PT
X	= INOX				
RF	SERIE				
U	FUNCTION U = unidirectional O = bidirectional				
1/8	PORTS 1/8 1/4 3/8 1/2				
PT	PORTS = gas PT = NPT				

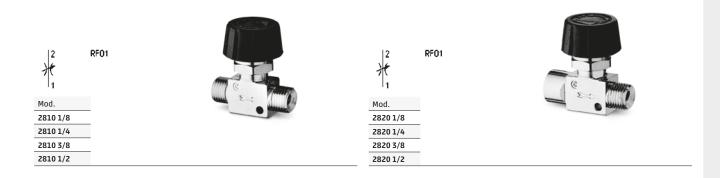
NOTE: to check flow rates and possible combinations, please consult the complete catalogue of Series XRFU e XRFO, available online on the Camozzi Catalogue website at section VALVES AND SOLENOID VALVES > Flow control valves.

CAMOZZI Automation

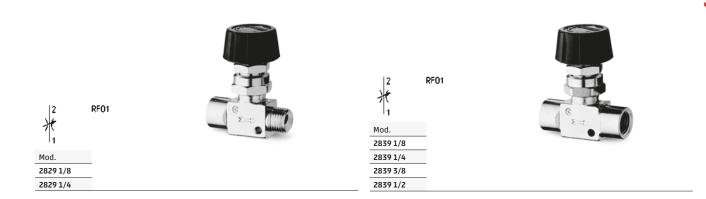
Flow control valves Series 28

Bidirectional

Ports: G1/8, G1/4, G3/8, G1/2









Silencers

Series: 2901, 2903, 2921, 2931, 2938, 2939, 2905

Ports: M5, G1/8, G1/4, G3/8, G1/2, G3/4, G1

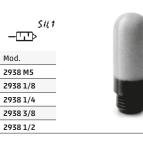






S#1 — <u>□</u> □□>
Mod.
2931 M5
2931 M7
2931 1/8
2931 1/4
2931 3/8
2931 1/2
2931 3/4
2931 1







For flow control valves Mod. SCO and MCO (see the dedicated section)







C∢ CAMOZZI

Silencers in 316L stainless steel

Series: X2901

Threads: G1/8, G1/4, G3/8, G1/2, G3/4, G1 1/8NPT, 1/4NPT, 3/8NPT, 1/2NPT, 3/4NPT, 1NPT



Mod.	
X2901 1/8	X2901 1/4PT
X2901 1/4	X2901 3/8PT
X2901 3/8	X2901 1/2PT
X2901 1/2	X2901 3/4PT
X2901 3/4	X2901 1PT
X29011	
X2901 1/8PT	



Plug-In valve islands, Multipole and Fieldbus Series 3

Plug-In system for Series 3 solenoid valves, G1/8 port. Valve functions: 2x3/2; 5/2 and 5/3-way CO, CC, CP. Multipole with a 25-pin Sub-D connector. It can interface with all major serial communication protocols.



The Multipole version of Series 3 Plug-In valve island can be easily installed thanks to the front position of the Sub-D connector. The accessories of the new connection system to the Series CX serial nets enable to handle up a multipole valve island by means of a Sub-D connector or through a node integrated in the island. The modularity of the electric and pneumatic parts allows to install up to a maximum of 22 solenoids on 22 valve positions.

The electric and pneumatic modules have 2- and 3-position modularity. To optimize the signals distribution, electric modules are available for monostable and bistable valves. The pneumatic modularity enables the creation of zones with differentiated pressure.

Manuals, instruction sheets and configuration files can be found on http://shop.camozzi.com or on the QR code on the lable of the product.

The complete list of components that can be integrated on the pneumatic part and on the electric part of the valve island, can be found in the Series 3 Plug-In catalogue, which is available online on the Camozzi Catalogue website (see section FIELDBUS AND MULTIPOLE SYSTEMS > Valve islands > Series 3 Plug-In valve islands, Multipole and Fieldbus).

GENERAL DATA

GENERAL DATA	
PNEUMATIC SECTION	
Valve construction	spool type with seals
Valve functions	5/2 - 5/3 CC - 5/3 CO - 5/3 CP - 2x3/2 NO - 2x3/2 NC - 1x3/2 NO + 1x3/2 NC
Materials	AL body, stainless steel spool, NBR seals, technopolymer
Mounting	through-out holes in the manifold
Ports	valve = G1/8 - manifold = G3/8
Installation	in any position
Operating temperature	from 0°C to 60°C (with dry air at -20°C)
Nominal flow rate	Qn 700 Nl/min
Nominal diameter	7 mm
Fluid	Filtered air, class [7:4:4] according to ISO 8573-1:2010, without lubrication. If lubricated air is used, it is recommended to use ISO VG32 oil, and to never interrupt the lubrication.
ELECTRICAL SECTION - MULTIPOLE VERSION	
Max absorption	3 A
Type of connection	Multipole 25-pin male Sub-D
Supply voltage	24 V DC +/- 10%
Max number of solenoids	22 on 22 valve positions
Signalling	yellow LED
Duty cycle	ED 100%
Protection class	IP65
ELECTRICAL SECTION - FIELDBUS VERSION	
General characteristics	see the section about the Series CX multi-serial module
Max absorption	digital outputs/analogic inputs and outputs 3A digital/analogic inputs 3 A
Voltage tolerances	logic supply 24 V DC +/- 10%

power supply 24 V DC +/- 10%

CODING EXAMPLE - MULTIPOLE VERSION



3	SERIES
P	TYPE P = Plug-In
8	SIZE 8 = 1/8
03A	CONNECTION 000 = no connector/cable
	CONNECTOR WITH CABLE AXIAL OUTPUT 03A = 3 m 05A = 5 m
	10A = 10 m
	15A = 15 m 20A = 20 m
	25A = 25 m
	CONNECTOR WITH CABLE RADIAL OUTPUT
	03R = 3 m 05R = 5 m
	05K = 5 M 10R = 10 M
	15R = 15 m
	20R = 20 m 25R = 25 m
	CONNECTOR WITHOUT CABLE 4XA = 25-pin axial
	4XR = 25-pin radial
BDACAC	CONFIGURATION OF SUBBASE A = 2 positions with bistable board B = 3 positions with bistable board C = 2 positions with monostable board D = 3 positions with monostable board
2BC3MU2BMXU2B2M	VALVE FUNCTION E = empty position
	M = 5/2 Monostable, internal servo-pilot supply B = 5/2 Bistable, internal servo-pilot supply C = 2x3/2 NC, internal servo-pilot supply A = 2x3/2 NO, internal servo-pilot supply G = 1x3/2 NC + 1x3/2 NO, internal servo-pilot supply H = 5/3 Closed Centres, internal servo-pilot supply K = 5/3 Exhaust Centres, internal servo-pilot supply N = 5/3 Pressure Centres, internal servo-pilot supply
	D = 5/2 Monostable, external servo-pilot supply Y = 5/2 Bistable, external servo-pilot supply Q = 2x3/2 NC, external servo-pilot supply R = 2x3/2 NO, external servo-pilot supply S = 1x3/2 NC + 1x3/2 NO, external servo-pilot supply V = 5/3 Closed Centres, external servo-pilot supply Z = 5/3 Exhaust Centres, external servo-pilot supply W = 5/3 Pressure Centres, external servo-pilot supply
	L = plate with closed free position X = supply plate and supplementary exhausts
	T = diaphragm on channels 1, 3, 5 U = diaphragm in supply 1 J = diaphragm exhausts 3 and 5
G77	SOLENOID MATERIAL G = PA U = PET

3P8-03R-ADCB-2B3MT2M3V-G77: valve island with 10 positions, radial connector and 3-meter cable.

Bases: the first with 2 bistables positions, the second with 3 monostable pos., the third with 2 monostable pos., the fourth with 3 bistable pos. Valves: 2 bistable, 3 monostables, diafragm on channels 1,3,5, 2 monostables, 3 Closed Centres, 24 V Solenoids.

C₹ CAMOZZI



3 S 8 - 01 - 2AQRS - BDACAC - 2BC3MU2BMXU2B2M -

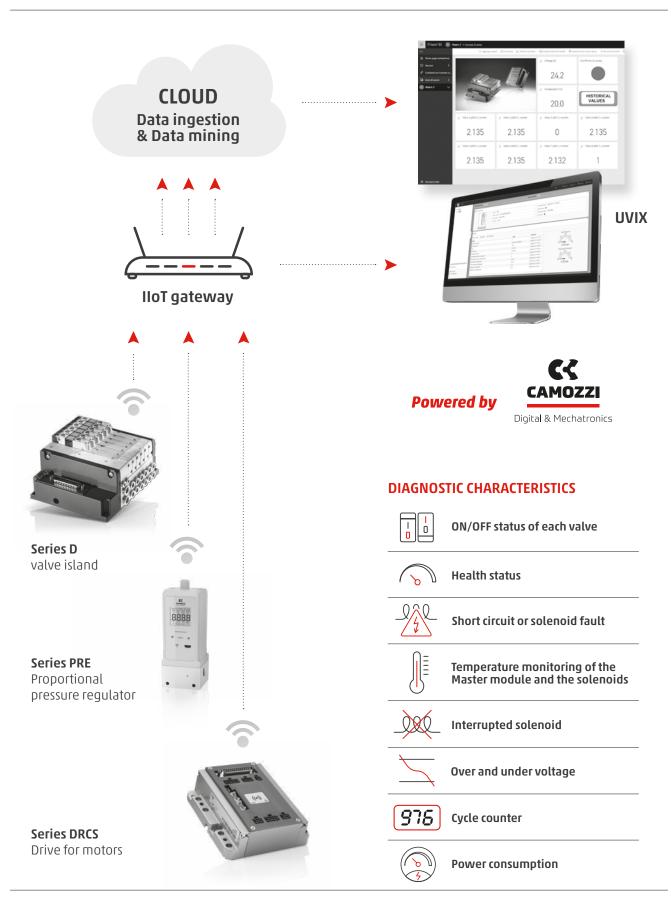
3	SERIES
S	CONNECTION S = Fieldbus
8	SIZE 8 = 1/8
01	PROTOCOL 01 = PROFIBUS-DP 02 = DeviceNet 03 = CANopen 04 = EtherNet/IP 05 = EtherCAT 06 = PROFINET 99 = Expansion Module
2AQRS	INPUT / OUTPUT MODULES 0 = no module A = 8 digital inputs M8 B = 4 digital inputs M8 C = 2 analog inputs 4-20 mA D = 2 analog input 4-20 mA + 1 input 0-10 V Q = 4 M12 duo digital outputs R = 2 analog outputs 4-20 mA T = 2 analog outputs 4-20 mA T = 2 analog outputs 4-20 mA + 1 input 0-10 V V = 1 analog output 4-20 mA + 1 input 0-10 V V = 1 analog output 4-20 mA + 1 input 0-10 V Z = 1 analog output 4-20 mA + 1 input 0-10 V X = 1 analog output 0-10 V + 1 input 0-10 V Y = 1 analog output 0-10 V + 1 input 0-10 V S = Initial subnet module
BDACAC	CONFIGURATION OF SUBBASE A = 2 positions with bistable board B = 3 positions with bistable board C = 2 positions with monostable board D = 3 positions with monostable board
2BC3MU2BMXU2B2M	VALVE FUNCTION E = empty position M = 5/2 Monostable, internal servo-pilot supply B = 5/2 Bistable, internal servo-pilot supply C = 2x3/2 NC, internal servo-pilot supply G = 1x3/2 NC + 1x3/2 NO, internal servo-pilot supply H = 5/3 Closed Centres, internal servo-pilot supply N = 5/3 Exhaust Centres, internal servo-pilot supply N = 5/3 Pressure Centres, internal servo-pilot supply N = 5/3 Pressure Centres, internal servo-pilot supply D = 5/2 Monostable, external servo-pilot supply Y = 5/2 Bistable, external servo-pilot supply Q = 2x3/2 NC, external servo-pilot supply S = 1x3/2 NC, external servo-pilot supply S = 1x3/2 NC, external servo-pilot supply V = 5/3 Closed Centres, external servo-pilot supply Z = 5/3 Exhaust Centres, external servo-pilot supply W = 5/3 Pressure Centres, external servo-pilot supply L = plate with closed free position X = supply plate and supplementary exhausts T = diaphragm on channels 1, 3, 5 U = diaphragm in supply 1 J = diaphragm exhausts 3 and 5
G77	SOLENOID MATERIAL G = PA U = PET

CoilVision® technology

CoilVision® technology has been developed to constantly monitor the operating parameters of the solenoid that drives the spool. Each operation of the solenoid, in different cyclic

configurations and environmental conditions, is analysed to acquire information that is processed by software algorithms to diagnose and predict the health status of the component.







Valve islands, Size 1, Multipole and Fieldbus Series D

Fieldbus connection with the most common communication protocols PROFIBUS-DP, PROFINET, CANopen, EtherNET/IP, EtherCAT and IO-Link Multipole connection with 25 or 44 pins Valve functions: 2x2/2; 2x3/2; 5/2; 5/3 CC, CO, CP





Thanks to the large range of options available, the Series D valve island represent an excellent solution for all those applications that require pneumatic and electrical functions in restricted spaces.

The different electrical connection possibilities allow to create Islands with a high number of valve positions and different pressure zones.

Moreover, the fieldbus version can manage both digital and analog electric input and output signals.

It is possible to configure the code of islands without the Fieldbus communication cover.
The cover with the desired Fieldbus can be assembled next, after installation. Just like the pneumatic section, it is possible to equip the island with free electric modules for subsequent setups with different I/O configurations. It is not necessary to disassemble and disconnect the island from the machine.

Small dimensions, high flows, subbases with individual pneumatic and electric modules, an easy subbase connection system, constant diagnosis and monitoring of performance parameters make this series a particularly innovative product.

One of the features of this series is the monitoring function regarding the correct operating of the solenoid valve.
The electronics installed both in the subbase and in the Sub-D and multi-serial connection module, enables to constantly monitor the efficiency of the driving coil of the solenoid valve.

Possible variations with respect to the ideal operating conditions, for example a higher power consumption, variation in response times and an increased temperature are indicated through different ways of blinking by the LED on the solenoid valve and by an electric alert signal that is sent to the PLC through the Sub-D module connecting cable or, in case of the multi-serial connection module, directly through the communication protocol.

Manual, instruction sheet and configurator are available on the site http://shop.camozzi.com or by means of the QR code on the product's label.

The complete list of components that can be integrated on the pneumatic part and on the electric part of the valve island, can be found in the Series D1 valve islands catalogue, which is available online on the Camozzi Catalogue website (see section FIELDBUS AND MULTIPOLE SYSTEMS > Valve islands > Series D1 valve islands, Multipole and Fieldbus).

C₹ CAMOZZI

GENERAL DATA

PREMIATE SECTION Under construction spool with seals Valve constructions 5/2 monostable and sistable spool with seals Valve functions 5/2 monostable and sistable spool with seals Valve functions 5/2 monostable and sistable spool with seals As 2/2 Vis Ca2/2 Nic 1x2/2 Nic 1x2		
Size monetable and bistable Size Co.C. CP 2.5/2 RIC CP	PNEUMATIC SECTION	
S75 CL, OL, OL, OL, OL, OL, OL, OL, OL, OL, O	Valve construction	spool with seals
ispote seats: NBR body AI context seats: NBR bod	Valve functions	5/3 CC, CO, CP 2x3/2 NC 2x3/2 NO
supply 1: tube 8 8 - 5/16 supply 12/14: tube 8 4 - 5/32 exhaust 3 and 5: tube 8 8 - 5/16 exhaust 72/44: tube 9 4 - 5/32 Temperature 0 - 5°C Air characteristics 10 - 10.5 mm 10 - 10.	Materials	spool seals: HNBR other seals: NBR body: AL end caps: polymer
Temperature 0 + 50°C Air characteristics compressed, filtered and non-lubricated air in class [7.4:4] according to 150 8573-1:2010. In case lubrication should be necessary, only use oils with a maximum viscosity of 32 Cs1 and the version with external serve-pilot supply. The air quality of the serve-pilot supply must be of class [7.4:4] according to 150 8575-1:2010 (do not lubricate). The company of the class [7.4:4] according to 150 8575-1:2010 (do not lubricate). The company of class [7.4:4] according to 150 8575-1:2010 (do not lubricate). The company of class [7.4:4] according to 150 8575-1:2010 (do not lubricate). The company of class [7.4:4] according to 150 8575-1:2010 (do not lubricate). The company of class [7.4:4] according to 150 8575-1:2010 (do not lubricate). The company of class [7.4:4] according to 150 8575-1:2010 (do not lubricate). The company of class [7.4:4] according to 150 8575-1:2010 (do not lubricate). The company of class [7.4:4] according to 150 8575-1:2010 (do not lubricate). The company of class [7.4:4] according to 150 8575-1:2010 (do not lubricate). The company of class [7.4:4] according to 150 8575-1:2010 (do not lubricate). The company of class [7.4:4] according to 150 8575-1:2010 (do not lubricate). The company of class [7.4:4] according to 150 8575-1:2010 (do not lubricate). The company of class [7.4:4] according to 150 8575-1:2010 (do not lubricate). The company of class [7.4:4] according to 150 8575-1:2010 (do not lubricate). The company of class [7.4:4] according to 150 8575-1:2010 (do not lubricate). The company of class [7.4:4] according to 150 8575-1:2010 (do not lubricate). The company of class [7.4:4] according to 150 8575-1:2010 (do not lubricate). The company of class [7.4:4] according to 150 8575-1:2010 (do not lubricate). The company of class [7.4:4] according to 150 8575-1:2010 (do not lubricate). The company of class [7.4:4] according to 150 8575-1:2010 (do not lubricate). T	Connections	supply 1: tube Ø 8 - 5/16 supply 12/14: tube Ø 4 - 5/32 exhaust 3 and 5: tube Ø 8 - 5/16
Air characteristics compressed, filtered and non-lubricated air in class [7-44] according to ISOB 875-1;2010. In case lubrication should be necessary, only use olis with a maximum viscosity of 32 Cst and the version with external servo-pilot supply, the air quality of the servo-pilot supply must be of class [7-44] according to ISOB 875-1;2010 (do not lubricate). Valve sizes Operating pressure Operating pressure 19-10 bar (-0,7-10 bar for 2x5/2 and 2x2/2 versions) Internal pilot pressure 250 N/min Mounting position Protection class 19-65 ELECTRICAL SECTION MULTIPOLE VERSION Type of Sub-D connector 250 r 44 pins Ass. absorption 38 n 19 valve positions (with Sub-D connector 25 pins) 1,5 A (with Sub-D connector 44 pins) Signalling LED Max. number of coils to operate Max. absorption 25. A (with Sub-D connector 44 pins) Signalling LED Willipole; green LED- presence of power red LED- presence of power bulk presence of power bulk presence of power bulk presence of power bulk presence of power red LED- presence of power bulk presence of power red LED- presence of power bulk presence of power red LED- presence of power bulk properties (with Sub-D connector 44 pins) ELECTRICAL SECTION FIELDBUS VERSION ELECTRICAL SECTION FIELDBUS VERSION Ass. number of coils to operate Ass. aumober of digital inputs 4. 28 A v C x - 10% logic supply 24 v C x - 10% logic supply 24 v C x - 10% logic supply 24 v C x - 10% logic supply 25 A v C x - 10% logic supply 26 A v D x - 10% logic supply 27 A v D x - 10% logic supply 28 A v D x - 10% logic supply 28 A v D x - 10% logic supply 29 A v D x - 10% logic supply 29 A v D x - 10% logic supply 20 A v D x - 10% logic supply 20 A v D x - 10% logic supply 20 A v D x - 10% logic supply 20 A v D x - 10% logic supply 20 A v D x - 10% logic supply 20 A v D x - 10% logic supply 20 A v D x - 10% logic supply 20 A v D x - 10% logic supply 20 A v D x - 10% logic supply 20 A v D x - 10% logic	Tomporaturo	
Operating pressure -0,9 + 10 bar (-0,7 - 10 bar for 2x3/2 and 2x2/2 versions) Internal pilot pressure 3 + 7 bar 2x3/2, 2x2/2 External pilot pressure refer to complete catalogue Flow rate 250 NI/min Mounting position ap position Protection class IP 65 ELECTRICAL SECTION MULTIPOLE VERSION 25 or 44 pins Type of Sub-D connector 25 or 44 pins Supply voltage 24 V DC +/ - 10% Max. absorption 0.8 A (with Sub-D connector 25 pins) 1, 5 A (with Sub-D connector 44 pins) Signalling LED Multipole: green LED - presence of power believe the power positions (with Sub-D connector 44 pins) Signalling LED Multipole: green LED - presence of power believe the power pow		compressed, filtered and non-lubricated air in class [7:4:4] according to ISO 8573-1:2010. In case lubrication should be necessary, only use oils with a maximum viscosity of 32 Cst and the version with external servo-pilot supply. The air quality of the servo-pilot supply must be of class [7:4:4] according to ISO 8573-1:2010
Internal pilot pressure 2x3 / 2 x2 / 2 External pilot pressure Flow rate 2x5 0 M/min Mounting position Protection class Profection class ELECTRICAL SECTION MULTIPOLE VERSION Type of Sub-D connector 2x5 or 44 pins Max. absorption 2x5 or 44 pins Max. number of coils to operate 4x7 0 x 1 - 10 x 1 c y	Valve sizes	1 = 10.5 mm
External pilot pressure refer to complete catalogue Flow rate 250 M// min Mounting position protection class Protection Protection class Protection Protection class Protection Protection Class Protection	Operating pressure	-0,9 ÷ 10 bar (-0,7 -10 bar for 2x3/2 and 2x2/2 versions)
Flow rate Mounting position Protection class ELECTRICAL SECTION MULTIPOLE VERSION Type of Sub-D connector Max. absorption Supply voltage 24 V DC +/- 10% Max. number of coils to operate Max. absorption ELECTRICAL SECTION MULTIPOLE VERSION TELEPHONE Supply voltage 24 V DC +/- 10% Max. number of coils to operate ELECTRICAL SECTION FIELDBUS VERSION ELECTRICAL SECTION F	Internal pilot pressure	
Mounting position any position Protection class IP 65 ELECTRICAL SECTION MULTIPOLE VERSION Type of Sub-D connector Max. absorption 25 or 44 pins Max. absorption 3.8 A (with Sub-D connector 25 pins) 1,5 A (with Sub-D connector 44 pins) Supply voltage 24 V D C +/ 10% Max. number of coils to operate 22 on 11 valve positions (with Sub-D connector 44 pins) Signalling LED Multipole: green LED - presence of power receil ED - anomaly valve: yellow LED - operating fault Valve: yellow LED - presence of power blinking yellow LED - operating fault ELCTRICAL SECTION FIELDBUS VERSION 2.5 A Supply voltage 24 V D C +/ 10% logic supply 24 V D C +/ 10% logic sup	External pilot pressure	refer to complete catalogue
Protection class ELECTRICAL SECTION MULTIPOLE VERSION Type of Sub-D connector Ax. absorption By other sub-D connector 25 pins) 1,5 A (with Sub-D connector 25 pins) 1,5 A (with Sub-D connector 44 pins) Supply voltage 24 V DC +/- 10% Max. number of coils to operate 22 on 11 valve positions (with Sub-D connector 25 pins) 38 on 19 valve positions (with Sub-D connector 44 pins) Signalling LED Wiltipole: green LED - presence of power red LED- anomaly Valve: yellow LED- operating fault ELCTRICAL SECTION FIELDBUS VERSION Eneral data See Multi-serial Modules section on the next pages Max. absorption 2.5 A Supply voltage 24 V DC +/-10% logic supply 24 V DC +/-10% power supply Max. number of cigits to operate 128 on 64 valve positions Max. number of digital inputs 128 Max. number of analog inputs 16 Max. number of analog inputs 16 Max. number of analog outputs 10-Link version No Max. number of digital outputs No Class B Unput and Output Type of port 10DD Configuration file (The 10-Link module on the valve island is auto-configured (The 10-Link module on the valve island is auto-configured	Flow rate	250 Nl/min
ELECTRICAL SECTION MULTIPOLE VERSION Type of Sub-D connector Z5 or 44 pins 0.8 A (with Sub-D connector 25 pins) 1,5 A (with Sub-D connector 44 pins) Supply voltage 24 V DC+/-10% Max. number of coils to operate 22 on 11 valve positions (with Sub-D connector 25 pins) 38 on 19 valve positions (with Sub-D connector 44 pins) Signalling LED Multipole: green LED - presence of power red LED - anomaly Valve: yellow LED - presence of power blinking yellow LED - operating fault ELCTRICAL SECTION FIELDBUS VERSION General data See Multi-serial Modules section on the next pages Max. absorption 2.5 A Supply voltage 24 V DC +/-10% logic supply 24 V DC +/-10% power supply Max. number of coils to operate 128 on 64 valve positions Max. number of digital inputs Max. number of digital inputs Max. number of analog jnuts 16 Max. number of analog outputs 100-Link wersion No Class B No Class B Type of port Cl	Mounting position	any position
Type of Sub-D connector Max. absorption 0.8 A (with Sub-D connector 25 pins) 1,5 A (with Sub-D connector 44 pins) Supply voltage 24 V DC +/- 10% Max. number of coils to operate 22 on 11 valve positions (with Sub-D connector 25 pins) 378 on 19 valve positions (with Sub-D connector 44 pins) Signalling LED Multipole: green LED - presence of power red LED - anomaly valve: yellow LED - presence of power binking yellow LED - operating fault ELCTRICAL SECTION FIELDBUS VERSION ELCTRICAL SECTION FIELDBUS VERSION ELCTRICAL SECTION FIELDBUS VERSION 2.5 A See Multi-serial Modules section on the next pages Max. absorption 2.5 A Supply voltage 24 V DC +/- 10% logic supply 24 V DC +/- 10% power supply Max. number of coils to operate Max. number of digital inputs Max. number of digital inputs 128 max. number of digital inputs Max. number of analog inputs Max. number of analog outputs 10-link version Max. number of analog outputs No Class B 10DD Configuration file (The IO-Link module on the valve island is auto-configured (The IO-Link module on the valve island is auto-configured (The IO-Link module on the valve island is auto-configured	Protection class	IP 65
Type of Sub-D connector Max. absorption 0.8 A (with Sub-D connector 25 pins) 1,5 A (with Sub-D connector 44 pins) Supply voltage 24 V DC +/- 10% Max. number of coils to operate 22 on 11 valve positions (with Sub-D connector 25 pins) 378 on 19 valve positions (with Sub-D connector 44 pins) Signalling LED Multipole: green LED - presence of power red LED - anomaly valve: yellow LED - presence of power binking yellow LED - operating fault ELCTRICAL SECTION FIELDBUS VERSION ELCTRICAL SECTION FIELDBUS VERSION ELCTRICAL SECTION FIELDBUS VERSION 2.5 A See Multi-serial Modules section on the next pages Max. absorption 2.5 A Supply voltage 24 V DC +/- 10% logic supply 24 V DC +/- 10% power supply Max. number of coils to operate Max. number of digital inputs Max. number of digital inputs 128 max. number of digital inputs Max. number of analog inputs Max. number of analog outputs 10-link version Max. number of analog outputs No Class B 10DD Configuration file (The IO-Link module on the valve island is auto-configured (The IO-Link module on the valve island is auto-configured (The IO-Link module on the valve island is auto-configured		
Max. absorption 0.8 A (with Sub-D connector 25 pins) 1,5 A (with Sub-D connector 44 pins) Supply voltage 24 V DC +/- 10% Max. number of coils to operate 22 on 11 valve positions (with Sub-D connector 25 pins) 38 on 19 valve positions (with Sub-D connector 44 pins) Signalling LED Wiltipole: green LED - presence of power red LED - anomaly valve: yellow LED - presence of power blinking yellow LED - perating fault ELCTRICAL SECTION FIELDBUS VERSION ELCTRICAL SECTION FIELDBUS VERSION Seen Multi-serial Modules section on the next pages Max. absorption 2.5 A Supply voltage 24 V DC +/-10% logic supply 24 V DC +/-10% power supply Max. number of coils to operate Max. number of digital inputs 128 on 64 valve positions Max. number of digital outputs 128 Max. number of analog inputs 16 Max. number of analog outputs 16 Ol-link version Max no of coils to operate No Class B Up to 12, 24 or 32 valve positions per island (The IO-Link module on the valve island is auto-configured	ELECTRICAL SECTION MULTIPOLE VERSION	
Supply voltage 24 V DC +/- 10% Max. number of coils to operate 22 on 11 valve positions (with Sub-D connector 25 pins) 38 on 19 valve positions (with Sub-D connector 44 pins) Signalling LED Wultipole: green LED - presence of power red LED - anomaly Valve: yellow LED - presence of power oblinking yellow LED - operating fault ELCTRICAL SECTION FIELDBUS VERSION ELCTRICAL SECTION FIELDBUS VERSION General data see Multi-serial Modules section on the next pages Max. absorption 2.5 A Supply voltage 24 V DC +/-10% logic supply 24 V DC +/-10% power supply Max. number of coils to operate 128 on 64 valve positions Max. number of digital inputs 16 Max. number of digital outputs 16 Max. number of digital outputs 16 Max. number of digital outputs 16 No Ol-link version Max n° of coils to operate 64 on 32 valve positions Input and Output No Class B up to 12, 24 or 32 valve positions per island (The IO-Link module on the valve island is auto-configured	Type of Sub-D connector	25 or 44 pins
Max. number of coils to operate 22 on 11 valve positions (with Sub-D connector 25 pins) 38 on 19 valve positions (with Sub-D connector 44 pins) Multipole: green LED - presence of power red LED - anomaly Valve: yellow LED - presence of power blinking yellow LED - operating fault ELCTRICAL SECTION FIELDBUS VERSION ELCTRICAL SECTION FIELDBUS VERSION See Multi-serial Modules section on the next pages Max. absorption 2.5 A Supply voltage 24 V DC +/-10% logic supply 24 V DC +/-10% power supply Max. number of coils to operate 128 on 64 valve positions Max. number of digital inputs 16 Max. number of analog inputs 16 Max. number of analog outputs 16 Mox. number of analog outputs 17 Mox no of coils to operate 18 Mox no of coils to operate 19 Mox no	Max. absorption	
Signalling LED Multipole: green LED - presence of power red LED - anomaly valve: yellow LED - operating fault ELCTRICAL SECTION FIELDBUS VERSION General data see Multi-serial Modules section on the next pages Max. absorption 2.5 A Supply voltage 24 V DC +/-10% logic supply 24 V DC +/-10% power supply Max. number of coils to operate 128 on 64 valve positions Max. number of digital inputs 16 Max. number of analog inputs 16 Max. number of analog outputs 16 Mover supply substantial supply substantial substa	Supply voltage	24 V DC +/- 10%
red LED - anomaly Valve: yellow LED - presence of power blinking yellow LED - presence of power blinking yellow LED - operating fault ELCTRICAL SECTION FIELDBUS VERSION General data see Multi-serial Modules section on the next pages Max. absorption 2.5 A Supply voltage 24 V DC +/-10% logic supply 24 V DC +/-10% power supply Max. number of coils to operate 128 on 64 valve positions Max. number of digital inputs 128 Max. number of analog inputs 16 Max. number of digital outputs 128 Max. number of analog outputs 128 Max. number of analog outputs 16 IO-Link version Max no of coils to operate 64 on 32 valve positions Input and Output No Class B up to 12, 24 or 32 valve positions per island (The IO-Link module on the valve island is auto-configured	Max. number of coils to operate	
General data see Multi-serial Modules section on the next pages Max. absorption 2.5 A Supply voltage 24 V DC +/-10% logic supply 24 V DC +/-10% power supply Max. number of coils to operate 128 on 64 valve positions Max. number of digital inputs 128 Max. number of analog inputs 16 Max. number of digital outputs 128 Max. number of digital outputs 16 Max. number of analog outputs 16 IO-Link version Max n° of coils to operate Input and Output No Type of port IODD Configuration file (The IO-Link module on the valve island is auto-configured (The IO-Link module on the valve island is auto-configured)	Signalling LED	red LED - anomaly Valve: yellow LED - presence of power
General data see Multi-serial Modules section on the next pages Max. absorption 2.5 A Supply voltage 24 V DC +/-10% logic supply 24 V DC +/-10% power supply Max. number of coils to operate 128 on 64 valve positions Max. number of digital inputs 128 Max. number of analog inputs 16 Max. number of digital outputs 128 Max. number of digital outputs 16 Max. number of analog outputs 16 IO-Link version Max n° of coils to operate Input and Output No Type of port IODD Configuration file (The IO-Link module on the valve island is auto-configured (The IO-Link module on the valve island is auto-configured)	FICTRICAL CECTION FIFT DRUG VERGION	
Max. absorption 2.5 A Supply voltage 24 V DC +/-10% logic supply 24 V DC +/-10% power supply Max. number of coils to operate 128 on 64 valve positions Max. number of digital inputs 128 Max. number of analog inputs 16 Max. number of digital outputs 128 Max. number of digital outputs 16 Max. number of analog outputs 16 IO-Link version Max n° of coils to operate Input and Output No Type of port Class B IODD Configuration file (The IO-Link module on the valve island is auto-configured		roa Multi carial Madular section on the post asses
Supply voltage 24 V DC +/-10% logic supply 24 V DC +/-10% power supply Max. number of coils to operate 128 on 64 valve positions Max. number of digital inputs 16 Max. number of analog inputs 16 Max. number of digital outputs 128 Max. number of analog outputs 16 IO-Link version 16 Max n° of coils to operate 164 on 32 valve positions 19 linput and Output 19 linput and Output 19 linput 24 or 32 valve positions 10 linput 32 valve positions 10 linput 32 valve positions 10 linput 33 valve positions 10 linput 34 or 35 valve positions 10 linput 35 valve positions 10 linput 36 valve positions per island 19 linput 32 valve positions per isla		
Max. number of coils to operate Max. number of digital inputs Max. number of analog inputs Max. number of digital outputs Max. number of digital outputs Max. number of analog outputs 16 IO-Link version Max n° of coils to operate Input and Output Type of port IODD Configuration file Max not on the valve island is auto-configured (The IO-Link module on the valve island is auto-configured		24 V DC +/-10% logic supply
Max. number of digital inputs Max. number of analog inputs 16 Max. number of digital outputs 128 Max. number of analog outputs 16 IO-Link version Max n° of coils to operate Input and Output No Type of port Class B IODD Configuration file Up to 12, 24 or 32 valve positions per island (The IO-Link module on the valve island is auto-configured	Max. number of coils to operate	
Max n° of coils to operate Input and Output64 on 32 valve positions NoType of port IODD Configuration fileClass B up to 12, 24 or 32 valve positions per island(The IO-Link module on the valve island is auto-configured	Max. number of digital inputs Max. number of analog inputs Max. number of digital outputs	128 16 128
	Max n° of coils to operate Input and Output Type of port IODD Configuration file (The IO-Link module on the valve island is auto-configured	No Class B

More information can be found at http://shop.camozzi.com Series D > Download



CODING EXAMPLE - MULTIPOLE VERSION

DM	C	1	M	W	R	Α	-	15R	-	5BX5B	-	4B3C3V	-	CS	R	
----	---	---	---	---	---	---	---	-----	---	-------	---	--------	---	----	---	--

DM	MODULAR ISLAND				
С	VALVE C= VC Model				
1	SIZE 1= 10,5 mm				
M	ELECTRICAL CONNECTION M = Multipole 25 pin PNP Q = Multipole 44 pin PNP				
W	INTERFACE 0 = without interface W = WLAN				
R	MANUAL OVERRIDE P = push button R = with push and turn device				
A	SERVO-PILOT SUPPLY A = internal B = external				
15R	CONNECTOR 0 = without connector CONNECTOR R WITH CABLE 03R = 3 mt 05R = 5 mt 10R = 10 mt 15R = 15 mt 20R = 20 mt 25R = 25 mt				
5BX5B	SUBBASES DIAPHRAGM Metric: A = cartridges tube Ø4 B = cartridges tube Ø6 G	ugh solenoid valve (E;F)* IT SUPPLY# xternal al ernal # grated silencer JITH EXTERNAL SERVO-PILOT SUPPLY i) 1) and exhausts (3, 5) gm on channel 1	70		
4B3C3V	VALVES M = 5/2 monostable B = 5/2 bistable C = 2X3/2 NC D A = 2 X 3/2 NO H	= 3/2 NC for internal servo-pilot c = 3/2 NC for external servo-pilot c = 2x2/2 NC = 2x2/2 NO = 1x2/2 NC + 1x2/2 NO			
CS	C = cartridge Ø 8	nches: C = cartridges for tube Ø 5/16" CS = cartridges for tube Ø5/16" 3,5	with silencers		
R	FIXING TYPE = direct R = DIN rail				

* = The subbase is equipped with a cartridge Ø4 (Ø5/32").

** = Solenoid valve for subbase model J.

The choice of the cartridge made in the Terminal Plates section is also valid for the diaphragm and additional subbases.

QT, RT, ST, XT models have a 12/14 cartridge tube Ø4 (Ø5/32").

CODING EXAMPLE - FIELDBUS VERSION



DM	MODULAR ISLAND							
С	VALVE C= VC Model							
1	SIZE 1= 10,5 mm							
01	PROTOCOL 00 = Base without Fieldbus cover*** 01 = PROFIBUS 03 = CANopen 04 = Ethernet/IP 05 = Ethercat 06 = PROFINET 07 = IO-LINK (cannot be configured with input and output modules)							
W	INTERFACE 0 = without interface W = WL	.AN						
R	MANUAL OVERRIDE P = push button R = with push and turn device							
Α	SERVO-PILOT SUPPLY A = internal B = exte	ernal						
2A2Q	D = 2 Analog inputs (config. 0-10\text{VE}) E = 2 Inputs, BRIDGE M12 F = 2 Inputs, BRIDGE, TERMINAL BLI G = 2 Inputs, RTD M12 (PT100, PT2 H = 2 Inputs, RTD TERMINAL BLOCK L = 2 Inputs, TC M12 (THERMOCOU) M = 2 Inputs, TC TERMINAL BLOCK Q = 8 Digital outputs M8 R = 16 Digital outputs, terminal bi T = 2 Analog outputs (config. 0-10	V,±10V,0-20mA,4-20mA,±20mA) M12 V,±10V,0-20mA,4-20mA,±20mA), termina OCK CONNECTION 100, PT500, PT1000) 1 C CONNECTION (PT100, PT200, PT500, PT100 PLES) 100NNECTION (THERMOCOUPLES) 10ck connection OV,±10V,0-20mA, 4-20mA,±20mA), M12 OV,±10V,0-20mA,4-20mA,±20mA), termin ctors) ectors)	00)					
2A2BQH4AX4B		s: Intridges for tube Ø5/32" Intridges for tube Ø1/4"						
	WITH DIAPHRAGM AND EXTÉRNAL S QT = Diaphragm on channels 1, 3, RT = Diaphragm on channels 1, 12, ST = Diaphragm on channels 3, 5; WITH DIAPHRAGM AND INTEGRATE QH = Diaphragm on channels 1, 3 RH = Diaphragm on channel 1 SH = Diaphragm on channels 3, 5 SUBBASE FOR ADDITIONAL FLOW# X = Supply (1) and exhausts (3, 5) XH = Supply (1) and exhausts (3, 5)	ontrol through solenoid valve (E;F)* SERVO-PILOT SUPPLY# .5; 12/14 External /14 External D SILENCER# ., 5 with integrated silencer NAL FLOW WITH EXTERNAL SERVO-PILOT SUP hausts (3, 5) y - supply (1) and exhausts (3, 5)	PLY#					
	# = These subbases are already pr	rovided with cartridges for tube Ø8; Ø5/10	5"					
3M2L3M2B2C	B = 5/2 Bistable K C = 2x3/2 NC N A = 2x3/2 NO L	/ = 5/3 CC (= 5/3 CO = 5/3 CP = Free position V = Position without valve	$E = 3/2 \text{ NC for internal servo-pilot control (tine 1)} ^{\pm \pm}$ $F = 3/2 \text{ NC for external servo-pilot control} ^{\pm \pm}$ $D = 2x2/2 \text{ NC}$ $H = 2x2/2 \text{ NO}$ $R = 1x2/2 \text{ NC} + 1x2/2 \text{ NO}$					
CS	TERMINAL PLATES Cartridges on tube ports 1, 3, 5 Metric: C = Cartridge tube Ø 8 CS = Cartridge tube Ø 8 3,5 with si	Inches: C = Cartridge tube Ø 5/16" ilencer CS = Cartridge tube Ø 5/16" 3,!	5 with silencers					
R	FIXING TYPE = direct R = DIN rail							

* = The subbase is equipped with a cartridge Ø4 (Ø5/32").

*** = Solenoid valve for subbase model J.

*** = With the 00 protocol, the possible interface is 0, for example: DMC1000RA-...

**** = The closed base without I/O cover always has to be put after the other modules, if present.

For example: DMC101WRA-2A2QW... The choice of the cartridge made in the Terminal Plates section is also valid for the diaphragm and additional subbases.

QT, RT, ST, XT models have a 12/14 cartridge tube Ø4 (Ø5/32").



Valve islands, Size 2, Multipole and Fieldbus Series D

Fieldbus connection with the most common communication protocols PROFIBUS-DP, PROFINET, CANopen, EtherNET/IP, EtherCAT and IO-Link Multipole connection with 25 or 44 pins Valve functions: 2x3/2; 5/2; 5/3 CC, CO, CP





Thanks to the large range of options available, the Series D2 valve island represent an excellent solution for all those applications that require pneumatic and electrical functions in restricted spaces.

The different electrical connection possibilities allow to create Islands with a high number of valve positions and different pressure zones. Moreover, the fieldbus version can manage both digital and analog electric input and output signals.

Small dimensions, high flows, subbases with individual pneumatic and electric modules, an easy subbase connection system, constant diagnosis and monitoring of performance parameters make this series a particularly innovative product.

One of the features of this series is the monitoring function regarding the correct operating of the solenoid valve.
The electronics installed both in the subbase and in the Sub-D and multi-serial connection module, enables to constantly monitor the efficiency of the driving coil of the solenoid valve.

Possible variations with respect to the ideal operating conditions, for example a higher power consumption, variation in response times and an increased temperature are indicated through different ways of blinking by the LED on the solenoid valve and by an electric alert signal that is sent to the PLC through the Sub-D module connecting cable or, in case of the multi-serial connection module, directly through the communication protocol.

Manual, instruction sheet and configurator are available on the site http://shop.camozzi.com or by means of the QR code on the product's label.

C₹ CAMOZZI

GENERAL DATA

GENERAL DATA	
PNEUMATIC SECTION	
Valve construction	spool with seals
Valve functions	5/2 monostable and bistable 5/3 CC, CO, CP 2x3/2 NC 2x3/2 NO 2x2/2 NO + 1x2/2 NC 1x2/2 NO
Materials	spool: AL spool seals: HNBR other seals: NBR body: AL end caps: polymer subbase size 1: polymer
Connections	outlet 2 and 4, tube Ø6, Ø8, Ø10 supply 1: tube Ø10, Ø12, Ø14 supply 12/14: tube Ø4 exhaust 3 and 5: tube Ø10, Ø12, Ø14 exhaust 82/84: tube Ø4
Temperature	0 ÷ 50°C
Air characteristics	compressed, filtered and non-lubricated air in class [7:4:4] according to ISO 8573-1:2010. In case lubrication should be necessary, only use oils with a maximum viscosity of 32 Cst and the version with external servo-pilot supply. The air quality of the servo-pilot supply must be of class [7:4:4] according to ISO 8573-1:2010 (do not lubricate).
Valve sizes	2 = 16 mm
Operating pressure	-0,9 ÷ 10 bar (-0,7 -10 bar for 2x3/2 and 2x2/2 versions)
Internal pilot pressure	$3 \div 7$ bar $4,5 \div 7$ bar (with operating pressure exceeding 6 bar for the version 2x3/2)
External pilot pressure	refer to complete catalogue
Flow rate	950 NI/min
Mounting position	any position
Protection class	IP 65
ELECTRICAL SECTION MULTIPOLE VERSION	
Type of Sub-D connector	25 or 44 pins
Max. absorption	0.8 A (with Sub-D connector 25 pins) 1,5 A (with Sub-D connector 44 pins)
Supply voltage	24 V DC +/- 10%
Max. number of coils to operate	22 on 11 valve positions (with Sub-D connector 25 pins) 38 on 19 valve positions (with Sub-D connector 44 pins)
Signalling LED	Multipole: green LED - presence of power red LED - anomaly Valve: yellow LED - presence of power blinking yellow LED - operating fault
ELCTRICAL SECTION FIELDBUS VERSION	
General data	see Multi-serial Modules section on the next pages
Max. absorption	2.5 A
Supply voltage	24 V DC +/-10% logic supply 24 V DC +/-10% power supply
Max. number of coils to operate	128 on 64 valve positions
Max. number of digital inputs Max. number of analog inputs Max. number of digital outputs Max. number of analog outputs	128 16 128 16
IO-Link version Max n° of coils to operate Input and Output Type of port IODD Configuration file	64 on 32 valve positions No Class B up to 12, 24 or 32 valve positions per island

(The IO-Link module on the valve island

is auto-configured to operate with the right IODD)

More information can be found at http://shop.camozzi.com

Series D > Download

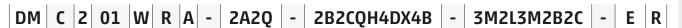
C₹ CAMOZZI **CODING EXAMPLE - MULTIPOLE VERSION**

DM	C	2	M	W	R	Α	_	15R	-	4BQH4CX3D	-	3M2L3M2BC	-	DS	R	
----	---	---	---	---	---	---	---	-----	---	-----------	---	-----------	---	----	---	--

DM	MODULAR ISLAND
С	VALVE C= VC Model
2	SIZE 2 = 16 mm
M	ELECTRICAL CONNECTION M = Multipole 25 pin PNP Q = Multipole 44 pin PNP
W	INTERFACE 0 = without interface W = WLAN
R	MANUAL OVERRIDE P = push button R = with push and turn device
Α	SERVO-PILOT SUPPLY A = internal B = external
15R	CONNECTOR 0 = without connector CONNECTOR R WITH CABLE 03R = 3 mt 05R = 5 mt 10R = 10 mt 15R = 15 mt 20R = 20 mt 25R = 25 mt
4BQH4CX3D	SUBBASES Metric: Inches: B = cartridges tube Ø4 L = cartridges tube Ø1/4" C = cartridges tube Ø8 C = cartridges tube Ø5/16" D = cartridges tube Ø10 P = cartridges tube Ø3/8" SUBBASES DIAPHRAGM # Q = diaphragm on channels 1, 3, 5 R = diaphragm on channels 3 and 5 J = Subbase (D1) for servo-pilot control through solenoid valve (E;F)* WITH DIAPHRAGM AND EXTERNAL SERVO-PILOT SUPPLY # QT = diaphragm on channels 1, 3, 5; 12/14 external RT = diaphragm on channels 3, 5; 12/14 external RT = diaphragm on channels 1, 3, 5; 12/14 external WITH DIAPHRAGM AND INTEGRATED SILENCER # QH = diaphragm on channels 1, 3, 5 RH = diaphragm on channels 3, 5; 52/14 external WITH DIAPHRAGM AND INTEGRATED SILENCER # QH = diaphragm on channels 3, 5; 5 SUBBASE FOR ADDITIONAL FLOW # X = supply (1) and exhausts (3, 5) with integrated silencer INTERFACE SUBBASE FOR ADDITIONAL FLOW WITH EXTERNAL SERVO-PILOT SUPPLY # XT = additional supply (1) and exhausts (3, 5) FOR POWER SUPPLY # X = separation of power supply - supply (1) and exhausts (3, 5) Z = separation of power supply - diaphragm on channel 1 # = These subbases are already provided with cartridges for tube Ø8; Ø5/16"
3M2L3M2BC	VALVES M = 5/2 monostable E = 3/2 NC for internal servo-pilot control (Line 1)** B = 5/2 bistable F = 3/2 NC for external servo-pilot control** C = 2x3/2 NC D = 2x2/2 NC A = 2x3/2 NO H = 2x2/2 NO G = 1x3/2 NC + 1x3/2 NO R = 1x2/2 NC + 1x2/2 NO V = 5/3 CC K = 5/3 CO N = 5/3 CP L = free position U = position without valve U = position without valve
DS	TERMINAL PLATES Tube dimensions for port sizes 1,3,5 Metric: Inches: D = cartridge Ø 10 DS = cartridge Ø 10 and external silencer (2939-10) P = cartridge Ø 3/8" E = cartridge Ø 12 ES = cartridge Ø 12 and external silencer (2939-12) R = cartridge Ø 1/2"
R	FIXING TYPE = direct R = DIN rail

^{* =} The subbase is equipped with a cartridge Ø4 (Ø5/32").
** = Solenoid valve for subbase model J.
The choice of the cartridge made in the Terminal Plates section is also valid for the diaphragm and additional subbases.
QT, RT, ST, XT models have a 12/14 cartridge tube Ø4 (Ø5/32").

CODING EXAMPLE - FIELDBUS VERSION



DM	MODULAR ISLAND		
C	VALVE C= VC Model		
2	SIZE 2= 16 mm		
01	PROTOCOL 00 = Base without Fieldbus coverage*** 01 = PROFIBUS 03 = CANopen 04 = Ethernet/IP	05 = Ethercat 06 = PROFINET 07 = 10-LINK (not configurable with input ar	nd output modules)
W	INTERFACE 0 = without interface	W = WLAN	
R	MANUAL OVERRIDE P = push button R = with push and turn device		
Α	SERVO-PILOT SUPPLY A = internal	B = external	
2A2Q	INPUT AND OUTPUT MODULES 0 = without A = 8 Digital inputs M8 B = 16 Digital inputs, terminal block connectic C = 2 Analog inputs (config. 0-10V,±10V,0-20) D = 2 Analog inputs (config. 0-10V,±10V,0-20) E = 2 Inputs, BRIDGE M12 F = 2 Inputs, BRIDGE M12 F = 2 Inputs, RTD M12 (PT100, PT200, PT500, IMPLICATION, PT200, PT500, IMPLICATION, RTD M12 (PT100, PT200, PT500, IMPLICATION, RTD TERMINAL BLOCK CONNECTION D = 2 Inputs, RTD TERMINAL BLOCK CONNECTION Q = 8 Digital outputs M8 E = 16 Digital outputs, terminal block connect T = 2 Analog outputs (config. 0-10V,±10V,0-2 U = 2 Analog outputs (config. 0-10V,±10V,0-2 U = 2 Analog outputs (4 M12 connectors) Y = 8 Digital outputs (4 M12 connectors) W***** = Closed base without I/O cover	mA,4-20mA,±20mA) M12 mA,4-20mA,±20mA), terminal block STION VT1000) N (PT100, PT200, PT500, PT1000) (THERMOCOUPLES)	
2B2BQH4DX4B	C = Cartridges tube Ø8 C = Cartrid	SUPPLY # ternal trial trial grated silencer TH EXTERNAL SERVO-PILOT SUPPLY# and exhausts (3, 5) on channel 1	
3M2L3M2B2C	VALVES M = 5/2 Monostable B = 5/2 Bistable C = 2x3/2 NC A = 2x3/2 NO G = 1x3/2 NC + 1x3/2 NO	V = 5/3 CC K = 5/3 C0 N = 5/3 CP L = Free position W = Position without valve	E = 3/2 NC for internal servo-pilot control (Line 1)** F = 5/2 NC for external servo-pilot control ** D = 2x2/2 NC H = 2x2/2 NO R = 1x2/2 NC + 1x2/2 NO
E		ube Ø10 with external silencer (2939-10) 10 Ø12 e silenziatore esterno (2939-12)	Inches: P = Boccola tubo Ø3/8" R = Boccola tubo Ø1/2"
R	FIXING TYPE = direct R = DIN rail		

* = The subbase is equipped with a cartridge Ø4 (Ø5/32").

** = Solenoid valve for subbase model J.

*** = With the 00 protocol, the possible interface is 0, for example: DMC1000RA-...

**** = The closed base without I/O cover always has to be put after the other modules, if present.

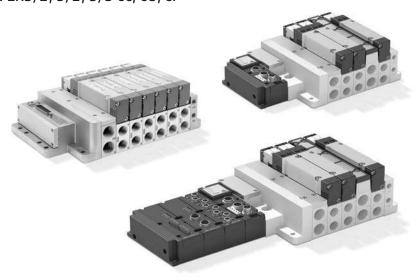
For example: DMC101WRA-2A2QW... The choice of the cartridge made in the Terminal Plates section is also valid for the diaphragm and additional subbases. QT, RT, ST, XT models have a 12/14 cartridge tube Ø4 (Ø5/32").



Valve islands, Size 4, Multipole and Fieldbus Series D

Fieldbus connection with the most common communication protocols PROFIBUS-DP, PROFINET, CANopen, EtherNET/IP, EtherCAT and IO-Link Multipole connection with 25 or 44 pins Valve functions: 2x3/2; 5/2; 5/3 CC, CO, CP





Thanks to the large range of options available, the Series D valve island represent an excellent solution for all those applications that require pneumatic and electrical functions in restricted spaces.

The different electrical connection possibilities allow to create Islands with a high number of valve positions and different pressure zones. Moreover, the fieldbus version can manage both digital and analog electric input and output signals.

Small dimensions, high flows, subbases with individual pneumatic and electric modules, an easy subbase connection system, constant diagnosis and monitoring of performance parameters make this series a particularly innovative product.

One of the features of this series is the monitoring function regarding the correct operating of the solenoid valve.
The electronics installed both in the subbase and in the Sub-D and multi-serial connection module, enables to constantly monitor the efficiency of the driving coil of the solenoid valve.

Possible variations with respect to the ideal operating conditions, for example a higher power consumption, variation in response times and an increased temperature are indicated through different ways of blinking by the LED on the solenoid valve and by an electric alert signal that is sent to the PLC through the Sub-D module connecting cable or, in case of the multi-serial connection module, directly through the communication protocol.

Manual, instruction sheet and configurator are available on the site http://shop.camozzi.com or by means of the QR code on the product's label.

CAMOZZI

GENERAL DATA		
PNEUMATIC SECTION		
Valve construction	spool with seals	
Valve functions	5/2 monostable and bistable 5/3 CC, CO, CP	

2x3/2 NC 2x3/2 NO 1x3/2 NC +1x3/2 NO

Materials spool: AL spool seals: HNBR other seals: NBR body: AL

end caps: polymer individual subbase: AL

Connections inlet 2 and 4, threaded G 3/8

> supply 1: G 1/2 supply 12/14: G 1/8

exhaust 3 and 5: G 1/2 or integrated silencer exhaust 82/84: G 1/8

Temperature

Air characteristics compressed, filtered and non-lubricated air in class [7:4:4] according to ISO 8573-1:2010. In case lubrication should be necessary, only use oils with a maximum viscosity of 32 Cst

and the version with external servo-pilot supply.

The air quality of the servo-pilot supply must be of class [7:4:4] according to ISO 8573-1:2010

(do not lubricate). 4 = 25 mm

Valve sizes Operating pressure -0,9 ÷ 10 bar Internal pilot pressure 2,5 ÷ 7 bar

 $4,5 \div 7$ bar (with operating pressure exceeding 6 bar for the version 2x3/2)

External pilot pressure refer to complete catalogue

2000 Nl/min Mounting position any position **Protection class** IP 65

ELECTRICAL SECTION MULTIPOLE VERSION

Type of Sub-D connector 25 or 44 pins

0.8 A (with Sub-D connector 25 pins) Max. absorption

1 A (with Sub-D connector 44 pins)

24 V DC +/- 10% Supply voltage

22 on 11 valve positions (with Sub-D connector 25 pins) Max. number of coils to operate

38 on 19 valve positions (with Sub-D connector 44 pins)

Multipole: green LED - presence of power Signalling LED

red LED - anomaly Valve: yellow LED - presence of power blinking yellow LED - operating fault

ELCTRICAL SECTION FIELDBUS VERSION

see Multi-serial Modules section on the next pages General data

Max. absorption

Supply voltage 24 V DC +/-10% logic supply 24 V DC +/-10% power supply

Max. number of coils to operate 128 on 64 valve positions

Max. number of digital inputs 128 Max. number of analog inputs 16 Max. number of digital outputs 128 Max. number of analog outputs 16

IO-Link version

Max n° of coils to operate 64 on 32 valve positions

Input and Output Type of port

IODD Configuration file up to 12, 24 or 32 valve positions per island

(The IO-Link module on the valve island is auto-configured

to operate with the right IODD)

More information can be found at http://shop.camozzi.com

Series D > Download

C₹ CAMOZZI

CODING EXAMPLE - MULTIPOLE VERSION

DM C 4 M W R A - 03R - XHCDQ2DXHE - 2MB2C	-	E	E	R	
---	---	---	---	---	--

	MODIFIAND
DM	MODULAR ISLAND
C	VALVE C= VC Model
4	SIZE 4= 25 mm
М	ELECTRICAL CONNECTION M = Multipole 25 pin PNP Q = Multipole 44 pin PNP
W	INTERFACE 0 = without interface W = WLAN
R	MANUAL OVERRIDE P = push button R = with push and turn device
Α	SERVO-PILOT SUPPLY A = internal B = external C = external with fitting (S6510 6-1/8) and threaded silencer (2931 1/8) D = internal with integrated silencer
03R	CONNECTOR 0 = without connector CONNECTOR R WITH CABLE 03R = 3 mt 05R = 5 mt 10R = 10 mt 15R = 15 mt 20R = 20 mt 25R = 25 mt
XHCDQ2DXHE	SUBBASES K = threaded subbase C = with fittings for tube Ø8 (\$6510 8-3/8) D = with fittings for tube Ø10 (\$6510 10-3/8) E = with fittings for tube Ø12 (\$6510 12-3/8) F = with fittings for tube Ø14 (\$6510 14-3/8) SEALS Q = seal on channels 1, 3, 5 R = seal on channels 1 V = seal on channels 3 and 5 INITIAL SUBBASE/INTERMEDIATE:* X = supply (1) and exhausts (3, 5) XS = supply (1) and exhausts (3, 5) with threaded silencer (2931 1/2) XH = supply (1) and exhausts (3, 5) with silencer * These subbases use the connection described in the Terminal Plates menu
2MB2C	VALVES M = 5/2 monostable B = 5/2 bistable C = 2x3/2 NC A = 2x3/2 NO G = 2x3/2 (NC+NO) V = 5/3 CC K = 5/3 CO N = 5/3 CP L = free position W = position without valve
E	TERMINAL PLATES CONNECTIONS K = threaded G 3/8 D = with fittings for tube Ø10 (S6510 10-1/2) E = with fittings for tube Ø12 (S6510 12-1/2) F = with fittings for tube Ø14 (S6510 14-1/2) G = with fittings for tube Ø16 (S6510 16-1/2)
R	FIXING TYPE = direct R = DIN rail

The choice of the fitting made in the Terminal Plates section is also valid for the initial subbase/intermediate

CODING EXAMPLE - FIELDBUS VERSION



DM	MODULAR ISLAND
С	VALVE C= VC Model
4	SIZE 4= 25 mm
01	PROTOCOL 00 = Base without Fieldbus cover* 01 = PROFIBUS 03 = CANopen 04 = Ethernet/IP 05 = Ethercat 06 = PROFINET 07 = IO-LINK (cannot be configured with input and output modules)
W	INTERFACE 0 = without interface W = WLAN
R	MANUAL OVERRIDE P = push button R = with push and turn device
Α	SERVO-PILOT SUPPLY A = internal B = external C = external with fitting (6512 6-1/8) and threaded silencer (2931) D = internal with silencer
2A2Q	INPUT AND OUTPUT MODULES 0 = without A = 8 Digital inputs M8 B = 16 Digital inputs, terminal block connection (Push-in) C = 2 Analog inputs (config. 0-10V,±10V,0-20mA,4-20mA), #20mA) M12 D = 2 Analog inputs (config. 0-10V,±10V,0-20mA,4-20mA), terminal block connection (Push-in) E = 2 Inputs, BRIDGE M12 F = 2 Inputs, BRIDGE, terminal block connection (Push-in) G = 2 Inputs, RTD M12 (PT100, PT200, PT500, PT1000) H = 2 Inputs, RTD terminal block connection (Push-in) (PT100, PT200, PT500, PT1000) L = 2 Inputs, TC M12 (THERMOCOUPLES) M = 2 Inputs, TC terminal block connection (Push-in) (THERMOCOUPLES) Q = 8 Digital outputs M8 B = 16 Digital outputs M8 B = 16 Digital outputs, terminal block connection (Push-in) T = 2 Analog outputs (config. 0-10V,±10V,0-20mA, 4-20mA,±20mA), M12 U = 2 Analog outputs (Config. 0-10V,±10V,0-20mA,4-20mA,±20mA), terminal block (Push-in) P = 8 Digital inputs (4 M12 connectors) Y = 8 Digital outputs (4 M12 connectors) W ^{®®} = Closed base without I/O cover
XHCDQ2SXHE	SUBBASES K = threaded subbase C = with fittings for tube Ø8 (S6510 8-3/8) D = with fittings for tube Ø10 (S6510 10-3/8) E = with fittings for tube Ø12 (S6510 12-3/8) F = with fittings for tube Ø14 (S6510 14-3/8) SEALS Q = seal on channels 1, 3, 5 R = seal on channels 1 V = seal on channels 3 and 5 INITIAL SUBBASE/INTERMEDIATE:* X = supply (1) and exhausts (3, 5) XS = supply (1) and exhausts (3, 5) with threaded silencer (2931) XH = supply (1) and exhausts (3, 5) with silencer * These subbases use the connection described in the Terminal Plates menu
2MB2C	VALVES M = 5/2 Monostable B = 5/2 Bistable C = 2x3/2 NC A = 2x3/2 NO G = 2x3/2 (NC+NO) V = 5/3 CC K = 5/3 CO N = 5/3 CP L = Free position W = position without valve
E	TERMINAL PLATES CONNECTIONS K = threaded G 3/8 D = with fittings for tube Ø10 (S6510 10-1/2) E = with fittings for tube Ø12 (S6510 12-1/2) F = with fittings for tube Ø14 (S6510 14-1/2) G = with fittings for tube Ø16 (S6510 16-1/2)
R	FIXING TYPE = direct R = DIN rail

The choice of the fitting made in the Terminal Plates section is also valid for the initial subbase/intermediate
*With the 00 protocol, the possibile interface is 0, for example: DMC4000RA-...
**The closed base without I/O cover must always be placed after the other modules if present e.g.: DMC401WRA-2A2QW...



Valve islands, Size 5, Multipole and Fieldbus Series D

Fieldbus connection with the most common communication protocols PROFIBUS-DP, PROFINET, CANopen, EtherNET/IP, EtherCAT and IO-Link Multipole connection with 25 or 44 pins Valve functions: 2x2/2; 2x3/2; 5/2; 5/3 CC, CO, CP





In this configuration, Series D1 and D2 valves (size 10,5 and 16 mm) can be combined into one unique Island. Some benefits of this version are the small dimensions, only one Multipole or Serial connection point, easy installation and the possibility to have different flow rates.

remain unvaried, while for size D1 a longer subbase is used. All electric and pneumatic components and characteristics of the single versions

remain unvaried.

All size D2 components of this configuration Manuals, instruction sheets and configuration files are available on http://shop.camozzi.com or through the QR code you can find on the product label.

GENERAL DATA

PNEUMATIC SECTION	
Valve construction	spool with seals
Valve functions	
Materials	spool: AL spool seals: HNBR other seals: NBR body: AL end caps: polymer subbase size 1: polymer
Connections	size 10,5: tube Ø 4, tube Ø 6 size 16: tube Ø 6, tube Ø 8, tube Ø 10 supply 1: tube Ø 10, tube Ø 12, tube Ø 14 supply 12/14: tube Ø 4 exhaust 3 and 5: tube Ø 10, tube Ø 12, tube Ø 14 exhaust 82/84: tube Ø 4
Temperature	0 ÷ 50°C
Air characteristics	compressed, filtered and non-lubricated air in class [7:4:4] according to ISO 8573-1:2010. In case lubrication should be necessary, only use oils with a maximum viscosity of 32 Cst and the version with external servo-pilot supply. The air quality of the servo-pilot supply must be of class [7:4:4] according to ISO 8573-1:2010 (do not lubricate).
Valve sizes	5 = 10,5 and 16 mm
Operating pressure	-0,9 ÷ 10 bar
Internal pilot pressure	$3 \div 7$ bar $4,5 \div 7$ bar (with operating pressure exceeding 6 bar for the version $2 \times 3/2$)
External pilot pressure	refer to complete catalogue
Flow rate	10,5 mm = 250 Nl/min 16 mm = 950 Nl/min
Mounting position	any position
Protection class	IP 65
FLECTRICAL SECTION MULTIPOLE VERSION	
ELECTRICAL SECTION MULTIPOLE VERSION	3F or 66 pine
Type of Sub-D connector	25 or 44 pins
Max. absorption	0.8 A (with Sub-D connector 25 pins) 1 A (with Sub-D connector 44 pins)
Supply voltage	24 V DC +/- 10%
Max. number of coils to operate	22 on 11 valve positions (with Sub-D connector 25 pins) 38 on 19 valve positions (with Sub-D connector 44 pins)
Signalling LED	Multipole: green LED - presence of power red LED - anomaly Valve: yellow LED - presence of power blinking yellow LED - operating fault
ELECTRICAL SECTION FIELDBUS VERSION	
General data	see Multi-serial Modules section on the next pages
Max. absorption	2.5 A
Supply voltage	24 V DC +/-10% logic supply 24 V DC +/-10% power supply
Max. number of coils to operate	128 on 64 valve positions
Max. number of digital inputs Max. number of analog inputs Max. number of digital outputs Max. number of analog outputs	128 16 128 16
IO-Link version Max n° of coils to operate Input and Output Type of port	64 on 32 valve positions No Class R

Type of port IODD Configuration file up to 12, 24 or 32 valve positions per island

(The IO-Link module on the valve island

is auto-configured to operate with the right IODD)

More information can be found at http://shop.camozzi.com

Series D > Download



CODING EXAMPLE - MULTIPOLE VERSION

DM C 5 M W R A - 15R - 2CD2NSHDN - 2MBLC2B - F	R
--	---

DM	MODULAR ISLAND			
C	VALVE C= VC Model			
5	SIZE 5 = 10,5 mm (D1) + 16 mm (D2)			
M	ELECTRICAL CONNECTION M = Multipole 25 pin PNP Q = Multipole 44 pin PNP			
W	INTERFACE O = without interface W = WLAN			
R	MANUAL OVERRIDE P = push button R = with push and turn device			
Α	SERVO-PILOT SUPPLY A = internal B = external			
15R	CONNECTOR 0 = without connector CONNECTOR R WITH CABLE 03R = 3 mt 05R = 5 mt 10R = 10 mt 15R = 15 mt 20R = 20 mt 25R = 25 mt			
2CD2NSHDN	SUBBASES DIAPHRAGM # Metric: N = cartridges tube Ø4 (D1) M = cartridges tube Ø6 (D2) C = cartridges tube Ø8 (D2) D = cartridges tube Ø10 (D2) SUBBASE #	Inches: N = Cartridges tube Ø 5/32" (D1) G = Cartridges tube Ø 1/4" (D1) L = Cartridges tube Ø 1/4" (D2) P = Cartridges tube Ø 3/8" (D2) C = Cartridges tube Ø 5/16" (D2)		
	Q = diaphragm on channels 1, 3, 5 R = diaphragm on channels 1 S = diaphragm on channels 3 and 5 J = Subbase (D1) for servo-pilot cor WITH DIAPHRAGM AND EXTERNAL SE QT = diaphragm on channels 1, 3, 5 RT = diaphragm on channels 1, 2, 2/3 ST = diaphragm on channels 3, 5; 1 WITH DIAPHRAGM AND INTEGRATED QH = diaphragm on channels 1, 3, 5 H = diaphragm on channels 3, 5 SUBBASE FOR ADDITIONAL FLOW # X = supply (1) and exhausts (3, 5) INTERFACE SUBBASE FOR ADDITIONAL XT = additional supply (1) and exha FOR POWER SUPPLY # K = separation of power supply - st Z = separation of power supply - di # = These subbases are already pro	ntrol through solenoid valve (E;F)* ERVO-PILOT SUPPLY # 5; 12/14 external 14 external 2/14 external SILENCER # 5 with integrated silencer AL FLOW WITH EXTERNAL SERVO-PILOT SUPPLY # Busts (3, 5) Upply (1) and exhausts (3, 5)		
2MBLC2B	VALVES M = 5/2 monostable B = 5/2 bistable C = 2x3/2 NC A = 2x3/2 NO G = 1x3/2 NC + 1x3/2 NO V = 5/3 CC K = 5/3 CO N = 5/3 CP L = free position W = Position without valve	E = 3/2 NC for internal servo-pilot cor F = 3/2 NC for external servo-pilot co D = 2x2/2 NC H = 2x2/2 NO R = 1x2/2 NC + 1x2/2 NO		
F	D = cartridge Ø 10 DS = cart	,5 ridge Ø 8 and external silencer (2939-8) ridge Ø 10 and external silencer (2939-10) ridge Ø 12 and external silencer (2939-12)	Inches: C = Cartridge Ø 8, 5/16" CS = Cartridge Ø 8 (5/16"); and ext P = Cartridge Ø 3/8" R = Cartridge Ø 1/2"	ernal silencer (2939-8)
R	FIXING TYPE = direct R = DIN rail			

* = The subbase is equipped with a cartridge Ø4 (Ø5/32").
** = Solenoid valve for subbase model J.
The choice of the cartridge made in the Terminal Plates section is also valid for the diaphragm and additional subbases.
QT, RT, ST, XT models have a 12/14 cartridge tube Ø4 (Ø5/32").

CODING EXAMPLE - FIELDBUS VERSION



DM	MODULAR ISLAND		
DM	VALVE		
C	C= VC Model		
5	SIZE 5 = 10,5 mm (D1) + 16 mm (D2)		
01	PROTOCOL 00 = Base without Fieldbus*** 01 = PROFIBUS 03 = CANopen 04 = Ethernet/IP	05 = Ethercat 06 = PROFINET 07 = 10-LINK (cannot be configured with input and	d output modules)
W	INTERFACE O = without interface	W = WLAN	
R	MANUAL OVERRIDE P = push button	R = with push and turn device	
Α	SERVO-PILOT SUPPLY A = internal	B = external	
2A2Q	D = 2 Analog inputs (config. 0-10V; E = 2 Inputs, BRIDGE M12 F = 2 Inputs, BRIDGE, TERMINAL BLO: G = 2 Inputs, RTD M12 (PT100, PT20 H = 2 Inputs, TC TERMINAL BLOCK C L = 2 Inputs, TC M12 (THERMOCOUPL M = 2 Inputs, TC TERMINAL BLOCK CO Q = 8 Digital outputs M8 R = 16 Digital outputs, terminal blo T = 2 Analog outputs (config. 0-10V	£10V,0-20mA,4-20mA,±20mA) M12 ±10V,0-20mA,4-20mA,±20mA), terminal block CK CONNECTION 0, PTS00, PT1000) ONNECTION (PT100, PT200, PT500, PT1000) ES) NNECTION (THERMOCOUPLES) bck connection (,±10V,0-20mA, 4-20mA,±20mA), M12 v,±10V,0-20mA,4-20mA,±20mA), terminal block ors)	
2CD2NSHDN	XT = Additional supply (1) and exha FOR POWER SUPPLY # K = separation of power supply - su Z = separation of power supply - di	ntrol through solenoid valve (E;F)* (RVO-PILOT SUPPLY # (5; 12/14 External 14 External 2/14 External SILENCER # 5 with integrated silencer AL FLOW WITH EXTERNAL SERVO-PILOT SUPPLY # susts (3, 5) upply (1) and exhausts (3, 5)	
2MBLC2B	VALVES M = 5/2 Monostable B = 5/2 Bistable C = 2x3/2 NC A = 2x3/2 NO G = 2x3/2 (NC+NO)	V = 5/3 CC K = 5/3 CO N = 5/3 CP L = Free position W = Position without valve	E = 3/2 NC for internal servo-pilot control (Line 1)** F = 3/2 NC for external servo-pilot control** D = 2x2/2 NC H = 2x2/2 NO R = 1x2/2 NC + 1x2/2 NO
F	D = Cartridge tube Ø 10 DS = Ca	ortridge tube Ø 8 and external silencer (2939-8) artridge tube Ø 10 and external silencer (2939-10) ortridge tube Ø12 and external silencer (2939-10)	Inches: C = Cartridge tube Ø8,5/16" CS = Cartridge tube Ø8 (5/16"); 3,5 with silencier 2939-8 P = Cartridge tub e Ø3/8" R = Cartridge tube Ø1/2"
R	FIXING TYPE = direct R = DIN rail		

* = The subbase is equipped with a cartridge Ø4 (Ø5/32").

** = Solenoid valve for subbase model J.

*** = Solenoid valve for subbase model J.

*** = With the 00 protocol, the possible interface is 0, for example: DMC1000RA-...

**** = The closed base without I/O cover always has to be put after the other modules, if present.

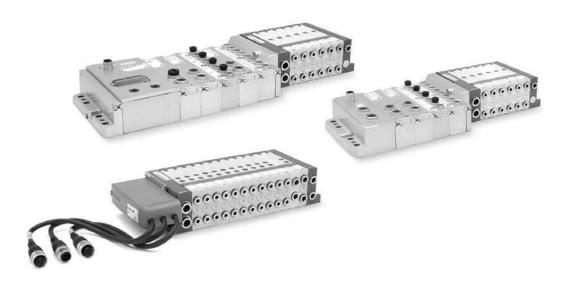
For example: DMC101WRA-2A2QW... The choice of the cartridge made in the Terminal Plates section is also valid for the diaphragm and additional subbases.

QT, RT, ST, XT models have a 12/14 cartridge tube Ø4 (Ø5/32").



Valve islands, Multipole and Fieldbus Series F

Multipole integrated electrical connection (PNP)
Valve functions: 2x2/2; 2x3/2; 5/2; 5/3 CC
It can interface with all major serial communication protocols.



The Multipole version of Series F valve island can be easily integrated with the accessories of the new Series CX multi-serial module, thus connecting to the different serial nets provided.

It is also possible to manage a standard multipole island by means of a Sub-D adapter or through an integrated node in the island. The typical Series F single modularity allows the installation of up to 24 solenoids on 24 valve positions, even in the Fieldbus version.

The use of technopolymer in this Series has allowed to realize a valve island which is characterized by small dimensions, high flow and reduced weight.

The reduced dimensions, its flexibility during the assembly as well as the wide range of valve functions make Series F a highly innovative product which is suitable for several application requirements.

Manuals, instruction sheets and configuration files can be found on http://shop.camozzi.com or on the QR code on the lable of the product.

The complete list of components that can be integrated on the pneumatic part and on the electric part of the valve island, can be found in the Series F valve islands catalogue, which is available online on the Camozzi Catalogue website (see section FIELDBUS AND MULTIPOLE SYSTEMS > Valve islands > Series F valve islands, Multipole and Fieldbus).

€ CAMOZZI

GENERAL DATA

NEUMATIC SECTION	
alve construction	spool with seals
alve functions	5/2 monostable and bistable 5/3 CC 2x2/2 NO 2x2/2 NC 2x2/2 NC 2x2/2 NC 2x3/2 NC + 1x2/2 NO 2x3/2 NC 2x3/2 NC 1x3/2 NC + 1x3/2 NO
Taterials (1997)	aluminium spool HNBR seals other seals in NBR brass cartridges technopolymer body and end covers
onnections	Inlets 2 and 4, size 1 (12 mm) = tube ø4; ø6 Inlets 2 and 4, size 2 (14 mm) = tube ø4; ø6; ø8 Supply 1, size 1 and 2 = tube ø8; ø10 Servo pilot 12/14, size 1 and 2 = tube ø6 Exhausts 3/5, size 1 and 2 = tube ø8; ø10 Exhausts 82/84, size 1 and 2 = tube ø6
emperature	0 ÷ 50°C
ir specifications	Filtered compressed air, non lubricated, class [6:4:4] according to ISO 8573-1:2010 standard. If lubrication is necessary, please use only oils with maximum viscosity of 32 Cst and the version with external servo-pilot supply. The servo-pilot supply air quality class must be [6:4:4] according to ISO 8573-1:2010 standard.
alve sizes	12 mm 14 mm
Vorking pressure	- 0,9 ÷ 10 bar
ilot pressure	$3 \div 7$ bar $4.5 \div 7$ bar (with working pressure exceeding 6 bar for the versions 2x2/2 and 2x3/2)
low rate	250 NI/min (12 mm) 500 NI/min (14 mm)
lounting position	any position
uty cycle	ED 100%
rotection class (according to EN 60529)	IP40

ELECTRICAL SECTION - MULTIPOLE VERSION

Supply voltage 24 V DC +/- 10%

Max number of solenoids 24

Max number of valve functions 24 (monostable) Type of Sub-D connection Sub-D 25 pin

Max absorption 0.8 A

ELECTRICAL SECTION - FIELDBUS VERSION

General characteristics see the section about the Series CX multi-serial module (2.3.50)

digital outputs / analogic outputs and inputs 3 A digital/analogic inputs 3 A Max absorption

logic supply 24 V DC +/- 10% Supply voltage

power supply 24 V DC +/- 10%

Max number of operable coils 24 on 24 valve functions (monostable)



CODING EXAMPLE - MULTIPOLE VERSION

F	Р	2	R	M	T	Α	-	MB2CMUL2B	-	2QR3SLQR
---	---	---	---	---	---	---	---	-----------	---	----------

F	SERIES
P	TYPE P = pneumatic A = accessories
2	SIZE 1 = 12 mm 2 = 14 mm
R	MANUAL OVERRIDE P = pressure actuation control R = actuation control with push & turn device
М	ELECTRICAL CONNECTION M = multipole
T	CARTRIDGES FOR LEFT TERMINAL S = tube Ø 8 T = tube Ø 10
	Note: the cartdriges for the right terminal are for tube Ø 6.
Α	SERVO-PILOT SUPPLY A = internal B = external
MB2CMUL2B	SOLENOID VALVES AND ADDITIONAL PLATES * M = 5/2 monostable D = 5/2 monostable with bistable electric board B = 5/2 bistable C = 2x3/2 NC A = 2x3/2 NO G = 3/2 NC + 3/2 NO E = 2x2/2 NO F = 2x2/2 NC F = 2x2/2 NC I = 2/2 NC + 2/2 NO V = 5/3 CC L = free position with passing electric board W = free position with bistable electric board Z = free position with monostable electric board X = supplementary supply and exhaust T = separated supply, supplementary exhaust K = supplementary supply, separated exhaust
2QR3SLQR	CARTRIDGES FOR SOLENOID VALVES AND ADDITIONAL PLATES * Q = tube Ø 4 R = tube Ø 6 S = tube Ø 8 (not for Size 1) L = free position (no cartridges) W = free position with bistable electric board (no cartridges) Z = free position with monostable electric board (no cartridges)
	* in case of identical and consecutive codes, in the choices "SOLENOID VALVES AND ADDITIONAL PLATES" and "CARTRIDGES FOR SOLENOID VALVES AND ADDITIONAL PLATES", replace the letters with the number. With the choice "CARTRIDGES FOR SOLENOID VALVES AND ADDITIONAL PLATES" both of the following connections are defined: 2 and 4; 1 and 3/5. Examples: FP2RMTA-MBCCMULMMMBB-QQRSSLRRRQRR FP2RMTA-MB2CMUL3M2B-2QR2SL3RQ2R

C₹ CAMOZZI

CODING EXAMPLE - FIELDBUS VERSION



_	SERIES
F	SERIES
Р	TYPE P = pneumatic A = accessories
2	SIZE 1 = 12 mm 2 = 14 mm
R	MANUAL OVERRIDE P = pressure actuation control R = actuation control with push & turn device
00	PROTOCOL 00 = Interface with CX3 01 = PROFIBUS-DP 02 = DeviceNet 03 = CANopen 04 = EtherNet/IP 05 = EtherCAT 06 = PROFINET 99 = Expansion Module
Т	CARTRIDGES FOR PNEUMATIC/ELECTRICAL TERMINAL S = tube Ø 8 T = tube Ø 10 Note: the cartdriges for the right terminal are for tube Ø 6.
A	SERVO-PILOT SUPPLY A = internal B = external
0	INPUT / OUTPUT MODULES 0 = no module A = 8 digital inputs M8 B = 4 digital inputs M8 C = 2 analog inputs 4-20 mA D = 2 analog inputs 4-20 mA + 1 input 0-10 V Q = 4 M12 duo digital outputs R = 2 analog outputs 4-20 mA T = 2 analog outputs 4-20 mA T = 2 analog outputs 0-10 V U = 1 analog output 4-20 mA + 1 input 0-10 V V = 1 analog output 4-20 mA + 1 input 0-10 V Z = 1 analog output 4-20 mA + 1 input 0-10 V X = 1 analog output 4-20 mA + 1 input 4-20 mA K = 1 analog output 0-10 V + 1 input 4-20 mA S = Initial subnet module
MB2CMUL2B	SOLENOID VALVES AND ADDITIONAL PLATES M = 5/2 monostable D = 5/2 monostable with bistable electric board B = 5/2 bistable C = 2x3/2 NC A = 2x3/2 NO G = 3/2 NC + 3/2 NO E = 2x2/2 NO F = 2x2/2 NC F = 2x2/2 NO I = 2/2 NC + 2/2 NO V = 5/3 CC L = free position with passing electric board W = free position with monostable electric board Z = free position with monostable electric board X = supplementary supply and exhaust T = separated supply, supplementary exhaust U = separated supply, supplementary exhaust K = supplementary supply, separated exhaust
2QR3SLQR	CARTRIDGES FOR SOLENOID VALVES AND ADDITIONAL PLATES Q = tube Ø 4 R = tube Ø 6 S = tube Ø 8 (not for Size 1) L = free position (no cartridges) W = free position with bistable electric board (no cartridges) Z = free position with monostable electric board (no cartridges)



Valve islands, Multipole and Fieldbus Serie HN

Multipole connection with 25 or 37 pins Serial connection with the most common communication protocols Valve functions: 2x2/2; 2x3/2; 5/2; 5/3 CC



Thanks to the large range of options available, the Series HN valve islands represent an excellent solution for different applications, particularly in automation systems.

Small dimensions, high flow, pneumatic and electric modularity, electric connections on boards, possibility to interface with the multi-serial node Series CX, optimization of the signal distribution thanks to subbases for monostable and bistable solenoid valves are only some of the features that make this series a particularly innovative product.

Manuals, instruction sheets and configuration files can be found on http://shop.camozzi.com or on the QR code on the lable of the product.

The complete list of components that can be integrated on the pneumatic part and on the electric part of the valve island, can be found in the Series HN valve islands catalogue, which is available online on the Camozzi Catalogue website (see section FIELDBUS AND MULTIPOLE SYSTEMS > Valve islands > Series HN valve islands, Multipole and Fieldbus).

C₹ CAMOZZI

GENERAL DATA	
PNEUMATIC SECTION	
Valve construction	spool with seals
Valve functions	5/2 monostable and bistable 5/3 CC 2x2/2 NO 2x2/2 NC 1x2/2 NC+ 1xNO 2x3/2 NC 2x3/2 NC 1x3/2 NO 1x3/2 NC+ 1x3/2 NO
Materials	spool in aluminium spool seals in HNBR other seals in NBR cartridges in brass body and end covers in technopolymer subbases in aluminium
Connections	Inlets 2 and 4, size 10,5 mm: M7, tube Ø 4, tube Ø 6, tube Ø 8 Inlets 2 and 4, size 21 mm: G1/4, tube Ø 10 Supply 1: G1/4, tube Ø 8, tube Ø 10 Supply 12/14: M7 Exhausts 3 and 5: G1/4 or with integrated silencer Exhausts 82/84: M7
Temperature	0 ÷ 50°C
Air specifications	Filtered compressed air, non lubricated, class [6:4:4] according to ISO 8573-1:2010. If lubrication is necessary, please only use oils with maximum viscosity of 32 Cst and the version with external servo-pilot supply. The servo-pilot supply air quality class must be [6:4:4] according to ISO 8573-1:2010 (do not lubricate).
Valve sizes	10.5mm (2 valves for each subbase) 21mm (1 valve for each subbase)
Working pressure	- 0,9 ÷ 10 bar
Pilot pressure	$3\div7$ bar $4.5\div7$ bar (with working pressure exceeding 6 bar for the versions 2x2/2 and 2x3/2)
Flow rate	400 Nl/min (10.5mm) 850 Nl/min (21mm)
Mounting position	any position
Protection class	IP 65
ELECTRICAL SECTION - MULTIPOLE VERSION	
Type of Sub-D connector	25 or 37 pins
Max. absorption	0.8 A (with Sub-D connector 25 pins) 1 A (with Sub-D connector 37 pins)
Supply voltage	24 V DC +/- 10%
Max. number of coils to operate	24 on 20 valve positions (with Sub-D connector 25 pins) 32 on 28 valve positions (with Sub-D connector 37 pins)
Valve signalling	yellow led
ELECTRICAL SECTION - FIELDBUS VERSION	
General data	see the CX section

Max. absorption digital outputs / analog outputs and inputs 3A

digital/analog inputs 3A

logic supply 24 V DC +/- 10% power supply 24 V DC +/- 10% Supply voltage

Max. number of coils to operate 32 on 28 valve positions



MULTIPOLE VERSION CODING EXAMPLE

HN 5 M - 03A - 2Q4AZ2A - 2B8M4C - A

HN	SERIES		
5	SIZE 1 = 10.5 2 = 21 5 = Mixed		
М	ELECTRICAL CONNECTION M = Multipole 25 pin PNP N = Multipole 25 pin NPN H = Multipole 37 pin PNP L = Multipole 37 pin PNP		
03A	CONNECTION: 000 = without connector/cable	CONNECTOR WITH CABLE AXIAL OUTPUT: 03A = 3m 05A = 5m 10A = 10m 15A = 15m 20A = 20m 25A = 25m CONNECTOR WITH CABLE RADIAL OUTPUT: 03R = 3m 05R = 5m 10R = 10m 15R = 15m 20R = 20m 25R = 25m	CONNECTOR WITHOUT CABLE: 4XA = 25 pins axial 4XR = 25 pins radial 9XA = 37 pins axial 9XR = 37 pins radial
2Q4AZ2A	SUBBASES FOR 2 SOLENOID VALVES SIZE 1 (*): A (AZ) = M7 threads B (BZ) = 4 fittings for tube Ø4 C (CZ) = 4 fittings for tube Ø6 D (DZ) = channel 1, 3, 5 closed; M7 threads E (EZ) = channel 1, 3, 5 closed; fittings tube Ø4 F (FZ) = channel 3, 5 closed; fittings tube Ø6 G (GZ) = channel 3, 5 closed; M7 threads H (HZ) = channel 3, 5 closed; fittings tube Ø6 L (LZ) = channel 1 closed; fittings tube Ø6 L (LZ) = channel 1 closed; fittings tube Ø4 N (MZ) = channel 1 closed; fittings tube Ø6 C (*) Subbases with "Z" at the end of their code are used with monostable solenoid valves FOR SOLENOID VALVES SIZE 2: P = G1/4 threads Q = G1/8 threads R = fittings for tube Ø6 S = fittings for tube Ø8 J = fittings for tube Ø8 J = fittings for tube Ø10	SUBBASES FOR PNEUMATIC SUPPLY: X = supplementary supply and exhaust Y = supplementary supply and exhaust with integrated silencer W = supply from the exhausts FOR ELECTRICAL SUPPLY: K = separation of electrical supply KZ = M12 connector	SEALS: T = diaphragm on channels 1, 3, 5 U = diaphragm on channel 1 V = diaphragm on channels 3, 5
2B8M4C	SOLENOID VALVES Size 1 and 2: 0 = island without solenoid valves M = 5/2 Monostable B = 5/2 Bistable V = 5/3 Centres Closed C = 2x3/2 NC A = 2x3/2 NO G = 1x3/2 NC + 1x3/2 NO E = 2x2/2 NC I = 2x2/2 NC I = 1x2/2 NC + 1x2/2 NO L = free position	SOLENOID VALVE + PRESSURE REGULATOR on channel 1 (size 2 only): N = 5/2 Monostable P = 5/2 Bistable Q = 5/3 Centres Closed R = 2x3/2 NC S = 2x3/2 NO T = 1x3/2 NC + 1x3/2 NO U = 2x2/2 NC X = 2x2/2 NO Y = 1x2/2 NC + 1x2/2 NO	
A	THREADED TERMINAL PLATES: A = 1, 12/14 in common 3/5, 82/84 threaded ports B = 1, 12/14 separated 3/5, 82/84 threaded ports C = 1, 12/14 in common 3/5, 82/84 with integrated silencer D = 1, 12/14 separated 3/5, 82/84 with integrated silencer	TERMINAL PLATES with FITTINGS FOR TUBE Ø 8 on PORT 1: E = 1, 12/14 in common 3/5, 82/84 conveyable F = 1, 12/14 separated 3/5, 82/84 conveyable G = 1, 12/14 in common 3/5, 82/84 with integrated silencer H = 1, 12/14 separated 3/5, 82/84 with integrated silencer	TERMINAL PLATES with FITTINGS FOR TUBE Ø 10 on PORT 1: I = 1, 12/14 in common 3/5, 82/84 conveyable L = 1, 12/14 separated 3/5, 82/84 conveyable M = 1, 12/14 in common 3/5, 82/84 with integrated silencer N = 1, 12/14 separated 3/5, 82/84 with integrated silencer

In presence of identical consequent codes both for the subbases as for the valves you need to substitute the letter with the number. Ex: HN5M-03A-ABCS-MMCCBBB-A is converted to HN5M-03A-ABCS-2M2C3B-A.

FIELDBUS VERSION CODING EXAMPLE

HN	5	01	-	ABCD	-	2Q4AZ2A	-	2B8M4C	-	Α	
----	---	----	---	------	---	----------------	---	--------	---	---	--

HN	SERIES		
5	SIZE 1 = 10.5 2 = 21 5 = Mixed		
01	PROTOCOL 01 = PROFIBUS-DP 02 = DeviceNet 03 = CANopen 04 = EtherNet/IP 05 = EtherCAT 06 = PROFINET 99 = Expansion module		
ABCD	INPUT / OUTPUT MODULES 0 = no module	INPUT / OUTPUT MODULES A = 8 Digital Inputs M8 B = 4 Digital Inputs M8 C = 2 Analog Inputs 4-20mA D = 2 Analog Inputs 0-10V E = 1 Analog Input 4-20mA + 1 Input 0-10V Q = 4 Digital Outputs M12 duo R = 2 Analog Outputs 4-20mA T = 2 Analog Outputs 0-10V U = 1 Analog Output 4-20mA + 1 Input 0-10V V = 1 Analog Output 4-20mA + 1 Input 0-10V Z = 1 Analog Output 4-20mA + 1 Input 4-20mA K = 1 Analog Output 0-10V + 1 Input 0-10V Y = 1 Analog Output 0-10V + 1 Input 0-10V	INPUT / OUTPUT MODULES S = Initial subnet module
2Q4AZ2A	SUBBASES FOR 2 SOLENOID VALVES SIZE 1 (*): A (AZ) = M7 threads B (BZ) = 4 fittings for tube Ø4 C (CZ) = 4 fittings for tube Ø6 D (DZ) = channel 1, 3, 5 closed; M7 threads E (EZ) = channel 1, 3, 5 closed; fittings tube Ø6 G (GZ) = channel 3, 5 closed; fittings tube Ø6 G (GZ) = channel 3, 5 closed; fittings tube Ø6 I (HZ) = channel 3, 5 closed; fittings tube Ø6 I (LZ) = channel 1 closed; M7 threads M (MZ) = channel 1 closed; M7 threads M (MZ) = channel 1 closed; fittings tube Ø6 I (ZZ) = channel 1 closed; M7 threads M (MZ) = channel 1 closed; fittings tube Ø6 I (*) Subbases with "Z" at the end of their code are used with monostable solenoid valves FOR SOLENOID VALVES SIZE 2: Q = G1/8 threads R = fittings for tube Ø6 S = fittings for tube Ø8 P = G1/4 threads J = fittings for tube Ø10	SUBBASES FOR PNEUMATIC SUPPLY: X = supplementary supply and exhaust Y = supplementary supply and exhaust with integrated silencer W = supply from the exhausts FOR ELECTRICAL SUPPLY: K = separation of electrical supply KZ = M12 connector	SEALS: T = diaphragm on channels 1, 3, 5 U = diaphragm seal on channels 1 V = diaphragm seal on channels 3, 5
2B8M4C	SOLENOID VALVES Size 1 and 2: 0 = island without solenoid valves M = 5/2 Monostable B = 5/2 Bistable V = 5/3 Centres Closed C = 2x3/2 NC A = 2x3/2 NO G = 1x3/2 NC + 1x3/2 NO E = 2x2/2 NC F = 2x2/2 NO L = 1x2/2 NC + 1x2/2 NO L = free position	SOLENOID VALVE + PRESSURE REGULATOR on channel 1 (size 2 only): N = 5/2 Monostable P = 5/2 Bistable Q = 5/3 Centres Closed R = 2x3/2 NC S = 2x3/2 NO T = 1x3/2 NC + 1x3/2 NO U = 2x2/2 NC X = 2x2/2 NC Y = 1x2/2 NC + 1x2/2 NO Y = 1x2/2 NC + 1x2/2 NO	
A	THREADED TERMINAL PLATES: A = 1, 12/14 in common 3/5, 82/84 threaded ports B = 1, 12/14 separated 3/5, 82/84 threaded ports C = 1, 12/14 in common 3/5, 82/84 with integrated silencer D = 1, 12/14 separated 3/5, 82/84 with integrated silencer	TERMINAL PLATES with FITTINGS Ø8: E = 1, 12/14 in common 3/5, 82/84 conveyable F = 1, 12/14 separated 3/5, 82/84 conveyable G = 1, 12/14 in common 3/5, 82/84 with integrated silencer H = 1, 12/14 separated 3/5, 82/84 with integrated silencer	TERMINAL PLATES with FITTINGS Ø10: I = 1, 12/14 in common 3/5, 82/84 conveyable L = 1, 12/14 separated 3/5, 82/84 conveyable M = 1, 12/14 in common 3/5, 82/84 with integrated silencer N = 1, 12/14 separated 3/5, 82/84 with integrated silencer

X, Y and K sub-bases will be equipped with threads or cartridges of the same size of port 1, see the choice "Type of terminal plates". In presence of identical consequent codes both for sub-bases and for valves, you need to substitute the letter with the number.

EX: HN501-ABCD-ABCS-MMCCBBB-A is converted to HN501- ABCD-ABCS-2M2C3B-A.



Valve islands Cabinet Version **Series HC**

Multipole connection with 25 or 37 pins Valve functions: 2x2/2; 2x3/2; 5/2; 5/3 CC





In applications which are subject to washing or operate in particularly dirty environments, having a specific solution represents a distinct advantage. With the Series HC it is possible to exploit the subbase and relative perimetric seal to close the passage window of all tubings. Thanks to a particularly flexible use of the In this way the external environment is isolated from the internal part of the cabinet, guaranteeing a high protection level against solid and liquid particles that, upon entering, may damage the components.

All pneumatic connections are immediately available avoiding operations for the installation of panel mount fittings. Series HC uses the same valve functions as those available in Series HN.

valve positions, different configurations can be realized (further details can be found on the following pages regarding the correct management of electrical signals).

The complete list of components that can be integrated on the pneumatic part and on the electric part of the valve island, can be found in the Series HC valve island catalogue, which is available online on the Camozzi Catalogue website (see section FIELDBUS AND MULTIPOLE SYSTEMS > Valve islands > Series HC valve island, Multipole and Fieldbus).

GENERAL DATA

PNEUMATIC SECTION	
Valve construction	spool with seals
Valve functions	5/2 monostable and bistable 5/3 CC 2x2/2 NO 2x2/2 NC 1x2/2 NC+ 1xNO 2x3/2 NC 2x3/2 NC 1x3/2 NC+ 1x3/2 NO
Materials	spool in aluminium spool seals in HNBR other seals in NBR cartridges in brass body and end covers in technopolymer subbases in aluminium
Connections	Inlets 2 and 4, size 10.5mm: M7, tube Ø 4, tube Ø 6 Inlets 2 and 4, size 21mm: G1/4, tube Ø 6, tube Ø 8, tube Ø 10 Supply 1: G3/8, tube Ø 8, tube Ø 10, tube Ø 12 Supply 12/14: M7, tube Ø 6 (6512 6-M7-M) Exhausts 3 and 5: G1/4, tube Ø 10 (6512 10-1/4-M) Exhausts 82/84: M7, silencer (2931 M7)
Temperature	0 ÷ 50°C
Air specifications	Filtered compressed air, non lubricated, class [6:4:4] according to ISO 8573-1:2010. If lubrication is necessary, please only use oils with maximum viscosity of 32 Cst and the version with external servo-pilot supply. The servo-pilot supply air quality class must be [6:4:4] according to ISO 8573-1:2010 (do not lubricate).
Valve sizes	10.5mm 21mm
Working pressure	-0.9 ÷ 10 bar
Pilot pressure	$3\div7$ bar $4.5\div7$ bar (with working pressure exceeding 6 bar for the versions 2x2/2 and 2x3/2)
Flow rate	400 Nl/min (10.5mm) 700 Nl/min (21mm)
Mounting position	any position
Protection class	IP 65
ELECTRICAL SECTION	
Type of Sub-D connector	25 or 27 nine

Type of Sub-D connector 25 or 37 pins

0.8 A (with Sub-D connector 25 pins) 1 A (with Sub-D connector 37 pins) Max. absorption

24 V DC +/-10% Supply voltage

Max. number of coils to

operate

Size 10.5mm: 24 coils on 12 valve positions (with Sub-D connector 25 pins)
32 coils on 32 valve positions (with Sub-D connector 37 pins)
Size 21mm: 24 coils on 6 valve positions (with Sub-D connector 25 pins)
32 coils on 16 valve positions (with Sub-D connector 37 pins)

Sizes 10.5 mm and 21 mm simultaneously (further details can be found on the following pages the correct management of electrical signals)

Valve signalling yellow led



CODING EXAMPLE - MULTIPOLE VERSION

НС	SERIES		
5	SIZE 1 = 10.5 2 = 21 5 = Mixed		
Н	ELECTRICAL CONNECTION M = Multipole 25 pin PNP H = Multipole 37 pin PNP		
03A	CONNECTION: 000 = without connector/cable CXA = Adaptor module for serial subnet	CONNECTOR WITH CABLE AXIAL OUTPUT: 03A = 3m 10A = 10m 15A = 15m 20A = 20m 25A = 25m CONNECTOR WITH CABLE RADIAL OUTPUT: 03R = 3m 05R = 5m 10R = 10m 15R = 15m 20R = 20m 25R = 25m	CONNECTOR WITHOUT CABLE: 4XA = 25 pins axial 4XR = 25 pins radial 9XA = 37 pins axial 9XR = 37 pins radial
T4GTGST3G	VALVE DIMENSION AND TYPE OF CONNECTION: Size 1 F = M7 threads G = with fittings for tube Ø 4 L = with fittings for tube Ø 6	Size 2 M = G1/4 threads N = with fittings for tube Ø 6 P = with fittings for tube Ø 8 T = with fittings for tube Ø 10 S = silencers for Z plate	
M2B2CBMZV3M	SOLENOID VALVES Size 1 and 2: M = 5/2 Monostable B = 5/2 Bistable V = 5/3 CC C = 2x3/2 NC A = 2x3/2 NO G = 1x3/2 NC + 1x3/2 NO E = 2x2/2 NC F = 2x2/2 NO I = 1x2/2 NC + 1x2/2 NO L = free position	SOLENOID VALVE + PRESSURE REGULATOR on channel 1, Size 2: N = 5/2 Monostable P = 5/2 Bistable Q = 5/3 CC R = 2x3/2 NC S = 2x3/2 NO T = 1x3/2 NC + 1x3/2 NO U = 2x2/2 NC X = 2x2/2 NO Y = 1x2/2 NC + 1x2/2 NO	PLATES: Z = plate for supplementary exhaust K = plate for supplementary supply
G	CONNECTIONS: Internal servo-pilot Internal servo-pilot and silencers External servo-pilot External servo-pilot and silencers If the connection on the right side only, add X at the end of the code. For example: GX (Internal servo-pilot, silencers, fitting tube Ø 8) The connections on the sides that are not used are equipped with closing taps.	Supply fitting (1) Thread ø8 ø 10 ø 12 A E I P - G M R B F L Q - H N S Fitting ø 10 on exhausts 3/5 Fitting ø 6 on servo-pilot 12/14 Silencer on 82/84 If the connection on the left side only, dd K at the end of the code. For example: GK A and B versions are equipped with taps on the left side and on the right one.	If the connection is on both sides, add W at the end of the code. For example: GW

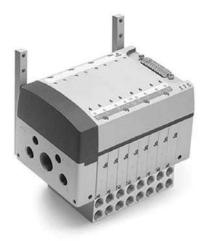
In presence of identical consequent codes both for the subbases as for the valves you need to substitute the letter with the number. Ex: HC5H-03A-TGGGGTGSTGGG-MBBCCBMZVMMM-G is converted to HHC5H-03A-T4GTGST3G-M2B2CBMZV3M-G.



Valve islands, Individual, Multipole Series Y

Valve island with integrated Pneumatics and Electronics.

Available versions: Individual, Multipole. Valve functions: 2x2/2; 2x3/2; 5/2; 5/3 CC



Sub-bases and valve bodies are integrated in a sole "module".

Different kinds of cartridges and spools are inserted in the module to configure the desired valve function.

The valve island can be expanded and modified and its maintenance

Manuals, instruction sheets and configuration files can be found on http://shop.camozzi.com or on the QR code on the lable of the product.

The complete list of components that can be integrated on the pneumatic part and on the electric part of the valve island, can be found in the Series Y valve islands catalogue, which is available online on the Camozzi Catalogue website (see section FIELDBUS AND MULTIPOLE SYSTEMS > Valve islands > Series Y valve islands, Multipole and Fieldbus).

GENERAL DATA

Conform with standards

is easy and safe.

Enclosed in the package there is a label on which it is possible to write each individual coil number.

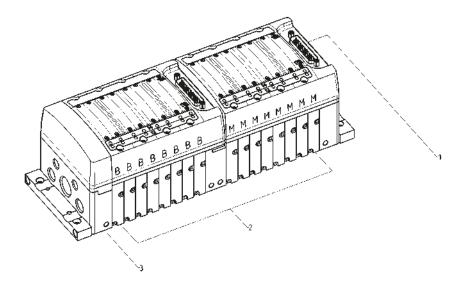
Enclosed in the package there is a label of	n which it is possible to write each individual coil number.
PNEUMATIC SECTION	
Valve construction	Spool with seals
Valve functions	5/2 monostable and bistable 5/3 CC 2x2/2 NC 2x2/2 NC 2x2/2 NO 1x2/2 NC + 1x2/2 NO 2x3/2 NC 2x3/2 NO 1x3/2 NC + 1x3/2 NO
Materials	Aluminium spool - brass cartridge - seals in NBR - end covers and covers in technopolymer
Connections	Outlets 2 and 4: G1/8 Inlets 1 and 11: G1/4 Pilot ports: 12/14 and respective exhaust 82/84 G1/8 Exhausts 3/5: G1/2
Temperature	0 ÷ + 50°C
Air specifications	Filtered compressed air, non lubricated, class [7:4:4] according to ISO 8573.1 standard. If lubrication is necessary, please use only oils with maximum viscosity of 32 Cst and the version with external servo-pilot supply. The servo-pilot supply air quality class must be [3:4:3] according to ISO 8573.1 standard.
Dimensions/size	12.5 mm
Working pressure	-0.9 ÷ 10 bar (with external servo pilot supply)
Pilot pressure	3 ÷ 7 bar
Flow rate	800 NI/min
ELECTRICAL SECTION	
Max. absorption	1300mA continuous 1600 mA latch
Operating temperature	0°C ÷ +50°C
Continuous current	ED 100%
Protection class	IP50 Individual version IP65 Multipole version PNP
Relative humidity	30-90% +25°C

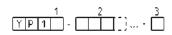
30-50% +50°C

EN 61010-1



CODING





pe of electrical connection	(1)	Type of valve	(2)	Type of terminal plates	(3)
Individual	K	-		-	
Individual M8	W	-			
Multipole (PNP)	M	-		-	
-		5/2 Monostable	М	-	
-		5/2 Bistable	В	-	
-		5/3 CC	V	-	
-		2x2/2 1 NO + 1 NC	I	-	
-		2x2/2 NC	E	-	
-		2x2/2 NO	F	-	
-		2x3/2 1 NO + 1 NC	G	-	
-		2x3/2 NC	С	-	
-		2x3/2 NO	Α	-	
-		Free position	L	-	
-		Additional supply module from 2 and 4	W	-	
-		Diaphragm seal (modules separation)	Т	-	
-		Through seal (modules separation)	P	-	
-		Diaphragm seal (modules and cover separation)	T/	-	
-		Through seal (modules and cover separation)	P/	-	
-		Diaphragm seal 3/5 opened	U	-	
-		Diaphragm seal 3/5-11 opened	Н	-	
-		Diaphragm seal 1-11 opened	N	-	
-		Diaphragm seal 3/5 opened, modules and cover separ.	U/	-	
-		Module with 2 positions and 3/5-11 closed	K	-	
-		Module with 2 positions and 3/5-1-11 closed	R	-	
-		Module with 2 positions and 1-11 closed	0	-	
		Module with 2 positions and 3/5 closed	Q	-	
-		Additional supply module	Х	-	
-		-		in common 1/11 - 12/14 individual 82/84 - 3/5	Α
-		-		in common 1/11 individual 12/14 - 82/84 - 3/5	В
-		-		individual 1/11 - 12/14 - 82/84 - 3/5	С
-		-		in common 1/11 - 12/14 individual 82/84 - 3/5	D
-		-		in common 1/11 individual 12/14 - 82/84 - 3/5	E
-		-		individual 1/11 - 12/14 - 82/84 - 3/5	F
-		-		in common 1/11 - 12/14 individual 82/84 - 3/5	G
-		-		in common 1/11 individual 12/14 - 82/84 - 3/5	Н
				individual 1/11 - 12/14 - 82/84 - 3/5	J.
				modules without terminal plate	z



Multi-serial module Series CX

Interface with: PROFIBUS, CANopen, DeviceNet, EtherNet/IP, PROFINET, EtherCAT Compatible with all Camozzi valve islands



The Series CX serial module, with IP65 protection class, interface with all major serial communication protocols as well as the new generation EtherCAT, EtherNet/IP and PROFINET protocols. The highly resistant aluminium structure makes it suitable for mountings even in hard application conditions.

This serial module can be coupled with electric input and output modules and is able to handle up to a maximum of 1024 I/O. Its interface modules enable direct connection to Series F, HN and 3 valve islands. Through a subnet the connection system can be extended to remote valve islands.

Manuals, instruction sheets and configuration files can be found on http://shop.camozzi.com or on the QR code on the lable of the product.

The complete list of components that can be integrated on the pneumatic part and of the valve island, can be found in the Series CX multi-serial module catalogue, which is available online on the Camozzi Catalogue website (see section FIELDBUS AND MULTIPOLE SYSTEMS > Valve islands > Series CX multi-serial module Multipole and Fieldbus).

GENERAL DATA

Number of digital outputs	1024
Number of digital inputs	1024
Maximum input absorption	1,5 A
Maximum output absorption	3 A
Logical supply voltage *	24 V DC +/-10%
Power supply voltage *	24 V DC +/-10%
Protection	overload and reverse polarity
Protection class	IP65
Conform with standards	EN-61326-1 EN-61010-1
Operating temperature	0-50°C
Material	Aluminium

^{*} the voltage range can change according to the range required by the external connected elements.

CODING EXAMPLE

СХ	05	-	2AC	-	QT2S
СХ	SERIES				
05	PROTOCOL 01 = PROFIBUS 02 = DeviceNet	03 = CANopen 04 = EtherNet/IP	05 = Ether(06 = PROFI		99 = Expansion Module
2AC	INPUTS 0 = no module nA = 8 digital inputs M8	nB = 4 digital inputs M8 nC = 2 IN 4-20 mA	nB = 4 digital inputs M8		
QT2S	OUTPUTS 0 = no module nQ = 4 M12 duo digital outputs nR = 2 OUT 4-20 mA	nT = 2 OUT 0-10 V nU = 1 OUT 4-20 mA + 1 nV = 1 OUT 4-20 mA + 1	OUT 0-10 V nK = 1 OUT	4-20 mA + 1 IN 4-20 mA 0-10 V + 1 IN 0-10 V 0-10 V + 1 IN 4-20 mA	nS = initial subnet module



Multi-serial module Series CX4

Interface with:

PROFIBUS, CANopen, DeviceNet, EtherNet/IP, PROFINET, EtherCAT Compatible with all Camozzi valve islands





Series CX4 multi-serial module can interface with the most common fieldbus protocols, like Profibus-Dp, CANOpen, EtherCAT, EtherNet/IP, PROFINET.

The possibility to enlarge with both Digital and Analog I/O modules, the acquisition of signals coming from Bridge, RTD or TC sensors, the resolution of up to 24 bit and the high number of manageable signals make it particularly suitable for different needs.

Connectable with PC through Micro-USB port, check and configuration of connected components by means of UVIX software. Configuration through Fieldbus. By means of a mechanical interface connection it is used in combination with the Series D valve islands.

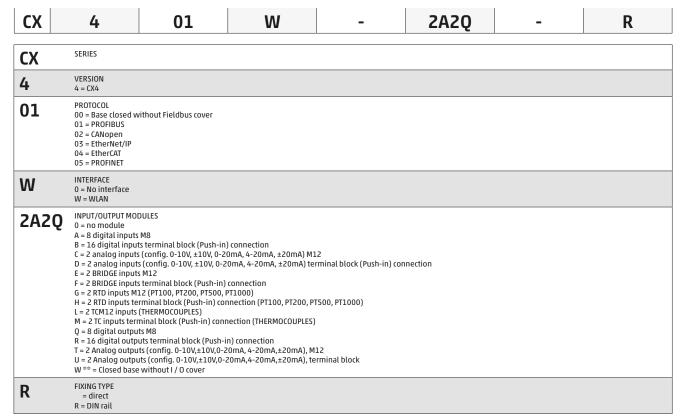
More detailed information and descriptions can be found at: http://shop.camozzi.com

GENERAL DATA

Number of digital outputs	128
Number of analogic outputs	16
Number of digital inputs	128
Number of analogic inputs	16
Maximum input absorption	1,5 A
Maximum output absorption	2,5 A
Supply voltage	24 V DC +/-10% logic supply 24 V DC +/-10% power supply
Protection	overload and reverse polarity
Protection class	IP65 (IP20 in case of module I/O with terminal block)
Conform with standards	EN-61131-2
Operating temperature	0-50°C
Material	Polymer

CAMOZZI

CODING EXAMPLE



^{**}The closed base without I / O cover must always be placed after the other modules if present ex: CX401W-2A2W-R...



Direct acting proportional valves Series AP

2/2-way proportional valves, NC Sizes: 16 - 22 mm

size 22mm, body with threaded ports

For use with vacuum connect the line to port 2

size 22mm, low flanged body

For use with vacuum connect the line to port 2

size 16mm, body with threaded ports

For use with vacuum connect the line to port 2



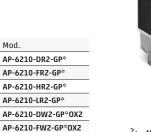




Mod.









size 16mm, low flanged body For use with vacuum

connect the line to port 2

size 16mm, rear flanged body

For use with vacuum connect the line to port 2

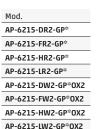
size 16mm - body in PVDF For use with vacuum

connect the line to port 2

AP-6210-HW2-GP*OX2

AP-6210-LW2-GP*OX2





* choose the desired voltage









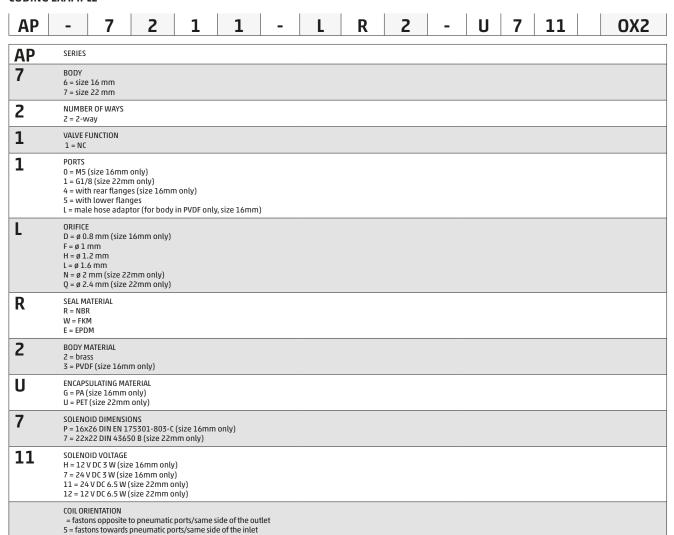


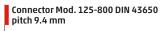




CAMOZZI

CODING EXAMPLE





= non-certified version

VERSION

For size 16 mm only



OX2 = version with ASTM G93-03 Certification Level B (FKM seals only)

Mod. 125-800

OX2

Connectors Mod. 122-800 DIN 43650

For size 22 mm only Mod 122-800FX: for ATEX certified solenoids Mod. U7*EX, with anti-screwing off screw Mod. TORX.





Connector Mod. 125-550 - DIN 43650 pitch 9.4 mm with cable



Connectors Mod. 122-550 DIN 43650 with cable



For size 22 mm only

In-line connectors with cable Mod. 125-553

For size 16 mm only



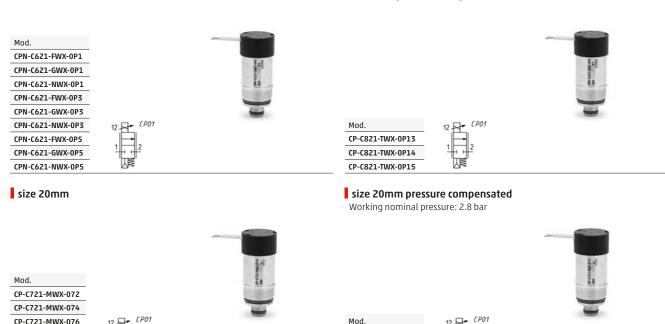
Direct acting and pressure compensated proportional solenoid valves Series CP

Function: 2/2-way NC Sizes: 16 and 20 mm



CAMOZZI

size 16m pressure compensated



CP-C921-TWX-0710

CP-C921-TWX-0711

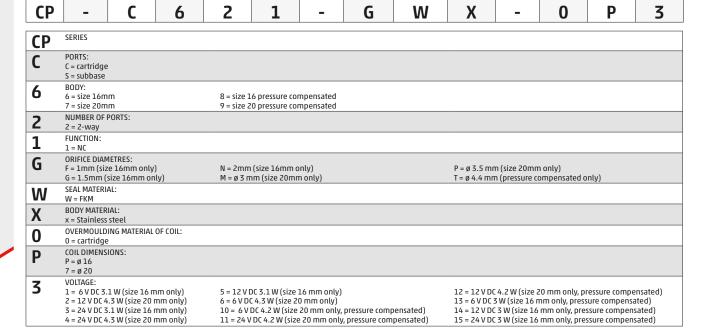
CP-C921-TWX-0712

CODING EXAMPLE

CP-C721-PWX-072

CP-C721-PWX-074

CP-C721-PWX-076



Sub-base

Mod. CP-S6 CP-S7 CP-S8



C CAMOZZI

Electronic control device Series 130 for proportional valves

PWM control device, with current control system for direct acting proportional valves

NOTE: it is possible to create configurations with voltage, power and PWM frequency values that are not shown in the table below. For further information we suggest you to contact our technical department.

Mod.		
130-222	130-433	130-463
130-322	130-533	130-363
130-252	130-233	130-263
130-352	130-442	130-473
130-213	130-342	130-373
130-313	130-242	130-273

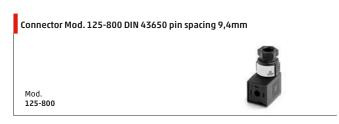


CODING EXAMPLE

130 - 2 2 2

130	SERIES
2	VOLTAGE: 2 = 24 V DC (max power 24 W) 3 = 12 V DC (max power 12 W) 4 = 6 V DC (max power 6 W) 5 = 11 V DC (max power 11 W)
2	POWER: 1 = 3 W 2 = 6.5 W 3 = 3.2 W 4 = 4.3 W 5 = 10 W 6 = 4.2 W 7 = 2.5 W
2	PWM FREQUENCY: 2 = 500 Hz 3 = 1 KHz

Mod. 122-800



Connector Mod. 122-800 DIN 43650 (PG)





Digital proportional servo valves Series LR

3/3-way direct acting servo valves for the flow (LRWD2), pressure (LRPD2) and position (LRXD2) control





CODING EXAMPLE

L	R	W	D	2	-	3	4	_	1	-	Α	_	00
_			_	_		_	_		_				

-	K W D L J T I K
L	SERIES: L = proportional servo valves
R	TECHNOLOGY: R = rotating spool
W	VERSION: W = flow control - P = pressure control - X = position control
D	ELECTRONICS: D = digital
2	MODEL: 2 = compact DIN-RAIL
3	FUNCTION: 3 = 3/3-way
4	NOMINAL DIAMETER: 4 = 4 mm - 6 = 6 mm
1	COMMAND SIGNAL (Setpoint): 1 = +/-10 V - 2 = 0 - 10 V - 5 = 4 - 20 mA
Α	INPUT SIGNAL: 2 = 0 - 10 V (LRPD2 and LRXD2 only) 4 = 0 - 5V (LRPD2 and LRXD2 only) 5 = 4 - 20mA (LRPD2 and LRXD2 only) D = 10 bar (internal sensor - LRPD2 only) E = 250 mbar (internal sensor - LRPD2 only) F = +1/-1 bar (internal sensor - LRPD2 only)
00	CABLE: 00 = no cable 2F = straight cable of 2 m 2R = 90° cable of 2 m 5F = straight cable of 5 m 5R = 90° cable of 5 m

Fixing foot Mod. LRADB

Supplied with: 4x screws



Mounting brackets for DIN-rail Mod. PCF-EN531

DIN EN 50022 (7,5mm x 35mm - width 1) Supplied with: 2x mounting brackets 2x screws M4x6 UNI 5931 2x nuts



Electrical tee box Mod. CS-AA08EC

Connection valve-PLC-external transducer



Straight female connector M12 8 pin For electric supply and commands



Cable with straight female connector M12 8 pin

For electrical supply and commands

Mod. CS-LF08HB-C200 CS-LF08HB-C500

Cable with angular (90°) female connector M12 8 pin

For electric supply and commands

Mod.

PCF-EN531



USB to Micro USB cable Mod. G11W-G12W-2

Mod.

For the hardware configuration of the Camozzi products



Open Frame proportional controller Series OF

Modular system for proportional control of pressure, flow and position





- » Closed loop flow control
- » Compatible to be used with oxygen
- » Composed of two base modules: Head and Expansion
- » Customised, turnkey solutions
- » Analog, CanOpen or IO-Link interface

The Open Frame Controller can be easily configured to meet specific application needs, to provide the most efficient, turnkey solutions, this reducing assembly times and system complexity.

The different Head and Expansion modules can be combined and driven through simple serial communications, making the control of complex applications easier. Typical applications could include the mixing of different gases, piloting different pressures in different parts of the machine.

The new "Open Frame Controller" system is a platform for providing closed loop control of flow, pressure and position and is suitable for Industry 4.0 applications. The system is composed of two base modules: Head and Expansion.

GENERAL DATA

Weight

Construction	modular, compact, direct acting
Number of ways	2/2-way - 3/3-way - Parallel
Flow	max. 90 NI/min
Media	compressed air, inert gases and oxygen. Filtering according to ISO 8573-1 class 7.4.4
Supply pressure	-1 ÷ 10 bar
Operating pressure	-1 ÷ 10 bar
Ports	G1/8
Materials	seals: FKM
Mounting position	any position
Analogical input	0-10 V or 4-20 mA
Analogical output	0-10 V
Supply voltage, Current absorbed	24 VDC 0,3A or 12 VDC 0,6A (Head or Expansion Module)
BUS interface	CANopen CiA 301 IO-Link (connection type portclass B)
Protection class	IP20
Hysteresis	Pressure control version <= 3%FS; Flow control version <= 2%FS
Repeatability	Pressure control version <= 1%FS for pressures less than 1 Bar <= 2%FS; Flow control version <= 2%FS
Resolution	Flow control version <= 2%FS
Linearity	Pressure control version <= 2%FS; Flow control version <= 5%FS
Environmental temperature (min and max °C)	0 ÷ 60°C For low temperature on request.

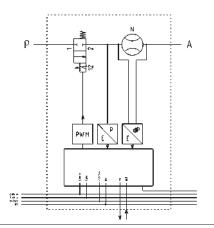
300 g Single module



PNEUMATIC SCHEME

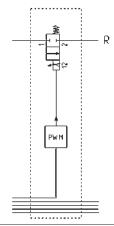
HEAD MODULE SCHEME

P = pressure inlet head A = output head module N = calibrated nozzle



EXPANSION MODULE SCHEME

R= expansion exhaust

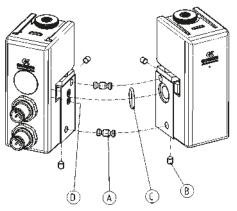


MOUNTING EXAMPLE

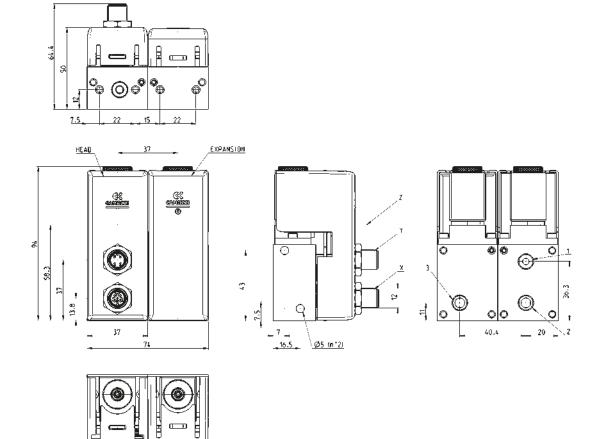
To correctly mount the modular HEAD and EXPANSION components, insert the fixing elements (A) in the special seats between the two bodies and the O-Ring (C) in the seat on the EXPANSION body.

Join the two bodies and fix them into position with the fixing nuts (B), close to the side in contact.

The positions of the covers (D), prepared at the factory, cannot be changed.



Open Frame proportional controller - dimensions



Mod.	Х	Υ	Z	А	В	С	М
OF-2	M12 5 PIN (Male)	M12 5 PIN (Male)	Micro USB	G1/8	G1/8	G1/8	M3 thread for mounting

Electronic proportional micro regulator Series K8P

Proportional regulator for pressure control





CODING EXAMPLE

|--|

SERIES
BODY DESIGN: 0 = Stand alone S = Standard Sub-base L = Light Sub-base T = Light Sub-base for pressure remote reading
WORKING PRESSURE: D = 0 - 10 bar E = 0 - 3 bar F = 0 - 7 bar B = 0 - 1 bar
VALVE FUNCTIONS: 5 = 3/2-way NC
COMMAND: 2 = 0-10 V DC 3 = 4-20 mA
OUTPUT SIGNAL: 2 = 0-10 V
CABLE LENGTH: 0 = without cable 2F = straight cable, 2 m 2R = right angle cable (90 degrees), 2 m 5F = straight (able, 5 m 5R = right angle cable (90 degrees), 5 m
VERSIONS: = standard OX1 = for use with oxygen (in compliance with ASTM G93-03 Level E)

APPLICATION

The K8P proportional regulator can be used as a pilot valve to control the opening of high flow valves or to check the high flow pressure regulators proportionally (version with sub-base for the pressure remote reading). It enables proportional control of power in lifting systems and can be used with inert gas to maintain a constant pressure in pneumatic cylinders or expansion valve chambers. It has also been designed to maintain a constant pressure during the pulling power applied to the wires in winding machines, to modulate pressure during the smoothing process in woodworking machines or to adjust the opening of diaphragm valves.

Standard Sub-base

The use of a silencer (Mod. 2939 4) on the exhaust is recommended.



Light Sub-baseThe use of a silence

The use of a silencer (Mod. 2931 M5, 2938 M5, 2901 M5) on the exhaust is recommended.



Light Sub-base for pressure remote reading

The use of a silencer (Mod. 2931 M5, 2938 M5, 2901 M5) on the exhaust is recommended.



Mounting bracket for DIN rail

DIN EN 50022 (7,5mm x 35mm - width 1)
Supplied with:
1x mounting bracket
1x screw M4x6 UNI 5931
This accessory cannot be used
with the Light sub-base.





Bracket for horizontal mounting, for standard sub-base

Supplied with: 1x mounting bracket 2x screws M3x8 UNI 5931



Circular M8 4-pin connectors, Female

With PU sheathing, non shielded cable. Protection class: IP65

Mod. CS-DF04EG-E200 CS-DF04EG-E500 CS-DR04EG-E200 CS-DR04EG-E500





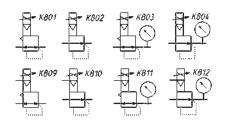
Proportional pressure regulator and proportional flow valve Series MX-PRO

Regulator and valve ports (standard and Manifold): G1/2 Regulator: with built-in pressure gauge or G1/8 threaded ports

Valve: without pressure gauge







K801 = relieving, electrical command K802 = NO relieving, electrical command

K803 = relieving, electrical command, built-in pressure gauge K804 = NO relieving, electrical command, built-in pressure gauge

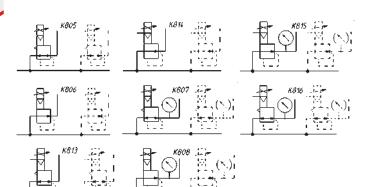
K809 = relieving, electrical command, ext. servo pilot supply

K810 = NO reliev., electrical command, ext. servo pilot supply K811 = reliev., el. com., built-in pr. gauge, ext. servo pilot supply

K812 = NO reliev., el. com., built-in pr. gauge, ext. servo pilot sup.







K805 = MANIFOLD reg., relieving, electrical command

K806 = MANIFOLD reg., NO relieving, electrical command K807 = MANIFOLD reg., relieving, electrical command and built-in pressure gauge

K808 = MANIFOLD reg., retieving, electrical command and built-in pressure gauge
K813 = MANIFOLD reg., relieving, electrical command, and external servo pilot supply
K814 = MANIFOLD reg., relieving, electrical command, and external servo pilot supply
K815 = MANIFOLD reg., relieving, electrical command, built-in pressure gauge

and external servo pilot supply

K816 = MANIFOLD reg., NO relieving, electrical command, built-in pressure gauge

and external servo pilot supply

CAMOZZI

CODING EXAMPLE

MX	2	-	1/2	-	R	CV	2	0	4	_	LH
MX	SERIES										
2	SIZE: 2 = G1/2										
1/2	PORTS: 1/2 = G1/2										

COMMAND: CV

R

4

OX1

CV = electrical command 0-10 V DC (regulator only) CA = electrical command 4-20 mA (regulator only)

XV = electrical command 0-10 V DC with external servo pilot supply for use with oxygen XA =electrical command 4-20 mA DC with external servo pilot supply for use with oxygen

EV = electrical command 0-10 V DC with external servo pilot supply EA = electrical command 4-20 mA with external servo pilot supply

REGULATOR SETTING RANGE: 2 1 = working pressure 0.15 ÷ 3 bar 2 = working pressure 0.5 ÷ 10 bar * 3 = working pressure 0.05 ÷ 1 bar

4 = working pressure 0.35 ÷ 7 bar

VALVE SETTING RANGE:

DESIGN TYPE: 0 0 = relieving (regulator only) 1 = without relieving

FUNCTIONING:

V = flow valve W = Manifold flow valve

R = pressure regulator M = Manifold pressure regulator

PRESSURE GAUGE: 0 = without pressure gauge, with threaded port for gauges 2 = with built-in pressure gauge 0-6 bar (regulator only)

3 = with built-in pressure gauge 0-10 bar (regulator only) 4 = with built-in pressure gauge 0-12 bar (regulator only)

FLOW DIRECTION: LH = from left to right (standard)

LH = from right to left

= suitable for use with oxygen (V and W flow valve only)

*For configurations with a pressure control range of 10 bar in the OX1 version, it is mandatory to use the version with external servo pilot supply with air.

Rapid clamp kit

The kit MX2-X is supplied with: 1 rapid clamp, 1 0-ring OR 3125 *, 2 exagonal nuts M5, 2 screws M5x69. The kit MX2-Z is supplied with: 1 rapid clamp, 1 O-ring OR 3125 *, 1 exagonal nut M5, 1 screw M5x69, 1 screw M5x85 for wall fixing.
* can be ordered separately (cod. 160-39-11/19) Materials: technopolymer clamp, NBR O-ring, zinc-plated steel nuts and screws.

Mod. MX2-X MX2-7

Rapid clamp kit with wall fixing brackets

The kit MX2-Y is supplied with: 1 wall rapid clamp, 1 0-ring OR 3125 **, 2 exagonal nuts, 2 screws M5x69. ** can be ordered separately (cod. 160-39-11/19) Materials: technopolymer clamp, NBR O-ring, zinc-plated steel nuts and screws.

Mod. MX2-Y

Terminal flanges (IN/OUT)

The kit is supplied with: · 1 flange INLET side - 1 flange OUTLET side

Materials: painted aluminium flanges.



Mod. MX2-1/2-FL

Rapid clamps kit + flanges



Rapid clamps kit with wall fixing brackets + flanges



Mod. MX2-1/2-KK

Block for pressure gauge fixing

The kit is supplied with: 1 block

1 grain

2 screws

1 seal



Mod. MX2-R26/1-P

O-ring for assembling

160-39-11/19

Circular M8 4-pin connectors, Female

With PU sheathing, non shielded cable. Protection class: IP65

Mod. CS-DF04EG-E200 CS-DF04EG-E500 CS-DR04EG-E200 CS-DR04EG-E500



Pressure gauges with rear connection

Precision class CL1.6

Mod. M043-P02,5 M053-P04 M043-P04 M053-P06 M043-P06 M053-P10 M043-P10 M053-P12 M043-P12



PROPORTIONAL TECHNOLOGY

8

Proportional pressure regulator with CoilVision® technology Series PRE

Two sizes available: PRE1 and PRE2 Ports G1/8 - G1/4 - G3/8 - 1/4NPTF



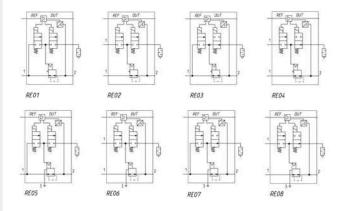






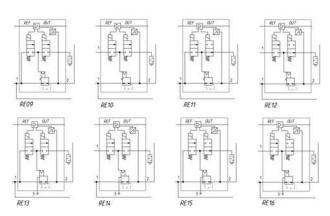


PNEUMATIC SYMBOLS OF SERIES PRE PROPORTIONAL PRESSURE REGULATOR, size 1 and 2



- RE01 = Version with internal servo-pilot supply, two pilot valves 2/2 NC
- REO2 = Version with external servopilot supply and two pilot valves 2/2 NC
- RE03 = Version with internal servopilot supply and two pilot valves;
- one 2/2 NC and one 2/2 NO (exhaust) RE04 = Version with external servopilot supply and two pilot valves;
- one 2/2 NC and one 2/2 NO (exhaust)
- REO5 = Version with internal servo-pilot supply and two pilot valves 2/2 NC,
- exhaust conveyable
- REO6 = Version with external servopilot supply and two pilot valves 2/2 NC, exhaust convevable
- RE07 = Version with internal servopilot supply and two pilot valves;
- one 2/2 NC and one 2/2 NO to exhaust, exhaust conveyable
- RE08 = Version with external servopilot supply and two pilot valves;
- one 2/2 NC and one 2/2 NO to exhaust, exhaust conveyable

PNEUMATIC SYMBOLS OF SERIES PRE PROPORTIONAL PRESSURE REGULATOR, manifold version size 1 and 2



- RE09 = Manifold version with internal servo-pilot supply and two pilot valves 2/2 NC
- RE10 = Manifold version with external servo-pilot supply and two pilot valves 2/2 NC. RE11 = Manifold version with internal servo-pilot supply and two pilot valves; one 2/2 NC and one 2/2 NO to exhaust
- RE12 = Manifold version with external servo-pilot supply and two pilot valves;
- one 2/2 NC and one 2/2 NO to exhaust
- RE13 = Manifold version with internal servo-pilot supply and two pilot valves 2/2 NC and exhaust conveyable
- RE14 = Manifold version with external servo-pilot supply and two pilot valves 2/2 NC and exhaust conveyable
- RE15 = Manifold version with internal servo-pilot supply and two pilot valves;
- one 2/2 NC and one 2/2 NO to exhaust, exhaust conveyable.

 RE16 = Manifold version with external servo-pilot supply and two pilot valves; one 2/2 NC and one 2/2 NO to exhaust, exhaust conveyable

C∢ CAMOZZI

CODING EXAMPLE

PRE	1 04 - D D 5 I 2 E - 00 0D									
PRE	SERIES									
1	Size: 1 = Size 1 2 = Size 2									
04	CONNECTION PORTS: 04 = 61/4 38 = 63/8 (only size 2) M4 = 61/4 Manifold 14 = NPTF 1/4 (only size 1) N4 = 1/4 NPTF Manifold 08 = 61/8 (only size 1) M8 = 61/8 Manifold (only size 1)									
D	DISPLAY: E = without display D = with display									
D	WORKING PRESSURE (1 bar = 14,5 psi): B = 0-1 bar E = 0-4 bar F = 0-6 bar (standard for 0X1 version with internal servo pilot supply) G = 0-7 bar D = 0-10,3 bar 2 = external sensor 0-10 or 4-20 mA (only with command signal 2 or 4) The external sensor is not included with the regulator. It must be bought separately.									
5	VALVE FUNCTIONS: 5 = Standard, 3-way version, NC. Size 1 and 2 with port 3 and pilot exhaust not conveyable 6 = Version with integrated exhaust valve (maximum working pressure B, E, F or G). Size 1 and 2 with port 3 and pilot exhaust not conveyable 7 = Standard, 3-way version, NC. Size 1 and 2 with port 3 and pilot exhaust conveyable 8 = Version with integrated exhaust valve (maximum working pressure B, E, F or G). Size 1 and 2 with port 3 and pilot exhaust conveyable									
I	PILOT SUPPLY: I = Internal E = External									
2	COMMAND SIGNAL: 2 = 0-10 V 4 = 4-20 mA D = 5 bit Preset, 32 different pressure values I = 10-Link									
E	DIGITAL FEEDBACK SIGNAL: N = without digital output (only with IO-Link version) E = error signal (only with input signal 2, 4, D) P = pressure switch (only with input signal 2, 4, D) W = window (only with input signal 2, 4, D)									
00	CABLE LENGTH: 00 = No cable 2F = 2mt straight unshielded 2R = 2mt 90° cable unshielded 5F = 5mt straight unshielded 5R = 5mt 90° cable unshielded 2FC = 2mt straight shielded 2FC = 2mt straight shielded 2RC = 2mt 90° shielded 5RC = 5mt 90° shielded 5RC = 5mt 90° shielded									
0D	DIAGNOSTIC ACCESSORIES: = without diagnosis (only with input signal 2, 4, D) 0D = basic diagnostics (only with input signal 2, 4, D) 0W = wireless diagnostics (only with input signal 2, 4, D) DW = wireless diagnostics + CoilVision* (only with input signal 2, 4, D)) 1D = IO-Link + CoilVision* diagnostics (only with IO-Link version)									
OX1	CERTIFICATIONS: = no certification OX1 = compatible with oxygen									
	Version suitable to be used with oxygen. With a working pressure of Max 6 Bar, available both with internal and external pilot supply; with all other versions only with external pilot supply"									



Cable with M12 8 pin straight connector, female

For power supply, analog command signal and PreSet



Mod.

CS-LF08HC-G500

CS-LF08HB-H200 CS-LF08HB-H500

Cable with M12 5 pin connnector, 90°, female

For power supply and 10-Link command signal



Mod. CS-LR05HB-C200

CS-LR05HB-C500

CS-LR05HB-D200 CS-LR05HB-D500

Electrical tee box Mod. CS-AA08EC

To connect the external transducer, power supply and command signal



Mod. CS-AA08EC

Fixing kit for manifold version: PRE-M-PIN-1-2

The kit includes: 2x shaped steel pins 4x steel grub screws 1x O-Ring



Mod. PRE-M-PIN-1-2

USB to Micro USB cable Mod. G11W-G12W-2

For the hardware configuration of the Camozzi products



Cable with M12 8 pin connnector, 90°, female

For power supply, analog command signal and PreSet



Mod.

CS-LR08HB-H200 CS-LR08HB-H500

CS-LR08HC-G500

Cable with M12, 12 pin connector, straight, female

For power supply and analog command signal with external sensor



Mod. CS-LF12HC-C200

CS-LF12HC-C500

CS-LF12HC-D200 CS-LF12HC-D500

Mounting brackets for DIN-rail Mod. PCF-EN531

DIN EN 50022 (7,5mm x 35mm - width 1) Supplied with:

2x mounting brackets

2x screws M4x6 UNI 5931 2x nuts



Mod. PCF-EN531

Fixing kit for Series MD: PRE

The kit includes: 1x bushing 1x O-Ring 2x special Ø4.5x34 white zinc-plated screws



Mod. PRE-1/4-C

Y-shaped, PRE - CX4 connection cable

Cable to connect PRE to the analog I/O modules CX and CX4. M12 8 pin (PRE) and M12 5 pin (CX input and CX output) connections.



Cable with M12 5 pin straight connector, female

For power supply and 10-Link command signal



Mod.

CS-LF05HB-C200 CS-LF05HB-C500

CS-LF05HB-D500

Cable with M12 12 pin connnector, 90°, female

For power supply and analog command signal with external sensor



Mod.

CS-LR12HC-C200 CS-LR12HC-C500 CS-LR12HC-D200

CS-LR12HC-D500

Rear bracket Mod. PRE-ST

The kit includes 1x zinc-plated bracket 2x M4x55 white zinc-plated screws



Mod. PRE-ST

Fittings for external pilot supply



Mod. 6625 3-M5

Proportional pressure regulator Series PME

Two sizes available: PME1 and PME2 Ports G1/8 - G1/4 - G3/8 - 1/4NPTF









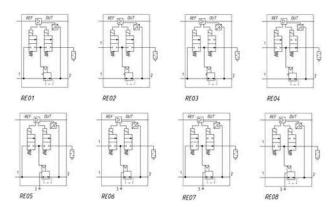
- » Manifold version
- » Integrated exhaust valve version
- » Modular with Series MD
- » Configuration APP that uses NFC technology
- » Compact and essential
- » Compatible with OXYGEN
- » Serial version in CANpen

The Series PME proportional pressure regulator is the ideal solution for industrial applications that require accurate pressure control. This new pressure regulator offers a high pneumatic performance, despite having its weight and dimensions reduced to a minimum to allow greater flexibility in its use.

Series PME is available in two sizes and versions. One version has an integrated exhaust valve that allows the system to discharge even in the absence of power. The second is a manifold version, ideal for controlling several outlets with only a single air inlet.

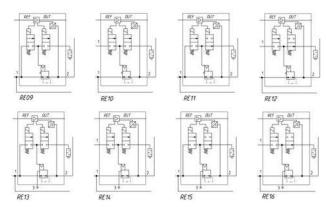
A new CANopen serial version is also available. Ideal for controlling multiple controllers on a single fieldbus and for applications that need to operate within a wide supply voltage range (12÷24 V DC).

PNEUMATIC SYMBOLS OF SERIES PME PROPORTIONAL PRESSURE REGULATOR, size 1 and 2



- REO1 = Version with internal servo-pilot supply, two pilot valves 2/2 NC
- RE02 = Version with external servopilot supply and two pilot valves 2/2 NC
- RE03 = Version with internal servopilot supply and two pilot valves;
- one 2/2 NC and one 2/2 NO (exhaust)
- RE04 = Version with external servopilot supply and two pilot valves; one 2/2 NC and one 2/2 NO (exhaust) REO5 = Version with internal servo-pilot supply and two pilot valves 2/2 NC, exhaust conveyable
- REO6 = Version with external servopilot supply and two pilot valves 2/2 NC, exhaust conveyable
- RE07 = Version with internal servopilot supply and two pilot valves; one 2/2 NC
- and one 2/2 NO to exhaust, exhaust conveyable REO8 = Version with external servopilot supply and two pilot valves; one 2/2 NC and one 2/2 NO to exhaust, exhaust conveyable

PNEUMATIC SYMBOLS OF SERIES PME PROPORTIONAL PRESSURE REGULATOR, manifold version size 1 and 2



- RE09 = Manifold version with internal servo-pilot supply and two pilot valves 2/2 NC
- RE10 = Manifold version with external servo-pilot supply and two pilot valves 2/2 NC
- RE11 = Manifold version with internal servo-pilot supply and two pilot valves; one 2/2 NC and one 2/2 NO to exhaust
- RE12 = Manifold version with external servo-pilot supply and two pilot valves; one 2/2 NC and one 2/2 NO to exhaust
- RE13 = Manifold version with internal servo-pilot supply and two pilot valves 2/2 NC and exhaust conveyable
- RE14 = Manifold version with external servo-pilot supply and two pilot valves 2/2 NC and exhaust conveyable RE15 = Manifold version with internal servo-pilot supply and two pilot valves;
- one 2/2 NC and one 2/2 NO to exhaust, exhaust conveyable
- RF16 = Manifold version with external servo-pilot supply and two pilot valves:

one 2/2 NC and one 2/2 NO to exhaust, exhaust conveyable



CODING EXAMPLE

PMI	1	04	-	E	D	5	I	2	E	-	00
PME	SERIES										
1	SIZE 1 = Size 1 2 = Size 2										
04	CONNECTION PORT 04 = G1/4 38 = G3/8 (only size 2) M4 = G1/4 Manifold 14 = NPTF 1/4 (only siz N4 = 1/4 NPTF Manifold 08 = G1/8 (only size 1) M8 = G1/8 Manifold (o	ze 1) d									
E	DIAGNOSTICS E = Without WiFi No Diagnostics										
D	WORKING PRESSURE F = 0-6 bar (standard for OX1 version with internal servo-pilot supply) G = 0-7 bar (OX1 versions only with external servo-pilot supply with air) D = 0-10,3 bar (OX1 versions only with external servo-pilot supply with air)										
5	VALVE FUNCTION 5 = Standard, 3-way NC version. Size 1 and 2 with port 3 and pilot exhaust not conveyable. 6 = Version with integrated exhaust valve (maximum working pressure F or G). Size 1 and 2 with port 3 and pilot exhaust not conveyable. 7 = Standard, 3-way NC version. Size 1 and 2 with port 3 and pilot exhaust conveyable. 8 = Version with integrated exhaust valve (maximum working pressure F or G). Size 1 and 2 with port 3 and pilot exhaust conveyable										
I	PILOT SUPPLY I = Internal E = External										
2	COMMAND SIGNAL 2 = 0-10V 4 = 4-20mA C = CANopen										
E	FEEDBACK DIGITAL OU N = without digital or E = error (only with ir	utput (only wi nput signal 2, 4	·)	rsion)							

00 00 = No cable

CARLETENGTH

2F = 2mt 5 pin straight unshielded 2R = 2mt 5 pin 90° cable unshielded

2R = 2mt 5 pin 90° cable unshielded 5R = 5mt 5 pin straight unshielded 5R = 5mt 5 pin 90° cable unshielded 2R3 = 2 mt 90° cable, 3 wires (*) unshielded 5R3 = 2 mt 90° cable, 3 wires (*) unshielded 2FC = 2mt 5 pin 50° cable, 3 wires (*)

W = pressure switch (only with input signal 2, 4)
W = pressure switch with "window" function (only with input signal 2, 4)

2RC = 2mt 5 pin 90° cable shielded 5FC = 5mt 5 pin straight shielded

5RC = 5mt 5 pin 90° cable shielded

CERTIFICATES OX1

= no certificate

OX1 = for use with oxygen, available in the versions "Working pressure" F; and with "Valve Function" 7; 8.

With a working pressure of Max 6 Bar, available both with internal and external pilot supply; with all other versions only with external pilot supply.

(*) in the cable versions with 3 wires, only pins 1 (24 VDC), 4 (GND) and 3 (IN +) are available. On the other hand, pin 5 (Dout) is not available.



Cable with M12 5 pin connector, straight, female

For power supply and command signal



Mod. CS-LF05HB-C200 CS-LF05HB-C500 CS-LF05HB-D500

Cable with M12 5 pin connector, 90°, female

For power supply and command signal



Mounting brackets for DIN-rail PME

DIN EN 50022 (7,5mm x 35mm - width 1) Supplied with: 2x mounting brackets 2x screws M4x6 UNI 5931 2x nuts



Mod. PCF-EN531

Rear bracket Mod. PME

The kit includes 1x zinc-plated bracket 2x M4x55 white zinc-plated screws



Mod. PRE-ST

Fixing kit for manifold version: PME

The kit includes: 2x shaped steel pins 4x steel grub screws 1x O-Ring

CS-LR03HB-C500

Mod.



Mod. PRE-M-PIN-1-2

CS-LF05HC

Kit to fix PME on Series MD

The kit includes: 1x bushing 2x special Ø4.5x34 white zinc-plated screws



Mod. PRE-1/4-C PRE-3/8-C

Fittings for external pilot supply



6625 3-M5

Straight female M12, 5 pin connector for Bus-In CANopen



Angular 90°, female M12, 5 pin connector for Bus-In CANopen



Mod. CS-LR05HC

CANopen data line tee



Mod. CS-AA05EC

Filters Series MX

MX2 ports: G3/8, G1/2, G3/4 - MX3 ports: G3/4, G1

Modular

Bowl with technopolymer cover and bayonet-type mounting









FT01 = filter with direct G1/8 exhaust FT02 = filter with semi-automatic manual drain FT03 = filter with automatic/depressuring drain









FT05 = filter with direct G1/8 exhaust and visual blockage indicator FT06 = filter with semi-automatic manual drain and visual blockage indicator FT07 = filter with automatic/depressuring drain and visual blockage indicator

CODING EXAMPLE

MX	2	-	1/2	-	F	0	0	1	-	LH

MX	SERIES
2	SIZE 2 = G3/8 - G1/2 - G3/4 3 = G3/4 - G1
1/2	PORT 3/8 = G3/8 1/2 = G1/2 3/4 = G3/4 1 = G1
F	FILTER
0	FILTERING ELEMENT 0 = 25 μm (standard) 1 = 5 μm
0	DRAINING OF CONDENSATE 0 = semiautomatic-manual drain (standard - only for polymer bowl) 3 = automatic drain 5 = depressuring drain, protected (only for polymer bowl) 8 = without drain, with port G1/8
1	VISUAL BLOCKAGE INDICATOR = not present 1 = present
LH	FLOW DIRECTION = from left to right (standard) LH = from right to left

For the assembly of a single component with fixing flanges or wall-mounting, see the section "FRL Series MX Assembled"

R TREATMENT



MX2 ports: G3/8, G1/2, G3/4 - MX3 ports: G3/4, G1

Modular

Bowl with technopolymer cover and bayonet-type mounting









FA01 = coalescing filter without drain with port G1/8 FA02 = coalescing filter with semi-automatic manual drain FA03 = coalescing filter with automatic or depressuring drain









FA04 = coalescing filter without drain, with port G1/8 and visual blockage indicator FA05 = coalescing filter with semi-automatic manual drain and visual blockage indicator FA06 = coalescing filter with automatic or depressuring drain and visual blockage indicator

CODING EXAMPLE

MX 2 - 1/2 - FC 0 0 1 - LH

MX	SERIES
2	SIZE 2 = G3/8 - G1/2 - G3/4 3 = G3/4 - G1
1/2	PORTS 3/8 = 63/8 1/2 = 61/2 3/4 = 63/4 1 = 61
FC	COALESCING FILTER
0	FILTERING ELEMENT 0 = 0,01 μm (standard) 1 = 1 μm
0	DRAINING OF CONDENSATE 0 = semiautomatic-manual drain (standard - only for polymer bowl) 3 = automatic drain 5 = depressuring drain, protected (only for polymer bowl) 8 = without drain, with port G1/8
1	VISUAL BLOCKAGE INDICATOR = not present 1 = present
LH	FLOW DIRECTION = from left to right (standard) LH = from right to left

For the assembly of a single component with fixing flanges or wall-mounting, see the section "FRL Series MX Assembled" and the section of t

Actived carbon filters Series MX

MX2 ports: G3/8, G1/2, G3/4 - MX3 ports: G3/4, G1

Modular

Bowl with technopolymer cover and bayonet-type mounting





FC01 = activated carbon filter





FC02 = activated carbon filter with visual blockage indicator

CODING EXAMPLE

MX	2	-	1/2	-	FCA	1	-	LH
MX	SERIES							
2	SIZE 2 = G3/8 - G1/2 - G3 3 = G3/4 - G1	/4						
1/2	PORT 1/2 = G1/2 3/4 = G3/4 1 = G1							
FCA	ACTIVATED CARBON F	FILTER						
1	VISUAL BLOCKAGE IN = not present 1 = present	DICATOR						
LH	FLOW DIRECTION = from left to right							

For the assembly of a single component with fixing flanges or wall-mounting, see the section "FRL Series MX Assembled"

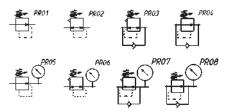


MX2 ports: G3/8, G1/2, G3/4 - MX3 ports: G3/4, G1

Manifold ports: G1/2 (MX2 only)

Modular - Available with built-in pressure gauges or ports for gauges





PR01 = regulator without relieving

PRO2 = regulator with relieving
PRO3 = regulator with relieving and by-pass valve

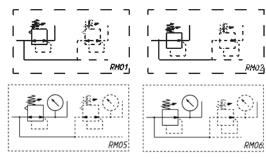
PRO4 = regulator without relieving with by-pass valve
PRO5 = regulator without relieving and with pressure gauge
PRO6 = regulator with relieving and pressure gauge

PR07 = regulator with relieving and pressure gauge PR08 = reg. without reliev. with by-pass valve and pressure gauge

from left to right (standard)

LH = from right to left





RM01 = Manifold reg. with relieving and without pressure gauge RM05 = Manifold reg. with relieving and pressure gauge RM02 = Manifold reg. without relieving or pressure gauge RM06 = Manifold reg. without relieving and with pressure gauge

CODING EXAMPLE

MX	2 - 3/8 - R 0 0 4 - LH
MX	SERIES
2	SIZE 2 = G3/8 - G1/2 - G3/4 3 = G3/4 - G1
3/8	PORTS 3/8 = G3/8 1/2 = G1/2 3/4 = G3/4 1 = G1
R	TYPER OF REGULATOR R = pressure regulator M = Manifold pressure regulator (MX2 - G1/2 only)
0	OPERATING PRESSURE (1 bar = 14,5 psi) 0 = 0.5 ÷ 10 bar (standard) 4 = 0.5 ÷ 4 bar 7 = 0.5 ÷ 7 bar (MX2 only)
0	DESIGN TYPE 0 = relieving (standard) 1 = without relieving 2 = relieving, with by-pass valve (only regulator) 3 = without relieving, with by-pass valve (only regulator)
4	PRESSURE GAUGE 0 = without pressure gauge (with threaded port for gauges) 2 = with built-in pressure gauge 0-6 and working pressure 0.5 ÷ 4 bar 3 = with built-in pressure gauge 0-10 and working pressure 0.5 ÷ 7 bar (MX2 only) 4 = with built-in pressure gauge 0-12 and working pressure 0.5 ÷ 10 bar (standard)
1H	FLOW DIRECTION

For the assembly of a single component with fixing flanges or wall-mounting, see the section "FRL Series MX Assembled"

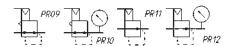
AIR TREATMENT > SERIES MX SHORT FORM CATALOGUE 2024

Pneumatic pilot operated pressure regulators Series MX

Ports: G3/8, G1/2, G3/4

Modular - Available with built-in pressure gauges or ports for gauges





PR09 = reg. with relieving

PR10 = regulator with relieving and pressure gauge PR11 = regulator without relieving

PR12 = regulator without relieving and with pressure gauge

CODING EXAMPLE

MX	2	_	1/2	-	R	СР	0	0	4	-	LH
----	---	---	-----	---	---	----	---	---	---	---	----

MX	SERIES
2	SIZE 2 = G3/8 - G1/2 - G3/4
1/2	PORTS 3/8 = G3/8 1/2 = G1/2 3/4 = G3/4
R	TYPER OF REGULATOR R = pressure regulator
СР	TYPE OF COMMAND/PILOT SUPPLY CP = pneumatic pilot supply
0	OPERATING PRESSURE 0 = 0.5 ÷ 10 bar
0	DESIGN TYPE 0 = relieving (standard) 1 = without relieving
4	PRESSURE GAUGE 0 = without pressure gauge (with threaded port for gauges) 4 = with built-in pressure gauge 0-12 and working pressure 0.5 ÷ 10 bar (standard)
LH	FLOW DIRECTION = from left to right (standard) LH = from right to left

For the assembly of a single component with fixing flanges or wall-mounting, see the section "FRL Series MX Assembled"

Lubricators Series MX

MX2 ports: G3/8, G1/2, G3/4 - MX3 ports: G3/4, G1

Bowl with technopolymer cover and bayonet-type mounting





LU0 = lubricator

CODING EXAMPLE

	MX	2	_	1/2	_	L	00	-	LH
--	----	---	---	-----	---	---	----	---	----

MX	SERIES
2	SIZE 2 = G3/8 - G1/2 - G3/4 3 = G3/4 - G1
1/2	PORT 3/8 = G3/8 1/2 = G1/2 3/4 = G3/4 1 = G1
L	LUBRICATOR
00	DESIGN TYPE 00 = atomized oil
LH	FLOW DIRECTION = from left to right (standard) LH = from right to left

For the assembly of a single component with fixing flanges or wall-mounting, see the section "FRL Series MX Assembled" $\frac{1}{2} \left(\frac{1}{2} \right) = \frac{1}{2} \left(\frac{1}{2} \right) \left($

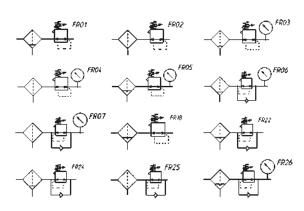
270



MX2 ports: G3/8, G1/2, G3/4 - MX3 ports: G3/4, G1

Modular

Bowl with technopolymer cover and bayonet-type mounting





FRO2 = filter-reg. with relieving and direct exhaust
FRO3 = filter-reg. with relieving, pressure gauge and manual/semiautomatic drain
FRO4 = filter-reg. with relieving, pressure gauge and direct exhaust

FRO5 = filter-reg. with relieving, pressure gauge and automatic drain FRO6 = filter-reg. with relieving, pressure gauge, manual/semiautomatic drain and by-pass valve

FR07 = filter-reg. with rel., pres. gauge, dir. exh. and by-pass valve FR18 = filter-reg. with relieving and automatic drain

 $\label{eq:FR22} \textbf{FR22} = \textbf{filter-reg. without relieving, with pressure gauge, automatic-depressurisation drain and by-pass valve}$

FR24 = filter-reg. with rel. and man/semiaut drain and bypass valve FR25 = filter-reg. with relieving, direct exhaust and by-pass valve

FR26 = filter-reg. without relieving, automatic-depressurisation drain and by-pass valve



CODING EXAMPLE

CEDIEC

MX	2	-	1/2	_	FR	0	0	0	4	-	LH	
----	---	---	-----	---	----	---	---	---	---	---	----	--

MX	SERIES
2	SIZE 2 = G3/8 - G1/2 - G3/4 3 = G3/4 - G1
1/2	PORT 3/8 = G3/8 1/2 = G1/2 3/4 = G3/4 1 = G1
FR	FILTER-REGULATOR
0	FILTERING ELEMENT WITH DESIGN TYPE 0 = 25 μm with relieving (standard) 1 = 5 μm with relieving (with semiautomatic-manual drain only) 3 = 5 μm without relieving (with semiautomatic-manual drain only) 4 = 25 μm without relieving and by-pass valve 5 = 5 μm with relieving and by-pass valve 6 = 25 μm with relieving, with by-pass valve 7 = 5 μm without relieving, with by-pass valve
0	DRAINING OF CONDENSATE 0 = semiautomatic-manual drain (standard - only for polymer bowl) 3 = automatic drain 5 = depressuring drain, protected (only for polymer bowl) 8 = without drain, with port G1/8
0	OPERATING PRESSURE 0 = 0.5 ÷ 10 bar (standard) 4 = 0.5 ÷ 4 bar 7 = 0.5 ÷ 7 bar (MX2 only)
4	PRESSURE GAUGE 0 = without pressure gauge (with threaded port) 2 = with built-in pressure gauge 0-6 and working pressure 0.5 ÷ 4 bar 3 = with built-in pressure gauge 0-10 and working pressure 0.5 ÷ 7 bar (MX2 only) 4 = with built-in pressure gauge 0-12 and working pressure 0.5 ÷ 10 bar (standard)
LH	FLOW DIRECTION = from left to right (standard) LH = from right to left

For the assembly of a single component with fixing flanges or wall-mounting, see the section "FRL Series MX Assembled"



Lockable isolation 3/2-way valves Series MX

MX2 ports: G3/8, G1/2, G3/4 - MX3 ports: G3/4, G1

Modular

Manual, electro-pneumatic, servo-pilot and pneumatic control





VN27 = Lockable bistable manual valve 3/2





EV10 = solenoid valve, 3/2 NC, monostable, with bistable manual override





YES1 = pneumatically operated valve, 3/2, monostable, mechanical spring



 ${\tt EV53} = {\tt solenoid}$ valve, 3/2, monostable, solenoid pilot with separate air supply and bistable manual override

CODING EXAMPLE

МХ	2		7 /0			01		
IVIX		-	5/8	-	V	01	-	LH

MX	SERIES
2	SIZE 2 = G3/8 - G1/2 - G3/4 3 = G3/4 - G1
3/8	PORT 3/8 = G3/8 1/2 = G1/2 3/4 = G3/4 1 = G1
V	3/2-WAY VALVE
01	DESIGN TYPE 01 = lockable manual control 16 = electro-pneumatic control 17 = servo-pilot control 36 = pneumatic control
LH	FLOW DIRECTION = from left to right (standard) LH = from right to left

For the assembly of a single component with fixing flanges or wall-mounting, see the section "FRL Series MX Assembled"



C CAMOZZI

3/2-way quick exhaust safety valves Series MX SAFEMAX

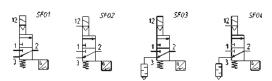
Ports: G1/2

» According to Machinery Directive 2006/42 / CE

Performance level reachable (PL) single version: category 2, PLd double version: category 4, PLe B10d





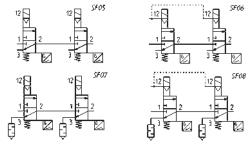


SF01 = SAFE solenoid valve, single valve, int. pilot

SF02 = SAFE solenoid valve, single valve, ext. pilot

SF03 = SAFE solenoid valve, single valve, int. pilot with silencer SF04 = SAFE solenoid valve, single valve, ext. pilot with silencer





SF05 = SAFE solenoid valve, double valve, int. pilot SF06 = SAFE solenoid valve, double valve, ext. pilot

SF07 = SAFE solenoid valve, double valve, int. pilot with silencer SF08 = SAFE solenoid valve, double valve, ext. pilot with silencer

CODING EXAMPLE SINGLE VALVE

MX	2	-	1/2	-	V	16	2	0	Α	В	-	KK	-	LH

					1					
MX	SERIES									
2	SIZE									
1/2	PORT 1/2 = G1/2									
V	COMPONENT V = 3/2-way valve									
16	CONSTRUCTION 16 = internal servo-pilot 17 = external servo-pilot									
2	CHANNEL 2 = single									
0	ACCESSORIES 0 = without silencer 1 = with silencer									
Α	SENSOR A = UL sensor, 2 mt cable B = UL sensor, 5 mt cable C = ATEX sensor, 2 mt cable D = ATEX sensor, 5 mt cable E = CE sensor M8 connector, 300 mm cable									
В	VERSION A = Atex B = UL C = CE	sensor and	version mus	comply wit	th the same	e Standard / o	directive AE	s, BB - CA, DA -	EC	
KK	MOUNTING = without mounting accessories HH = side quick clamps and flanges JJ= side wall clamps and flanges KK = side wall brackets and flanges									
LH	FLOW DIRECTION = from left to right (standard) LH = from right to left									

CODING EXAMPLE DOUBLE VALVE

1/2 16 4 0 KK LH MX

МХ	SERIES	
2	SIZE	
1/2	PORT 1/2 = G1/2	
V	COMPONENT V = 3/2-way valve	
16	CONSTRUCTION 16 = internal servo-pilot 17 = external servo-pilot	
4	CHANNEL 4 = double	
0	ACCESSORIES 0 = without silencer 1 = with silencer	
A	SENSOR A = UL sensor, 2 mt cable B = UL sensor, 5 mt cable C = ATEX sensor, 2 mt cable D = ATEX sensor, 2 mt cable E = CE sensor M8 connector, 300 mm cable	
В	VERSION A = Atex B = UL C = CE sensor	and version must comply with the same Standard / directive AB, BB - CA, DA - EC
KK	MOUNTING = without mounting accessories Z = central wall clamp Y = central wall bracket HH = side quick clamps and flanges JI= side wall clamps and flanges KK = side wall brackets and flanges	
LH	FLOW DIRECTION = from left to right (standard) LH = from right to left	



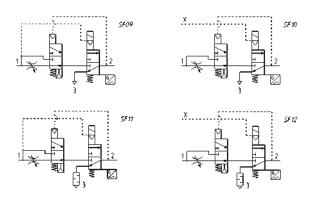
3/2-way quick exhaust safety valves with soft start Series MX SAFEMAX

Ports: G1/2

» According to Machinery Directive 2006/42 / CE

Performance level reachable (PL) single version: category 2, PLd double version: category 4, PLe B10d



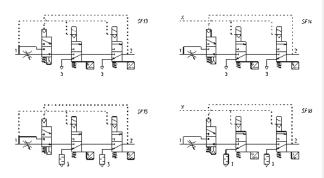


SF09 = SAFE solenoid valve, single valve, int. pilot with soft start valve SF10 = SAFE solenoid valve, single valve, ext. pilot with soft start valve

SF11 =SAFE solenoid valve, single valve, int. pilot with silencer and soft start valve

 ${\sf SF12} = {\sf SAFE} \ solenoid \ valve, single \ valve, ext. \ pilot \ with \ silencer \ and \ soft \ start \ valve$





SF13 = SAFE solenoid valve, double valve, int. pilot with soft start valve

SF14 = SAFE solenoid valve, double valve, ext. pilot with soft start valve

SF15 = SAFE solenoid valve, double valve, int. pilot with silencer and soft start valve

SF16 = SAFE solenoid valve, double valve, ext. pilot with silencer and soft start valve



CODING EXAMPLE SINGLE VALVE

MX	2	-	1/2	-	V	18	2	0	Α	В	-	KK	-	LH
MX	SERIES													
2	SIZE													
1/2	PORT 1/2 = G1/	/2												

V V = 3/2-way valve CONSTRUCTION 18

18 = internal servo-pilot with soft start valve 19 = external servo-pilot with soft start valve

CHANNEL 2 = single 2

ACCESSORIES 0 0 = without silencer 1 = with silencer

COMPONENT

SENSOR Α A = UL sensor, 2 mt cable B = UL sensor, 5 mt cable C = ATEX sensor, 2 mt cable

D = ATEX sensor, 5 mt cable E = CE sensor M8 connector, 300 mm cable

VERSION B A = Atex B = UL C = CE

sensor and version must comply with the same Standard / directive AB, BB - CA, DA - EC

MOUNTING
= without mounting accessories KK Z = central wall clamps Y= central wall brackets HH = side quick clamps and flanges

JJ= side wall clamps and flanges KK = side wall brackets and flanges

KK = side wall brackets and flanges

= from left to right (standard)

FLOW DIRECTION

LH = from right to left

FLOW DIRECTION = from left to right (standard) LH = from right to left LH

CODING EXAMPLE DOUBLE VALVE

1/2 18 MX 4 0 KK LH

MX	SERIES	
2	SIZE	
1/2	PORT 1/2 = G1/2	
V	COMPONENT V = 3/2-way valve	
18	CONSTRUCTION 18 = internal servo-pilot with soft start valve 19 = external servo-pilot with soft start valve	
4	CHANNEL 4 = double	
0	ACCESSORIES 0 = without silencer 1 = with silencer	
Α	SENSOR A = UL sensor, 2 mt cable B = UL sensor, 5 mt cable C = ATEX sensor, 2 mt cable D = ATEX sensor, 5 mt cable E = CE sensor M8 connector, 300 mm cable	
В	VERSION A = Atex B = UL C = CE	sensor and version must comply with the same Standard / directive AB, BB - CA, DA - EC
KK	MOUNTING = without mounting accessories Z = central wall clamps Y= central wall brackets HH = side quick clamps and flanges JJ= side wall clamps and flanges	

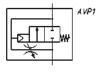
LH

Soft start valves Series MX

MX2 ports: G3/8, G1/2, G3/4 - MX3 ports: G3/4, G1

Modular





AVP1 = soft start valve

CODING EXAMPLE BAV 3

MX	2	-	3/8	-	AV	-	LH
MX	SERIES						
2	SIZE 2 = G3/8 3 = G3/4	- G1/2 - G3 - G1	3/4				
3/8	PORT 3/8 = G3 1/2 = G1						

01/

7 (0

3/4 = G3/41 = G1

SOFT START VALVE **AV**

FLOW DIRECTION LH = from left to right (standard) LH = from right to left

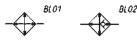
For the assembly of a single component with fixing flanges or wall-mounting, see the section "FRL Series MX Assembled"

Take-off blocks Series MX

MX2 port: G1/2 - MX3 port: G1

Modular





BL01 = take-off block BL02 = take-off block with VNR

CODING EXAMPLE

MX 2 - 1/2 - B 00 - LH	MX	2	_	1/2	_	В	00	-	LH
------------------------	----	---	---	-----	---	---	----	---	----

MX	SERIES
2	SIZE 2 = G1/2 3 = G1
1/2	PORT 2 = G1/2 3 = G1
В	TAKE-OFF BLOCK
00	DESIGN TYPE 00 = without no return valve (standard) 01 = with no return valve 02 = without no return valve, with double 0-ring seat
LH	FLOW DIRECTION = from left to right (standard) LH = from right to left

Accessories for Series MX

Rapid clamp kit Mod. MX2-... and MX3...

The kit MX2-X is supplied with: 1 rapid clamp, 1 0-ring OR 3125 *, 2 exagonal nuts M5, 2 screws M5x69. The kit MX2-Z is supplied with: 1 rapid clamp, 1 O-ring OR 3125 * 1 exagonal nut M5, 1 screw M5x69, 1 screw M5x85 for wall fixing. it can be ordered separately (cod. 160-39-11/19)

The kit MX3-X is supplied with: 1 rapid clamp, 1 O-ring OR 38X2,8 **, 2 square nuts M6, 2 screws M6x75. The kit MX3-Z is supplied with: 1 rapid clamp, 1 0-ring OR 38X2,8 ***, 1 square nut M6, 1 screw M6x75, 1 screw M6x90 for wall fixing. * it can be ordered separately (OR 38X2,8 NBR)

Materials: technopolymer clamp, NBR O-ring, zinc-plated steel nuts and screws.

Mod. MX2-X MX2-Z

мхз-х MX3-Z



See the positioning scheme in the section
"Series MX assembled FRL"

Rapid clamp kit with wall fixing brackets - size 2

The kit MX2-Y is supplied with: 1 wall rapid clamp, 1 O-ring OR 3125 **, 2 exagonal nuts, 2 screws M5x69. ** it can be separately ordered (cod. 160-39-11/19)

Materials: technopolymer clamp, NBR O-ring, zincplated steel nuts and screws



MX2-Y

hoM MX2-3/8-FL MX2-1/2-FL

MX2-3/4-FL

MX3-1-FI

See the positioning scheme in the section
"Series MX assembled FRL"

Rapid clamp kit with wall fixing brackets - size 3

The kit MX3-Y is supplied with: 1 wall rapid clamp, 1 O-ring 38X2,8 **, 2 square nuts M6, 2 screws M6x75 ** it can be also separately ordered (OR 38X2,8 NBR)

Materials: technopolymer clamp, NBR O-ring, zinc-plated steel nuts and screws



See the positioning scheme in the section
"Series MX assembled FRL"

Terminal flanges (IN/OUT)

The kit is supplied with:

- 1 flange INLET side

- 1 flange OUTLET side

Materials: painted aluminium flanges.



Fixing bracket for regulators

The kit is supplied with 1 zinc-plated steel bracket



Mod. MX2-S MX3-S

MMX3-Y

Rapid clamps kit + flanges

MX2-1/2-HH MX2-1/2-JJ MX2-3/4-HH MX2-3/8-JJ MX2-1/2-JJ MX2-3/4-JJ MX3-3/4-HH MX3-1-HH MX3-3/4-JJ MX3-1-JJ



Rapid clamps kit with wall fixing brackets + flanges





Block for pressure gauge fixing

The kit is supplied with:

1 block

1 grain 2 screws

1 seal



Mod. MX2-R26/1-P MX3-R26/1-P

MX built-in pressure gauge

The kit is supplied with: 1 pressure gauge 1 seal 2 screws





O-ring for assembling

Mod. 160-39-11/19 OR 38X2,8 NBR



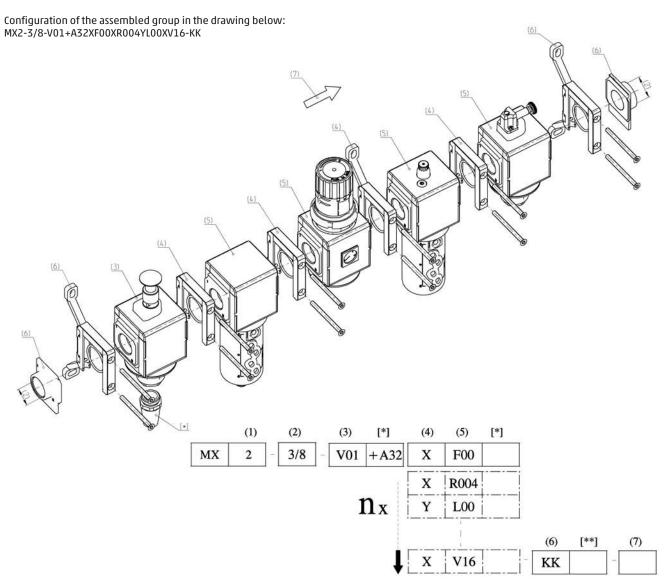


MX2 ports: G3/8, G1/2, G3/4 - MX3 ports: G3/4, G1 Assembly through rapid clamps



CONFIGURATION OF ASSEMBLED GROUPS SERIES MX

TO CONFIGURE THE ASSEMBLED GROUPS SERIES MX, USE THE HERE BELOW EXAMPLE AND THE RELATED LEGEND ON THE FOLLOWING PAGE.



CONFIGURATOR OF ASSEMBLED GROUPS SERIES MX

MX	2 -	3/8 - V01 X F00 - KK - LH
MX		SERIES
2	(1)	SIZE 2 = G3/8 - G1/2 - G3/4 3 = G3/4 - G1
-		
3/8	(2)	IN / OUT THREADS 3/8 = G3/8 1/2 = G1/2 3/4 = G3/4 1 = G1
-		
V01	[*]	MODULE + [*] (to configure the modules, see the single components pages): F = Filter F.C = Coalescing filter F.C = Activated carbons filter R = Pressure regulator L = Lubricator F.R = Filter-Regulator V = Lockable isolation valve AV = Soft start valve B = Take-off block (MX2: G1/2 only - MX3: G1 only) The following ACCESSORIES can be added after every single module: REGULATOR AND FILTER-REGULATOR MX2 +A56 = M053-P06 (Pressure gauge) +A56 = M053-P10 (Pressure gauge) +A58 = M063-P12 (Pressure gauge) +A60 = M063-P06 (Pressure gauge) +A61 = M063-P12 (Pressure gauge) LOCKABLE ISOLATION VALVE MX2 +A30 = 2901 1/2" (Silencier) +A31 = 2921 1/2" (Silencier) +A32 = 2931 1/2" (Silencier) +A33 = 2938 1/2" (Silencier) +A33 = 2938 1/2" (Silencier) +A34 = 2901 3/4" (Silencier) +A35 = 2931 3/4" (Silencier) +A36 = 2931 3/4" (Silencier) +A36 = PM11-NA (Pressure switch, normally open) +A01 = PM11-NA (Pressure switch, normally closed)
X	(4)	TAKE-OFF BLOCK MX2 +A08 = PM11-NA (normally open pressure switch) with fitting for fixing to the module +A09 = PM11-NC (normally closed pressure switch) with fitting for fixing to the module +A09 = PM11-NC (normally closed pressure switch) with fitting for fixing to the module +A03 = PM11-SC with fitting for fixing to the module +A03 = PM11-SC with fitting for fixing to the module Example: MX2-3/8-V01+A32XF00-KK-LH MODULES CONNECTION X = Rapid clamp kit Z = Rapid clamp kit with wall fixing screw
	(-) (+)	Y = Rapid clamp kit with wall fixing brackets
F00	(5)+[*]	see MODULE (3)
-	(.)	
KK	(6)	TERMINAL CONNECTIONS + [**] = no terminal connection HH = n^2 1 rapid clamp kit with flanges (IN / OUT) JJ = n^2 1 rapid clamp kit with wall fixing screws + flanges (IN / OUT) KK = n^2 1 rapid clamp kit with wall fixing brackets + flanges (IN / OUT)
	[**]	WALL CONNECTION REGULATOR and FILTER-REGULATOR S = Bracket (only with clamps mod. X o HH) S2=Smaller bracket (only for MX2) Codes examples: MX3-1-RXVS; MX3-1-RXVHSH; MX2-1/2-RXVHS2H
-	(7)	FLOW DIRECTION
LH	(7)	FLOW DIRECTION = from left to right (standard) LH = from right to left
	(4) + (5)+[*]	REPEATABLE COMBINATION for a "n" number of times
	(4) + (5)+[*]	KEPEAIABLE CUMBINATION TOF A "N" NUMBER OF TIMES

Filters Series MC

Ports G1/4, G3/8 and G1/2 Modular Metal bowl and bayonet-type mounting



CODING EXAMPLE

MC	2	()2	-	F	0	0		
MC	SERIES								
2	SIZE 1 = G1/4 2 = G3/8	· G1/2							
02	PORTS 04 = 61/4 38 = 63/8 02 = 61/2								
F	FILTER								
0	FILTERING 0 = 25μm 1 = 5μm	ELEMENT (standard)						
0	0 = norma 3 = auton 4 = depre 5 = depre		itomatic (only foi n (only Gi n, protect		./2)				

FT02 = filter with semiautomatic manual drain FT03 = filter with automatic drain

Coalescing filters Series MC

Ports G1/4, G3/8 and G1/2 Metal bowl and bayonet-type mounting



CODING EXAMPLE

MC	2	02	-	F	В	0					
MC	SERIES	SERIES									
2	SIZE 1 = G1/4 2 = G3/8 - G1/2	!									
02	PORTS 04 = G1/4 38 = G3/8 02 = G1/2										
F	FILTER										
В	FILTERING ELEMENT B = 0,01µm										
0	DRAINING OF CONDENSATE 0 = manual - semi-automatic 3 = automatic (only for G3/8 and G1/2) 4 = depressurisation (only G1/4) 5 = depressurisation, protected 8 = no drain, port 1/8										

FA01 = coalescing filter without drain with threaded port FA02 = coalescing filter with semi-automatic manual drain

FA03 = coalescing filter with automatic drain

Activated carbon filters Series MC

Ports: G1/4, G3/8 and G1/2

Modular

Metal bowl and bayonet-type mounting





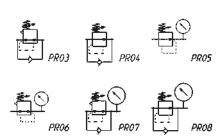
FC01 = Absorption function without bowl hole

CODING EXAMPLE

МС	2	02	-	F	CA
MC	SERIES				
2	SIZE 1 = G1/4 2 = G3/8 - G1/2				
02	PORTS 04 = G1/4 38 = G3/8 02 = G1/2				
F	FILTER				
CA	CA = Actived carbon				

Pressure regulators Series MC

Ports G1/4, G3/8 and G1/2 Modular





PR04 = Regulator without relieving and with by-pass PR05 = Regulator without relieving and with pressure gauge

PR06 = Regulator with relieving and pressure gauge
PR07 = Regulator with relieving, by-pass valve and pressure gauge

PRO8 = Regulator without relieving with by-pass valve and pressure gauge



CODING EXAMPLE

MC	2	02	-	R	T	0	2	-	VS	-	-	•

SERIES MC SIZE 1 = G1/4

2 = G3/8 - G1/2 PORTS 04 = G1/4 38 = G3/8

02 = G1/2REGULATOR R

WORKING PRESSURE Т 0 = 0.5 ÷ 10 bar (standard) 1 = 0.5 ÷ 4 bar 2 = 0.5 ÷ 2 bar (only G1/4) 7 = 0.5 ÷ 7 bar (only G1/4) T = calibrated*

B = locked*

2

VS

CONSTRUCTION 0 0 = self-relieving (standard) 1 = non-relieving

5 = precise relieving

PRESSURE GAUGE **

= without pressure gauge (standard) 1 = with pressure gauge 0-2.5, with working pressure 0.5 ÷ 2 bar

2 = with pressure gauge 0-6, with working pressure 0.5 ÷ 4 bar 3 = with pressure gauge 0-10, with working pressure 0.5 ÷ 7 bar 4 = with pressure gauge 0-12, with working pressure 0.5 ÷ 10 bar

= without by-pass valve (standard) VS = with by-pass valve (solo G1/4)

** NOTE: IF THE REGULATOR IS CALIBRATED OR LOCKED, AFTER THE PORTS ADD THE INLET PRESSURE "■" AND THE OUTLET PRESSURE "●"

INLET PRESSURE

REGULATION TYPE

= enter the SUPPLY pressure value

OUTLET PRESSURE

 = enter the OUTLET pressure value for the LOCKED regulator or the maximum value of the ADJUSTABLE pressure for the CALIBRATED regulator

Example of a calibrated regulator with Inlet Pressure = 6.3 bar and Outlet Pressure = 4.5 bar Complete part number: MC104-MT03-6.3-4.5

** the pressure gauges are supplied disassembly for size 1 pressure gauge mod. M043-P.. for size 2 pressure gauge mod.M053-P..

Lubricators Series MC

Ports G1/4, G3/8 and G1/2 Modular with metal bowl and bayonet-type mounting





LU0 = Lubricator

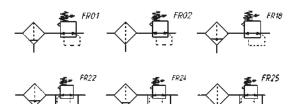
CODING EXAMPLE

MC	2	02	-	L	00

M	SERIES
2	SIZE 1 = G1/4 2 = G3/8 - G1/2
02	PORTS 04 = 61/4 38 = 63/8 02 = 61/2
L	LUBRICATOR
00	DESIGN TYPE 00 = atomized oil

Filter-regulators Series MC

Ports G1/4, G3/8 and G1/2 Modular Metal bowl and bayonet-type mounting



FR01 = filter-reg. with relieving and manual/semiautomatic drain

FR02 = filter-reg. with relieving and direct exhaust FR18 = filter-reg. with relieving and automatic drain

FR25 = filter-reg. with relieving, with pressure gauge, automatic-depressurisation drain and by-pass valve FR24 = filter-reg. with relieving and manual/semiautomatic drain and bypass valve FR25 = filter-reg. with relieving, direct exhaust and by-pass valve



CODING EXAMPLE

SERIES

MC

2

2

	MC	2	02	-	D	0	0	2	-	4	-	VS	
--	----	---	----	---	---	---	---	---	---	---	---	----	--

SIZE 1 = G1/4 2 = G3/8 - G1/2 PORTS 04 = G1/4 38 = G3/8 02 02 = G1/2

FILTER-REGULATOR D

FILTERING ELEMENT 0 0 = 25μm (standard) 1 = 5μm

DRAINING OF CONDENSATE 0

0 = manual semiautomatic, self-relieving

1 = manual semiautomatic, non relieving

3 = automatic, self-relieving (only for G3/8 and G1/2) 4 = depressurisation, self-relieving (only G1/4)

5 = depressurisation, protected, self-relieving 8 = no drain, port G1/8, self-relieving

PRESSURE GAUGE **

= without pressure gauge (standard) with pressure gauge 0-2.5, with working pressure 0.5 ÷ 2 bar
 = with pressure gauge 0-6, with working pressure 0.5 ÷ 4 bar

3 = with pressure gauge 0-10, with working pressure 0.5 \div 7 bar

4 = with pressure gauge 0-12, with working pressure 0.5 ÷ 10 bar

WORKING PRESSURE 4

= 0.5 ÷ 10 2 = 0.5 ÷ 2 (only G1/4)

 $4 = 0.5 \div 4$ 7 = 0.5 ÷ 7 (only G1/4)

REGULATION TYPE

= without by-pass valve (standard)

VS = with by-pass valve (only G1/4)

** the pressure gauges are supplied disassembly for size 1 pressure gauge mod. M043-P.

for size 2 pressure gauge mod. M053-P.



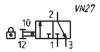
Lockable isolation 3/2-way valves Series MC

Electropneumatic, pneumatic and manual version Ports G1/4, G3/8 and G1/2 Modular

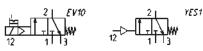
Actuating force at 6 bar :

- MC104-V01 = 29N MC238-V01 = 31N MC202-V01 = 31N









EV10 = solenoid valve, 3/2 NC, monostable, with bistable manual override YES1 = pneumatically operated valve, 3/2, monostable, mechanical spring

CODING EXAMPLE

MC	2	02	-	V	16
MC	SERIES				

SIZE 1 = G1/4 2 = G3/8 - G1/2

PORTS 02 04 = G1/438 = G3/8 02 = G1/2

3/2-WAY VALVE V

DESIGN TYPE 16 16 = electropneumatic 36 = pneumatic

01 = padlock valve (manual command)

C∢ CAMOZZI

Soft start valves Series MC

Ports G1/4, G3/8 and G1/2 Modular





AVP1 = Soft start valve

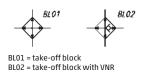
CODING EXAMPLE

MC	2	02	-	AV
MC	SERIES			
2	SIZE 1 = G1/4 2 = G3/8 - G1/2			
02	PORTS 04 = G1/4 38 = G3/8 02 = G1/2			
AV	AV = SOFT START VAL	VE		

Take-off blocks Series MC

Ports G1/4 and G1/2 Modular





CODING EXAMPLE

MC	2	-	В	_	VNR
MC	SERIES				
2	SIZE 1 = G1/4 2 = G1/2				
В	TAKE OFF BLO	CK			
VNR	VERSION = standar VNR = with no				

CAMOZZI AIR TREATMENT > SERIES MC

Accessories for Series MC

Terminal flanges (kit A)

The kit MC104-FL is supplied with: 1x left flange; 1x right flange; 4x screws M4x14; 2x O-Ring 2068. Each of the kits MC202-FL and MC238-FL is supplied with: 1x left flange; 1x right flange; 4x screws M5x14; 2x O-Ring 3100. Materials: painted aluminium flanges, zinc-plated steel screws and NBR O-ring.

MC104-FI MC238-F MC202-FLL



Mounting bracket for (kit B)

Mounting bracket for terminals 1/4, 3/8, 1/2,

The kit MC104-ST is supplied with:

- 2x terminal brackets - 4x screws M5x10

Materials: zinc-plated steel brackets and screws.



Mounting bracket Mod. C114-ST

For regulators and filter-regulators (G1/4 - G1/8)

The kit is supplied with: 1x zinc-plated steel bracket.

C114-S1

Mod. C114-ST/2



Mounting bracket Mod. C114-ST/1

For regulators and filter-regulators (G1/4 - G1/8)

The kit is supplied with 1 zinc-plated steel bracket.



C114-ST/1

Mod.

MC104-ST

Mounting bracket Mod. C114-ST/2

For regulators and filter-regulators (G1/4 - G1/8)

The kit is supplied with 1 zinc-plated steel bracket.



Mounting bracket Mod. C238-ST/1

For MC238 and MC202

The kit is supplied with: 1 bracket; 2 screws M5X65 Materials: zinc-plated steel bracket and screws.



Mod. C238-ST/1

Fixing bracket Mod. MX2-S

For regulators Mod. MC238 and MC202

The kit is supplied with 1 zinc-plated steel bracket



Tie-rods for assembling (kit C)

The kit MC1-TMF is supplied with: 2 male/female tie-rods; 1 0-ring 2068. The kit MC2-TMF is supplied with: 2 male/female tie-rods; 1 0-ring 3100. Materials: nickel-plated steel tie-rods and NBR O-ring.

Mod. MC1-TMF MC2-TMF



Tie-rods for assembling (kit D)

The kit MC1-TFF is supplied with 2 female tie-rods. The kit MC2-TFF is supplied with 2 female tie-rods. Materials: nickel-plated steel tie-rods.

MC1-TFF

Mod. MX2-S



Screws for assembling (kit E)

The kit MC1-VM is supplied with: 2 male screws; 1 0-ring 2068. The kit MC2-VM is supplied with: 2 male screws; 1 0-ring 3100 Materials: zinc-plated steel screws and NBR O-ring.

MC1-VM



Screws for assembling (kit F)

The kit is supplied with: 2 male screws; 2 female screws; 1 O-ring (OR 2068 for MC1-VMF; OR 3100 for MC2-VMF). Materials: zinc-plated steel male screws, nickel-plated steel female screws and NBR O-ring.

Mod. MC1-VMF MC2-VMF



Screws (kit G) to assemble 2 bodies type "M"

The kit MC1-VMD is supplied with: 4 screws M4X10; 4 spacers; 2 0-ring 2068. The kit MC2-VMD is supplied with: 4 screws M5X12; 4 spacers; 2 0-ring 3100. Materials: zinc-plated steel screws, brass spacers and NBR O-ring.

Mod. MC1-VMD MC2-VMD



O-ring for assembling

Mod. 458-33/1 80-26-11/4T





Assembled FRL Series MC

Ports G1/4, G3/8 and G1/2



CODING EXAMPLE

MC	2	02	-	С	-	5	-	FL
----	---	----	---	---	---	---	---	----

SERIES MC SIZE 1 = G1/4 2 2 = G3/8 - G1/2 PORT 02 04 = G1/4 38 = G3/8 ASSEMBLY GROUP
C = D + L
E = V01 + D + L
FRL = F + R + L
GN = D + L + V16 + AV
HNA = V01 + D + L + V16 + AV + PRESS NO
HNC = V01 + D + L + V16 + AV + PRESS NC
N = V01 + D + N = D + V16 + AV
QN = V01 + D + V16 + AV
U = F13 + FB3 (only for 3/8 - 1/2)
ZNA = V01 + D + V16 + AV + PRESS NO ASSEMBLY GROUP C ZNA = V01 + D + V16 + AV + PRESS NO ZNC = V01 + D + V16 + AV + PRESS NC FILTERING ELEMENT 5 = 5 μm (standard) 25 = 25 μm (upon request) 5

VERSION FL FL = with terminal flanges (without brackets)

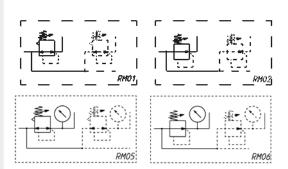
> D = Filter-regulator 0.5-10 bar, semi-automatic-manual drain with relieving, filtering element 5 μm or 25 μm L = Lubricator V01 = 3/2-way manually operated valve F = Filter 5 μ m or 25 μ m R = Regulator 0.5-10 bar with relieving

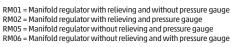
V16 = 3/2-way electropneumatically operated valve AV = Soft start valve PRESS NO = Pressure switch, Normally Open PRESS NC = Pressure switch, Normally Closed F13 = Filter 5 μm with automatic drain FB3 = Coalescing filter 0.01 μm with automatic drain

C CAMOZZI



Ports G1/4 Modular







MC	1	04	-	M	T	0	2	-	-	•

MC	SERIES
1	SIZE 1 = 61/4
04	PORT 04 = G1/4
М	MANIFOLD REGULATOR
T	OPERATING PRESSURE 0 = 0.5 ÷ 10 bar (standard) 1 = 0.5 ÷ 4 bar 2 = 0.5 ÷ 2 bar 7 = 0.5 ÷ 7 bar
0	CONSTRUCTION 0 = self-relieving (standard) 1 = non-relieving 5 = precise relieving
2	PRESSURE GAUGE = without pressure gauge (standard) 1 = with pressure gauge 0-2.5 with working pressure 0.5 ÷ 2 bar 2 = with pressure gauge 0-6 with working pressure 0.5 ÷ 4 bar 3 = with pressure gauge 0-10 with working pressure 0.5 ÷ 7 bar 4 = with pressure gauge 0-12 with working pressure 0.5 ÷ 10 bar T = calibrated* B = locked*
	** NOTE: IF THE REGULATOR IS CALIBRATED OR LOCKED, AFTER THE PORTS ADD THE INLET PRESSURE "■" AND THE OUTLET PRESSURE " ●"
	INLET PRESSURE ■ = enter the SUPPLY pressure value
	OUTLET PRESSURE ■ = enter the OUTLET pressure value for the LOCKED regulator or the maximum value of the ADJUSTABLE pressure for the CALIBRATED regulator
	Example of a calibrated regulator with Inlet Pressure = 6.3 bar and Outlet Pressure = 4.5 bar Complete part number: MC104-MT03-6.3-4.5
	** the pressure gauges are supplied disassembly for size 1 pressure gauge mod. M043-P for size 2 pressure gauge mod.M053-P

CAMOZZI Automation

Filters Series MD

Ports with interchangeable cartridges: threaded (1/8, 1/4, 3/8) or integrated with super-rapid fitting for tube with \emptyset 6, 8 and 10 mm. Modular assembly Bowl with technopolymer cover and bayonet-type mounting









FT01 = filter without drain with threaded port FT02 = filter with semiautomatic manual drain FT03 = filter with automatic drain











FT05 = filter with direct G1/8 exhaust and visual blockage indicator FT06 = filter with semi-automatic manual drain and visual blockage indicator FT07 = filter with automatic/depressuring drain and visual blockage indicator

MD	1	-	F	0	0	0	-	1/8
----	---	---	---	---	---	---	---	-----

MD	SERIES
1	DIMENSION 1 = 42 mm
F	FILTER
0	FILTERING ELEMENT 0 = 25 μm 1 = 5 μm
0	DRAINING OF CONDENSATE 0 = semiautomatic-manual drain 3 = automatic drain 5 = protected depressurisation 8 = direct G1/8 exhaust
0	VISUAL BLOCKAGE INDICATOR 0 = not present 1 = present
1/8	PORTS (IN - OUT)* = without cartridges 1/8 = 61/8 1/4 = 61/4 3/8 = 63/8 6 = tube Ø6 8 = tube Ø10
	* NOTE: if the inlet (IN) cartridge is different from the outlet (OUT) cartridge, both dimensions shall be indicated. Example: MD1-F000-1/4-10





Coalescing filters Series MD

Ports with interchangeable cartridges: threaded (1/8,1/4,3/8) or integrated with super-rapid fitting for tube with \emptyset 6, 8 and 10 mm. Modular assembly

Bowl with technopolymer cover and bayonet-type mounting









FA01 = coalescing filter with direct G1/8 exhaust FA02 = coalescing filter with semi-automatic manual drain FA03 = coalescing filter with automatic/depressuring drain









FA04 = coalescing filter with direct G1/8 exhaust and visual blockage indicator FA05 = coalescing filter with semi-automatic manual drain and visual blockage indicator FA06 = coalescing filter with automatic/depressuring drain and visual blockage indicator

MD	1	-	FC	0	0	0	-	1/8
----	---	---	----	---	---	---	---	-----

MD	SERIES
1	DIMENSION 1 = 42 mm
FC	COALESCING FILTER
0	FILTERING ELEMENT 0 = 0,01 μm 1 = 1 μm
0	DRAINING OF CONDENSATE 0 = semiautomatic-manual drain 3 = automatic drain 5 = protected depressurisation 8 = direct G1/8 exhaust
0	VISUAL BLOCKAGE INDICATOR 0 = not present 1 = present
1/8	PORTS (IN - OUT)* = without cartridges 1/8 = G1/8 1/4 = G1/4 3/8 = G3/8 6 = tube Ø6 8 = tube Ø8 10 = tube Ø10 * NOTE: if the inlet (IN) cartridge is different from the outlet (OUT) cartridge, both dimensions shall be indicated. Example: MD1-FC000-1/4-10

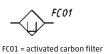


Actived carbon filters Series MD

Ports with interchangeable cartridges: threaded (1/8, 1/4, 3/8) or integrated with super-rapid fitting for tube with Ø 6, 8 and 10 mm. Modular assembly Bowl with technopolymer cover and bayonet-type mounting









FCO2 = activated carbon filter with visual blockage indicator

CODING EXAMPLE

	MD	1	_	FCA	0	-	1/8
--	----	---	---	-----	---	---	-----

MD

SERIES

DIMENSION
1 = 42 mm

FCA

ACTIVATED CARBON FILTER

O VISUAL BLOCKAGE INDICATOR
0 = not present
1 = present

1/8 PORTS (IN - OUT)*
= without cartridges
1/8 = 61/4
3/8 = 63/8
6 = tube Ø6
8 = tube Ø8
10 = tube Ø10

*NOTE: if the inlet (IN) cartridge is different from the outlet (OUT) cartridge, both dimensions shall be indicated.
Example: MD1-FCA1-1/4-10

Pressure regulators Series MD

Ports with interchangeable cartridges: threaded (1/8, 1/4, 3/8) or integrated with super-rapid fitting for tube with Ø 6, 8 and 10 mm Versions: single, combined with other functions, Manifold











PR01 = regulator without relieving PR02 = regulator with relieving

PRO3 = regulator with relieving and by-pass valve

PR04 = regulator without relieving and with by-pass valve



RM01 = Manifold regulator with relieving

RM02 = Manifold regulator without relieving RM03 = Manifold regulator with relieving and by-pass valve

 $RM04 = Manifold\ regulator\ without\ relieving,\ with\ by-pass\ valve$

CODING EXAMPLE

MD	1	_	R	Т	0	0	-	1/4	-	-	•
											1

SERIES
SIZE 1 = 42 mm
TYPE OF REGULATOR R = pressure regulator - M = Manifold pressure regulator
OPERATING PRESSURE (1 bar = 14,5 psi) 0 = 0.5 ÷ 10 bar - 2 = 0.5 ÷ 2 bar - 4 = 0.5 ÷ 4 bar - 7 = 0.5 ÷ 7 bar - T = calibrated ** - B = locked **
DESIGN TYPE 0 = with relieving - 1 = without relieving - 2 = with relieving and by-pass valve (only for R regulator) - 3 = without relieving, with by-pass valve (only for R regulator)
PRESSURE GAUGE 0 = without pressure gauge (with 1/8 port)
PORTS (IN - OUT)* = without cartridges 1/8 = G1/8 1/4 = G1/4 3/8 = G3/8 6 = tube Ø6 8 = tube Ø8 10 = tube Ø10 **NOTE: if the inlet (IN) cartridge is different from the outlet (OUT) cartridge, both dimensions shall be indicated. Example: MD1-R020-1/4-10

NOTE: IF THE REGULATOR IS CALIBRATED OR LOCKED, AFTER THE PORTS ADD THE INLET PRESSURE "=" AND THE OUTLET PRESSURE " •

INLET PRESSURE

= enter the SUPPLY pressure value

OUTLET PRESSURE
• = enter the OUTLET pressure value for the LOCKED regulator or the maximum value of the ADJUSTABLE pressure for the CALIBRATED regulator

Example of a calibrated regulator with Inlet Pressure = 6.3 bar and Outlet Pressure = 4.5 bar Complete part number: MD1-RT00-1/4-6.3-4.5



Ports with interchangeable cartridges: threaded (1/8, 1/4, 3/8) or integrated with super-rapid fitting for tube with \emptyset 6, 8 and 10 mm. Modular assembly Bowl with technopolymer cover and bayonet-type mounting





		I.		ı			
MD	1	-	L	0	0	-	1/8

MD	SERIES
1	DIMENSION 1 = 42 mm
L	LUBRICATOR
00	DESIGN TYPE 00 = oil mist with refill valve 10 = oil mist without refill valve
1/8	PORTS (IN - OUT)* = without ports 1/8 = G1/8 1/4 = G1/4 3/8 = G3/8 6 = tube Ø6 8 = tube Ø8 10 = tube Ø10
	$^{\circ}$ NOTE: if the inlet (IN) cartridge is different from the outlet (OUT) cartridge, both dimensions shall be indicated. Example: MD1-L00-1/4-1/8



Pressure filter-regulators Series MD

Ports with interchangeable cartridges: threaded (1/8, 1/4, 3/8) or integrated with super-rapid fitting for tube with Ø 6, 8 and 10 mm Modular assembly

Bowl with technopolymer cover and bayonet-type mounting



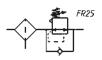














FR01 = filter-regulator with relieving andsemi-automatic manual drain

FR02 = filter-regulator with relieving and direct G1/8 exhaust

FR11 = filter-regulator without relieving, with semi-automatic manual drain FR13 = filter-regulator without relieving, with by-pass valve and semi-automatic manual drain

FR18 = filter-regulator with relieving and automatic/depressuring drain FR24 = filter-regulator with relieving, by-pass valve and semi-automatic manual drain

FR25 = filter-regulator with relieving, by-pass valve and direct G1/8 exhaust

 ${\sf FR26 = filter-regulator\ with\ relieving,\ by-pass\ valve\ and\ automatic/depressuring\ drain}$



CODING EXAMPLE

MD	1	_	FR	0	0	0	0	_	1/8
1-10	-		1 11	0	•	U	U		1/0

MD	SERIES SERIES
1	DIMENSION 1 = 42 mm
FR	FILTER-REGULATOR
0	FILTERING ELEMENT 0 = 25 µm with relieving 1 = 5 µm with relieving 2 = 25 µm without relieving * 3 = 5 µm without relieving * 4 = 25 µm with relieving and by-pass valve 5 = 5 µm with relieving and by-pass valve 6 = 25 µm without relieving, with by-pass valve * 7 = 5 µm without relieving, with by-pass valve * * this option is available with semiautomatic-manual drain only
0	DRAINING OF CONDENSATE 0 = semiautomatic-manual drain 3 = automatic drain 5 = protected depressurisation 8 = direct G1/8 exhaust
0	OPERATING PRESSURE (1 bar = 14,5 psi) 0 = 0.5 ÷ 10 bar 2 = 0.5 ÷ 2 bar 4 = 0.5 ÷ 4 bar 7 = 0.5 ÷ 7 bar
0	PRESSURE GAUGE 0 = without pressure gauge (with 1/8 port)
1/8	PORTS (IN - OUT)* = without cartridges 1/8 = 61/8 1/4 = 61/4 3/8 = 63/8

* NOTE: if the inlet (IN) cartridge is different from the outlet (OUT) cartridge, both dimensions shall be indicated.

6 = tube Ø6 8 = tube Ø8 10 = tube Ø10

AIR TREATMEN



Ports with interchangeable cartridges: threaded (1/8, 1/4, 3/8) or integrated with super-rapid fitting for tube with \emptyset 6, 8 and 10 mm Modular

Manual, electro-pneumatic, servo-pilot and pneumatic control



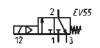


VN27 = Lockable bistable manual valve 3/2









EV10 = solenoid valve, 3/2 NC, monostable, with bistable manual override EV54 = solenoid valve, 3/2 NC, monostable with manual override EV55 = solenoid valve, 3/2 NC, monostable with manual override





YES1 = pneumatically operated valve, 3/2, monostable, mechanical spring

MD	1	_	V	01	-	1/8
----	---	---	---	----	---	-----

MD	SERIES	
1	DIMENSION 1 = 42 mm	
V	3/2-WAY VALVE	
01	DESIGN TYPE 01 = lockable manual control 16 = electro-pneumatic control, Push & Turn manual override 16IL = electro-pneumatic control, bistable manual override, lever type	16IM = electro-pneumatic control, monostable manual override 16IT = electro-pneumatic control without manual override 36 = pneumatic control
1/8	PORTS (IN - OUT) * = without cartridges 1/8 = G1/8 1/4 = G1/4 3/8 = G3/8 6 = tube Ø6 8 = tube Ø8 10 = tube Ø10	

^{*} NOTE: if the inlet (IN) cartridge is different from the outlet (OUT) cartridge, both dimensions shall be indicated.



Soft start valves Series MD

Ports with interchangeable cartridges: threaded (1/8, 1/4, 3/8) or integrated with super-rapid fitting for tube with Ø 6, 8 and 10 mm Modular assembly





AVP1 = Soft start valve

CODING EXAMPLE

MD	1	-	AV	-	1/8
MD	SERIES				
1	DIMENSION 1 = 42 mm				
AV	SOFT START VA	LVE			
1/8		artridges nlet (IN) cartridg	ge is different fro icated. Example		

Take-off blocks Series MD

Module with interchangeable cartridges: threaded (1/8, 1/4, 3/8) or integrated with super-rapid fitting for tube with Ø 6, 8 and 10 mm (5 outlets) Intermediate junction cartridge (3 outlets) Intermediate junction cartridge with non-return valve





CODING EXAMPLE

MD	1	-	В	00	-	1/8				
MD	SERIES									
1	DIMENSION 1 = 42 mm									
В	TAKE-OFF BL	оск								
00	00 = 5 outle 01 = 3 outle	DESIGN TYPE 00 = 5 outlets 01 = 3 outlets (only without cartridges) 02 = Increased inlet								
1/8	1/8 = G1/8 1/4 = G1/4 3/8 = G3/8 6 = tube Ø6 8 = tube Ø8 10 = tube Ø	t cartridges	eksidaa is diffa	root from the	a publish (OUT)					
			rtridge is diffe e indicated. Ex			cartridge,				



9

CAMOZZI

AIR TREATMENT

9

Accessories for Series MD

Take-Off block (3 outlets) Mod. MD1-B01

The kit is supplied with: 1x intermediate joining cartridge with derivation 4x zinc-plated white special screws Ø4,5 TC/RC



Mod. MD1-B01

Intermediate joining cartridge with non return valve Mod. MD1-VNR

The kit is supplied with:

1x intermediate joining cartridge with non return valve 4x zinc-plated white special screws Ø4.5 TC/RC



Mod. MD1-VNR

Threaded cartridges Mod. MD1-A-...

The kit is supplied with: 2x nickel-plated threaded cartridges 4x special white zinc-plated screws Ø4,5 TC/RC



hoM MD1-A-1/8 MD1-A-1/4 MD1-A-3/8

Integrated cartridges with super-rapid fitting Mod. MD1-A-...

2x integrated nickel-plated cartridges with superrapid fitting 4x special white zinc-plated screws Ø4,5 TC/RC



Mod. MD1-A-6 MD1-A-8 MD1-A-10

Intermediate joining cartridge Mod. MD1-C

The kit is supplied with: 1x intermediate joining cartridge 4x special white zinc-plated screws Ø4,5 TC/RC



Mod MD1-C

Screws for wall mounting Mod. MD1-D

The kit is supplied with: 2x white zinc-plated screws M4x50



Mod MD1-D

Rear bracket Mod. MD1-ST/1

The kit is supplied with: 1x zinc-plated bracket 2x white zinc-plated screws M4x50



Mod. MD1-ST/1

Mounting bracket Mod. C114-ST

For regulators and filter-regulators (G1/4 - G1/8) The kit is supplied with: 1x zinc-plated steel bracket



Mod. C114-ST

Mounting bracket Mod. C114-ST/1

For regulators and filter-regulators (G1/4 - G1/8) The kit is supplied with: 1x zinc-plated steel bracket



For more complete and up to date information about the Camozzi Automation product range, please refer to our online catalogue at http://shop.camozzi.com

This document contains a brief description of the products offered by Camozzi Automation at time of publication

Mounting bracket Mod. C114-ST/2

For regulators and filter-regulators (G1/4 - G1/8) The kit is supplied with:

1x zinc-plated steel bracket



Mod. C114-ST/2



Mod.



Assembled FRL Series MD

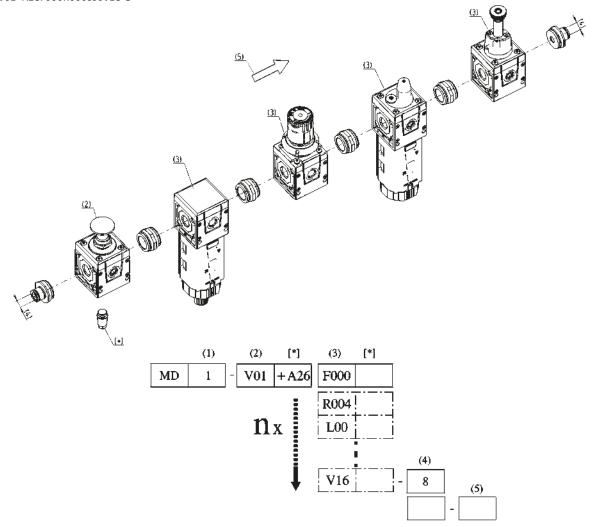
Ports with interchangeable cartridges: threaded (1/8, 1/4, 3/8) or integrated with super-rapid fitting for tube with \emptyset 6, 8 and 10 mm Modular assembly



CONFIGURATION OF SERIES MD ASSEMBLED GROUPS

TO CONFIGURE THE SERIES MD ASSEMBLED GROUPS, USE THE HERE BELOW EXAMPLE AND THE RELATED LEGEND ON THE FOLLOWING PAGE.

Configuration of the assembled group in the drawing below: MD1-V01+A26F000R000L00V16-8



C∢ CAMOZZI



MD	1	-	V01	F000	R000	L00	V1	6	-	8	_	LH
MD			SERIES									
1	(1)		DIMENSION 1 = 42 mm									
_												
V01	(2)		R = Pres. L = Lubri FR = Filter	escing filter ated carbons filter sure regulator cator r-Regulator able isolation valve start valve								
	[*]		The following	ng ACCESSORIES can be	e added after every sir	igle module:						
			+A01 = M04: +A02 = M04: +A03 = M04: +A04 = M04: +A06 = SWCI +A07 = SWCI +A08 = PG01 LOCKABLE ISI +A25 = 2901 +A26 = 2921 +A27 = 2931 +A28 = 2938 +A01 = M04: +A03 = M04: +A04 = M04: +A05 = SWCI +A08 = PG01 SOFT STARTV +A15 = PM1: +A16 = PM1: +A17 = PM6: +A18 = PM6: +A07 = SWCI +A08 = SWCI +A07 = SWCI +A08 = PG01 INTERMEDIA: +A17 = PM6: +A07 = SWCI +A08 = PG01	3-P04 (pressure gaug 3-P06 (pressure gaug 3-P06 (pressure gaug 3-P12 (pressure gaug 3-P12 (pressure gaug 3-P12 (pressure gaug 3-P12 (pressure y-P10-P4-2 (pressure y-P10-P4-M (pressure y-P10-P4-M (pressure y-P10-P4-M (pressure gaug 3-P16 (pressure switch 1-NC (pressure switch 1-NC (pressure switch 1-SC 4-S2520 1/8-1/4 (prep-16-2) (front mon V-P10-P4-M (front mon 16-16-M) (pressure switch 16-M) (pressure switch 16-M	e) e) e) e) switch) switch) switch) auge) /V16 / V36 mmended choice e) e) e) switch) switch) switch) switch) switch) switch) switch) switch) auge) E-OFF BLOCK mounted on top) mounted or top) mounted or top) mounted pressure switch unted pressure switch inted pressure switch the pressure switch WITH DERIVATION (MD mounted on top)	fitting mounted o	on top)	-	+A35 = U +A36 = U +A37 = U +A38 = U +A39 = U +A40 = G +A41 = G +A42 = G +A43 = G	E ISOLATION 7H (coils 12 77 (coils 24 7K (coils 48 7K (coils 13 7H (coils 23 7H (coils 24 77 (coils 24 77 (coils 23 17 (coils 23)	V DC) V DC) OV AC) OV AC) V DC) V DC) V DC) V DC) OV AC)	
	(3)		+A18 = PM68	31-3 (pressure switch	mounted on top)							
F000												
R000	(3)		see MODULE									
L00	(3)		see MODULE	(2) + [*]								
V16	(3)		see MODULE	(2) + [*]								
-												
8	(4)		PORTS (IN - 0 = without 1/8 = G1/8 1/4 = G1/4 3/8 = G3/8 6 = tube Ø6 8 = tube Ø8 10 = tube Ø1	t cartridges								
-												
LH	(5)		FLOW DIRECT = from let LH = from rig	ft to right (standard)								

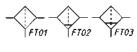
nx = the combination "(3) + (*)" can be repeated an odd ("n") number of times

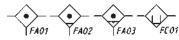
^{**} NOTE: if the inlet (IN) cartridge is different from the outlet (OUT) cartridge, both dimensions shall be indicated. Example: MD1-V01F000R000-3/8-8



Filters, coalescing filters and actived carbon filters Series N

Ports: G1/8, G1/4





FT01 = filter without drain with threaded port

FT02 = filter with semiautomatic manual drain

FT03 = filter with automatic/depression drain

FA01 = coalescing filter without drain with threaded port FA02 = coalescing filter with semi-automatic manual drain

FA03 = coalescing filter with automatic/depression drain

FC01 = absorption function without bowl hole



CODING EXAMPLE

N	2	04	-	F	0	0	-	
---	---	----	---	---	---	---	---	--

SERIES N

1 = small bowl (11 cm³) 2 = normal bowl (28 cm³)

PORTS 08 = G1/8 04 = G1/4

FILTER

0

FILTERING ELEMENT

0 = 25μm (standard) 1 = 5μm

 $B=0.01\mu m$ CA = actived carbon (without drain, only closed bowl size 2)

DRAINING OF CONDENSATE 0

0 = semi-automatic manual drain

4 = depressurisation (normal bowl only)

5 = protected depressurisation (normal bowl only) 8 = no drain, direct G1/8 exhaust

9 = closed bowl (version OX1)

= transparent PA12 (standard)
TM = nickel-plated brass (only in the small size with semi-automatic manual drain or without drain, port 1/8)



Pressure regulators Series N

Ports G1/8, G1/4





PR01 = regulator without relieving

CODING EXAMPLE

N	12	04	-	R	Т	0	-	•	-	•
		_				_				1

N SERIES

SIZE 12 12

PORTS 04 08 = G1/8 04 = G1/4

REGULATOR R

T

OPERATING PRESSURE 0 = 0.5 ÷ 10 bar (standard) 1 = 0.5 ÷ 4 bar 2 = 0.5 ÷ 2 bar 7 = 0.5 ÷ 7 bar

T = calibrated *
B = locked *

DESIGN TYPE 0 = self-relieving 0

* NOTE: IF THE REGULATOR IS CALIBRATED OR LOCKED, AFTER THE DESIGN TYPE ADD THE INLET PRESSURE "■" AND THE OUTLET PRESSURE "●"

INLET PRESSURE

■ = enter the SUPPLY pressure value

OUTLET PRESSURE

= enter the OUTLET pressure value for the LOCKED regulator or the maximum value of the ADJUSTABLE pressure for the CALIBRATED regulator

Example of a calibrated regulator with Inlet Pressure = 6.3 bar and Outlet Pressure = 4.5 bar Complete part number: N1204-RTO-6.3-4.5



Lubricators Series N

Ports G1/8, G1/4

AIR TREATMENT > SERIES N



CODING EXAMPLE

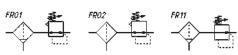
N		2	04	-	L	00	-			
N	SEF	RIES								
2	SIZE 1 = small bowl (26 cm³) 2 = normal bowl (37 cm³)									
04	PORTS 08 = G1/8 04= G1/4									
L	LUE	BRICATOR								
00		SIGN TYPE = atomize	d oil							
			AL ent PA12 (sta lated brass (small size)					

Filter-regulators Series N

Ports G1/8, G1/4

LU0 = Lubricator





FR01 = filter-regulator with relieving and manual drain

FR02 = FR with relieving and without drain FR11 = FR with manual drain and wiithout relieving

CODING EXAMPLE

		N	2	04	-	D	0	0	-	4	-	
--	--	---	---	----	---	---	---	---	---	---	---	--

SERIES N $1 = \text{small bowl } (11 \text{ cm}^3)$ 2 = normal bowl (28 cm³)**PORTS** 04 08 = G1/8 04= G1/4 FILTER-REGULATOR FILTERING ELEMENT 0 = 25μm (standard) (not avaible for OX1 version) 0 DRAINING OF CONDENSATE AND DESIGN TYPE 0 0 = semi-automatic manual drain with self-relieving 1 = semi-automatic manual drain without relieving 1 = serial automater mainter m 9 = closed bowl (only for OX1 version) OPERATING PRESSURE = 0.5 ÷ 10 bar (standard) 2 = 0.5 ÷ 2 bar 4 = 0.5 ÷ 4 bar 7 = 0.5 ÷ 7 bar **BOWL MATERIAL** = transparent PA12 (standard) TM = nickel-plated brass (only in the small size with semi-automatic manual drain or without drain)

OX1 = for oxygen (non-volatile residue less than 550 mg/m²)

9

C∢ CAMOZZI

Accessories for Series N

Mounting bracket Mod. C114-ST

For regulators and filter-regulators (G1/4 - G1/8) The kit is supplied with:

1x zinc-plated steel bracket



Mod. **C114-ST**

Mounting bracket Mod. C114-ST/1

For regulators and filter-regulators (G1/4 - G1/8)
The kit is supplied with:
1x zinc-plated steel bracket



Mod. C114-ST/1

Mounting bracket Mod. C114-ST/2

For regulators and filter-regulators (G1/4 - G1/8) The kit is supplied with:

1x zinc-plated steel bracket



Mod. C114-ST/2

Mounting bracket Mod. N204-ST

For filters and lubricators The kit is supplied with: 1 bracket 2 screws M5X6 Materials: zinc-plated steel bracket and screws



Mod. N204-ST



Micro pressure regulators Series CLR

Ports G1/4, G1/8 With banjo stem with or without relieving Available with or without banjo







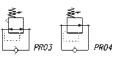




CLR 1/4-6



PRO3 = Regulator with relieving and by-pass valve PRO4 = Regulator without relieving and with by-pass valve



PR03 = Regulator with relieving and by-pass valve PR04 = Regulator without relieving and with by-pass valve



1/8D = double metal banjo with double thread G1/8 (only CLR 1/8)

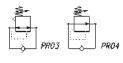




Mod. CLR 1/8-1/8D



PR03 = Regulator with relieving and by-pass valve PR04 = Regulator without relieving and with by-pass valve



PRO3 = Regulator with relieving and by-pass valve PRO4 = Regulator without relieving and with by-pass valve

CODING EXAMPLE

CL	R 1/8 - 01 - 4
CL	SERIES
R	REGULATOR
1/8	PORTS 1/8 = G1/8 1/4 = G1/4
01	DESIGN TYPE = with relieving 01 = without relieving
4	TUBE = without banjo 4 = single technopolymer banjo with tube diameter Ø4 mm (only CLR 1/8) 6 = single technopolymer banjo with tube diameter Ø6 mm 8 = single technopolymer banjo with tube diameter Ø8 mm 1/8L = single metal banjo with thread G1/8 (only CLR 1/8)

AIR TREATMENT

Pressure microregulators Series TC

For applications with oxygen, without relieving Ports: cartridge construction, G1/8 and 1/8 NPTF



Mod.
TC1-R11-C-V-OX1
TC1-R11-C-V-OX2
TC1-R21-C-V-OX1
TC1-R21-C-V-OX2
TC1-R31-C-V-OX1
TC1-R31-C-V-OX2
TC1-R41-C-V-OX1

TC1-R41-C-V-OX2



PR01 = regulator without relieving



Mod.
TC1-R11-*-V-OX1
TC1-R11-*-V-OX2
TC1-R21-*-V-0X1
TC1-R21-*-V-OX2
TC1-R31-*-V-OX1
TC1-R31-*-V-OX2
TC1-R41-*-V-0X1
TC1-R41-*-V-OX2



PR01 = regulator without relieving

TC	1	_	R	3	1	_	С	-	V	-	OX2	
----	---	---	---	---	---	---	---	---	---	---	-----	--

TC	SERIES
1	SIZE
R	REGULATOR
3	WORKING PRESSURE 1 = 0.03 ÷ 0.5 bar 2 = 0.1 ÷ 2 bar 3 = 0.15 ÷ 3 bar 4 = 0.2 ÷ 4 bar
1	TYPE OF CONSTRUCTION 1 = without relieving
С	PORTS C = Cartridge 1/8 = G1/8 1/8TF = 1/8NPTF
V	SEALS MATERIAL V = FKM
OX2	VERSIONS OX1 = for oxygen (non-volatile residue lower than 550 mg/m²) OX2 = for oxygen (non-volatile residue lower than 33 mg/m²)

Pressure microregulators Series M

Ports G1/8, G1/4

Mod.

M008-R00

M004-R00

M008-R01-E-0X1

M004-R01-E-0X1





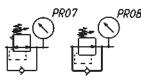












PR01 = reg. without relieving

PRO2 = reg. with relieving PRO3 = reg. with relieving and by-pass valve

PRO4 = reg. without relieving with by-pass valve PRO5 = reg. without relieving with pressure gauge

PRO6 = reg. with relieving and pressure gauge
PR07 = reg. with relieving, by-pass valve and pressure gauge
PR08 = reg. without relieving with by-pass valve and pressure gauge

CODING EXAMPLE

R 0 2 VS M 0 04

SERIES M

0

PORTS 04 08 = G1/8 04 = G1/4

REGULATOR R

OPERATING PRESSURE Т

 $0 = 0.5 \div 10 \text{ bar (standard)}$ $1 = 0.5 \div 4 \text{ bar}$

2 = 0.5 ÷ 2 bar 7 = 0.5 ÷ 7 bar

T = calibrated * B = locked *

0

0 = self relieving 1 = non relieving

5 = relieving with precise setting

PRESSURE GAUGE ** 2

= without pressure gauge (standard) 1 = with pressure gauge 0-2.5 with working pressure 0.5 ÷ 2 bar

2 = with pressure gauge 0-6 with working pressure 0.5 ÷ 4 bar

3 = with pressure gauge 0-10 with working pressure 0.5 ÷ 7 bar 4 = with pressure gauge 0-12 with working pressure 0.5 ÷ 10 bar

REGULATION TYPE VS = without high relief flow (standard)

VS = high relief flow

* NOTE: IF THE REGULATOR IS CALIBRATED OR LOCKED, AFTER THE REGULATION TYPE ADD THE INLET PRESSURE "=" AND THE OUTLET PRESSURE " • "

INLET PRESSURE

■ = enter the SUPPLY pressure value

= enter the OUTLET pressure value for the LOCKED regulator or the maximum value of the ADJUSTABLE pressure for the CALIBRATED regulator

Example of a calibrated regulator with Inlet Pressure = 6.3 bar and Outlet Pressure = 4.5 bar

308

** the pressure gauges are supplied disassembly mod. M043-P..

Pressure microregulators Series T

Ports G1/8 and G1/4



Mod. T108-R00 T104-R00





PRO3 = regulator with relieving and by-pass valve PRO4 = regulator without relieving and with by-pass valve

CODING EXAMPLE

Т	1	08	-	R	0	0	2
T	SERIES						
1	SIZE						
08	PORTS 08 = G1/8		04 = G1/4				
R	REGULATOR						
0	OPERATING PRESSURE 0 = 0,5 ÷ 10 1 = 0 ÷ 4		2 = 0 ÷ 2 7 = 0 ÷ 7 (sta	ndard)			
0	DESIGN TYPE 0 = self-relieving		1 = non relie	ving			
2		ge (standard) e 0-2,5, with working pressure 0÷2 ba e 0-6, with working pressure 0÷4 bar			rorking pressure 0,5÷7 bar rorking pressure 0,5÷10 b		

Accessories for Series M and T

Mounting bracket Mod. C114-ST

The kit is supplied with: 1x zinc-plated steel bracket



Mounting bracket Mod. C114-ST/1

The kit is supplied with: 1x zinc-plated steel bracket



Mod. C114-ST/1

Mounting bracket Mod. C114-ST/2

The kit is supplied with: 1x zinc-plated steel bracket



Mod. C114-ST/2

Mod. C114-ST



Precision regulators with manual override Series PR

Size 1 ports: G1/4

Size 2 ports: G1/4, G3/8





Mod.

PR104-M



^{*} to complete the code, add the OPERATING PRESSURE (see the CODING EXAMPLE)



PR02 = Regulator with relieving



PR02 = Regulator with relieving

CODING EXAMPLE

PR	1	04	-	M	07
PR	SERIES				
1	SIZE 1 = size 1 2 = size 2				
04	PORTS 04 = G1/4 38 = G3/8 (size 2 only)				
M	TYPE OF ADJUSTMENT M = manual				
07	OPERATING PRESSURE (1 bar = 14,5 02 = 0.05 ÷ 2 bar 04 = 0.05 ÷ 4 bar 07 = 0.05 ÷ 7 bar 00 = 0.05 ÷ 10 bar	psi)			

AIR TREATMENT

9

 $[\]ensuremath{^{*}}$ to complete the code, add the OPERATING PRESSURE (see the CODING EXAMPLE)

Pressure booster Series BPA



Size: 40



- » Easy and flexible installation
- » Focused pressure increase
- » Optimisation of the pneumatic circuit
- » Energy efficient

This pressure booster, with ratio of 1:2, increases outlet pressure by up to 20 bar. It operates automatically when needed to generate a constant pressure increase while its mechanical design guarantees quick and easy installation, minimises heat generation and improves machine safety.

Two versions are available, with or without an integrated regulator that allows to adjust the desired outlet pressure and enables the efficient management of energy consumption. It offers a compact, functional design with rapid filling times that makes

the Series BPA ideal for applications where high pressure is only needed at specific points in the pneumatic circuit such as woodworking, marble and glass processing or with testing and assembly machines.

CODING EXAMPLE

BPA	-	040	-	R1

BPA	SERIES
040	SIZE 40
R1	REGULATOR = without regulator R1 = with regulator (P.IN 2-8bar - P.OUT 0-10bar) R2 = with regulator (P.IN 2-10bar - P.OUT 0-16bar)



P.IN MAX = 16bar P.OUT MAX = 10bar

PR02 = Regulator with relieving



Mod.



High pressure regulator

P.IN MAX = 20bar P.OUT MAX = 16bar

PR02 = Multiplier with relieving



MD1-R900



BPA fixing kit with MD Series

The kit includes: 2x bushing with OR 4x special Ø4.5x34 white zinc-plated screws 1x plug with seal



Silencers Series 2901





Silencers Series 2931



Silencers Series 2928

Mod. BPA-1/4-C

Operating temperature: - 40 / + 80 °C





Pressure switches, Transducers, Pressure indicators

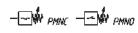
Series PM adjustable-diaphragm pressure switches

Supplied with a rubber cap providing protection class IP54.



Mod. PM11-NC PM11-NA PM11-NC-OX1

PM11-NCEX PM11-NA-OX1 PM11-NAEX



PMNC = normally closed PMNO = normally open

Series PM681-... - pressure switches with setting visual scale

In compliance with EN60730 standard Protection class IP40 Electric connection: PVC cable 2 x 0.22 mm Electric contact: Reed SPST NO Body in anodized aluminium and threaded fitting in brass

Hysteresis: 0.8 bar max



PM681-1 PM681-3



Pressure switch with exchange contacts Mod. PM11-SC

Protection class IP65 (with connector Mod. 124-830)



Electro-pneumatic transducer Series TRP

Series TRP electro-pneumatic transducer is particularly suitable to convert a pneumatic signal into an electrical signal. The contacts are NC (normally closed) or NO (normally open), thus making it possible to generate or eliminate current when the pneumatic signal is present.

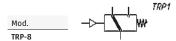
Minimum operating pressure 2,5 bar.



Mod. PM11-SC PM11-SCEX PM11-SCUL



(*) SC = exchange contacts



Pressure indicators Series 2950

The pressure indicator Mod. 2950-M5 is passive element (no spring, red colour). It is useful for detecting pressure manually without having to remove the connections



Mod. 2950 M5



SEG1

3-pole connector Mod. 124-830 for pressure switch Mod. PM11-SC



Mod. 124-830

124-830EX



Compact electronic pressure switches / vacuum switches Series SWMN and SWMS compact

Ports: G1/8, M5 thread or Ø 4, 6 mm plug-in tube

Measuring range: $0 \div -1$ bar, $0 \div 1$ bar with analog output,

0 ÷ -1 bar, 0 ÷ 6 bar with digital PNP output



CODING EXAMPLE

CIA/MNI

2001411	-	AP	-	I	-	
SWMN	SERIES SWMN SWMS					
AP	OUTPUT SIGNAL (SWMN) AV = analog output signal - vacu AP = analog output signal - pres PN = PNP output - vacuum PP = PNP output - pressure OUTPUT SIGNAL (SWMS) NO = normally open NC = normally closed					
T	TYPE OF CONNECTION T = Ø 6 tube U = Ø 4 tube (only for SWMN) G = G1/8 thread M = M5 thread					
2	ELECTRIC CONNECTION 2 = cable of 2 meters M = M8 3 pin connector					

Electronic vacuum/pressure switches **Series SWDN**

With digital display High precision, easy to use



CODING EXAMPLE

	SWDN	-	V01	-	P3	-	2
--	------	---	-----	---	----	---	---

SWDN	SERIES
V01	SET PRESSURE RANGE V01 = from -1 bar to 1 bar P10 = from 0 bar to 10 bar
P3	TYPE OF ELECTRIC CONNECTION P3 = 2 PNP outputs + 1 analog output 1 - 5 V DC (this version is available with 5-pole cable only) P4 = 2 PNP outputs
2	ELECTRIC CONNECTION 2 = cable of 2 meters M = M8 4 pin connector

Circular M8 4-pole connectors, Female

Protection class: IP65 Materials: PU non shielded cable

Mod. CS-DF04EG-E200 CS-DF04EG-E500 CS-DR04EG-E200 CS-DR04EG-E500



CAMOZZI



With digital display High precision, easy to use



CODING EXAMPLE

SWCN	-	V01	-	Р3	-	2
------	---	-----	---	----	---	---

SWCN	SERIES
V01	SET PRESSURE RANGE V01 = from -1 bar to 1 bar P10 = from 0 bar to 10 bar
Р3	TYPE OF ELECTRIC CONNECTION P3 = 2 PNP outputs + 1 analog output 1 - 5 V DC (this version is available with 5-pole cable only) P4 = 2 PNP outputs P6 = 2 PNP outputs + 1 analog output 4-20 mA (this version is available with 5-pole cable only)
2	ELECTRIC CONNECTION 2 = cable of 2 meters M = M8 4 pin connector

Mounting bracket Mod. SWCN-B

Supplied with:

- 4 fixing screws M4x5 ISO 724 (fine pitch)
- 1 fixing bracket for surface mounting (A)
 1 fixing bracket for wall mounting (B)



Mod. SWCN-B



Panel mounting set + transparent cover Mod. SWCN-FP

Supplied with:

- 1 pressure switch holder
- 2 panel mounting brackets - 1 transparent cover





Panel mounting set Mod. SWCN-F

Supplied with:

- 1 pressure switch holder (A)2 panel mounting brackets (B)

Mod. SWCN-F



Circular M8 4-pole connectors, Female

With PU sheathing, non shielded cable.

CS-DF04EG-E200 CS-DF04EG-E500 CS-DR04EG-E200 CS-DR04EG-E500



Pressure gauges

Miniature pressure gauge

Supplied with a rubber cap providing protection class IP54.

Pressure gauges for panel mounting

Precision class CL1,6



Mod. M043-F04 M043-F06 M043-F10 M043-F12

M063-F12



Mod.

Mod.

M043-R06 M043-R12

M053-R12

M063-R12

Mod. MX3-R33/W-P

MX3-R31/W-P

MX3-R32/W-P

MX3-R30/W-P

M015-P08

Pressure gauges with radial connection

Precision class CL1,6



Pressure gauges with rear connection

Precision class CL1,6

Mod. M043-P02,5 M043-P04 M043-P06 M043-P10 M043-P12 M053-P04 M053-P06 M053-P10 M053-P12 M063-P04 M063-P06 M063-P12



Built-in pressure gauge

Precision class CL4,0 Supplied with: 1x pressure gauge 1x seal 2x screws



Pressure gauges with rear connection and adjustable red-green coloured sector

Precision class CL1,6



Mod. M043-P02,5-GR M043-P04-GR M043-P12-GR





Possibility of a direct mounting with rear or panel connection

Series PG digital pressure gauges - battery-powered

Series PG digital pressure gauges - with cable







CODING EXAMPLE

Mod.

PG010-PB-1/8

PG001-VB-1/8 PG010-PB-1/4

PG001-VB-1/4

PG	010	_	Р	В	-	1/8	-	2
----	-----	---	---	---	---	-----	---	---

PG	SERIES
010	BOTTOM SCALE 010 = 10 bar 001 = -1 bar
P	PRESSURE RANGE P = pressure V = vacuum
В	LIGHTING B = back light
1/8	PNEUMATIC CONNECTIONS 1/8 = G 1/8 BSPP; M5 1/4 = G 1/4 BSPP; M5 (for battery-powered version only)
2	ELECTRICAL CONNECTION (for version with cable only) 2 = with unshielded 2-pole cable of 2 m M = with cable of 150 mm and M8 4-pole connector

Mounting brackets Mod. PG-B

Supplied with: 1x bracket type A 1x bracket type B 2x screws M3x6



Panel mounting adapter Mod. PG-F

Supplied with: 1x adapter type A 1x adapter type B





Mod. PG-B



Condensate drains Filtering elements

Semi-automatic manual drain; Automatic drain; Depressurisation drain; Depressurisation drain, protected Ports: 1/8 (without drain)



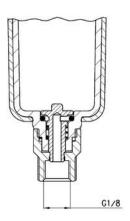
COMBINATION OF FILTERS / BOWL WITH DRAIN / FILTERING ELEMENT

st for Series MD the "bowl with drain" is supplied complete with the filtering element

Mod. filter	bowl with semi- automatic manual drain	bowl with automatic drain	bowl with depressurization drain	bowl with depressurization drain, protected	bowl without drain (1/8 port)	closed bowl	filtering element 25 μ	filtering element 5 μ	filtering element 1 µ	filtering element 0.01 µ	activated carbon
N10F	N1-F71				N1-F71-1/8		C104-F20/3	C104-F21/3			
N10D	N1-F71				N1-F71-1/8		C104-F20/3	C104-F21/3			
N10FB	N1-F71				N1-F71-1/8					MX1-F10	
N20F	N2-F71		N2-F71/2	N2-F71/1	N2-F71-1/8		C104-F20/3	C104-F21/3			
N20D	N2-F71		N2-F71/2	N2-F71/1	N2-F71-1/8		C104-F20/3	C104-F21/3			
N20FB	N2-F71		N2-F71/2	N2-F71/1	N2-F71-1/8					MX1-F10	
N20FCA						N2-L71					MX1-F11
MC104-F	MC1-F71		MC1-F71/2	MC1-F71/1	MC1-F71-1/8		C104-F20/3	C104-F21/3			
MC104-D	MC1-F71		MC1-F71/2	MC1-F71/1	MC1-F71-1/8		C104-F20/3	C104-F21/3			
MC104-FB	MC1-F71		MC1-F71/2	MC1-F71/1	MC1-F71-1/8					MX1-F10	
MC104-FCA						MC1-L71					MX1-F11
MC202-F	MC2-F71	MC2-F71/3		MC2-F71/1	MC2-F71-1/8		C238-F11/3	C238-F12/3			
MC202-D	MC2-F71	MC2-F71/3		MC2-F71/1	MC2-F71-1/8		C238-F11/3	C238-F12/3			
MC202-FB	MC2-F71	MC2-F71/3		MC2-F71/1	MC2-F71-1/8					MX2-F10	
MC202-FCA						MC2-L71					MX2-F11
MC238-F	MC2-F71	MC2-F71/3		MC2-F71/1	MC2-F71-1/8		C238-F11/3	C238-F12/3			
MC238-D	MC2-F71	MC2-F71/3		MC2-F71/1	MC2-F71-1/8		C238-F11/3	C238-F12/3			
MC238-FB	MC2-F71	MC2-F71/3		MC2-F71/1	MC2-F71-1/8					MX2-F10	
MC238-FCA						MC2-L71					MX2-F11
MX2F	MX2-F2-P	MX2-F2/1-P		MX2-F2/3-P	MX2-F2/2-P		C238-F11/3	C238-F12/3			
MX2FR	MX2-F2-P	MX2-F2/1-P		MX2-F2/3-P	MX2-F2/2-P		C238-F11/3	C238-F12/3			
MX2FC	MX2-F2-P	MX2-F2/1-P		MX2-F2/3-P	MX2-F2/2-P				MX2-F9	MX2-F10	
MX2FCA						MX2-L2-P					MX2-F11
MX3F	MX3-F2-P	MX3-F2/1-P		MX3-F2/3-P	MX3-F2/2-P		MX3-F7	MX3-F8			
MX3FR	MX3-F2-P	MX3-F2/1-P		MX3-F2/3-P	MX3-F2/2-P		MX3-F7	MX3-F8			
MX3FC	MX3-F2-P	MX3-F2/1-P		MX3-F2/3-P	MX3-F2/2-P				MX3-F9	MX3-F10	
MX3FCA						MX3-L2-P					MX3-F11
MD1-F0*	MD1-FSP01	MD1-FSP08		MD1-FSP03	MD1-FSP02		C104-F20/3				
MD1-F1*	MD1-FSP04	MD1-FSP07		MD1-FSP06	MD1-FSP05			C104-F21/3			
MD1-FR0*	MD1-FSP01	MD1-FSP08		MD1-FSP03	MD1-FSP02		C104-F20/3				
MD1-FR1*	MD1-FSP04	MD1-FSP07		MD1-FSP06	MD1-FSP05			C104-F21/3			
MD1-FCO*	MD1-FCSP01			MD1-FCSP03	MD1-FCSP02					MD1-F10	
MD1-FC1*	MD1-FCSP04			MD1-FCSP06	MD1-FCSP05				MD1-F9		
MD1-FCA*						MD1- FCASP01					MD1-F11

Semi-automatic manual drain (Type 0 and 1)

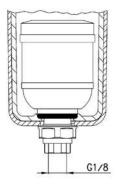
Functioning: with the operator mechanism turned clockwise, each time the pressure falls below 0.3 bar, the draining of condensate will be released; when resetting the pressure, the drain will close again. The release can also be carried out manually; when the bowl is pressurised, the operator mechanism is pushed upwards.



To avoid the discharge of condensate, the operator mechanism should be turned clockwise to completely close the drain.

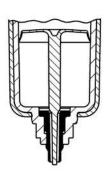
Automatic drain (Type 3)

Functioning: the presence of liquid inside the bowl raises the float, thus opening the exhaust valve.



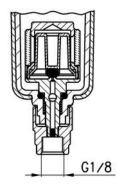
Depressurisation drain (Type 4)

Functioning: each time air is required from the inlet, a slight difference of pressure is created between the upper part and lower part of the drain that rises, thus opening the exhaust valve.



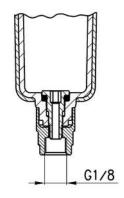
Depressurisation drain, protected (Type 5)

Solution similar to the Type 4 but requiring a $\Delta P=1$ bar. Functioning: this version has a filtering element which prevents any impurities from clocking the exhaust hole.

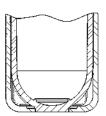


Bowl without drain (Type 8)

The solution with port G1/8 is used to assemble the items to the bowl which is realized with a through hole of ø3 mm and a threaded port G1/8.



Closed bowl





Brass super-rapid fittings for plastic tubes Series 6000

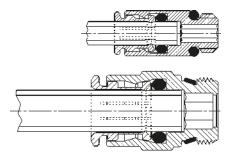
Tube external diameters: 3, 4, 5, 6, 8, 10, 12, 14, 16 mm Fittings threads: metric (M3, M5, M6, M7), BSP (G1/8, G1/4, G3/8, G1/2,G3/4), BSPT (R1/8, R1/4, R3/8, R1/2)



Series 6000 super-rapid fittings have been designed with a special collet which provides an homogeneous tight on the whole surface of plastic tubes, thus ensuring high reliability and a long service life, also after connections and disconnections of the tube are repeated several times. Many types of threads are also available: metric, BSP and BSPT.

The Sprint® models are characterized by great adaptability of male threads with BSP parallel (ISO-228) female threads even in the presence of non-flat or irregular surfaces. This is possible thanks to a Teflon ring on the male thread, which guarantees a perfect seal between the two threads.

The wide range of these fittings includes the LF version ("Stop Fitting") which is equipped with a self-retaining device interrupting the air flow when the tube is disconnected and restores it when reconnected.



GENERAL DATA

Temperature

Tube to connect

Diameters Ø 4 - 5 -6 - 8 - 10 - 12 - 14 - 16 mm

Micro models: ø 3 - 4 - 6 - 8 - 10 mm

Threads GAS conical ISO 7 (BSPT) GAS cylindrical ISO 228 (BSP); M5-M6 and other metric threads available on request; NPT on request

Micro models: M3 - M5 - M7 - G1/8 - G1/4

 $-20^{\circ}\text{C} \div 80^{\circ}\text{C}$ (see the technical data of tubing used)

Micro models: -10° C \div 80°C (see the technical data of tubing used) Polyamide (PA) 6 - 11 - 12, Polyurethane (PU), Polyethylene (PE), hytrel Polyester

Fluid co

compressed air (for other types of fluid, contact our engineers)

Materials - standard models: body and collet in nickel-plated brass, O-Ring in NBR, thread seals in PTFE - NBR - PA

 $- \,models\,with\,self-retaining\,device:\,body\,and\,collet\,in\,nickel-plated\,brass,\,poppet\,valve\,in\,brass,\,spring\,in\,stainless\,steel,\\$

O-Ring in NBR, thread seals in PTFE

Working pressure - standard models: min -0,9 bar - max 16 bar (see tubing)

- models with self-retaining device: 0 ÷ 16 bar

Fittings Mod. S6510

Male Connector Sprint®

Mod.	
S6510 4-1/8	S6510 10-1/4
S6510 4-1/4	S6510 10-3/8
S6510 5-1/8	S6510 10-1/2
S6510 5-1/4	\$6510 12-1/4
S6510 6-1/8	S6510 12-3/8
S6510 6-1/4	\$6510 12-1/2
\$6510 6-3/8	\$6510 14-3/8
S6510 8-1/8	S6510 14-1/2
\$6510 8-1/4	S6510 16-1/2
\$6510 8-3/8	\$6510 16-3/4
S6510 8-1/2	



Fittings Mod. S6510...-LF

Male Connector Sprint® with self-retaining device. This version interrupts the air flow when the tube is disconnected and restores it when reconnected.

Mod.
S6510 4-1/8-LF
S6510 6-1/8-LF



Fittings Mod. 6512 Micro

Metric-BSP Male Connector

Mod.	
6512 3-M3	*
6512 3-M5	•
6512 4-M7-M	•
6512 4-1/8-M	•
6512 6-M7-M	•
6512 6-1/8-M	•
6512 8-1/8-M	•
6512 10-1/4-M	•

- * = with gasket
- = with 0-Ring



C CAMOZZI

Fittings Mod. 6512

Metric-BSP Male Connector

Mod.	
6512 4-M5	6512 8-3/8
6512 4-M6	6512 10-1/4
6512 4-1/8	6512 10-3/8
6512 4-1/4	6512 10-1/2
6512 5-M5	6512 12-1/4
6512 6-M5	6512 12-3/8
6512 6-M6	6512 12-1/2
6512 6-1/8	6512 14-3/8
6512 6-1/4	6512 14-1/2
6512 8-1/8	6512 16-1/2
6512 8-1/4	



Fittings Mod. 6463

Metric-BSP Female Connector

Mod.
6463 4-M5
6463 4-1/8
6463 5-1/8
6463 6-1/8
6463 6-1/4
6463 8-1/8
6463 8-1/4
6463 10-1/4



Fittings Mod. S6520

Swivel Male Elbow Sprint®

Mod.	
S6520 4-1/8	S6520 10-1/4
S6520 4-1/4	S6520 10-3/8
\$6520 5-1/8	S6520 10-1/2
\$6520 5-1/4	S6520 12-1/4
S6520 6-1/8	S6520 12-3/8
\$6520 6-1/4	S6520 12-1/2
S6520 6-3/8	S6520 14-3/8
\$6520 8-1/8	S6520 14-1/2
\$6520 8-1/4	
\$6520 8-3/8	
\$6520 8-1/2	



Fittings Mod. 6522 Micro

Metric Swivel Male Elbow

Mod.	
6522 3-M3	*
6522 3-M5	•







Fittings Mod. 6522

Metric-BSP Swivel Male Elbow

MOG.	
6522 4-M5	6522 8-3/8
6522 4-1/8	6522 10-1/4
6522 4-1/4	6522 10-3/8
6522 5-M5	6522 10-1/2
6522 6-M5	6522 12-1/4
6522 6-1/8	6522 12-3/8
6522 6-1/4	6522 12-1/2
65228-1/8	6522 14-3/8
65228-1/4	6522 14-1/2



Fittings Mod. S6500

Metric Fix Male Elbow

Mod.	
\$6500 4-1/8	S6500 12-1/4
\$6500 4-1/4	\$6500 12-3/8
\$6500 5-1/8	
\$6500 5-1/4	
\$6500 6-1/8	
\$6500 6-1/4	
\$6500 8-1/8	
\$6500 8-1/4	
\$6500 8-3/8	
S6500 10-1/4	



Fittings Mod. 6525

Long Swivel Male Elbow Sprint®

Mod.
6525 6-1/8
6525 6-1/4
6525 8-1/8
6525 8-1/4



Fittings Mod. 6621 Micro

Complete Metric Adjustable Single Banjo

Mod.	
6621 3-M3	
6621 3-M5	



Fitting Mod. 6501 4-M5

Metric Fix Male Elbow

Mod.	
6501 4-M5	

S6500 10-3/8



Fittings Mod. S6430

Swivel Male Tee Sprint®

S6430 12-1/4 S6430 12-3/8 S6430 12-1/2

S6430 14-1/2

Mod.
56430 4-1/8
\$6430 5-1/8
S6430 5-1/4
S6430 6-1/8
S6430 6-1/4
S6430 8-1/8
S6430 8-1/4
S6430 8-3/8
S6430 10-1/4
S6430 10-3/8
S6430 10-1/2



Fittings Mod. 6432 Micro

Metric Swivel Male Tee

Mod.	
6432 3-M3	*
6432 3-M5	•

* = with gasket



Fittings Mod. 6432

Metric-BSP Swivel Male Tee

Mod.	
6432 4-M5	6432 8-1/4
6432 4-1/8	6432 8-3/8
6432 5-M5	6432 10-1/4
6432 6-1/8	6432 10-3/8
6432 6-1/4	6432 12-1/4
64328-1/8	6432 12-3/8



10



Fittings Mod. S6440

Lateral Swivel Male Tee Sprint®

Mod.
56440 4-1/8
S6440 5-1/8
56440 6-1/8
S6440 6-1/4
S6440 8-1/8
S6440 8-1/4
S6440 8-3/8
S6440 10-1/4
S6440 10-3/8
S6440 12-3/8
S6440 14-1/2



Fittings Mod. 6442 Micro

Lateral Metric Swivel Male Tee

Mod.	
6442 3-M3	*
6442 3-M5	•

★ = with gasket● = with 0-Ring



Fittings Mod. 6442

Lateral Metric-BSP Swivel Male Tee

6442 12-1/4	06
6442 12-3/8	â
	- 1
	6
	- 4
	1



Fittings Mod. 6452 Micro

Metric Swivel Male Y

Mod.	
6452 3-M3	*
6452 3-M5	•

★ = with gasket● = with 0-Ring



Fittings Mod. 6451 - S6450

Mod. 6451: Metric Adjustable Male Y Mod. S6450: Swivel Male Y Sprint®

Mod.	
6451 4-M5	*
6451 6-M5	*
\$6450 4-1/8	
\$6450 6-1/8	
\$64508-1/8	
\$64508-1/4	

★ = not swivel Model with gasket



Fittings Mod. 6622

Complete BSP Swivel Single Banjo

_
*

* = not swivel Model with gasket



Fittings Mod. 6632

Complete BSP Swivel Double Banjo

Mod.
6632 4-1/8
6632 6-1/8
6632 6-1/4
6632 8-1/8
6632 8-1/4
6632 10-1/4



Fittings Mod. 6620

Double Banjo

Mod.	assembled with Mod.
6620 4-M5	SCU, SVU, SCO
6620 4-1/8	1631, 1635, SCU, SVU, SCO
6620 6-1/8	1631, 1635, SCU, SVU, SCO
6620 6-1/4	1631, 1635, SCU, SVU, SCO
6620 8-1/8	1631, 1635, SCU, SVU, SCO
6620 8-1/4	1631, 1635, SCU, SVU, SCO



Fittings Mod. 1631 with gaskets

01... = Single Banjo Stem 02... = Double Banjo Stem 03... = Triple Banjo Stem

Mod.						
1631	01-					
1631	02-					
1631	03-					

Complete codes available on page 335



Fittings Mod. 6610

Single Banjo

	Mod.	assembled with Mod.
	6610 4-M5	1631
	6610 4-M6	SCU, SVU, SCO
	6610 4-1/8	1631, 1635, SCU, SVU, SCO
ĺ	6610 5-M5	1631
	6610 5-M6	SCU, SVU, SCO
ĺ	6610 5-1/8	1631, 1635, SCU, SVU, SCO
	6610 6-M5	1631
ĺ	6610 6-M6	SCU, SVU, SCO

Mod.	assembled with Mod.
6610 6-1/8	1631, 1635, SCU, SVU, SCO
6610 6-1/4	1631, 1635, SCU, SVU, SCO
6610 8-1/8	1631, 1635, SCU, SVU, SCO
6610 8-1/4	1631, 1635, SCU, SVU, SCO
6610 8-3/8	1631, 1635, SCU, SVU, SCO
6610 10- 1/4	1635, SCU, SVU, SCO
6610 10- 3/8	1635, SCU, SVU, SCO
6610 12-1/2	1635



Fittings Mod. 6811

Metric Male Adaptor Sprint®

Mod.	
6811 4-M5	*
6811 4-1/8	
6811 5-1/8	
6811 5-1/4	
6811 6-1/8	
6811 6-1/4	
6811 8-1/8	
6811 8-1/4	
6811 10-1/4	
6811 10-3/8	
6811 12-3/8	
6811 14-1/2	





Fittings Mod. S6110

45° Male Elbow Sprint®

Mod.
S6110 6-1/8
S6110 6-1/4
S6110 8-1/8
S6110 8-1/4
S6110 8-3/8
S6110 10-1/4
S6110 10-3/8
S6110 10-1/2
S6110 12-1/4
S6110 12-3/8
S6110 12-1/2



Fittings Mod. 6590 Micro

Bulkhead Connector

Mod.	
65903	



10

10 322

Bulkhead Connector

Mod.
6590 4
6590 5
6590 6
65908
6590 10
6590 12
6590 14



Fittings Mod. 6580 Micro

Union Connector

6580 Z	
Mod.	



Fittings Mod. 6580

Union Connector

Mod.	
6580 4	
6580 5	
6580 6	
65808	
6580 10	
6580 12	
6580 14	
6580 16	



Fittings Mod. 6580 - Reducer

Reducer Union Connector

Mod.	
6580 6-4	
6580 8-6	
6580 10-	8
6580 12-	10



Fittings Mod. 6593

BSP Female Bulkhead

Mod.
6593 6-1/8
6593 6-1/4
6593 8-1/8
6593 8-1/4
6593 10-3/8



Fittings Mod. 6550 Micro

Elbow connector

Mod.	
65503	



Fittings Mod. 6550

Elbow connector

Mod.
6550 4
6550 5
6550 6
65508
6550 10
6550 12
6550 14



Fittings Mod. 6540 Micro

Tee Connector

Mod.	
65403	



Fittings Mod. 6540

Tee Connector

Mod.
6540 4
6540 5
6540 6
6540 8
6540 10
6540 12
6540 14



Fittings Mod. 6600

Cross Junction

Mod.						
6600 4						
6600 5						
66006						
66008						
6600 10			•			
6600 12	•	•	•		•	



Fittings Mod. 6560 Micro

Y Union

Mod.	
Mod	



Fittings Mod. 6560

Y Union

Mod.	
6560 4	
6560 6	Ī
65608	
6560 10	



Fittings Mod. 6750

Female Plug

Mod.	
6750 4	
6750 6	
67508	
6750 10	
6750 12	



Fittings Mod. 6850

Enlarger Junction

Mod.	
6850 6-4	
6850 8-6	



Fitting Mod. 6800 Micro

Reducer Junction

Mod.	
6800 3-4	





C CAMOZZI

Reducer Junction

Mod. 6800 4-5	6800 10-14
6800 4-5	6800 10-14
6800 4-6	6800 12-14
6800 4-8	
6800 5-6	
6800 5-8	
6800 6-8	
6800 6-10	
6800 6-12	
6800 8-10	
6800 8-12	
6800 10-12	



Fittings Mod. 6950

Junction



Fittings Mod. 6555

Junction Elbow

Mod.
6555 4-4
6555 6-6
6555 8-8
6555 10-10



Fittings Mod. 6700

Cartridge

Mod.	
67003	
6700 4	
6700 5	
67006	
67008	
6700 10	



Accessory Mod. 6708

Protection caps Colour: Black Self-extinguishing material, class V0

Mod.
6708 4
6708 5
6708 6
67088
6708 10
6708 12
6708 14



Accessory Mod. 6900 Micro

Plastic Male Plug

6900 Z	
Mod.	



Accessory Mod. 6900

Plastic Male Plug

Mod.
6900 4
6900 5
6900 6
69008
6900 10
6900 12
6900 14



Accessory Mod. SP

Disconnecting tube set The set includes keys to disconnect tubes with diameters between 4 and 12 mm.

Mod.	
CD	





Brass super-rapid fittings for Lubrication Applications Series HP6000

Tube external diameters: 4, 6 mm

Fittings threads: metric M5, M6x0,75, M6x1, M8x1, M10x1, M10x1,5, M12x1, M14x1

ISO7 (BSPT): R1/8, R1/4. ISO-228 (BSPP): G1/8, G1/4





Series HP6000 is designed with a special collet that provides a long service life for lubrication and greasing systems for industrial and transportation applications.

Thanks to its easy connection and disconnection capability, robust and compact design as well as the materials used in its construction, these quick-connect fittings are ideal for high pressures up to 150bar.
The range is available with different threads (metric, ISO7 and ISO-228) and is suitable for use with rigid and semi-rigid tubes to meet different application needs.



GENERAL DATA

Temperature - 30°C ÷ 80°C (see the technical data of tubing used)

Working pressure 0 ÷ 150 bar with oil and grease

0,9 ÷ 60 bar with air (see the technical data of tubing used)

3 ÷ 150 bar for VNR version (for upper pressure range contact our engineers)

Diameters Ø 4 - 6 mm

Threads M5, M6x0,75, M6x1, M8x1, M10x1, M10x1,5, M12x1, M14x1. ISO7 (BSPT): R1/8,R1/4. ISO-228 (BSPP): G1/8, G1/4

Fluid oil and grease for lubrification, compressed air

Tube to connect Oil and grease: PA 12 HL - PA 12 PHL

Rigid metal pipe with smooth grooved metal end (tolerance of PA tubing in compliance to ISO14743) Compressed air: Polyammide (PA) 6 - 11 - 12, Polyurethane (PU), Polyethylene (PE), Polyester hytrel

Materials - standard models: body and collet in nickel-plated brass, O-Ring in NBR, thread seals in NBR

 $- \,models\,with\,VNR:\,body\,and\,collet\,in\,nickel-plated\,brass,\,spring\,and\,ball\,in\,stainless\,steel,\,O-Ring\,in\,NBR$



Male Connector Thread Metric parallel and BSPP ISO-228

Mod
Mod.
HP6512 4-M5
HP6512 4-M6x1
HP6512 4-M8x1
HP6512 4-M10x1
HP6512 4-M12x1
HP6512 4-1/8
HP6512 4-1/4
HP6512 6-M5
HP6512 6-M6x1
HP6512 6-M8x1
HP6512 6-M10x1
HP6512 6-M12x1
HP6512 6-1/8
HP6512 6-1/4



Fittings Mod. HP6510

Male Connector Thread Metric tapered and BSPT ISO-7

Mod.
HP6510 4-M6x0,75
HP6510 4-M6x1
HP6510 4-M8x1
HP6510 4-M10x1
HP6510 4-1/8
HP6510 6-M6x0,75
HP6510 6-M6x1
HP6510 6-M8x1
HP6510 6-M10x1
HP6510 6-1/8



Fittings Mod. HPR6512

Male Connector Thread Metric parallel

Mod.
HPR6512 4-M5
HPR6512 4-M6x1
HPR6512 4-M6x0,75
HPR6512 6-M5
HPR6512 6-M6x1
HPR6512 6-M6x0.75



Fittings Mod. HP6500

Fixed Male Elbow Thread Metric tapered and BSPT ISO-7

Mod.
HP6500 4-M6x0,75
HP6500 4-M6x1
HP6500 4-M8x1
HP6500 4-M10x1
HP6500 4-M10x1,5
HP6500 4-M12x1
HP6500 4-1/8
HP6500 4-1/4
HP6500 6-M6x0,75
HP6500 6-M6x1
HP6500 6-M8x1
HP6500 6-M10x1
HP6500 6-M10x1,5
HP6500 6-M12x1
HP6500 6-1/8
HP6500 6-1/4



Fittings Mod. HP6522

Swivel Male Elbow Thread Metric parallel and BSPP ISO-228

Mod.
HP6522 4-M5
HP6522 4-M6
HP6522 4-M6x0,75
HP6522 4-M8x1
HP6522 4-M10x1
HP6522 4-1/8
HP6522 4-1/4
HP6522 6-M5
HP6522 6-M6
HP6522 6-M6x0,75
HP6522 6-M8x1
HP6522 6-M10x1
HP6522 6-1/8
HP6522 6-1/4



Fittings Mod. HP6520

Swivel Male Elbow Thread Metric tapered and BSPT ISO-7

Mod.
HP6520 4-M6x1
HP6520 4-M8x1
HP6520 4-M10x1
HP6520 4-M12x1
HP6520 4-1/8
HP6520 4-1/4
HP6520 6-M6x1
HP6520 6-M8x1
HP6520 6-M10x1
HP6520 6-M12x1
HP6520 6-1/8
HP6520 6-1/4



Fittings Mod. HP6622

Swivel Single Banjo Thread Metric parallel and BSPP ISO-228

Mod.
HP6622 6-M6
HP6622 6-M8x1
HP6622 6-1/8



Fittings Mod. HP6580

Union Connector

Mod.	
HP6580 4	
HP6580 6	



Fittings Mod. HP6590

Bulkhead Connector Thread Metric tapered

Mod.	
HP6590 6	



Fittings Mod. HP6550

Elbow connector

Mod.
HP6550 4
HP6550 6



Fittings Mod. HP6540

Tee Connector

Mod.	
HP6540 4	
HP6540 6	



Fittings Mod. HP6560

Y-shaped Connector

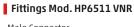
Mod.	
HP6560 6	



Fittings Mod. HP6510 VNR

Male Connector Thread Metric tapered and BSPT ISO-7

Mod.
HP6510 4-M8x1-VNR
HP6510 4-M10x1-VNR
HP6510 4-1/8-VNR
HP6510 6-M8x1-VNR
HP6510 6-M10x1-VNR
HD6510 6-1/8-VND



Male Connector Thread Metric parallel

Mod.	
HP6511 4-M10x1	VNF
HD6511 6-M10v1	VNE

Fittings Mod. HP6512 VNR

Male Connector Thread Metric parallel and BSPP ISO-228

Mod.
HP6512 4-M8x1-VNR
HP6512 4-M10x1-VNR
HP6512 4-1/8-VNR
HP6512 6-M8x1-VNR
HP6512 6-M10x1-VNR
HP6512 6-1/8-VNR





Tube cutter tool Mod. PNZ... and PNZP-12

Tubes cutter Mod. PNZ...: replacement blades can be ordered separately.

Tubes cutter Mod. PNZP-12: plastic.

Mod.	
PNZ-12	able to cut tubes with Ø up to 12 mm
PNZ-25	able to cut tubes with Ø up to 25 mm
PNZP-12	able to cut tubes with Ø up to 12 mm



Grooving tool for metallic tubes

Mod.	
8TRT 4	
8TRT 6	





Super-rapid Compact fittings in technopolymer Series 7000

Tube external diameters: 4, 6, 8, 10, 12, 16 mm

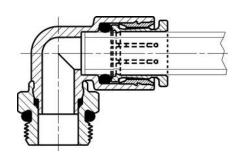
Fittings threads: metric (M5, M7), BSP (G1/8, G1/4, G3/8, G1/2, G3/4)



Series 7000 super-rapid fittings are realized in technopolymer.

Compact and lightweight, they are suitable for applications where weight can be a key factor. The special collet, which has been designed properly for this series, provides an homogeneous tight on the whole surface of plastic tubes, thus ensuring high reliability and long service life, also after connections and disconnections of the tube are repeated several times.

The wide range of these fittings includes the LF version ("Stop Fitting") which is equipped with a self-retaining device interrupting the air flow when the tube is disconnected and restores it when reconnected.



GENERAL DATA

Diameters	ø4-6-8-10-12-16mm
Threads	GAS cylindrical ISO-228 (BSP)
Temperature	$-20^{\circ} \div 60^{\circ}$ C (see the technical data of tubing used)
Tube to connect	Polyamide (PA) 6 - 11 - 12, Polyurethane (PU), Polyethylene (PE), hytrel Polyester
Medium	compressed air (for other types of fluids, contact our engineers)
Materials	 - standard models: body in technopolymer; insert in brass; collet in nickel-plated brass; seals in NBR - models with self-retaining device: body in technopolymer; swivel nut, insert and collet nickel-plated brass; poppet valve in not nickel-plated brass; spring in stainless steel; seals in NBR
Working pressure	- standard models: -0.9 \div 16 bar (see the technical data of tubing used) - models with self-retaining device: 0 \div 16 bar

Metric-BSP Male Swivel Elbow

Mod.	
7522 4-M5	7522 8-3/8
7522 4-M7	7522 10-1/4
7522 4-1/8	7522 10-3/8
7522 4-1/4	7522 10-1/2
7522 6-M5	7522 12-1/4
7522 6-M7	7522 12-3/8
7522 6-1/8	7522 12-1/2
7522 6-1/4	7522 16-1/2
7522 8-1/8	7522 16-3/4
7522 8-1/4	



Fittings Mod. 7522...LF

Metric-BSP Male Swivel Elbow with self-retaining

device. This version interrupts the air flow when the tube is disconnected and restores it when reconnected.

Mod.
7522 4-1/8-LF
7522 6-1/8-LF



Fittings Mod. 7526

Long BSP Male Swivel Elbow

Mod.
7526 4-M7
7526 4-1/8
7526 6-M7
7526 6-1/8
7526 6-1/4
7526 8-1/8
7526 8-1/4



Fittings Mod. 7442

Lateral BSP Swivel Male Tee

Mod.	
7442 4-1/8	7442 12-1/
7442 6-1/8	7442 16-1/
7442 6-1/4	7442 16-3/
7442 8-1/8	
7442 8-1/4	
7442 8-3/8	
7442 10-1/4	
7442 10-3/8	
7442 12-3/8	



Fittings Mod. 7432

BSP Swivel Male Tee

7432 12-3/8	
7432 12-1/2	
7432 16-1/2	
7432 16-3/4	
7522 16-1/2	
2	
18	The same of the sa
	4
	7432 12-1/2 7432 16-1/2 7432 16-3/4

Fittings Mod. 7542

BSP Swivel Male Multi Tee Reducer

Mod.
7542 6-4-1/8
7542 6-4-1/4
7542 8-6-1/8
7542 8-6-1/4
7542 10-8-1/4
7542 10-8-3/8



Fittings Mod. 7562

BSP Swivel Male Y

Mod.
7562 4-1/8
7562 6-1/8
7562 6-1/4
7562 8-1/8
7562 8-1/4
7562 10-1/4
7562 10-3/8



Fittings Mod. 7572

BSP Male Double Y

Mod.	
7572 4-1/8	
7572 4-1/4	
7572 6-1/8	
7572 6-1/4	



Fittings Mod. 7622

Complete BSP Swivel Single Banjo

7622 4-1/8 7622 6-1/8
7622 6-1/8
7622 6-1/4
7622 8-1/8
7622 8-1/4
7622 10-1/4
7622 10-3/8
7622 12-3/8



Fittings Mod. 7652

Complete BSP Swivel Double Banjo

Mod.
7652 4-1/8
7652 6-1/8
7652 6-1/4
7652 8-1/8
7652 8-1/4
7652 10-1/4
7652 10-3/8



Fittings Mod. 7610

Single Banjo

Mod.
7610 4-1/8
7610 6-1/8
7610 6-1/4
7610 8-1/8
7610 8-1/4
7610 10-1/4
7610 10-3/8
7610 12-3/8

Assembled with Mod. 7632 02, 7632 03



Fittings Mod. 7640

Double Banjo

Mod.
7640 4-1/8
7640 6-1/8
7640 6-1/4
7640 8-1/8
7640 8-1/4
7640 10-1/4
Assembled with
Mod. 7632 02, 7632 03



Fittings Mod. 7632 02

Double Banjo Stem

Mod.
7632 02-1/8
7632 02-1/4
7632 02-3/8
Assembled with

Mod. 7610, 7640



Fittings Mod. 7632 03

Triple Banjo Stem

Mod.
7632 03-1/8
7632 03-1/4
Assembled with

Mod. 7610, 7640



Fittings Mod. 7612 02

Complete BSP Double Adjustable

Mod.
7612 02-4-1/8
7612 02-6-1/8
7612 02-6-1/4
7612 02-8-1/8
7612 02-8-1/4
7612 02-10-1/4
7612 02-10-3/8
7612 02-12-3/8





Fittings Mod. 7612 03

Complete BSP Triple Adjustable Single Banjo

Mod. 7612 03-4-1/8 7612 03-6-1/8 7612 03-6-1/4 7612 03-8-1/8 7612 03-8-1/4 7612 03-10-1/4



Fittings Mod. 7642 02

Complete BSP Double Adjustable Double Banjo

Mod. 7642 02-4-1/8 7642 02-6-1/8 7642 02-6-1/4 7642 02-8-1/8 7642 02-8-1/4 7642 02-10-1/4



Fittings Mod. 7642 03

Complete BSP Triple Adjustable Double Banjo

Mod. 7642 03-4-1/8 7642 03-6-1/8 7642 03-6-1/4 7642 03-8-1/8 7642 03-8-1/4 7642 03-10-1/4



Fittings Mod. 7800

Reducer Junction

Mod.
7800 4-6
7800 4-8
7800 6-8
7800 6-10
7800 6-12
7800 8-10
7800 8-12
7800 10-12
7800 10-14



Fittings Mod. 7555

Junction Elbow

Mod.
7555 4-4
7555 6-6
7555 8-8
7555 10-10
7555 12-12



Fittings Mod. 7580

Union Connector

Mod.	
7580 4	
7580 6	
75808	
7580 10	
7580 12	



Fittings Mod. 7550

Elbow Connector

Mod.
7550 4
7550 6
75508
7550 10
7550 12
7550 16



Fittings Mod. 7540

Tee Connector

Mod.	
7540 4	
7540 6	
75408	
7540 10	
7540 12	
7540 16	*





Fittings Mod. 7545

Multi Tee Reducer

Mod.	
7545 6-4	
7545 8-6	
7545 10-8	



Fittings Mod. 7560

Y Connector - Reducer

Mod.	
7560 4	
7560 6	
7560 8	
7560 10	
7560 6-4	
7560 8-6	
7560 10-8	



Fittings Mod. 7575

Reduced Double Y

Mod.	
7575 6-4	
7575 8-6	



Fittings Mod. 7950

Plastic Junction

Mod.	
7950 4	
79506	
79508	
7950 10	
7950 12	



Brass dual seal super-rapid fittings Series 8000

Tube external diameters: 4, 6, 8, 10 and 12 mm Fittings threads: BSP (G1/8, G1/4, G3/8, G1/2)



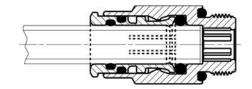




With its vast experience in manufacturing push-in connections for the pneumatics industry and its indepth research into fluid power systems, Camozzi has developed Series 8000 super-rapid fitting evolving from Series 6000, which has been extensively tested in the pneumatic sector.

A patented additional seal provides a double tight on the tube, thus ensuring a highly reliable connection and avoiding any possible leakage that may occur. Connection and disconnection of the tube can be repeated several times without the use of proper tools and without compromising the performance of the fitting ot the sealing on the tube.

The NBR seals are standard and can be easily replaced with FKM and EDM seals.



GENERAL DATA

Diameters	ø 4, 6, 8, 10, 12 mm
Threads	Gas cylindrical ISO-228 (BSP)
Temperature	-20°C ÷ 80°C
Tube to connect	Polyamide (PA) 6 - 11 - 12, Polyurethane (PU), Polyethylene (PE), hytrel Polyester, PTFE and metal tubing (properly shaped)
Medium	All fluids compatible with the fitting materials requiring a leak-tight seal, e.g. water. For other fluids, please contact our technicians
Materials	body and gripper: nickel-plated brass - seals: NBR
Working pressure	-0.9 ÷ 60 bar. The Series 8000 fittings can withstand a maximum pressure of 60 bar. However, the tube used might affect or limit the operating pressure considerably

Fittings Mod. 8512

BSP Male Connector

Mod.
8512 4-1/8
8512 6-1/8
8512 6-1/4
8512 8-1/8
8512 8-1/4
8512 10-1/4
8512 10-3/8
8512 12-3/8
8512 12-1/2



Fittings Mod. 8522

BSP Swivel Male Elbow

Mod.
8522 4-1/8
8522 6-1/8
8522 6-1/4
8522 8-1/8
8522 8-1/4
8522 10-1/4
8522 10-3/8
8522 12-3/8
8522 12-1/2



Fittings Mod. 8432

BSP Swivel Male Tee

Mod.
8432 4-1/8
8432 6-1/8
8432 8-1/8
8432 8-1/4



Fittings Mod. 8580

Union Connector

Mod.	
8580 4	
8580 6	
85808	



Fittings Mod. 8540

Tee Connector

Mod.	
8540 4	
8540 6	
85408	



Fittings Mod. 8550

Elbow Connector

Mod.
8550 4
8550 6
85508





Nickel-plated dual seal super-rapid fittings Series H8000

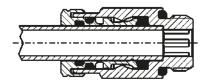
Tube external diameters: 4, 6, 8, 10, 12 mm Fittings threads: BSP (G1/8, G1/4, G3/8, G1/2)



Series H8000 fittings are designed to be used in particularly dirty and dusty working environments. The patented system with double tightening on the tube guarantees a highly reliable connection and avoids any risk of leakage.

The special shape of the collar prevents the entry of impurities inside the fitting, guaranteeing performance over time, retention of the tube and easy connection and release.

Series H8000 fittings have a brass body, FKM seals for high temperatures (EPDM and NBR seals are also available) and can be used with pressures between -0.9 and 60 bar.



GENERAL DATA

Diameters	ø 4, 6, 8, 10, 12 mm
Threads	Gas cylindrical ISO-228 (BSP)
Temperature	With FKM seals (standard): -15°C ÷ 200°C (dry air) - With EPDM (upon request): -40°C ÷ 110°C - With NBR seals (upon request): -20°C ÷ 80°C
Tube to connect	Polyamide (PA) 6 - 11 - 12, Polyurethane (PU), Polyethylene (PE), hytrel Polyester, PTFE and metal tubing (properly shaped)
Medium	All fluids compatible with the fitting materials requiring a leak-tight seal, e.g. water. For other fluids, please contact our technicians.
Materials	body: nickel-plated brass - Gripper: nickel-plated brass - Seals: FKM (EPDM and NBR upon request)
Working pressure	-0.9 bar ÷ 60 bar. The Series H8000 fittings can withstand a maximum pressure of 60 bar. However, the tube used might affect or limit the operating pressure considerably.

Fittings Mod. H8512

BSP Male Connector

Mod.	
H8512 4-1/8-V	H8512 12-1/4-V
H8512 6-1/8-V	H8512 12-3/8-V
H8512 6-1/4-V	H8512 12-1/2-V
H8512 8-1/8-V	
H8512 8-1/4-V	
H8512 8-3/8-V	
H8512 10-1/8-V	
H8512 10-1/4-V	
H8512 10-3/8-V	
H8512 10-1/2-V	

Fittings Mod. H8522

BSP Swivel Male Elbow

H8522 4-1/8-V	H8522 12-1/4-V
H8522 6-1/8-V	H8522 12-3/8-V
H8522 6-1/4-V	H8522 12-1/2-V
H8522 8-1/8-V	11
H8522 8-1/4-V	
H8522 8-3/8-V	0
H8522 10-1/8-V	ha II
H8522 10-1/4-V	
H8522 10-3/8-V	
H8522 10-1/2-V	

Fittings Mod. H8580

Union Connector

Mod.
H8580 4-V
H8580 6-V
H8580 8-V
H8580 10-V
H8580 12-V



Fittings Mod. H8540

Tee Connector

ice confidential	
Mod.	
H8540 4-V	
H8540 6-V	
H8540 8-V	
H8540 10-V	
H8540 12-V	



Fittings Mod. H8550

Elbow Connector

	Mod.
	H8550 4-V
	H8550 6-V
	H8550 8-V
ı	H8550 10-V
	H8550 12-V





Fittings for misting systems Series 6000M

External tube diameters: 1/4, 3/8, 1/2 inch

Fitting threads: 1/4, 3/8, 1/2 NPTF; 12/24 UNC; 10/24 UNC; 9/16-24 UNEF



Series 6000M fittings have been designed and produced to meet the specific requirements of the misting sector.
This new range takes origin from the already existing Series 6000, which has been changed and enriched with new accessories.

The push-in fittings system ensures maximum tightening even at very high working pressures.

GENERAL DATA

Materials	body and collet: nickel-plated brass O-ring: NBR
Threads	1/4, 3/8, 1/2 NPTF; 12/24 UNC; 10/24 UNC; 9/16-24 UNEF
Pressure	-0.9 bar ÷ 80 bar (see the tubes)
Connection tube	Rilsan® polyamide 11 (PA11) polyamide 12 (PA12) metal tubes (for further details please contact our technicians)
Diameters	1/4" (Ø 6,35), 3/8" (Ø 9,53), 1/2" (Ø 12,7)
Medium	water and compressed air (for other kinds of fluids please contact our technicians)
Temperature	-20°C ÷ 80°C (see the characteristics of the tubes used)

CODING EXAMPLE

М	6150	04	-	04	-	S01	
M	SERIES 6000M						
6150	BODY STYLE 2033 - 2103 - 253	2 - 6103 - 6510 - 65	40 - 6550 - 6560 -	6580 - 6750 - 6900 -	6953		

TUBE SIZE
02 = 3.17 mm - 53 = 4 mm - 04 = 6.35 mm - 06 = 9.53 mm - 08 = 12.7 mm

THREAD SIZE

THREAD SIZE
00 = no thread - OT = no thread, brass version - 32 = 10/32 UNF - 01 = 1/16 NPTF (NPT) - 02 = 1/8 NPTF (NPT) - 04 = 1/4 NPTF (NPT)
06 = 3/8 NPTF (NPT) - 08 = 1/2 NPTF (NPT) - 10/24 - UNC

SPECIAL VERSIONS
S01 = special version 1
S02 = special version 2

10



Fittings Mod. M6540

Union Tee

Mod.	
M6540 04-00	
M6540 06-00	
M6540 08-00	



Fittings Mod. M6550

Union Elbow

Mod.
M6550 04-00
M6550 06-00
M6550 08-00



Fittings Mod. M6580

Union Straight

Mod.	
M6580 04-00	
M6580 06-00	
MYEOU UO-UU	



Fittings Mod. M6510

NPTF Male Straight

Mod.
M6510 04-04
M6510 04-06
M6510 06-06
M6510 06-08
M6510 08-08



Fittings Mod. M6103

45° Elbow Adaptor

М	od.
М	6103 04-32-S02



Fittings Mod. M6953

Straight Adaptor

Mod.	
Mod	



Fittings Mod. M6580 06...S0...

Union Straight with hole for nozzle

*
•

- * = 10/24 UNC
- = 12/24 UNC



Fittings Mod. M6540 04...S01

Union Tee Adaptor

B.4	6540 04-10/24-UNC-S01
М	od.



Fittings Mod. M6540 04...S02

Union Straight with hole for nozzle

M65/0 0/-10/2/-UNC-502
Mod.



Fittings Mod. M6900

Male Plug

Mod. M6900 04-0T M6900 06-0T



Fittings Mod. M6750

Female Plug

Mod.
M6750 04-00
M6750 06-00
M6750 08-00



Fittings Mod. M6560

Union Y

Mod.
M6560 02-00
M6560 53-00
M6560 04-00



Fittings Mod. M2103

45° threaded Elbow

M2103 04-9/16-24-UNEF



Fittings Mod. M2532

Plug Hole

M2532 9/16-24-UNEF-10/24-UNC



Fittings Mod. M2033

Female Cross

Mod.
M2033 04-00
M2033 06-00



Tubes in polyamide PA11 Rilsan® Mod. TRSR

Colour: black



TRSR 6,35/3,2

Tubes in polyamide PA12 Mod. TSR

Colour: black



Mod. TSR 9,53/5 TSR 12,7/7

Tubes cutters Mod. PNZ and PNZP

Replacement blades of Mod. PNZ can beordered separately Tubes cutter Mod. PNZP is in plastic



PNZ-12 able to cut tubes with Ø till to 12 mm PNZP-12 able to cut tubes with Ø till to 12 mm

Disconnecting tube set Mod. SP

The set includes keys to disconnect tubes with diameters between 5/32" and 1/2"



SP



Fluidics in technopolymer fot water cooling applications Series 7000 Fluidics

Tube external diameters: 6, 8, 10, 12, 16 mm

Fittings threads: BSP (G1/8, G1/4, G3/8, G1/2, G3/4), M5









Series 7000 Fluidics push-in fittings enable smooth passage of fluids in cooling systems. Liquid cooling systems are considered to be better than air cooling, in terms of efficiency, effectiveness, compactness and noise in a wide range of applications from computer servers to industrial equipment. The Series 7000 Fluidics fitting range has been designed with a special technopolymer, based on renewable raw materials, that allows the component to resist water absorption, temperature variations and cooling liquid additives. The material maintains constant dimensional stability in contact with different fluids and does not breakdown with age.

Advanced gripping characteristics make the Series 7000 Fluidics an excellent alternative to traditional fittings, guaranteeing a uniform tightening on the whole surface of the tube. This enhances high reliability and resistance to repeated connections and disconnections of the tube. Reliable connection, compact dimensions and easy installation in confined spaces are only some of the features that make these new fittings an innovative solution for a wide range of cooling systems.

GENERAL DATA

Diameters	Ø6mm	Ø8mm	Ø10mm	Ø12mm	Ø16mm	
Working pressure at -20°/+40°	16bar	16bar	14bar	14bar	12bar	
Working pressure at -20°/+70°	16bar	14bar	12bar	10bar	8bar	
Working pressure at -20°/+100°	14bar	12bar	10bar	8bar	6bar	
Threads	GAS cylindrical ISO-228 (BSPP)					
Tube to connect	Polyurethane (PU), Polyethylene (PE), Polyamide (PA)					
Medium	Suitable for use with industrial water supplies and specialist cooling fluids. (Please contact us to discuss suitability for other fluids).					
Materials	-		PA11, Seals: vith cooling		ads: Chemical Nickel Plating. el Plated	



Fittings Mod. F6512K

BSP Male Connector

Mod.	
F6512 6-1/8K	
F6512 6-1/4K	
F6512 8-1/8K	
F6512 8-1/4K	
F6512 8-3/8K	
F6512 10-1/4K	
F6512 10-3/8K	
F6512 10-1/2K	
F6512 12-3/8K	
F6512 12-1/2K	
F6512 16-1/2K	*
F6512 16-3/4K	*





Fittings Mod. F6463K

BSP Female Connector

Mod.	
F6463 6-1/8K	
F6463 6-1/4K	
F6463 8-1/8K	
F6463 8-1/4K	
F6463 8-3/8K	
F6463 10-1/4K	
F6463 10-3/8K	
F6463 10-1/2K	
F6463 12-3/8K	
F6463 12-1/2K	
F6463 16-1/2K	*
F6463 16-3/4K	*

= Integrated Locking Clip to secure the collet in its position

Fittings Mod. F6700K

Cartridge

Mod.	
F6700 6K	
F6700 8K	
F6700 10K	



Fittings Mod. F7522K

BSP Male Swivel Elbow

Mod.
F7522 6-M5K
F7522 6-1/8K
F7522 6-1/4K
F75228-1/8K
F75228-1/4K
F7522 8-3/8K
F7522 10-1/4K
F7522 10-3/8K
F7522 10-1/2K
F7522 12-1/4K
F7522 12-3/8K
F7522 12-1/2K
F7522 16-1/2K *
F752216-3/4K *
* = Integrated





Fittings Mod. F7526K

Long BSP Male Swivel Elbow

Mod.	
F7526 6-1/8K	
F7526 6-1/4K	
F7526 8-1/8K	
F7526 8-1/4K	
F7526 8-3/8K	
F7526 10-1/4K	
F7526 10-3/8K	
F7526 10-1/2K	
F7526 12-3/8K	
F7526 12-1/2K	
F7526 16-1/2K	*
F7526 16-3/4K	*

★ = Integrated Locking Clip to secure the collet in its position



Fittings Mod. F7550

Elbow Connector

Mod.	
F75506	
F75508	
F755010	
F755012	
F755016	*

* = Integrated Locking Clip to secure the collet in its position



Fittings Mod. F7580

Union Connector

Mod.	
F7580 6	
F75808	
F7580 10	
F7580 12	



Fittings Mod. F7540

Tee Connector

Mod.	
F75406	
F75408	
F7540 10	
F7540 12	
F7540 16	*

* = Integrated Locking Clip to secure the collet in its position



Fittings Mod. F7560

Y Connector - Reducer

Mod.	
F7560 6	
F75608	
F7560 10	



Fittings Mod. F7545

Multi Tee Reducer

Mod.	
F7545 8-6	
F7545 10-8	



Fittings Mod. F7555

Junction Elbow

Mod.
F7555 6-6
F7555 8-8
F7555 10-10
F7555 12-12



Fittings Mod. F7800

Reducer Junction

Mod.
F7800 4-6
F7800 4-8
F7800 6-8
F7800 6-10
F7800 6-12
F7800 8-10
F7800 8-12
F7800 10-12





Fittings Mod. F6750K

Female Plug

Mod.	
F6750 6K	
F6750 8K	
F6750 10K	
F6750 12K	
F6750 16K	*

Integrated
 Locking Clip
 to secure the collet
 in its position



Accessory Mod. 6900

Plastic Male Plug

Mod.	
6900 6	
69008	
6900 10	
6900 12	



Fittings Mod. 2611

BSP Male Plug

Mod.	
2611 1/8	
2611 1/4	
2611 3/8	
2611 1/2	
2611 1	



Accessories Mod. 3033

4 Ways Distribution Block with fixing holes Material: anodized Aluminium

Mod.
3033 1/8
3033 1/4
3033 3/8
3033 1/2



Accessories Mod. 3043

Manifold with double lateral outles Material: anodized Aluminium

Mod.	
3043 1/4-3D-1/8	3043 1/2-5D-3/8
3043 1/4-4D-1/8	3043 1/2-6D-3/8
3043 1/4-5D-1/8	3043 3/8-5D-1/4
3043 1/4-6D-1/8	3043 3/8-6D-1/4
3043 3/8-3D-1/4	3043 1/2-3D-3/8
3043 3/8-4D-1/4	3043 1/2-4D-3/8



Accessories Mod. 3053

Manifold with lateral outlets Material: anodized Aluminium

Mod.	
3043 1/4-3D-1/8	3043 1/2-5D-3/8
3043 1/4-4D-1/8	3043 1/2-6D-3/8
3043 1/4-5D-1/8	3043 3/8-5D-1/4
3043 1/4-6D-1/8	3043 3/8-6D-1/4
3043 3/8-3D-1/4	3043 1/2-3D-3/8
3043 3/8-4D-1/4	3043 1/2-4D-3/8





Air Brake Fittings Series 9000











Series 9000 fittings have been designed to connect tubing according to DIN 74324 or ISO 7628 in the pneumatic brake systems of commercial vehicles. They offer excellent reliability and ease of assembly. The range includes a very compact release tool for disconnecting tubes from the fittings.

The tube interface is shielded by a rubber cap for protecting the internal parts against dirt and water ingress.
The integrity level of the interface concept, even during disassembling, is outstanding.

The Series 9000 offers a smart portfolio of different types of connectors. Depending on the demands of our customers, we are also ready to provide customized solutions.

Series 9000 fittings are TÜV certified and produced according to IATF 16949:2016 standards.

GENERAL DATA

Thread type	Metric acc. ISO965 / Conical NPTF acc. ANSI B1.20.3
Media	Compressed air (other fluids, please contact our technicians)
Operating pressure	Up to 16 bar (review also tube specifications)
Operating temperature	-50°C up to 100°C (peak) (review also tube specifications)
Tubes	Designed for use with Polyamide or Hytrel® tubing, compliant with standards DIN 73378, DIN 74324 or ISO 7628

Straight fittings Mod. 9512

Mod.	
9512 6-M10X1	9512 10/7,5-M16X1,5R
9512 6-M12X1,5R	9512 10/7,5-M22X1,5R
9512 6-M14X1,5R	9512 10-M12X1,5R
9512 6-M16X1,5R	9512 10-M16X1,5R
9512 6-M22X1,5R	9512 10-M22X1,5R
9512 8-M10X1	9512 12-M12X1,5R
9512 8-M12X1,5R	9512 12-M14X1,5R
9512 8-M14X1,5R	9512 12-M16X1,5R
9512 8-M16X1,5R	9512 12-M22X1,5R
9512 8-M22X1,5R	9512 15-M16X1,5R
9512 10/7-M12X1,5R	9512 15-M22X1,5R
951210/7-M16X1,5R	9512 16/12-M16X1,5R
9512 10/7-M22X1,5R	9512 16/12-M22X1,5R
9512 10/7,5-M12X1,5R	9512 18-M22X1,5R



Supplied without any insert

Mod. D6512 4-M10X1





Straight fittings Mod. 9510

Mod.	
9510 6-02	
9510 05-02	



Straight fittings with female thread Mod. 9463

Mod.
9463 6-M12X1,5
9463 6-M16X1,5
9463 8-M10X1
9463 8-M16X1,5



Bulkhead connectors Mod. 9590

Mod.
9590 8-M18X1,5
9590 12-M18X1,5



€ CAMOZZI

Bulkhead connectors with 24° cone Mod. 9590

Supplied without nut; Combine with D1593

Mod.
9590 6-M14x1,5
9590 8-M14x1,5
9590 8-M16x1,5
9590 12-M18x1,5-S06



Bulkhead connectors Mod. 9592

Mod.
9592 8-M20X1,5-M16X1,5R
9592 10/7-M22X1,5-M22X1,5R
050212-M2/Y15-M16Y15D



Elbow fittings Mod. 9502

Mod.
9502 6-M10X1R
9502 6-M12X1,5R
9502 6-M16X1,5R
9502 6-M22X1,5R
9502 8-M10X1R
9502 8-M12X1,5R
9502 8-M14X1,5R
9502 8-M16X1,5R
9502 8-M22X1,5R
9502 8-1/8R
9502 10/7-M12X1,5R
9502 10/7-M16X1,5R
9502 10/7-M22X1,5R
9502 10/7,5-M12X1,5R

9502 10/7,5-M16X1,5R
9502 10/7,5-M22X1,5R
9502 10-M12X1,5R
9502 10-M16X1,5R
9502 10-M22X1,5R
9502 12-M12X1,5R
9502 12-M16X1,5R
9502 12-M22X1,5R
9502 15-M16X1,5R
9502 15-M22X1,5R
950216/12-M16X1,5R
9502 16/12-M22X1,5R
9502 18-M22X1,5R

Elbow fittings Mod. 9500

Mod.	
9500 6-02	
9500 05-02	
9500 12-06	



Branch Tee fittings Mod. 9412

Mod.	
9412 6-M10X1R	9412 10/7-M22X1,5R
9412 6-M12X1,5R	9412 10-M12X1,5R
9412 6-M16X1,5R	9412 10-M16X1,5R
9412 6-M22X1,5R	9412 10-M22X1,5R
9412 8-M12X1,5R	9412 12-M12X1,5R
9412 8-M16X1,5R	9412 12-M16X1,5R
9412 8-M22X1,5R	9412 12-M22X1,5R
9412 10/7-M12X1,5R	9412 15-M16X1,5R
9412 10/7-M16X1,5R	9412 15-M22X1,5R



Branch Tee fittings Mod. 9410

Mod.	
9410 6-02	
9410 05-02	



Run Tee fittings Mod. 9422

Mod.
9422 6-M10X1R
9422 6-M12X1,5R
9422 6-M16X1,5R
9422 8-M12X1,5R
9422 8-M16X1,5R
9422 8-M22X1,5R
9422 10-M16X1,5R
9422 10-M22X1,5R
9422 12-M16X1,5R
9422 12-M22X1,5R



Run Tee fittings Mod. 9420

Mod.	
9420 6-02	
9420 05-02	
	_



135° Elbow fittings Mod. 9102

Mod.
9102 12-M16X1,5R





Plug-In elbow connectors Mod. 9555

Mod.	
9555 6-6	
9555 8-8	
9555 12-12	



Y fittings Mod. 9450

Mod.
9450 8-M16X1,5R
9450 12-M16X1,5R
9450 12-M22X1.5R



Elbow fittings Mod. 9402

Mod.		
94028-M16X1,5R	1	
94028-M22X1,5R	₹	
940212-M16X1,5R	īR	_
9402 12-M22X1.5R	īR	Ī



Swivel studs Mod. D2912

Mod.
D2912 C1-M10X1B
D2912 C1-M12X1,5B
D2912 C1-M14X1,5B
D2912 C1-M16X1,5B/1*
D2912 C1-M22X1,5B/1*
D2912 C1-1/4

usable with Mod. 9707 anti-rotation ring; compare SW.





Bulkhead swivel studs Mod. D2993

Supplied without nut; Combine with D1593

Mod. D2993 C1-M16X1,5-M22X1,5/1*

* = usable with Mod. 9707 anti-rotation ring; compare SW.





Bulkhead swivel connectors Mod. 9919

Supplied without nut; Combine with D1593

Mod.	
9919 C1-8-M20X1,5/1*	
9919 C1-12-M24X1,5/1*	

* = usable with Mod. 9707 anti-rotation ring; compare SW.





Anti-rotation ring Mod. 9707

Mod.	
9707 22-C1	
9707 24-C1	
9707 28-C1	

Usable with Mod. D2912, D2993, 9919; compare SW.



Swivel Elbow fittings Mod. 9520

Mod.
9520 6-C1
9520 8-C1
9520 10/7-C1
9520 10/7,5-C1
9520 10-C1
9520 12-C1
9520 15-C1
9520 16/12-C1



Swivel branch Tee fittings Mod. 9430

Mod.
9430 6-C1
9430 8-C1
9430 10/7-C1
9430 10-C1
9430 12-C1
9430 15-C1



Swivel run Tee fittings Mod. 9440

Mod.	
9440 6-C1	
9440 8-C1	
9440 10/7-C1	
9440 10-C1	
9440 12-C1	
9440 15-C1	



Swivel Elbow adaptors Mod. D2220

Mod.	
D2220 M12X1,5-C1	
D2220 M16X1,5-C1	



Swivel branch Tee adaptors Mod. D2260

Mod.	
D2260 M12X1,5-C1	
D2260 M16X1.5-C1	



Swivel run Tee adaptors Mod. D2270

Мо	d.
D2	270 M12X1,5-C1
D2	270 M16X1,5-C1



Swivel 135° adaptors Mod. D2210

Mod.	
D2210 M16X1,5-C1	

Not compatible with anti rotation ring Mod. 9707



Straight connectors Mod. 9580

Mod.	
9580 6	
9580 8	
9580 10/7	
9580 10/7,5	
9580 10	
9580 12	
9580 12-8	
9580 15	
9580 16/12	
9580 18	



Bulkhead connectors Mod. 9592

Mod.	
9592 6-6-M18X1,5	
9592 8-8-M18X1,5	
9592 8-8-M20X1,5	
9592 12-8-M18X1,5	
9592 12-12-M24X1,5	
9592 15-15-M28X1,5	



Barb connectors Mod. 9851

Mod.	
98518-6	
985112-9	

* = Barb profile according to DIN 73377 | 9851 8-6 allows to connect 8x1 to 9x1,5 tubing



Tee connectors Mod. 9540

Mod.
9540 6
95408
9540 10/7
9540 10
9540 12
9540 15
9540 16/12
9540 8-8-6
9540 12-12-8



€ CAMOZZI

Y connectors Mod. 9560

Mod.	
95608	
956012	



Bulkhead adaptors Mod. D2502 and D2512

Mod.
D2502 M22X1,5R-M22X1,5R-M16X1,5-L=39
D2502 M22X1,5R-M22X1,5R
D2512 M22X1,5R-M16X1,5R



Bulkhead adaptors Mod. D2592

Supplied without nut; Combine with D1593

Mod.
D2592 M10X1-M16x1,5B-M16X1,5
D2592 M16X1,5-M16x1,5B-M22X1,5
D2592 M16X1,5-M22x1,5B-M22X1,5



Bulkhead reducers Mod. D2593

Supplied without nut; Combine with D1593

Mod.	
D2593 M12x1,5-M18x1,5	
D2593 M16X1,5-M22x1,5	
D2593 M22x1,5-M28x1,5	



Union Mod. D2543

Mod.	
D2543 M10X1/1	
D2543 M12X1,5/1	
D2543 M16X1,5/1	
D2543 M22X1,5/1	



Reducer Mod. D2532

Mod.	
D2532 M12X1,5-M16X1,5B	
D2532 M12X1,5-M22X1,5B	
D2532 M14X1,5-M16X1,5B	
D2532 M16X1,5-M22X1,5B	



Hose adaptors Mod. D2602

Mod.
D2602 10-M16X1,5B
D2602 10-M22X1,5B
D2602 11-M16X1,5B
D2602 11-M22X1,5B
D2602 12-M16X1,5B
D2602 12-M22X1,5B
D2602 13-M16X1,5B
D2602 13-M22X1,5B



Elbow adaptors Mod. D2022

Mod.
D2022 M16X1,5-M16X1,5R
D2022 M16X1,5-M22X1,5R
D2022 M22V1 E-M22V1 ED



Branch Tee adaptors Mod. D2062

Mod.
D2062 M16X1,5-M12X1,5R/1
D2062 M16X1,5-M16X1,5R
D2062 M16X1,5-M22X1,5R
D2062 M22X1,5-M22X1,5R/1



Run Tee adaptors Mod. D2072

Mod.
D2072 M16X1,5-M12X1,5R/1
D2072 M16X1,5-M16X1,5R
D2072 M16X1,5-M22X1,5R
D2072 M22X1,5-M22X1,5R/1



Branch Tee adaptors Mod. D2003

Mod.	
D2003 M16X1,5	



Branch Tee adaptors Mod. D2003...S01

D2003 M16X1,5-S01	
Mod.	





Cross adaptors Mod. D2032

Mod. D2032 M16X1,5-M16X1,5R D2032 M16X1,5-M22X1,5R

Bilateral Tee adaptors Mod. D2077

Mod. D2077 M16X1,5-M16X1,5R D2077 M16X1,5-M22X1,5R

Multiport adaptor Mod. D3043

Mod. D3043 M16X1,5-2D-M16X1,5-S01



Plug (inner hex.) Mod. D2612

Mod.
D2612 M12X1,5R
D2612 M16X1,5R
D2612 M22X1,5R

Plug (outer hex.) Mod. D2612

Mod.	
D2612 M10X1,5B	
D2612 M12X1,5B	
D2612 M16X1,5B	
D2612 M22X1,5B	

Test point valve Mod. VPC2

Mod.
VPC2 M16X1,5B-M16X1,5
VPC2 M22X1,5RBM16X1,5





Bulkhead with test point & tube connection Mod. VPC2

Mod. VPC2 M16X1,5-8-M18X1,5 VPC2 M16X1,5-8-M20X1,5



Drain valve Mod. VDC2

Mod.	
VDC2 M22X1,5B	
VDC2 M22X1,5B/1	
/1: drain valvo with ring	



Tyre inflator valve Mod. V604

V604 M22X1.5R	
Mod.	



Bulkhead nut Mod. D1593

Mod.	
D1593 M16x1,5	
D1593 M18x1,5	
D1593 M20x1,5	
D1593 M22x1,5	
D1593 M24x1,5	
D1593 M28x1,5	

Thread nut Mod. D1593

The nut is supplied with NBR O-Ring

Mod.
D1593 1/8R/1
D1593 M10x1/1
D1593 M12x1,5R/1
D1593 M14x1,5R/1
D1593 M16x1,5R/1
D1593 M22x1,5R/1

Tubes Mod. TRN

Black tubes in polyamide (PA12)

- According to standards:
 DIN 74324 (except for Mod. TRN 10/7-N)
 REACH REGULATION (EC N°1907/2006)
- EUROPEAN DIRECTIVE ROHS n° 2002/95/EC

Mod.
TRN 4/2 NX
TRN 6/4 NX
TRN 8/6 NX
TRN 10/7-N
TRN 10/7,5 N
TRN 10/8 NX
TRN 12/9 NX
TRN 15/12 NX
TRN 16/12 NX
TRN 18/14 NX





Release tool Mod. DRK

Material: technopolymer

Mod.
DRK 6
DRK 8
DRK 10
DRK 12
DRK 15
DRK 16
DRK 18



Tube cutting tools Mod. PNZ and PNZP

Mod.	
PNZ-12	For tubes with Ø up to 12 mm
PNZ-25	For tubes with Ø up to 25 mm
PNZP-12	For tubes with Ø up to 12 mm





New

GRIPfit push-in fittings Series 7000 - Automation

Tube external diameters: 4, 6, 8 mm

Fittings threads: ISO-965 Metric parallel (M5, M7, M10x1, M12x1,25),

ISO-7 BSPT (R1/8, R1/4, R3/8, R1/2), ISO-228 BSPP (G1/8, G1/4, G3/8, G1/2)







- » Optimum sealing
- » Maximum flow
- » Compact and lightweight

Series 7000 Automation push-in fittings are made of reinforced technopolymer to meet the new market demands for reliability, ease of use and efficient solutions. Their compact dimensions and lightweight make this new range of fittings ideal for most pneumatic applications associated with optimum gripping and sealing technologies.



ISO 14743:2020



Reach



RoHS

GENERAL DATA

Diameters		4mm	6mm	8mm	10mm	12mm	16mm
Maximum operating pressure	-20° / +40° +40° / +60° +60° / +80°	16 bar 16 bar 16 bar	16 bar 16 bar 14 bar	16 bar 15 bar 12 bar	- - -	- - -	- - -
Minimum operating pressure		-0,9 bar					
Temperature		-20 ÷ +80	(Vedere cara	atteristiche t	ubi impiega	nti)	
Threads		Cylindrical gas ISO-228 BSPP Conical gas ISO-7 BSPT (with pre-applied PTFE sealant) ISO-965 Metric parallel					
Connecting tube		Polyurethane (PU), Polyethylene (PE), Polyamide (PA), Fluoropolymer (PTFE), Polyester (HY3L), rigid metal pipe with smooth grooved metal end					
Fluid		Compressed air (for other fluids consult our technicians)					
Materials		Button = To Gripping r Seals = NB	echnopolym ing = Stainle	ess steel (AIS	·	orass	



Male straight connector Nickel-plated brass Thread BSPT ISO-7 (with pre-applied PTFE sealant)

Mod.	Ø	Mod.	Ø
G6510 4-1/8	4	G6510 10-1/8	10
G6510 4-1/4	4	G6510 10-1/4	10
G6510 6-1/8	6	G6510 10-3/8	10
G6510 6-1/4	6	G6510 10-1/2	10
G6510 6-3/8	6	G6510 12-1/4	12
G6510 6-1/2	6	G6510 12-3/8	12
G6510 8-1/8	8	G6510 12-1/2	12
G6510 8-1/4	8	G6510 16-1/2	16
G6510 8-3/8	8	G6510 16-3/4	16
G6510 8-1/2	8	Ø 10, 12, 16 availab	le soon



Fittings Mod. G6512

Male straight connector Nickel-plated brass Thread metric parallel ISO-965 and BSPP ISO-228

Mod.	Ø
G6512 4-M5	4
G6512 4-1/8	4
G6512 4-1/4	4
G6512 6-M5	6
G6512 6-M10X1	6
G6512 6-M12X1,5	6
G6512 6-1/8	6
G6512 6-1/4	6
G6512 6-3/8	6
G6512 6-1/2	6
G65128-M10X1	8
G65128-M12X1,5	8
G65128-1/8	8
G6512 8-1/4	8
G65128-3/8	8
G6512 8-1/2	8

Mod.	Ø
G6512 10-14	10
G6512 10-3/8	10
G6512 10-1/2	10
G6512 12-1/4	12
G6512 12-3/8	12
G6512 12-1/2	12
G6512 16-1/2	16
G6512 16-3/4	16

Ø 10, 12, 16 available soon



Fittings Mod. G6512_M

Male straight connector Nickel-plated brass Thread metric parallel ISO-965 and BSPP ISO-228

Mod.	Ø
G6512 4-M5-M	4
G6512 4-M7-M	4
G6512 4-1/8-M	4
G6512 6-M5-M	6
G6512 6-M7-M	6
G6512 6-1/8-M	6
G6512 6-1/4-M	6



Fittings Mod. G6463

Female straight connector Nickel-plated brass Thread metric parallel ISO-965 and BSPP ISO-228

Mod.	Ø	Mod.
G6463 4-M5	4	G64631
G6463 4-1/8	4	G6463 1
G6463 4-1/4	4	G6463 1
G6463 6-1/8	6	G6463 1
G6463 6-1/4	6	G6463 1
G6463 8-1/8	8	G6463 1
G6463 8-1/4	8	Ø 10. 12. 1
G6463 8-3/8	8	D 10/11/

Mod.	Ø	
G6463 10-1/4	10	
G6463 10-3/8	10	
G6463 10-1/2	10	
G6463 12-3/8	12	
G6463 12-1/2	12	
G6463 16-1/2	16	
Ø 10. 12. 16 available soon		



Fittings Mod. G6812

Male straight adaptor Nickel-plated brass Thread metric parallel ISO-965 and BSPP ISO-228

Mod.	Ø
G6812 4-M5	4
G6812 4-1/8	4
G6812 6-M5	6
G6812 6-1/8	6
G6812 6-1/4	6
G6812 6-3/8	6
G6812 8-1/8	8
G6812 8-1/4	8
G6812 8-3/8	8

Mod.	Ø	
G6812 10-1/4	10	
G6812 10-3/8	10	
G6812 12-14	12	
G6812 12-3/8	12	
G6812 16-1/2	16	
Ø 10, 12, 16 available soon		



Fittings Mod. G7523

Swivel female elbow Thread BSPP ISO-228

Mod.	Ø
G7523 4-1/8	4
G7523 4-1/4	4
G7523 6-1/8	6
G7523 6-1/4	6
G75238-1/8	8
G7523 8-1/4	8
C7537 0 7/0	

Ø
10
10

Ø 10 available soon



Fittings Mod. G7520

Swivel male elbow Thread BSPT ISO-7 (with pre-applied PTFE sealant)

Mod.	Ø	Mod.
G7520 4-1/8	4	G7520 10-
G7520 4-1/4	4	G7520 10-
G7520 6-1/8	6	G7520 10-
G7520 6-1/4	6	G7520 12-
G7520 6-3/8	6	G7520 12-
G7520 6-1/2	6	G7520 12-
G7520 8-1/8	8	G7520 16-
G7520 8-1/4	8	G7520 16-
G7520 8-3/8	8	Ø 10 12 16

Ø
10
10
10
12
12
12
16
16



Fittings Mod. G7522

Swivel male elbow Thread metric parallel ISO-965 and BSPP ISO-228

Mod.	Ø	Mod. Ø
G7522 4-M5	4	G7522 10-1/4 10
G7522 4-M7	4	G7522 10-3/8 10
G7522 4-1/8	4	G7522 10-1/2 10
G7522 4-1/4	4	G7522 12-1/4 12
G7522 6-M5	6	G7522 12-3/8 12
G7522 6-M7	6	G7522 12-1/2 12
G7522 6-M10x1	6	G7522 16-1/2 16
G7522 6-M12x1,5	6	G7522 16-3/4 16
G7522 6-1/8	6	Ø 10, 12, 16 available soon
G7522 6-1/4	6	2,,
G7522 6-3/8	6	
G7522 6-1/2	6	
G75228-M10X1	8	
G75228-M12X1,5	8	
G7E22 0_1 /0		



10

G75228-1/4 G75228-3/8

Swivel male long elbow Thread BSPT ISO-7 (with pre-applied PTFE sealant)

Mod.	Ø
G7527 4-1/8	4
G7527 6-1/8	6
G7527 6-1/4	6
G7527 8-1/8	8
G7527 8-1/4	8

Mod.	Ø
G7528 10-1/4	10
Ø 10 available soon	



Fittings Mod. G7526

Swivel male long elbow Thread metric parallel ISO-965 and BSPP ISO-228

Mod.	Ø
G7526 4-M5	4
G7526 4-1/8	4
G7526 4-1/4	4
G7526 6-M5	6
G7526 6-M7	6
G7526 6-1/8	6
G7526 6-1/4	6
G7526 8-1/8	8
G7526 8-1/4	8

Mod.	Ø
G7526 10-1/4	10
Ø 10 available soon	



€ CAMOZZI

Fittings Mod. G7430

Swivel male central tee Thread BSPT ISO-7 (with pre-applied PTFE sealant)

Mod.	Ø
G7430 4-1/8	4
G7430 6-1/8	6
G7430 6-1/4	6
G7430 8-1/8	8
G7430 8-1/4	8

Mod.	Ø
G7430 10-1/4	10
G7430 10-3/8	10
G7430 12-1/4	12
G7430 12-3/8	12
Ø 10, 12 available soon	



Fittings Mod. G7432

Swivel male central tee Thread metric parallel ISO-965 and BSPP ISO-228

Mod.	Ø
G7432 4-M5	4
G7432 4-1/8	4
G7432 6-M5	6
G7432 6-1/8	6
G7432 6-1/4	6
G7432 8-1/8	8
G7432 8-1/4	8
G7432 8-3/8	8

Mod.	Ø
G7432 10-1/4	10
G7432 10-3/8	10
G7432 12-1/4	12
G7432 12-3/8	12
G7432 16-1/2	16
G7432 16-3/4	16
Ø 10, 12, 16 available soon	



Fittings Mod. G7440

Swivel male lateral tee Thread BSPT ISO-7 (with pre-applied PTFE sealant)

Mod.	Ø
G7440 4-1/8	4
G7440 6-1/8	6
G7440 6-1/4	6
G7440 8-1/8	8
G7440 8-1/4	8

Mod.	Ø
G7441 10-1/4	10
G7442 12-1/4	12
G7443 12-3/8	12
Ø 10, 12 available soon	



Fittings Mod. G7442

Swivel male lateral tee Thread metric parallel ISO-965 and BSPP ISO-228

Mod.	Ø
G7442 4-M5	4
G7442 4-1/8	4
G7442 6-M5	6
G7442 6-1/8	6
G7442 6-1/4	6
G7442 8-1/8	8
G7442 8-1/4	8
G7442 8-3/8	8

Mod.	Ø
G7442 10-1/4	10
G7442 10-3/8	10
G7442 12-1/4	12
G7442 12-3/8	12
G7442 12-1/2	12
Ø 10, 13 available soon	



Fittings Mod. G7450

Swivel male Y Thread BSPT ISO-7 (with pre-applied PTFE sealant)

Mod.	Ø
G7450 4-1/8	4
G7450 6-1/8	6
G7450 6-1/4	6
G7450 8-1/8	8
G7450 8-1/4	8

Mod.	Ø
G7450 10-1/4	10
G7450 10-3/8	10
Ø 10 available soon	



Fittings Mod. G7562

Swivel male Y Thread BSPP ISO-228

Mod.	Ø
G7562 4-1/8	4
G7562 6-1/8	6
G7562 6-1/4	6
G7562 8-1/8	8
G7562 8-1/4	8

Mod.	Ø
G7562 10-1/4	10
G7562 10-3/8	10
Ø 10 available soon	



Fittings Mod. G7572

Swivel male double Y Thread BSPP ISO-228

Mod.	Ø
G7572 4-1/8	4
G7572 4-1/4	4
G7572 6-1/8	6
G7572 6-1/4	6





Swivel male single banjo Thread metric parallel ISO-965 and BSPP ISO-228

Mod.	Ø
G6622 4-M5*	4
G7622 4-1/8	4
G6622 6-M5*	6
G7622 6-1/8	6
G7622 6-1/4	6
G7622 8-1/8	8
G7622 8-1/4	8

* brass body

Mod.	Ø
G7622 10-1/4	10
G7622 10-3/8	10
G7622 12-3/8	12

Ø 10, 12 available soon



Fittings Mod. G7652

Swivel male Y banjo Thread BSPP ISO-228

Mod.	Ø	
G7652 4-1/8	4	
G7652 6-1/8	6	
G7652 6-1/4	6	c
G7652 8-1/8	8	•
G7652 8-1/4	8	

Mod.	Ø
G7652 10-1/4	10
G7652 10-3/8	10
Ø 10 available seen	

10 available soon



Fittings Mod. G7612 02

Male double single banjo adjustable Thread BSPP ISO-228

Mod.	Ø
G7612-02 4-1/8	4
G7612-02 6-1/8	6
G7612-02 6-1/4	6
G7612-02 8-1/8	8
G7612-02 8-1/4	8

Mod.	Ø
G7612-02 10-1/4	10
G7612-02 10-3/8	10
G7612-02 12-3/8	12

Ø 10, 12 available soon



Fittings Mod. G7612 03

Male triple single banjo adjustable Thread BSPP ISO-228

Mod.	Ø
G7612-03 4-1/8	4
G7612-03 6-1/8	6
G7612-03 6-1/4	6
G7612-038-1/8	8
G7612-038-1/4	8

Mod.	Ø
G7612-03 10-1/4	10
Ø 10 available soon	



Fittings Mod. G7642 02

Male double Y banjo adjustable Thread BSPP ISO-228

Mod.	Ø
G7642-02 4-1/8	4
G7642-02 6-1/8	6
G7642-02 6-1/4	6
G7642-02 8-1/8	8
G7642-02 8-1/4	8

Mod.	Ø
G7642-02 10-1/4	10
Ø 10 available soon	



Fittings Mod. G7642 03

Male triple Y banjo adjustable Thread BSPP ISO-228

Mod.	Ø
G7642-03 4-1/8	4
G7642-03 6-1/8	6
G7642-03 6-1/4	6
G7642-038-1/8	8
676//2-03 8-1//	Ω

Mod.	Ø
G7642-03 10-1/4	10
Ø 10 available soon	



Fittings Mod. G7610

To be assembled with Mod. 7632 02, 7632 03 Single banjo body

Mod.	Ø
G7610 4-1/8	4
G7610 6-1/8	6
G7610 6-1/4	6
G7610 8-1/8	8
G7610 8-1/4	8

Mod.	Ø
G7610 10-1/4	10
G7610 10-3/8	10
G7610 12-3/8	12
Ø 10. 12 available so	on



Fittings Mod. G7640

To be assembled with Mod. 7632 02, 7632 03 Y banjo body

Mod.	Ø
G7640 4-1/8	4
G7640 6-1/8	6
G7640 6-1/4	6
G7640 8-1/8	8
G7640 8-1/4	8

Mod.	Ø
G7640 10-1/4	10
Ø 10 available soon	



Fittings Mod. 7632 02

To be assembled with Mod. G7610, G7640 Double stem for banjo body

Mod.	
7632 02 1/8	
7632 02 1/4	



Fittings Mod. 7632 03

To be assembled with Mod. G7610, G7640 Triple stem for banjo body

Mod.	
7632 03 1/8	
7632 03 1/4	



€ CAMOZZI

Fittings Mod. G7555

Equal and reducer junction elbow

Mod.	Ø
G7555 4-4	4-4
G7555 4-6	4-6
G7555 6-4	6-4
G7555 6-6	6-6
G7555 6-8	6-8
G7555 8-6	8-6
G7555 8-8	8-8

Mod.	Ø
G7555 10-10	10-10
G7555 12-12	12-12
d.o. 12 11.11	

Ø 10. 12 available soon



Fittings Mod. G7435

Center adaptor tee

Mod.	Ø
G7435 4-4	4-4
G7435 6-6	6-6
G7435 8-8	8-8



Fittings Mod. G7445

Lateral adaptor tee

Mod.	Ø
G7445 4-4	4-4
G7445 6-6	6-6
G7445 8-8	8-8



Central adaptor Y

Mod.	Ø
G7565 4-4	4-4
G7565 6-6	6-6
G7565 8-8	8-8





Fittings Mod. G7800

Reducer junction straight

Mod.	Ø
G7800 4-6	4-6
G7800 4-8	4-8
G7800 6-8	6-8
G7800 6-10	6-10
G7800 6-12	6-12
G7800 8-10	8-10
G78008-12	8-12

Mod.	Ø
G7800 10-12	10-12
G7800 12-16	12-16





Fittings Mod. G6590

Bulkhead connector Nickel-plated brass Thread metric parallel ISO-965

Mod.	Ø	Mod.	Ø
G6590 4	4	G6590 10	10
G6590 6	6	G6590 12	12
G65908	8	Ø 10 12 available	soon .





Equal and reducer intermediate straight

Mod.	Ø
G7580 4	4
G7580 4-6	4-6
G7580 4-8	4-8
G7580 6	6
G7580 6-8	6-8
G75808	8

Ø
6-10
8-10
8-12
10
10-12
12
12-16
16

Ø 10. 12. 16 available soon



Fittings Mod. G7550

Equal and reducer intermediate elbow

Mod.	Ø	Mod.	Ø
G7550 4	4	G7550 8-10	8-10
G7550 4-6	4-6	G755010	10
G7550 6	6	G7550 10-12	10-12
G7550 6-8	6-8	G755012	12
G75508	8	G755016	16

Ø 10, 12, 16 available soon



Fittings Mod. G7540

Equal and reducer intermediate tee

Mod.	Ø
G7540 4	4
G7540 6	6
G7540 6-6-4	6-6-4
G75408	8
G7540 8-8-4	8-8-4
G7540 8-8-6	8-8-6

Mod.	Ø
G7540 10	10
G7540 10-10-8	10-10-8
G7540 12	12
G7540 12-12-10	12-12-10
G7540 16	16
G7540 16-16-12	16-16-12

Ø 10, 12, 16 available soon



Fittings Mod. G7545

Reducer intermediate multiple tee

Mod.	Ø	Mod.	Ø
G7545 6-4	6-4	G7545 10-6	10-6
G7545 8-4	8-4	G7545 10-8	10-8
G7545 8-6	8-6	Ø 10 available soon	



Fittings Mod. G7560

Equal and reducer intermediate Y

Mod.	Ø
G7560 4	4
G7560 6	6
G7560 6-4	6-4
G75608	8
67560 8-6	8-6

Ø	Mod.	Ø
4	G7560 10	10
6	G7560 10-8	10-8
6-4	G7560 12	12
8	G7560 12-10	12-10
8-6	Ø 10, 12 availabl	e soon



Fittings Mod. G7575

Equal and reducer intermediate double Y

Mod.	Ø
G7575 4	4
G7575 6-4	6-4
G7575 6	6
G7575 8-6	8-6



Accessory Mod. 6900

Plastic male plug

Mod.	Ø
6900 4	4
6900 6	6
69008	8
6900 10	10
6900 12	12



Fittings Mod. G6750

Female plug Nickel-plated brass

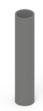
Mod.	Ø	Mod.	Ø
G6750 4	4	G6750 10	10
G6750 6	6	G6750 12	12
G67508	8	Ø 10. 12 availabl	e soon

Fittings Mod. 7950

Plastic Junction

Mod.	Ø
7950 4	4
7950 6	6
79508	8
7950 10	10
7950 12	12





New

GRIPfit push-in fittings Series 7000 - Cooling

Tube external diameters: 6, 8 mm

Fittings threads: ISO-228 BSPP (G1/8, G1/4, G3/8).







- » Resistant to water pressure and erosion
- » Dimensional stability with water contact
- » Resistant to corrosion

Series 7000 Cooling push-in fittings have been designed with a special technopolymer based on bio-sourced renewable raw materials that allow the component to resist water absorption, temperature variations and liquid cooling additives.



ISO 14743:2020



Reach



RoHS

GENERAL DATA

Diameters		6ШШ	8mm	TOMM	12111111	16MM
Maximum operating pressure	-20° / +40° +40° / +70° +60° / +100°	16 bar 14 bar 12 bar	16 bar 12 bar 10 bar	- - -	- - -	- - -
Minimum operating pressure		-0,9 bar				
Temperature		- 20 ÷ + 10	0 (See chara	acteristics of	tubes used)	
Threads		GAS cylind	rical ISO-228	8 BSPP		
Connecting tubes		,	. ,,	, , ,	PE), Polyami oved metal e	de (PA), Fluoropolymer (PTFE), Polyester (HY3L), end
Fluid		Industrial	water and c	ooling fluids	(for other f	luids consult our technicians)
Materials		Body = Technopolymer (PA11), Brass with chemical nickel plating Button = Technopolymer (PA66) Gripping ring = Stainless steel (AISI 301) Seals = EPDM Thread = Brass with chemical nickel plating				

10



Fittings Mod. W6512

Male straight connector Chemical nickel-plated brass Thread BSPP ISO-228

Mod.	Ø
W6512 6-1/8	6
W6512 6-1/4	6
W6512 8-1/8	8
W6512 8-1/4	8
W6512 8-3/8	8

Mod.	Ø
W6512 10-1/4	10
W6512 10-3/8	10
W6512 10-1/2	10
W6512 12-3/8	12
W6512 12-1/2	12
W6512 16-1/2	16
W6512 16-3/4	16

Ø 10, 12, 16 available soon



Fittings Mod. W6463

Female straight connector Chemical nickel-plated brass Thread BSPP ISO-228

Mod.	Ø	Mod.	Ø
W6463 6-1/8	6	W6463 10-1/4	10
W6463 6-1/4	6	W6463 10-3/8	10
W6463 8-1/8	8	W6463 10-1/2	10
W6463 8-1/4	8	W6463 12-3/8	12
W6463 8-3/8	8	W6463 12-1/2	12
		W6463 16-1/2	16
		M4647147/6	1.4





Ø 10, 12, 16 available soon

Fittings Mod. W6750

Female plug Chemical nickel-plated brass

Ø
6
8

Mod.	Ø
W6750 10	10
W6750 12	12
W6750 16	16

Ø 10, 12, 16 available soon



Fittings Mod. W6812

Male straight adaptor Chemical nickel-plated brass Thread BSPP ISO-228

Mod.	Ø
W6812 6-1/8	6
W6812 6-1/4	6
W6812 8-1/8	8
W6512 8-1/4	8
W6512 8-3/8	8

MOG.	Ø
W6512 10-1/4	10
W6512 10-3/8	10
W6512 10-1/2	10
W6512 12-3/8	12
W6512 12-1/2	12
W6512 16-1/2	16
W6512 16-3/4	16





Fittings Mod. W7522

Swivel male elbow Thread BSPP ISO-228

Mod.	Ø
W7522 6-M5	6
W7522 6-1/8	6
W7522 6-1/4	6
W7522 8-1/8	8
W7522 8-1/4	8
W7522 8-3/8	8

Mod.	Ø
W7522 10-1/4	10
W7522 10-3/8	10
W7522 10-1/2	10
W7522 12-3/8	12
W7522 12-1/2	12
W7522 16-1/2	16
W7522 16-3/4	16





Fittings Mod. W7526

Swivel male long elbow Thread BSPP ISO-228

Mod.	Ø
W7526 6-1/8	6
W7526 6-1/4	6
W7526 8-1/8	8
W7526 8-1/4	8
W7526 8-3/8	8

Mod.	Ø
W7526 10-1/4	10
W7526 10-3/8	10
W7526 10-1/2	10
W7526 12-3/8	12
W7526 12-1/2	12
W7526 16-1/2	16
W7526 16-3/4	16





Fittings Mod. W7800

Reducer junction straight

Mod.	Ø
W7800 4-6	4-6
W7800 4-8	4-8
W7800 6-8	6-8
W7800 6-10	6-10
W7800 6-12	6-12
W7800 8-10	8-10
W7800 8-12	8-12

Mod.	Ø
W7800 10-12	10-12
Ø 10 available soon	



Fittings Mod. W7555

Equal junction elbow

Mod.	Ø
W7555 6-6	6-6
W7555 8-8	8-8

Mod.	Ø
W7555 10-10	10-10
W7555 12-12	12-12

Ø 10, 12 available soon



Fittings Mod. W7580

Equal intermediate straight

Mod.	Ø
W7580 6	6
W7580 8	8

Mod.	Ø
W7580 10	10
W7580 12	12
W7580 16	16

Ø 10, 12, 16 available soon



Fittings Mod. W7550

Equal intermediate elbow

Mod.	Ø
W75506	6
W75508	8

Mod.	Ø
W755010	10
W755012	12
W755016	16

Ø 10, 12, 16 available soon



Fittings Mod. W7540

Equal intermediate tee

MOU.	ש
W7540 6	6
W75408	8
Mod.	Ø
W7540 10	10
W7540 12	12
W7540 16	16



Fittings Mod. W7545

Reducer intermediate multiple tee

Mod.	Ø	
W7545 8-6	8	
Mod.	Ø	
W7545 10-8	10	
Ø 10 available sc	ion	500

Fittings Mod. W7560

Equal intermediate Y

Mod.	Ø
W7560 6	6
W75608	8
Mod.	Ø
W7560 10	10





Accessory Mod. 6900 (see page 348) Plastic male plug - Fittings Mod. 7950 (see page 348) Plastic Junction



New

GRIPfit push-in fittings Series 7000 - Beverage and Water filtration

Tube external diameters: 4, 6, 8 mm

Fittings threads: ISO-228 BSPP (G1/8, G1/4, G3/8).







- » Bio-souced materials (composite)
- » Low Lead Brass (CW510L)
- » Easy connection and disconnection

Series 7000 Beverage and Water filtration is a new range of push-in fittings made of reinforced bio-sourced technopolymer and low lead brass. Thanks to the materials and new connection technology, these fittings are ideal for beverage dispensing and water filtration systems.

*Check the NSF certified models here: https://www.nsf.org/certified-products-systems

** NSF169 and NSF61 currently available for brass straight fittings. Available for full range soon.



ISO 14743:2020





RoHS



Regulation (CE) n. 2023/2006





Regulation (CE) n. 1935/2004 n. 2023/2006



DM174 **Drinking Water**



NSF169* **



NSF61**



21 CFR compliance

GENERAL DATA

Diameters		4mm	6mm	8mm
Maximum operating pressure	-20° / +40° +40° / +70° +70° / +100°	16 bar 16 bar 16 bar	16 bar 14 bar 12 bar	16 bar 12 bar 10 bar
Minimum operating pressure		-0,9 bar		
Temperature		-20 ÷ +100 (See characteristics of tubes used)		
Threads		GAS cylindrical ISO-228 BSPP		
Connecting tube		Polyurethane (PU), Polyethylene (PE), Polyamide (PA), Fluoropolymer (PTFE), Polyester (HY3L), rigid metal pipe with smooth grooved metal end		
Fluid		Drinking and mains water, beverages and gas (for other fluids consult our technicians)		
Materials		Button = Te	echnopolym ng = Stainle	r (PA11), low lead brass (CW510L) ner (PA66) ess steel (AISI 301)

10

Thread = Low lead brass (CW510L)



Male straight connector Low lead brass (CW510L) Thread BSPP ISO-228

Mod.	Ø
B6512 4-1/8	4
B6512 4-1/4	4
B6512 6-1/8	6
B6512 6-1/4	6
B65128-1/8	8
B65128-1/4	8
B65128-3/8	8



Fittings Mod. B6812

Male straight adaptor Low lead brass (CW510L) Thread BSPP ISO-228

Mod.	Ø
B6812 4-1/8	4
B6812 4-1/4	4
B6812 6-1/8	6
B6812 6-1/4	6
B6812 8-1/8	8
B6812 8-1/4	8
B6812 8-3/8	8



Fittings Mod. B7522

Swivel male elbow Thread BSPP ISO-228

Mod.	Ø
B7522 4-1/8	4
B7522 4-1/4	4
B7522 6-1/8	6
B7522 6-1/4	6
B75228-1/8	8
B75228-1/4	8
B75228-3/8	8



Fittings Mod. B7800

Reducer junction straight

Mod.	Ø
B7800 4-6	4
B7800 4-8	4
B7800 6-8	6



Fittings Mod. B7555

Equal junction elbow

Mod.	Ø
B7555 4-4	4-4
B7555 6-6	6-6
B7555 8-8	8-8



Fittings Mod. B7580

Equal intermediate straight

Mod.	Ø
B7580 4	4
B7580 6	6
B7580 8	8



Fittings Mod. B7550

Equal intermediate elbow

Mod.	Ø
B7550 4	4
B75506	6
B75508	8



Fittings Mod. B7540

Equal intermediate tee

Mod.	Ø
B7540 4	4
B7540 6	6
D7E//0 0	0



Fittings Mod. B7560

Equal intermediate Y

Mod.	Ø
B7560 4	4
B7560 6	6
B75608	8



Accessory Mod. B6900

Plastic male plug

Mod.	Ø
B6900 4	4
B6900 6	6
B69008	8





New

GRIPfit push-in fittings Series 7000 - Medical

Tube external diameters: 4, 6, 8 mm

Fittings threads: ISO-228 BSPP (G1/8, G1/4),

ISO-965 Metric parallel (M5)







- » Oxygen compatibility according to ASTM G93/G93M -19
- » Excellent resistance to humidity absorption
- » Excellent chemical resistance

Series 7000 Medical push-in fittings are designed for the Life Science market, particularly for medical and analytical applications. These fittings are mainly made from bio-based materials and are compatible with most medical gases and fluids.



ISO 14743:2020



Reach



RoHS



ASTM G93/G93M-19

GENERAL DATA

Diameters		4mm	6mm	8mm	10mm
Maximum operating pressure	-20° / +40° +40° / +70° +70° / +100°	16 bar 16 bar 16 bar	16 bar 14 bar 12 bar	16 bar 12 bar 10 bar	- - -
Minimum operating pressure		-0,9 bar			
Temperature		-20 ÷ +100	(See chara	cteristics of 1	ubes used)
Threads		GAS cylindrical ISO-228 BSPP ISO-965 Metric parallel			
Connecting tubes	Connecting tubes Polyamide (PA 6- PA11 - PA12), Polyurethane (PU), Fluoropolymer (FEP), rigid metal pipe with smooth grooved metal end				
Fluid		Oxygen ar	ıd medical g	jases (for otl	ner fluids consult our technicians)
Materials		Button = To Gripping ri Seals = EPI	echnopolym ing = Stainle DM	. ,,	,



Fittings Mod. W6512 OX1

Male straight connector Chemical nickel-plated brass Thread metric parallel ISO-965 and BSPP ISO-228

Mod.	Ø
W6512 4-M5-0X1	4
W6512 4-1/8-0X1	4
W6512 6-M5-0X1	6
W6512 6-1/8-0X1	6
W6512 6-1/4-0X1	6
W6512 8-1/8-0X1	8
W6512 8-1/4-0X1	8

Mod.	Ø
W6512 10-1/4-0X1	10
Ø 10 available soon	



Fittings Mod. W7522 OX1

Swivel male elbow Thread metric parallel ISO-965 and BSPP ISO-228

Mod.	Ø
W7522 4-M5-0X1	4
W7522 4-1/8-0X1	4
W7522 6-M5-0X1	6
W7522 6-1/8-0X1	6
W7522 6-1/4-0X1	6
W7522 8-1/8-0X1	8
W7522 8-1/4-0X1	8

Mod.	Ø
W7522 10-1/4-0X1	10
Ø 10 available soon	



Fittings Mod. W7800 OX1

Reducer junction straight

Mod.	Ø
W7800 4-6-0X1	4
W7800 4-8-0X1	4
W7800 6-8-0X1	6

Mod.	Ø
W7800 10-6-0X1	10
W7800 10-8-0X1	10
Ø 10 available soon	



Fittings Mod. W7555 OX1

Equal junction elbow

Mod.	Ø
W7555 4-4-0X1	4
W7555 6-6-0X1	6
W7555 8-8-0X1	8

Mod.	Ø
W7555 10-10-0X1	10
Ø 10 available soon	



Fittings Mod. W7580 OX1

Equal intermediate straight

Mod.	Ø
W7580 4-0X1	4
W7580 6-0X1	6
W7580 8-0X1	8

Mod.	Ø
W7580 10-0X1	10
Ø 10 available soon	



Fittings Mod. W7550 OX1

Equal intermediate elbow

Mod.	Ø	Mod.
W7550 4-0X1	4	W7550 10-0X
W7550 6-0X1	6	Ø 10 available s
W7550 8-0X1	8	p ro dvallable i
W7550 8-0X1	8	



Fittings Mod. W7540 OX1

Equal intermediate tee

Mod.		Ø
W75	40 6 -OX1	6
W75	40 8-0X1	8

Mod.	Ø
W7540 10-0X1	10



Fittings Mod. W7560 OX1

Equal intermediate Y

Mod.	Ø
W7560 4-0X1	4
W7560 6-0X1	6
W7560 8-0X1	8

Mod.	Ø
W7560 10-0X1	10
Ø 10 available soon	



Accessory Mod. B6900

Plastic male plug

Mod.	Ø
B6900 4	4
B6900 6	6
B69008	8





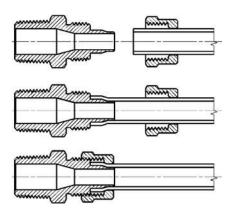
Brass rapid push-on fittings for plastic tubes Series 1000

Tube external diameters: 5/3, 6/4, 8/6, 10/8, 12/10, 15/12,5 mm Fittings threads: metric (M5, M6, M12x1, M12x1, 25),

BSP (G1/8, G1/4, G3/8, G1/2), BSPT (R1/8, R1/4, R3/8, R1/2)



Series 1000 rapid push-on fittings can be easily installed. The push-on locking nuts can be tightened both manually and with a spanner even in case of stiff tubes like the PA or the Hytrel Polyester. The special shape of the guiding cone ensures that the tube cannot be accidentally cut.



GENERAL DATA

5/3 - 6/4 - 8/6 - 10/8 - 12/10 - 15/12,5 mm **Diameters**

GAS conical ISO 7 (BSPT) Threads

GAS cylindrical ISO 228 (BSP)

M5 - M6 NPT and metric (available on request)

Temperature

 ${\tt NOTE:} \ for \ a \ better \ use \ of \ the \ fitting \ we \ recommend \ to \ check \ the \ tubing \ specifications$

PA polyethylene braided PVC rilsan PU, Hytrel Polyester Tube to connect

Medium compressed air low pressure fluids body and nut: nickel-plated brass Materials

O-rina: NBR

thread seals: PTFE, PA, AL

Working pressure the nominal pressure of the fittings is always higher than the pressure of the tube



Metric-BSPT Male Connector

Mod.	
1510 5/3-1/8	1510 10/8-1/4
1510 6/4-1/8	1510 10/8-3/8
1510 6/4-1/4	1510 10/8-1/2
1510 6/4-3/8	1510 12/10-3/8
1510 6/4-1/2	1510 12/10-1/2
1510 6/4-M12x1,25	1510 15/12,5-1/2
1510 8/6-1/8	
1510 8/6-1/4	
1510 8/6-3/8	



Fittings Mod. 1511

1511 8/6-1/4

1511 8/6-3/8

Metric Male Connector Sprint®

Mod.		
1511 5/3-M5	*	1511 10/8-1/8
1511 5/3-M6	*	1511 10/8-1/4
1511 5/3-1/8		1511 10/8-3/8
1511 6/4-M5	*	1511 10/8-1/2
1511 6/4-M6	*	1511 12/10-3/8
1511 6/4-1/8		1511 12/10-1/2
1511 6/4-1/4		1511 15/12,5-1/2
1511 6/4-3/8		* = with O-Ring
1511 8/6-1/8		o king



Fittings Mod. 1560

1510 8/6-1/2

1510 10/8-1/8

Swivel Male Connector Sprint®

Mod.
1560 6/4-1/8
1560 6/4-1/4
1560 8/6-1/8
1560 8/6-1/4
1560 10/8-1/4
1560 10/8-3/8
1560 12/10-3/8



Fittings Mod. 1463

BSP Female Connector

MOG.
1463 5/3-1/8
1463 6/4-1/8
1463 6/4-1/4
1463 6/4-3/8
1463 8/6-1/8
1463 8/6-1/4
1463 8/6-3/8
1463 10/8-1/8
1463 10/8-1/4
1463 10/8-3/8



1463 10/8-1/2 1463 12/10-3/8

Fittings Mod. 1541

Swivel Male Elbow Sprint®

Mod.	
1541 6/4-1/8	
1541 6/4-1/4	
1541 8/6-1/8	
1541 8/6-1/4	
1541 10/8-1/4	



Fittings Mod. 1500

Fix Metric-BSPT Male Elbow

Mod.	
1500 5/3-1/8	1500
1500 6/4-1/8	1500
1500 6/4-1/4	1500
1500 6/4-3/8	1500
1500 6/4-M12x1,25	1500
1500 8/6-1/8	
1500 8/6-1/4	
1500 8/6-3/8	
1500 8/6-1/2	
1500 10/8-1/8	
1500 10/8-1/4	

1500 10/8-3/8
1500 10/8-1/2
1500 12/10-3/8
1500 12/10-1/2
1500 15/12,5-1/2



Fittings Mod. 1501 5/3-M5

Metric Fix Male Elbow

1501	E/Z_ME
Mod.	



Fittings Mod. 1493

BSP Female Elbow

Mod.
1493 6/4-1/8
1493 6/4-1/4
1493 8/6-1/8
1493 8/6-1/4
1493 10/8-1/4
1493 12/10-3/8



Fittings Mod. 1431

Swivel Male Tee Sprint®

Mod.
1431 6/4-1/8
1431 6/4-1/4
1431 8/6-1/8
1431 8/6-1/4
1431 10/8-1/4



Fittings Mod. 1410

BSPT Fix Male Tee

Mod.
1410 5/3-1/8
1410 6/4-1/8
1410 6/4-1/4
1410 8/6-1/8
1410 8/6-1/4
1410 10/8-1/8
1410 10/8-1/4
1410 10/8-1/2
1410 12/10-3/8
1410 12/10-1/2
1410 15/12,5-1/2



Fittings Mod. 1420

Lateral BSPT Male Tee

Mod.	
1420	5/3-1/8
1420	6/4-1/8
1420	6/4-1/4
1420	8/6-1/8
1420	8/6-1/4
1420	10/8-1/8
1420	10/8-1/4



Fittings Mod. 1610

Single Banjo

assembled with Mod.
1631, 1635
SCU, SVU, SCO
1631, 1635, SCU, SVU, SCO
1631, 1635
SCU, SVU, SCO
1631, 1635, SCU, SVU, SCO
1631, 1635, SCU, SVU, SCO
1631, 1635, SCU, SVU, SCO
1631, 1635, SCU, SVU, SCO
1631, 1635, SCU, SVU, SCO
1631, 1635, SCU, SVU, SCO

	Mod.	assembled with Mod.
	1610 10/8-1/8	1635, SCU, SVU, SCO
	1610 10/8-1/4	1635, SCU, SVU, SCO
	1610 10/8-3/8	1635, SCU, SVU, SCO
	1610 10/8-1/2	1635
	1610 12/10-3/8	1635, SCU, SVU, SCO
	1610 12/10-1/2	1635
	1610 15/12,5-1/2	1635
_		



Fittings Mod. 1635 01

Single Long Banjo Stem

* = models that can be assembled with 1/4 banjo fittings

Assembled with adjustable fittings Mod. 6610; 6620; 1610; 1620; 2023; 1170

Fittings Mod. 1631 03

Assembled with adjustable fittings Mod. 6610; 6620; 1610; 1620; 2023; 1170

Triple Banjo Stem

Mod 1631 03-1/8 1631 03-1/4 1631 03-3/8

Mod. 1635 01-1/8 1635 01-1/4 1635 01-3/8 1635 01-1/2 1635 01-M12x1,25 1635 01-M12x1,5

€₹ CAMOZZI

Fittings Mod. 1620

Double Banjo

Mod.	assembled with Mod.
15606/4-1/8	1631, 1635
15606/4-1/4	1631, 1635, SCU, SVU, SCO
15608/6-1/8	1631, 1635, SCU, SVU, SCO
15608/6-1/4	1631, 1635, SCU, SVU, SCO
156010/8-1/4	1631, 1635, SCU, SVU, SCO



Fittings Mod. 1631 01

Single Banjo Stem

Mod.	
MOU.	
1631 01-M5	*
1631 01-1/8	
1631 01-1/4	
1631 01-3/8	
1631 01-1/2	

* = zinc-plated steel



Assembled with adjustable fittings Mod. 6610; 6620; 1610; 1620; 2023; 1170

Fittings Mod. 1635 02 Double Long Banjo Stem

Mod.
1635 02-1/8
1635 02-1/4
1635 02-3/8
1635 02-1/2



Assembled with adjustable fittings Mod. 6610; 6620; 1610; 1620; 2023; 1170

Fittings Mod. 1550

Elbow Connector





Fittings Mod. 1631 02 Double Banjo Stem

Mod.
1631 02-1/8
1631 02-1/4
1631 02-3/8



Assembled with adjustable fittings Mod. 6610; 6620; 1610; 1620; 2023; 1170

Fittings Mod. 1580

Union Connector

Mod.

1580 5/3

1580 6/4 1580 8/6

1580 10/8

1580 12/10 1580 15/12,5 1580 8/6-6/4 1580 10/8-6/4

Fittings Mod. 1590

Bulkhead Union Reducer

Mod.
1590 5/3
1590 6/4
1590 8/6
1590 10/8
1590 12/10
1590 6/4-5/3
1590 8/6-6/4



Fittings Mod. 1470 Adaptor with Junction

Mod.	
1470 6/4	
1470 8/6	



Fittings Mod. 1540

Tee Connector

Mod.
1540 5/3
1540 6/4
1540 8/6
1540 10/8
1540 12/10
1540 15/12,5
1540 8/6-6/4
1540 10/8-6/4
1540 10/8-8/6



Fittings Mod. 1600

Cross Connector

Mod.	
1600 6/4	
1600 8/6	



Accessories Mod. 2661

Plastic Washer

Mod.	
2661 M3	2661 1/4
2661 M5	2661 3/8
2661 M6	2661 1/2
2661 1/8	•



Accessories Mod. 2665

Plastic Washer

Mod.
2665 1/8
2665 1/4
2665 3/8
2665 1/2



Accessories Mod. 2669

Accessories Mod. 2651

Aluminium Washer

Mod. 2651 1/8 2651 1/4 2651 3/8 2651 1/2 26511

Plastic Washer

Mod.	
2669 1/8	
2669 1/4	
2669 3/8	
2669 1/2	



Accessories Mod. 1703

Blocking nut

Mod.
1703 5/3-M7x0,75
1703 6/4-M8x0,75
1703 6/4-M10x1
1703 8/6-M12x1
1703 10/8-M14x1
1703 12/10-M16x1
1703 15/12,5-M20x1



Accessories Mod. 1723

Blocking nut with metal spring

Mod.
1723 6/4-M10x1
1723 8/6-M12x1
1723 10/8-M14x1
1723 12/10-M16x1
1723 15/12,5-M20x1





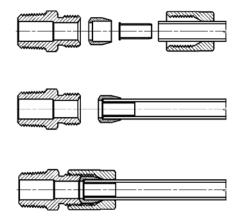
Brass universal nose fittings Series 1000

Nose fittings for plastic, copper and brass tubes: Ø 4, 6, 8, 10, 12 mm Fittings threads: BSP (G1/8, G1/4), BSPT (R1/8, R1/4, R3/8, R1/2)



Series 1000 nose fittings are used with plastic tubes as well as with copper, brass, steel and aluminium tubes. These fittings, which are suitable for several applications, can be used within pneumatic, oil-pressure and low-pressure hydraulic circuits.

The fittings seats, noses and nuts comply with the DIN 3870-3861 standards.



GENERAL DATA

Diameters Ø 4 - 6 - 8 - 10 - 12 mm

Threads GAS, conical ISO 7 (BSPT) GAS, cylindrical ISO 228 (BSP)

Temperature see data for tubing used

Connecting tube annealed copper and plastic tubes (with reinforcement)

Medium compressed air and other low pressure fluids

Materials nickel-plated brass
Working pressure max 40 bar

€ CAMOZZI

Fittings Mod. 1050

BSPT Male Connector

Mod.		
1050 4-1/8	1050 12-1/4	*
1050 6-1/8	1050 12-3/8	*
1050 6-1/4	1050 12-1/2	*
1050 8-1/8	* = with bi-con	ical
1050 8-1/4	olive	
1050 8-3/8		
1050 10-1/4		
1050 10-3/8		



Fittings Mod. 1063

BSP Female Connector

Mod.
1063 4-1/8
1063 6-1/8
1063 6-1/4
1063 8-1/8
1063 8-1/4



Fittings Mod. 1020

BSPT Fix Male Elbow

Mod.			
1020 4-1/8	1020 12-1/4	*	
1020 6-1/8	1020 12-3/8	*	
1020 6-1/4	1020 12-1/2	*	
1020 8-1/8	* = with bi-cor	nical	
1020 8-1/4	olive	-	-01
1020 8-3/8		(2)	
1020 10-1/4			
1020 10-3/8		43	
1020 10-1/2		1	

Fittings Mod. 1093

BSP Female Elbow

	Mod.
	1093 4-1/8
	1093 6-1/8
	1093 6-1/4
ı	1093 8-1/8
	1093 8-1/4

1050 10-1/2



Fittings Mod. 1000

BSPT Fix Male Tee

Mod.
1000 4-1/8
1000 6-1/8
1000 8-1/4
1000 10-1/4



Fittings Mod. 1010

Lateral BSPT Fix Male Tee

Mod.
1010 4-1/8
1010 6-1/8
1010 8-1/4
1010 10-1/4



Fittings Mod. 1230

Union Connector

Mod.	
1230 4	
1230 6	
12308	
1230 10	
1230 12	*

* = with bi-conical olive



Fittings Mod. 1250

Bulkhead Connector

Mod.	
1250 4	
1250 6	
12508	
1250 10	



Fittings Mod. 1220

Elbow Connector

Mod.	
12204	
12206	
12208	
1220 10	
1220 12	*

* = with bi-conical olive



Fittings Mod. 1210

Tee Connector

Mod.	
12104	
12106	
12108	
1210 10	
1210 12	*

★ = with bi-conical olive



Fittings Mod. 1170

Single Banjo

Mod.	assembled with Mod.
1170 6-1/8	1631, 1635, SCU, SVU, SCO
1170 6-1/4	1631, 1635, SCU, SVU, SCO
1170 8-1/8	1635, SCU, SVU, SCO



Accessories Mod. 1303

Blocking nut

Mod.
1303 4-1/8
1303 6-1/8
1303 8-1/4
1303 10-3/8
1303 12-M18x1,5



Accessories Mod. 1310

Olive and Bicone

Mod.	
1310 4	
1310 6	
13108	
1310 10	
1310 12-M18	*

* = with bi-conical olive



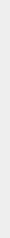
Accessories Mod. 1320

Inserts

Mod.
1320 4
1320 6
13208
1320 10







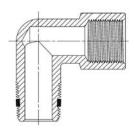
Brass pipe fittings Sprint ® Series \$2000

Fittings threads: BSP (G1/8, G1/4, G3/8, G1/2), BSPT (R1/8, R1/4, R3/8, R1/2)



Series S2000 pipe fittings are characterized by great reliability of female threads, both BSP and BSPT, with non-flat surfaces. The pantented Sprint models are provided with a particular torque system which avoids the use of liquid glues or PTFE band, making thus the mounting quicker.

Thanks to this system the connection and disconnection of the fitting can be repeated several times without compromising the seal on the thread.



GENERAL DATA

Threads GAS conical ISO 7 (BSPT)

GAS cylindrical ISO 228 (BSP)

Temperature -40°C ÷ 120°C (mod. 2541 and 2612: -20°C ÷ 80°C)

Medium compressed air and other low pressure fluids

Materials nickel-plated brass and PTFE

Working pressure 80 bar

Fittings Mod. S2500

BSPT Nipple Sprint®

Mod.
S2500 1/8
S2500 1/4
\$2500 3/8
\$2500.1/2



Fittings Mod. \$2530

BSPT Reducting Nipple Sprint®

Mod.
S2530 1/4-1/8
\$2530 3/8-1/8
S2530 1/2-1/8
\$2530 3/8-1/4
S2530 1/2-1/4
S2530 1/2-3/8



Fittings Mod. S2520

BSPT Male Reducting Extension Sprint®

Mod.
S2520 1/8-1/8
S2520 1/8-1/4
S2520 1/8-3/8
S2520 1/4-1/4
\$2520 1/4-3/8
S2520 1/4-1/2
\$2520 3/8-3/8
\$2520 3/8-1/2
S2520 1/2-1/2



€ CAMOZZI

Fittings Mod. \$2510

BSPT Reducing Sprint®

Mod.
S2510 1/8-1/4
S2510 1/8-3/8
S2510 1/4-3/8
S2510 1/4-1/2
S2510 3/8-1/2



Fittings Mod. 2541

BSPT Swivel Male Nipple Sprint®

Mod.
2541 1/8-1/8
2541 1/4-1/4
2541 3/8-3/8



Fittings Mod. S2010

BSPT Male Elbow Sprint®

Mod.
S2010 1/8
S2010 1/4
S2010 3/8
S2010 1/2



Fittings Mod. S2020

Male Female Elbow Sprint®

Mod.
S2020 1/8-1/8
S2020 1/4-1/4
S2020 3/8-3/8
S2020 1/2-1/2



Fittings Mod. S2050

M.M.F. Tee Sprint®

Mod.	
S2050 1/8-1/8	
S2050 1/4-1/4	
S2050 3/8-3/8	
S2050 1/2-1/2	



Fittings Mod. S2060

F.M.F. Tee Sprint®

Mod.
S2060 1/8-1/8
S2060 1/4-1/4
52060 3/8-3/8
S2060 1/2-1/2



Fittings Mod. S2070

M.F.F. Tee Sprint®

Mod.
S2070 1/8-1/8
S2070 1/4-1/4
S2070 3/8-3/8
S2070 1/2-1/2



Fittings Mod. S2080

Male Tee Sprint®

Mod.
S2080 1/8
S2080 1/4
S2080 3/8
S2080 1/2



Fittings Mod. S2090

M.F.M. Tee Sprint®

Mod.
S2090 1/8-1/8
S2090 1/4-1/4
S2090 3/8-3/8
52090 1/2-1/2



Fittings Mod. 2612

BSP Male Plug

Mod.
2612 M5
2612 M7
2612 1/8
2612 1/4
2612 3/8
2612 1/2



Fittings Mod. S2610

BSP Male Plug Sprint®

Mod.
S2610 1/8
S2610 1/4
S2610 3/8
S2610 1/2



Fittings Mod. S2615

BSPT Male Plug Tapper Sprint®

Mod.
S2615 1/8
S2615 1/4
S2615 3/8







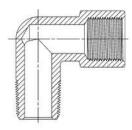
Brass pipe fittings Series 2000



Fittings threads: metric (M5), BSP (G1/8, G1/4, G3/8, G1/2, G3/4, G1), BSPT (R1/8, R1/4, R3/8, R1/2, R3/4, R1)



The wide range of Camozzi pipe fittings, which includes straight, L and Tee, Cross piece male or female couplings, guarantees the necessary support during the design of compressed air systems.



GENERAL DATA

Threads GAS conical ISO 7 (BSPT)
GAS cylindrical ISO 228 (BSP)

Temperature -40°C ÷ 120°C

Medium compressed air or other low pressure fluids

Materials nickel-plated brass

Working pressure 80 bar

Fittings Mod. 2500

BSPT Nipple

Mod.
2500 1/8
2500 1/4
2500 3/8
2500 1/2
2500 3/4
2500 1



Fittings Mod. 2501

Metric-BSP Nipple

Mod.	
2501 M5	
2501 1/8	
2501 1/4	
2501 3/8	
2501 1/2	



Fittings Mod. 2510

BSPT Reducing Nipple

Mod.
2510 1/8-1/4
2510 1/8-3/8
2510 1/4-3/8
2510 1/4-1/2
2510 3/8-1/2
2510 1/2-3/4



€ CAMOZZI

Fittings Mod. 2520

BSPT Male Reducing Extension

Mod.
2520 1/8-1/8
2520 1/8-1/4
2520 1/8-3/8
2520 1/4-1/4
2520 1/4-3/8
2520 1/4-1/2
2520 3/8-3/8
2520 3/8-1/2
2520 1/2-1/2



Fittings Mod. 2521

Metric-BSP Reducing Extension

Mod.
2521 M5-1/8
2521 1/8-1/8
2521 1/8-1/4
2521 1/8-3/8
2521 1/4-1/4
2521 1/4-3/8
2521 1/4-1/2
2521 3/8-3/8
2521 3/8-1/2
2521 1/2-1/2



Fittings Mod. 2511

Metric-BSP Reducing Nipple

Mod.
2511 M5-1/8
2511 1/8-1/4
2511 1/8-3/8
2511 1/4-3/8
2511 1/4-1/2
2511 3/8-1/2



Fittings Mod. 2525

BSP Male Extension

Mod.
2525 1/8-16
2525 1/8-36
2525 1/4-27
2525 1/4-43



Fittings Mod. 2530

BSPT Reducing

Mod.
2530 1/4-1/8
2530 3/8-1/8
2530 1/2-1/8
2530 3/8-1/4
2530 1/2-1/4
2530 1/2-3/8
2530 3/4-3/8
2530 3/4-1/2
2530 1-1/2



Fittings Mod. 2531

BSP Reducing

Mod.	
2531 1/8-M5	*
2531 1/4-1/8	*
2531 3/8-1/8	
2531 3/8-1/4	*
2531 1/2-1/8	
2531 1/2-1/4	
2531 1/2-3/8	*

★ = with through-out thread



Fittings Mod. 2561

Mod.
2561 1/4-1/8
2561 3/8-1/4
2561 1/2-3/8
2561 3/4-1/2
2561 1-3/4



Fittings Mod. 2543

Sleeve

Mod.	
2543 M5	
2543 1/8	
2543 1/4	
2543 3/8	
2543 1/2	



Fittings Mod. 2553

Reducing Sleeve

Mod.
2553 M5-1/8
2553 1/8-1/4
2553 1/8-3/8
2553 1/8-1/2
2553 1/4-3/8
2553 1/4-1/2
2553 3/8-1/2



Fittings Mod. 2593

Mod.
2593 M5-M10X1
2593 1/8-M16X1
2593 1/4-M20X1
2593 3/8-M26X1,5
2593 1/2-M28X1,5



Fittings Mod. 2611

BSP Male Plug

Mod.
2611 M5
2611 1/8
2611 1/4
2611 3/8
2611 1/2
26111



Fitting Mod. 2610 3/4

BSPT Male Plug

2610 3/4	
Mod.	



Fittings Mod. 2613

BSP Female Plug

Mod.	
2613 1/8	
2613 1/4	
2613 3/8	
2613 1/2	



Fittings Mod. 2601

Metric-BSP Male Hose Adaptor

2601 12-1/2

2601 17-3/8 2601 17-1/2

2601 4,5-M5
2601 7-1/8
2601 7-1/4
2601 8-1/8
2601 9-1/8
2601 9-1/4
2601 9-3/8
2601 12-1/4
2601 12-3/8

Mod.

2601 2-M5



Fittings Mod. 2013

BSPT Female Elbow

Mod.
2013 1/8
2013 1/4
2013 3/8
2013 1/2





Fittings Mod. 2010

BSP Male Elbow

Mod.
2010 1/8
2010 1/4
2010 3/8
2010 1/2
2010 3/4
2010 1



Fittings Mod. 2021 and 2020

Mod. 2021: Metric Male Female Elbow Mod. 2020: BSPT Male Female Elbow

Mod.
2021 M5-M5
2020 1/8-1/8
2020 1/4-1/4
2020 3/8-3/8
2020 1/2-1/2
2020 3/4-3/4
2020 1-1



Fittings Mod. 2050

M.M.F. Tee

Mod.
2050 1/8-1/8
2050 1/4-1/4
2050 3/8-3/8
2050 1/2-1/2



Fittings Mod. 2060

F.M.F. Tee

Mod.
2060 1/8-1/8
2060 1/4-1/4
2060 3/8-3/8
2060 1/2-1/2



Fittings Mod. 2080

Male Tee

Mod.
2080 1/8
2080 1/4
2080 3/8
2080 1/2
2080 3/4
2080 1



Fittings Mod. 2070

M.F.F. Tee

Mod.
2070 1/8-1/8
2070 1/4-1/4
2070 3/8-3/8
2070 1/2-1/2



Fittings Mod. 2090

M.F.M. Tee

Mod.
2090 1/8-1/8
2090 1/4-1/4
2090 3/8-3/8
2090 1/2-1/2
2090 3/4-3/4
2090 1-1



Fittings Mod. 2003

Female Tee

Mod.	
2003 1/8	
2003 1/4	
2003 3/8	
2003 1/2	



Fittings Mod. 2040

Y.F.M.F.

Mod.	
2040 1/8-1/8	
2040 1/4-1/4	
2040 3/8-3/8	
2040 1/2-1/2	



Fittings Mod. 2043

Female Y

Mod.
2043 1/8
2043 1/4
2043 3/8
2043 1/2



Fittings Mod. 2033

Female Cross

Mod.	
2033 1/8	
2033 1/4	
2033 3/8	
2033 3/8	



Fittings Mod. 2023

Single Thread Banjo

Mod.	assembled with Mod.
2023 M5-M5	1631
2023 M5-M6	SCU, SVU, SCO
2023 1/8-1/8	1631, 1635, SCU, SVU, SCO
2023 1/4-1/4	1635, SCU, SVU, SCO
2023 3/8-3/8	1635, SCU, SVU, SCO



Mod.

Accessories Mod. 3033

4 Ways Distribution Block with fixing holes Material: anodized Aluminium

Mod.
3033 1/8
3033 1/4
3033 3/8
3033 1/2



Accessories Mod. 3043

Manifold with double lateral outles Material: anodized Aluminium

Mod.
3043 1/4-3D-1/8
3043 1/4-4D-1/8
3043 1/4-5D-1/8
3043 1/4-6D-1/8
3043 3/8-3D-1/4
3043 3/8-4D-1/4
3043 3/8-5D-1/4
3043 3/8-6D-1/4
3043 1/2-3D-3/8
3043 1/2-4D-3/8





Accessories Mod. 3053

Manifold with lateral outlets Material: anodized Aluminium

3053 1/4-3L-1/8	3053 1/2-5L-3/8
3053 1/4-4L-1/8	3053 1/2-6L-3/8
3053 1/4-5L-1/8	
3053 1/4-6L-1/8	
3053 3/8-3L-1/4	(Ves
3053 3/8-4L-1/4	
3053 3/8-5L-1/4	
3053 3/8-6L-1/4	0
3053 1/2-3L-3/8	(100)
	1/1/00
3053 1/2-4L-3/8	100

Accessories Mod. 3053

Manifold with lateral outlets Material: anodized Aluminium, nickel-plated brass and seals in NBR

Mod.
3053 1/4-8L-4
3053 1/4-8L-6
3053 3/8-6L-8
3053 1/2-61-10





Quick-release couplings Series 5000

Nominal diameters: 5, 7 mm

Couplings threads: G1/8, G1/4, G3/8, G1/2

Plastic tubes: 6/4, 8/6, 10/8; rubber hoses: 6x14, 8x17, 10x19, 13x23



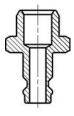


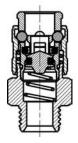




Series 5000 quick-release couplings are suitable in situations where, for plant engineering or safety reasons, the connection or disconnection of tubing must be repeated several times. These operations can be performed with no need to release the pressure and therefore a considerable amount of time can be saved.

Series 5000 quick-release couplings with mini-profile DN 5 are compatible with couplings Rectus Series 21 - 90, Legris 21. Series 5000 quick-release couplings with European profile DN 7 are compatible with couplings Cejn Series 320.





GENERAL DATA

Valve group	quick release valve
Construction	poppet type
Mounting	threaded
Thread	GAS cylindrical ISO 228 (BSP)
Materials	nickel-plated brass (hardened galvanized steel only for couplings with an "8" as third number in the code) - NBR seals
Connections	G1/8 - G1/4 - G3/8 - G1/2 for plastic tubes and rubber hose
Operating temperature	0°C ÷ 80°C (with dry air -20°C)
Operating pressure	- 0.9 ÷ 12 bar
Nominal pressure	6 bar
Nominal diameter	5 or 7 mm
Fluid	compressed air and other low pressure fluids



Fittings Mod. 5051 Series Mini and Mod. 5081 European Standard

BSP Male Quick Coupling

Mod.
5051 1/8
5051 1/4
5081 1/4
5081 3/8
5081 1/2



8	TH.
880	
1/2	
1	
7	

Fittings Mod. 5052 Series Mini and Mod. 5082 European Standard

BSP Male Quick Coupling Bulkhead

Mod.
5052 1/8
5052 1/4
5082 1/4



Fittings Mod. 5053 Series Mini and Mod. 5083 European Standard

BSP Female Quick Coupling

Mod.
5053 1/8
5053 1/4
5083 1/4
5083 3/8
5083 1/2



Fittings Mod. 5055 Series Mini

Quick Coupling Bulkhead Push-on

Mod.
5055 6/4
5055 8/6



Fittings Mod. 5056 Series Mini and Mod. 5086 European Standard

Quick Coupling Hose Adapter

Mod.
5056 06
5056 09
5086 09
5086 12



- <u></u>	
-----------	--

Quick Coupling Push-on

Fittings Mod. 5057 Series Mini and Mod. 5087 European Standard

Quick Coupling Hose Connector

and Mod. 5084 European Standard

Fittings Mod. 5054 Series Mini

Mod.
5054 6/4
50548/6
5084 8/6
5084 10/8

Mod. 5057 6x14 5087 6x14 50878x17 5087 10x19 5087 13x23



Fittings Mod. 5058 Series Mini and Mod. 5088 European Standard

Quick Coupling with Spring

Mod.
5058 6/4
50588/6
5088 8/6
5088 10/8



Fittings Mod. 5150 Mini Profile and Mod. 5180 European Profile

Male Connector

Mod.
5150 1/8
5150 1/4
5180 1/4
5180 3/8
5180 1/2



Fittings Mod. 5350 Mini Profile and Mod. 5380 European Profile

Female Connector

Mod.
5350 1/8
5350 1/4
5380 1/4
5380 3/8
5380 1/2



Fittings Mod. 5450 Mini Profile and Mod. 5480 European Profile

Push-on Connector

Mod.
5450 6/4
54508/6
5480 8/6
5480 10/8



Fittings Mod. 5650 aMini Profile and Mod. 5680 European Profile

Connector with Barb

Mod.	
5650 06	
5650 09	
5680 06	
5680 09	
5680 12	



Fittings Mod. 5750 Mini Profile and Mod. 5780 European Profile

Hose Connector

Mod.	
5750 6x14	
5780 6x14	
5780 8x17	
5780 13x23	



	ngs M Mod.				

Connector with Spring

Mod.	
5850 6/4	
5850 8/6	
5880 8/6	
5880 10/8	







Quick-release couplings for the conditioning of moulds for plastic Series 5000L and 5000LT

Nominal diameters: 5, 7 mm

Couplings threads: G1/8, G1/4, G3/8



The Series 5000L and 5000LT couplings have been designed to connect tubes for water, air or oil, used within plastic injection and die casting moulds.

The Series 5000L and 5000LT couplings provide a quick connection and disconnection method for the replacement of heating and conditioning tubes directed towards the mould, as well as tubes coming from water collectors or sources.

GENERAL DATA

Valve group

Media

Construction	poppet
Mounting	by means of threading
Threadings	GAS cylindrical ISO 228 (BSP)
Threads	G1/8 - G1/4 - G3/8
Materials	Internal/external parts in brass Springs and balls in stainless steel Seals in FKM
Operating temperature	-15°C ÷ 140°C (200°C with oil)
Operating pressure	-0.9 ÷ 12 bar
Nominal pressure	6 bar
Nominal diameter	Ø5 - Ø7

Fittings Mod. 5053L and 5053LT

BSP female quick-coupling

Mod.	Symbol
5053L1/8	VNR3
5053L 1/4	VNR3
5053LT 1/8	VNR2
5053LT 1/4	VNR2



water, air and oil

quick-release valve

Fittings Mod. 5083L and 5083LT

BSP female quick-coupling

Mod.	Symbol
5083L 1/4	VNR3
5083L 3/8	VNR3
5083LT 1/4	VNR2
5083LT 3/8	VNR2



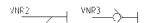
Fittings Mod. 5150L and 5180L

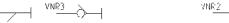
Male connector

Mod.
5150L1/8
5150L1/4
5180L1/4
5180L 3/8



VNR2







Super-rapid fittings in stainless steel 316L Series X6000

Tube external diameters: 4, 6, 8, 10, 12 mm Fittings threads: BSP (G1/8, G1/4, G3/8, G1/2), BSPT (R1/8, R1/4, R3/8, R1/2)









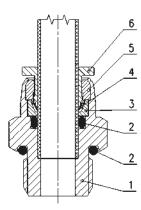






Series X6000 fittings have been designed to offer versatility and ease of installation without any compromise in quality or performance.
They are suitable for applications in the pneumatics, fluids, chemical, medical, food and packaging industries.

Series X6000 fittings are practical and safe and allow the connection of fluids even in aggressive environments. The collet ensures excellent grip between the fitting and tubing.



GENERAL DATA

Materials

Diameters Ø 4 - 6 - 8 - 10 - 12 mm

Threads GAS conical ISO 7 (BSPT)

GAS cylindrical ISO 228 (BSP)

Temperature -15°C ÷ 150°C

NOTE: for a better use of the fitting we recommend to check the tubing specifications.

Tube to connectPolyamide (PA) 6 - 11 - 10.12 - 12, Polyurethane (PU), Polyethylene (PE), PTFEMediumcompressed air and drinking water. For other fluids, please contact our technicians.

1 = BodyStainless steel 316L2 = SealsFKM Alimentary3 = Supporting ringStainless steel 316L4 = Clamping gripperStainless steel 3015 = Locking bushingStainless steel 316L6 = Release bushingStainless steel 316L

Working pressure max 18 bar (see tubing)

Fittings Mod. X6510

RSPT Male Connector

משום בשום המו	mector
Mod.	
X6510 4-1/8	X6510 12-3/8
X6510 4-1/4	X6510 12-1/2
X6510 6-1/8	
X6510 6-1/4	
X6510 8-1/8	
X6510 8-1/4	
X6510 10-1/4	
X6510 10-3/8	
X6510 10-1/2	



Fittings Mod. X6512

BSPP Male Connector

Mod.		
X6512 4-1/8	X6512 12-3/8	
X6512 4-1/4	X6512 12-1/2	
X6512 6-1/8		
X6512 6-1/4		
X6512 8-1/8		í
X6512 8-1/4		
X6512 10-1/4		
X6512 10-3/8		
X6512 10-1/2		
X6512 12-1/4		

Fittings Mod. X6500

BSPT Male Elbow

Mod.
X6500 4-1/8
X6500 6-1/8
X6500 6-1/4
X6500 8-1/8
X6500 8-1/4
X6500 10-1/4
X6500 10-3/8
X6500 12-1/4
X6500 12-3/8



Fittings Mod. X6520

X6510 12-1/4

BSPT Swivel Male Elbow

Mod.
X6520 4-1/8
X6520 4-1/4
X6520 6-1/8
X6520 6-1/4
X6520 8-1/8
X6520 8-1/4
X6520 10-1/4
X6520 10-3/8
X6520 12-1/4
X6520 12-3/8
X6520 12-1/2



Fittings Mod. X6522

BSPP Swivel Male Elbow

Mod.
X6522 4-1/8
X6522 4-1/4
X6522 6-1/8
X6522 6-1/4
X6522 8-1/8
X6522 8-1/4
X6522 10-1/4
X6522 10-3/8
X6522 12-1/4
X6522 12-3/8
X6522 12-1/2



Fittings Mod. X6430

BSPT Swivel Male Tee

Mod.
X6430 4-1/8
X6430 4-1/4
X6430 6-1/8
X6430 6-1/4
X6430 8-1/8
X6430 8-1/4
X6430 10-1/4
X6430 10-3/8
X6430 12-1/4
X6430 12-3/8
X6430 12-1/2



Fittings Mod. X6432

BSPP Swivel Centre Tee

Mod.
X6432 4-1/8
X6432 4-1/4
X6432 6-1/8
X6432 6-1/4
X6432 8-1/8
X6432 8-1/4
X6432 10-1/4
X6432 10-3/8
X6432 12-1/4
X6432 12-3/8
X6432 12-1/2



Fittings Mod. X6580

Union Connector

Mod.
X6580 4
X6580 6
X6580 8
X6580 10
X6580 12



Fittings Mod. X6550

Elbow connector

Mod.
X6550 4
X6550 6
X65508
X6550 10
X6550 12



Fittings Mod. X6540

Tee Connector

Mod.	
X6540 4	
X6540 6	
X65408	
X654010	
X654012	



Fittings Mod. X6590

Bulkhead Union Connector

Mod.
X6590 4
X6590 6
X65908
X6590 10
X6590 12



Fittings Mod. X6800

Reducer Tube/Stem

Mod.
X6800 4-6
X6800 4-8
X6800 6-8
X6800 6-10
X6800 6-12
X6800 8-10
X6800 8-12
X6800 10-12





Rapid push-on fittings in 316L stainless steel Series X1000







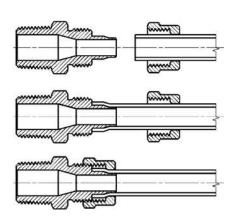








Series X1000 rapid push-on fittings can be easily installed.
The push-on locking nuts can be tightened both manually and with a spanner even in case of stiffer tubes like PA or Hytrel Polyester. The shape of the special guiding cone ensures that the tube cannot be accidentally cut.



GENERAL DATA

 Diameters
 6/4 - 8/6 - 10/8 - 12/10

 Threads
 GAS conical ISO 7 (BSPT)

Temperature -40°C ÷ +180°C

NOTE: for a better use of the fitting we recommend to check the tubing specifications

Tube to connect Polyamide (PA), Polyuethane (PU), Polyethylene (PE), PTFE, FEP,

Hytrel Polyester

Medium all fluids compatible with the fitting component materials

Materials Body: stainless steel 316L

Nut: stainless steel 316L

Working pressure the nominal pressure of the fittings is always higher than the pressure of the tube

C∢ CAMOZZI

Fittings Mod. X1510

BSPT Male Connector

Mod.
X1510 6/4-1/8
X1510 6/4-1/4
X1510 8/6-1/8
X1510 8/6-1/4
X1510 8/6-3/8
X1510 10/8-1/4
X1510 10/8-3/8
X1510 10/8-1/2
X1510 12/10-1/4
X1510 12/10-3/8
X1510 12/10-1/2



Fittings Mod. X1500

BSPT Male Elbow

Mod.
X1500 6/4-1/8
X1500 6/4-1/4
X1500 8/6-1/8
X1500 8/6-1/4
X1500 8/6-3/8
X1500 10/8-1/4
X1500 10/8-3/8
X1500 10/8-1/2
X1500 12/10-3/8
X1500 12/10-1/2



Fittings Mod. X1580

Union Connector

Mod.
X1580 6/4
X1580 8/6
X1580 10/8
X1580 12/10



Fittings Mod. X1590

Bulkhead Union Connector

Mod.
X1590 6/4
X1590 8/6
X1590 10/8
X1590 12/10



Fittings Mod. X1550

Elbow Connector

Mod.	
X1550 6/4	
X1550 8/6	
X1550 10/8	
X1550 12/10	



Fittings Mod. X1540

Tee Connector

Mod.
X1540 6/4
X1540 8/6
X1540 10/8
X1540 12/10



Accessories Mod. X1703

Blocking nut

Mod.	
X1703 6/4	
X1703 8/6	
X1703 10/8	
X1703 12/10	





Adaptors in 316L stainless steel Series X2000







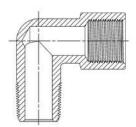






Series X2000 adaptors in AISI 316L stainless steel are available in several configurations to meet the customers' needs in terms of reliability and adaptability.

They can be used in pneumatic, oil-pressure (at low pressure) and hydropneumatic systems and can be employed in many sectors including the food, chemical and medical industries.



GENERAL DATA

Threads GAS conical ISO7 (BSPT)

Gas cylindrical ISO 228 (BSPP)

NPT

Temperature -50°C ÷ +250°C

-15°C ÷ +180°C (X2612 - X2612 EH)

Medium all fluids compatible with the fitting component materials

Materials316L stainless steelWorking pressure-0.9 / 120 bar

Fittings Mod. X2500

BSPT, NPT and BSPP Nipple

Mod.
X2500 1/8
X2500 1/4
X2500 3/8
X2500 1/2
X2500 3/4
X2500 1/8PT
X2500 1/4PT
X2500 3/8PT
X2500 1/2PT
X2500 1/8-1/8PT
X2500 1/4-1/4PT
X2500 3/8-3/8PT
X2500 1/2-1/2PT
X2500 3/4-3/4PT



Fittings Mod. X2510

BSPT and NPT Reducing Nipple

Mod.
MOG.
X2510 1/8-1/4
X2510 1/8-3/8
X2510 1/4-3/8
X2510 1/4-1/2
X2510 3/8-1/2
X2510 1/2-3/4
X2510 1/8PT-1/4PT
X2510 1/8PT-3/8PT
X2510 1/4PT-3/8PT
X2510 1/4PT-1/2PT
X2510 3/8PT-1/2PT



Fittings Mod. X2520

Enlarging Extension

Mod.
X2520 1/8-1/4
X2520 1/8-3/8
X2520 1/4-3/8
X2520 1/4-1/2
X2520 3/8-1/2
X2520 1/2-3/4



Fittings Mod. X2530

Reducer/Converter

,	
Mod.	
X2530 1/8-M5	X2530 1/2PT-1/4PT
X2530 1/4-1/8	X2530 1/2PT-3/8PT
X2530 3/8-1/8	X2530 1/8PT-1/8
X2530 3/8-1/4	X2530 1/4PT-1/4
X2530 1/2-1/4	X2530 3/8PT-3/8
X2530 1/2-3/8	X2530 1/2PT-1/2
X2530 3/4-1/2	X2530 1/8-1/8PT
X2530 1/4PT-1/8PT	X2530 1/4-1/4PT
X2530 3/8PT-1/8PT	X2530 3/8-3/8PT
X2530 3/8PT-1/4PT	X2530 1/2-1/2PT



Fittings Mod. X2543

BSPP and NPT Sleeve

Mod.
X2543 1/8
X2543 1/4
X2543 3/8
X2543 1/2
X2543 3/4
X2543 1/8PT-1/8PT
X2543 1/4PT-1/4PT
X2543 3/8PT-3/8PT
X2543 1/2PT-1/2PT



€ CAMOZZI

Fittings Mod. X2593

BSPP and NPT Bulkhead connector

Mod.
X2593 1/8
X2593 1/4
X2593 3/8
X2593 1/2
X2593 3/4
X2593 1
X2593 1/8PT-1/8PT
X2593 1/4PT-1/4PT
X2593 3/8PT-3/8PT
X2593 1/2PT-1/2PT



Fittings Mod. X2600

BSPT Male Hose Adaptor

Mod.	
X2600 6-1/8	X2600 12-1/2
X2600 7-1/8	X2600 14-3/8
X2600 7-1/4	X2600 14-1/2
X2600 8-1/4	X2600 16-3/8
X2600 9-1/4	X2600 16-1/2
X2600 9-3/8	X2600 18-1/2
X2600 10-1/4	X2600 18-3/4
X2600 10-3/8	X2600 20-1/2
X2600 10-1/2	X2600 20-3/4
X2600 12-1/4	X2600 25-3/4
X2600 12-3/8	



Fittings Mod. X2612 EH

BSPP Male Plug External hexagon, o-ring in FKM

Mod.
X2612 1/8-EH
X2612 1/4-EH
X2612 3/8-EH
X2612 1/2-EH



Fittings Mod. X2612

BSPP Male Plug Internal hexagon, o-ring in FKM

Mod.	
X2612 1/8	
X26121/4	
X26123/8	
X26121/2	



Fittings Mod. X2615

Mod.	
X2615 1/8	
X2615 1/4	
X2615 3/8	
X2615 1/2	



Fittings Mod. X2013

BSPP Female Elbow

Mod.	
X2013 1/8	
X2013 1/4	
X2013 3/8	
X2013 1/2	



Fittings Mod. X2003

BSPP Female Tee

Mod.
X2003 1/8
X2003 1/4
X2003 3/8
X2003 1/2



Fittings Mod. X2020

BSPT Female Male Elbow

Mod.
X2020 1/8-1/8
X2020 1/4-1/4
X2020 3/8-3/8
X2020 1/2-1/2



Fittings Mod. X2060

BSPT Male Branch Tee

Mod.
X2060 1/8-1/8
X2060 1/4-1/4
X2060 3/8-3/8
X2060 1/2-1/2



Fittings Mod. X2070

BSPT Male Run Tee

Mod.
X2070 1/8-1/8
X2070 1/4-1/4
X2070 3/8-3/8
X2070 1/2-1/2



Accessories Mod. X3033

4 Ways Distribution Block with fixing holes

Mod.
X3033 1/8
X3033 1/4
X3033 3/8
X3033 1/2





Mini mall valves for pneumatics and industrial fluids Series 29

Tube external diameters: 4, 6 and 8mm

Threads: BSP (G1/8, G1/4, G3/8, G1/2, R1/8, R1/4)



The mini ball valves are used to open or close air or fluids in industrial applications characterised by extremely reduced spaces.

The miniaturised dimensions and light weight of Series 29 enable a quick installation at any point of the system, also thanks to the push-in connection or thread.

The design and materials used make this series particularly suitable for compressed air systems as well as hydraulic circuits and systems.

GENERAL DATA

Function 2/2-way, 3/2-way with exhaust

Operation 90° lever rotation

Ports G1/8, G1/4, G3/8, G1/2, R1/8, R1/4

Tube diameter Ø 4, 6, 8 mm **Orifice diameter** 6 mm (MINI version)

8 mm bis 10 mm (ECO, butterfly and 3/2-way with exhaust)

Operating pressure $0 \div 10 \text{ bar}$ Operating temperature $-10 \text{ °C} \div 90 \text{ °C}$

Materials valve body, rod, collet: nickel plated brass;

ball: nickel plated brass; ball seals: PTFE rod sealing ring: FKM; Lever: Glass charged PA66

Surface finishing chrome plated, sandblasted and chrome plated (only butterfly version)

Medium compressed air, inert gases, water, oil - other on demand

Mini ball valves, MINI version - Mod. 2946

2/2 in-line with Push-in Collet, Female BSPP Threads

Mini ball valves,

2/2 in-line, Male BSPT Threads

MINI version - Mod. 2945

Mod. 2946 1/8-4 2946 1/8-6 2946 1/8-8 2946 1/4-4 2946 1/4-6 2946 1/4-8

FITTINGS, CONNECTORS, TUBING AND ACCESSORIES

Mini ball valves, MINI version - Mod. 2948

2/2 in-line with Push-in Collet

Mod.	
2948 4	
2948 6	
29488	



39	10

Mini ball valves, MINI version - Mod. 2947

2/2 in-line with Push-in Collet, Male BSPT Threads

Mod.
2947 1/8-4
2947 1/8-6
2947 1/8-8
2947 1/4-4
2947 1/4-6
2947 1/4-8





€ CAMOZZI

Mini ball valves, MINI version - Mod. 2943

2/2 in-line, Female-Female BSPP Threads

Mod.
2943 1/8
2943 1/4



Mini ball valves, MINI version - Mod. 2944

2/2 in-line, Male BSPT-Female BSPP Threads

Mod.
2944 1/8-1/8
2944 1/4-1/4





Colored Interchangeable Clips Mod. C29

For Mini Version only

Mod.
C29-GREY
C29-RED
C29-BLUE



Mini ball valves, ECO version - Mod. 2953

2/2 in-line, Female-Female BSPP Threads

Mod.	
2953 1/4	
2953 3/8	
2953 1/2	





2/2 in-line,

2954 1/4-1/4 2954 3/8-3/8 2954 1/2-1/2

Mini ball valves, ECO version - Mod. 2954

Male BSPP-Female BSPP Threads

Mini ball valves, Butterfly version - Mod. 2963

2/2 in-line, Female-Female BSPP Threads

Mod.	
2963 1/4	
2963 3/8	
2963 1/2	



Mini ball valves, Butterfly version - Mod. 2964

2/2 in-line, Male BSPP-Female BSPP Threads

Mod.
2964 1/4-1/4
2964 3/8-3/8
2964 1/2-1/2





Mini ball valves, 3/2-way version - Mod. 2973

3/2 in-line, Female BSPP-Female BSPP Threads

Mod.
2973 1/4
2973 3/8
2973 1/2



Mini ball valves, 3/2-way version - Mod. 2974

3/2 in-line, Male BSPP-Female BSPP Threads

Mod.
2974 1/4-1/4
2974 3/8-3/8
2974 1/2-1/2





10



Mini ball valves in 316 stainless steel Series X29





- » Compact dimensions
- » Maximum flow capability
- » Easy-to-operate lever

These mini ball valves are used to open or close air or fluid flows in industrial applications with aggressive fluids or gases and where space is extremely limited. The miniaturised dimensions and light weight of Series X29 enable an easy installation at any point of the system, also thanks to the threaded connection.

GENERAL DATA

Function 2/2-way **Operation** 90° lever rotation Threads G1/4, G3/8, G1/2, R1/4, R3/8, R1/2 Orifice diameter from 7 mm to 9.2 mm

Operating pressure 0 ÷ 10 bar Operating temperature -15 °C \div 80 °C

Materials valve body, rod, ball: 316 stainless steel; ball seals: PTFE;

rod sealing ring: FKM; Lever: Aluminum

Medium compressed air, inert gases, water, oil and all fluids compatible with thew mini ball valves component materials

Mini ball valves Mod. X2943

2/2 in-line, Female-Female BSPP Threads

Mod.	
X2943 1/4	
X2943 3/8	
X2943 1/2	



Mini ball valves Mod. X2944

2/2 in-line, Male BSPT-Female BSPP Threads

Mod.
X2944 1/4-1/4
X2944 3/8-3/8
X2944 1/2-1/2











Fittings and accessories for applications of medical gases Series OX1

Tube external diameters: 4, 6 and 8 mm

Fittings threads: metric (M5), BSP (G1/8, G1/4), BSPT (R1/8, R1/4)



Series OX1 fittings are designed for the Life Science market, particularly for medical and analytical applications. Equipment manufacturers of Ventilators, Anaesthesia devices, Oxygen Concentrators, Mass Spectrometry or Bio Medical analysers have qualified the Series OX1 fittings for many years.

Series OX1 Products Cleanliness level: Non volatile residue equal to or less than 550 mg/m2 Level Series OX1: ultrasonic cleaning of components, inspection with UV black light, lubrication with a specific grease suitable to be used with oxygen.

Series 6000 OX1 push in fittings: Series 6000 OX1 super-rapid fittings have been designed with a special collet which provides an homogeneous tight on the whole surface of plastic tubes, thus ensuring high reliability and a long service life, also after connections and disconnections of the tube are repeated several times.

Series VNR OX1 unidirectional valves: They are available with Integrated Push-in Fittings. Thanks to their construction they operate at low pressure.

Series 2000 OX1 brass pipe fittings: The wide range of Camozzi pipe fittings, which includes straight, L and Tee, male or female couplings, guarantees the necessary support during the design of medical and analytical systems.

GENERAL DATA

Working pressure

Series 6000	
Diameters	ø 4, 6 and 8mm
Threads	GAS cylindrical ISO 228 (BSP); M5
Temperature	-15 °C \div 80 °C (see the technical data of tubing used)
Tube to connect	Polyamide (PA) 6 - 11 - 12, Polyurethane (PU), Fluoropolymer (FEP)
Fluid	Oxygen, Medical Gazes, Compressed Air or Other low pressure fluids
Materials	Standard models: body and collet in nickel-plated brass, O-ring with FKM with Oxygen suitable grease
Working pressure	Standard models: min -0,9 bar - max 16 bar (see tubing)
Series VNR	
Valve group	automatic valves
Construction	poppet-type
Materials	brass body - stainless steel spring - FKM seals
Mounting	in any position
Dimensions tube version	Ø4; Ø6; Ø8
Operating temperature	0 °C ÷ 80 °C
Fluid	Oxygen, Medical Gases, Compressed Air or Other low pressure fluids
Series 2000	
Threads	GAS conical ISO 7 (BSPT) - GAS cylindrical ISO 228 (BSP)
Temperature	-40 °C ÷ 120 °C
Fluid	Oxygen, Medical Gases, Compressed Air or Other low pressure fluids
Materials	nickel-plated brass

80 bar



Fittings Mod. 6512-0X1

Metric-BSP Male Connector

Mod. 6512 4-M5-0X1 6512 4-1/8-0X1 6512 6-M5-0X1 6512 6-1/8-0X1 6512 6-1/4-0X1 6512 8-1/8-0X1 6512 8-1/4-0X1



Fittings Mod. 6700-0X1

Cartridge

Mod.	
6700 4-0X1	
6700 6-0X1	



Fittings Mod. 6463-0X1

Metric-BSP Female Connector

	Mod.
	6463 4-1/8-0X
Ī	6463 6-1/8-0X
	5463 6-1/4-NX



Fittings Mod. 6522-0X1

Metric-BSP Swivel Male Elbow

Mod. 6522 4-M5-OX1 6522 4-1/8-OX1 6522 6-M5-OX1 6522 6-1/8-OX1 6522 6-1/4-OX1 6522 8-1/8-OX1 6522 8-1/4-OX1



Fittings Mod. 6590-0X1

Bulkhead Connector

Mod.	
6590 4-0X1	
6590 6-0X1	



Fittings Mod. 6580-0X1

Union Connector

Mod.	
6580 4-0X1	
6580 6-0X1	
6580 8-0X1	



Fittings Mod. 6550-0X1

Elbow connector

Mod.
6550 4-0X1
6550 6-0X1



Fittings Mod. 6540-0X1

Tee Connector

Mod.	
6540 4-0X1	
6540 6-0X1	



Fittings Mod. 6560-0X1

Y Union

Mod.	
6560 4-0X1	
6560 6-0X1	



Fittings Mod. 6750-0X1

Female Plug

Mod.
6750 4-0X1
6750 6-0X1



Fittings Mod. 6800-0X1

Reducer Junction

Mod.
6800 4-6-0X1
6800 4-8-0X1
6800 6-8-0¥1



Fittings Mod. 6555-0X1

Junction Elbow

6555 6-6-0X1	
Mod.	



Accessory Mod. 6900-0X1

Plastic Male Plug

Mod.
6900 4-0X1
6900 6-0X1



Series VNR unidirectional valves

Mod. 6580 4-VNR-OX1 6580 6-VNR-OX1 6580 8-VNR-OX1



VMR



Fittings Mod. 2500-0X1

BSPT Nipple

Mod.	
2500 1/8-0X1	
2500 1/4-0X1	



מומברוסוגי, וספוומס אומס אכנבטיסוגובי

Fittings Mod. 2501-0X1

Metric-BSP Nipple

Mod.
2501 1/8-0X1
2E01 1// ₂ OV1



Fittings Mod. 2510-0X1

BSPT Reducing Nipple

Mod.
2510 1/8-1/4-0X1



Fittings Mod. 2531-0X1

BSP Reducing

Mod.
2531 1/8-M5-0X1
2531 1/4-1/8-0X



C∢ CAMOZZI

Fittings Mod. 2543-0X1

Sleeve

Mod.
2543 M5-0X1
2543 1/8-0X1
2543 1/4-0X1



Fittings Mod. 2611-0X1

BSP Male Plug

Mod.
2611 M5-0X1
2611 1/8-0X1
2611 1/4-0X1



Fittings Mod. 2013-0X1

BSPT Female Elbow

Mod.	
2013	1/8-0X1
2013	1/4-0X1



Fittings Mod. 2021-0X1 and 2020-0X1

Mod. 2021-0X1: Metric Male Female Elbow Mod. 2020-0X1: BSPT Male Female Elbow

Mod. 2020 1/8-1/8-0X1 2020 1/4-1/4-0X1



Fittings Mod. 2003-0X1

Female Tee

Mod.
2003 1/8-0X1
2003 1/4-0X1



Fittings Mod. 2043-0X1

Female Y

Mod.
2043 1/8-0X1
2043 1/4-0X1





Tubing, spirals and accessories Series T, MPL, PNZ

Tubes: reinforced PVC, Polyamide (PA) 12, Hytrel Polyester, Polyethylene (PE), Polyurethane (PU). Diameters: 4/2, 5/3, 6/4, 8/6, 10/8, 12/10, 15/12,5 mm



Camozzi offers a range of tubes and spirals with specific features which are suitable for several technical requirements. Thanks to high-quality raw materials and with a low specific weight, these products are very small and lightweight. They also show high resistance against stress and flexural vibrations.

The high specularity of internal surfaces for the fluid passage (roughness of about 6 micron) allows to reduce the loosening of loads and to reach very high flows with same diameters. Technopolymers used are particularly resistant to aging, thus ensuring the product a very long life.

Tubes Mod. PV

Tubes in reinforced PVC Standard colour: Blue

Mod.
PV 6/4
PV 8/6
PV 10/8
PV 12/10
PV 15/12,5



Tubes Mod. TRN

Tubes in polyamide PA12 Standard colour: Neutral Colours available on request: Blue - Red - Green - Black - Yellow

Mod.	
TRN 4/2	
TRN 5/3	
TRN 6/4	
TRN 8/6	
TRN 10/8	
TRN 12/10	Ī



€ CAMOZZI

Tubes Mod. TRH

Tubes in Hytrel polyester Standard colour: Blue Colours available on request: Red - Green - Black - Yellow - White

Mod.
TRH 4/2-Z
TRH 5/3-Z
TRH 6/4-Z
TRH 8/6-Z
TRH 10/8-Z
TRH 12/10-Z



Tubes Mod. TPE

Tube in low density polyethylene Standard colour: Neutral Colours available on request: Blue

Mod.	
TPE 5/3	
TPE 6/4	
TPE 8/6	
TPE 10/8	



Tubes Mod. TPC

Tubes in Polyurethane 98 Shore Standard colour: Grey RAL 7012

Mod.	
TPC 4/2	
TPC 6/4	
TPC 8/6	
TPC 10/8	
TPC 12/8	



Tubes Mod. TSP

Spiral in Rilsan (PA 11) Standard colour: Blue Other colours available on request

Mod.	
TSP 6/4	
TSP 8/6	
TSP 10/8	
TSP 12/10	



Plastic tubes clamps Mod. MPL

Colour: Blue

Mod.	
MPL-4	
MPL-6	
MPL-8	
MPL-10	
MPL-12	
MPL-14	



Tube cutter tool Mod. PNZ... and PNZP-12

Tubes cutter Mod. PNZ...: replacement blades can be ordered separately. Tubes cutter Mod. PNZP-12: plastic.

Mod.	
PNZ-12	able to cut tubes with Ø up to 12 mm
PNZ-25	able to cut tubes with Ø up to 25 mm
PNZP-12	able to cut tubes with Ø up to 12 mm



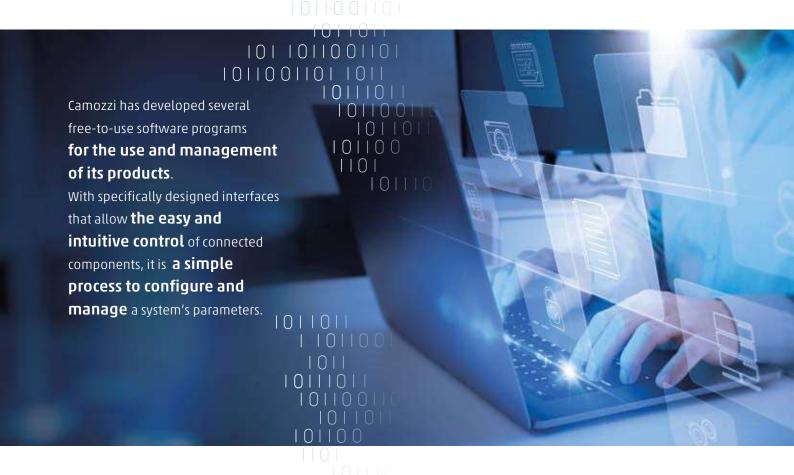


Grooving tool for metallic tubes

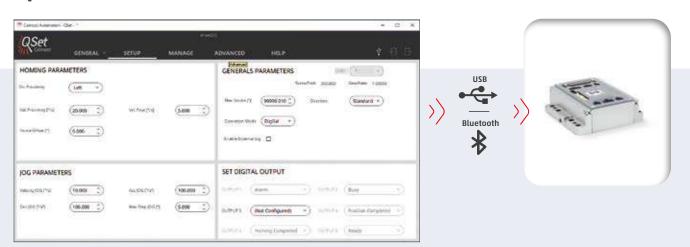
	Mod.
	8TRT 4
ĺ	8TRT 6
	8TRT 8
	8TRT 10
	8TRT 12
ĺ	8TRT 14
	8TRT 16



CAMOZZI AUTOMATION SOFTWARE



QSET CONFIGURATOR



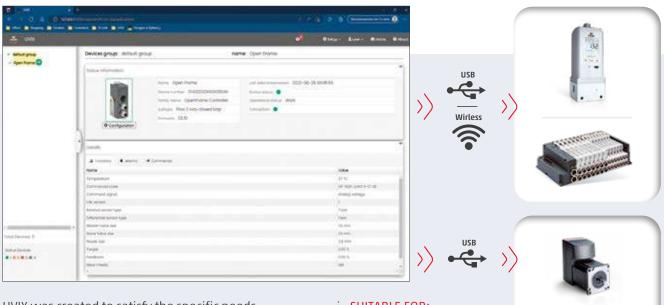
Qset has been designed so that any user can create a program for the positioning and control of an electric axis or cylinder.

Once configured, up to 64 command lines can be programmed and for each of them, the type of movement to perform can be defined.

SUITABLE FOR:

Series DRCS

UVIX CONFIGURATOR

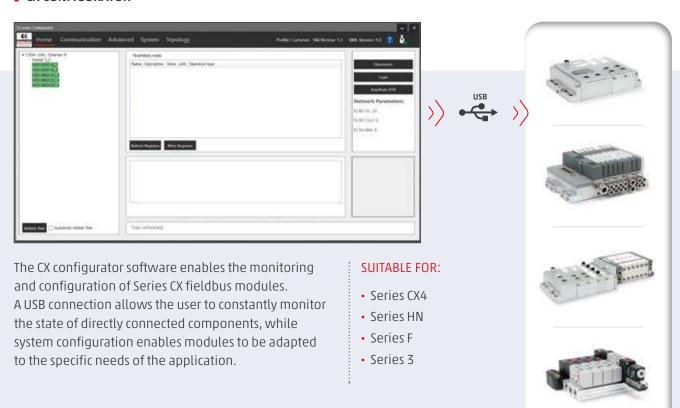


UVIX was created to satisfy the specific needs of users demanding easy and quick system configuration via a wireless or USB connection. This software is not only a tool for effortlessly setting parameters but is also able to monitor different variables and identify possible errors, guaranteeing constant and precise control of the system.

SUITABLE FOR:

- Series D Fieldbus
- Series CX4
- Series PRE
- Series OF
- Series DRVI

CX CONFIGURATOR



CAMOZZI AUTOMATION WORLDWIDE SHORT FORM CATALOGUE 2024

CAMOZZI AUTOMATION WORLDWIDE



Camozzi Automation has always supported its customers in achieving the **highest levels of efficiency and productivity**while guaranteeing the **highest standards of quality**. This is possible thanks to the global presence of our subsidiaries, distributors and production centres which allow us **to serve customers worldwide in the best possible** and timely manner.

Discover the Camozzi Automation Sales Network



SHORT FORM CATALOGUE 2024 CAMOZZI AUTOMATION ONLINE

CAMOZZI AUTOMATION ONLINE





Visit Camozzi Automation's product catalogue and E-commerce site.

Learn about our **full range of solutions** and keep up to date
with our **latest news**.

NOTES

NO	TES

NOTES	



Contacts

Camozzi Automation S.p.A. Società Unipersonale

REGISTERED OFFICE Via R. Rubattino, 81 20134 Milano Italy operational Headquarters Via Eritrea, 20/I 25126 Brescia Italy Tel. +39 030 37921 marketing@camozzi.com Customer Service Tel. +39 030 3792790 service@camozzi.com

Export Department Tel. +39 030 3792253 sales@camozzi.com

