



Short form catalogue

release 8.7





Camozzi spa
Società Unipersonale

Via Eritrea, 20/I
25126 Brescia - Italy
Tel. +39 030 37921
Fax +39 030 2400430
info@camozzi.com
www.camozzi.com

Technical assistance

Products inquiries and
requests for support:
Tel.+39 030 3792790
service@camozzi.com

Special products inquiries:
Tel.+39 030 3792390
service@camozzi.com

Short form catalogue

release 8.7



Welcome to the world of Camozzi

This new short form catalogue features Camozzi's complete range of products.

Further detailed information is available in our full catalogue.

We suggest you also to take a look at our website, where you can discover more about the world of Camozzi.

www.camozzi.com



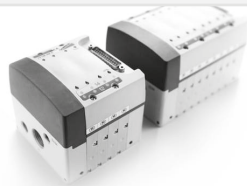
1 > Movement

Includes News



2 > Control

Includes News



3 > Treatment

Includes News



4 > Connection

Includes News



5 > Vacuum



1 > Movement



Cylinders according standards

		Page
Series 16, 24, 25	Minicylinders CETOP RP-52-P / DIN/ISO 6432 Single-acting and double-acting Series 16: ø 8, 10, 12 mm Series 24: ø 16, 20, 25 mm - magnetic Series 25: ø 16, 20, 25 mm - magnetic cushioned	3
Series 40	Cylinders ISO 15552 DIN/ISO 6431 / VDMA 24562 Double-acting, cushioned, magnetic ø 160, 200, 250, 320 mm	4
Series 41	Cylinders - Aluminium profile DIN/ISO 6431 / VDMA 24562 Double-acting cushioned, magnetic ø 160, 200 mm	5
Series 60	Cylinders ISO 15552 DIN/ISO 6431 / VDMA 24562 Single and double-acting, magnetic, cushioned Standard, low friction, low temperatures and tandem versions ø 32, 40, 50, 63, 80, 100, 125 mm	6
Series 61	Cylinders - Aluminium profile ISO 15552 DIN/ISO 6431 / VDMA 24562 Single and double-acting, magnetic, cushioned Standard, low friction, low temperatures and tandem versions ø 32, 40, 50, 63, 80, 100, 125 mm	7
Series 62	Cylinders - Aluminium profile ISO 15552 DIN/ISO 6431 / VDMA 24562 Double-acting, magnetic, cushioned ø 32, 40, 50, 63, 80, 100 mm	8
Series 6PF	Positioning Feedback cylinders ISO 15552 DIN/ISO 6431 / VDMA 24562 Double-acting low friction, magnetic ø 50, 63, 80, 100, 125 mm	9
Series 32	Compact cylinders ISO 21287 Single and double-acting, non-rotating, magnetic ø 20, 25, 32, 40, 50, 63, 80, 100 mm	11
Series 32	Compact cylinders, tandem and multi-position versions ISO 21287 Double-acting, magnetic, ø 25, 40, 63, 100 mm	12
Series 45	Anti-rotation guides For cylinders DIN/ISO 6432 ø 12, 16, 20, 25 mm For cylinders DIN/ISO 6431 ø 32, 40, 50, 63, 80, 100 mm	13

Compact cylinders

		Page
Series QN	Short-stroke cylinders Single-acting, non magnetic ø 8, 12, 20, 32, 50, 63 mm	14
Series QP, QPR	Short-stroke cylinders 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	15
Series 31	Compact cylinders Series 31M-31F: single-acting and double-acting, magnetic Series 31R: double-acting, non-rotating, magnetic ø 12, 16, 20, 25 mm 32, 40, 50, 63, 80, 100 mm UNITOP	16
Series 31	Compact cylinders, tandem and multi-position versions Double-acting, magnetic ø 12, 16, 20, 25, 32, 40, 50, 63, 80, 100 mm	17

Stainless steel cylinders

		Page
Series 90	Stainless steel cylinders ISO 15552 DIN/ISO 6431 / VDMA 24562 Single and double-acting, cushioned, magnetic ø 32, 40, 50, 63, 80, 100 and 125 mm	18
Series 94, 95	Stainless steel minicylinders CETOP RP-52-P / DIN/ISO 6432 Single and double-acting, magnetic Series 94: ø 16, 20, 25 mm Series 95: ø 25 mm, cushioned	19
Series 97	Stainless steel cylinders Single and double-acting, cushioned, magnetic ø 32, 40, 50, 63 mm	20

Guided cylinders

		Page
Series QCT, QCB	Cylinders with integrated guide Double-acting, magnetic piston, guided ø 20, 25, 32, 40, 50, 63 mm	21
Series QCTF, QCBF	Cylinders with integrated guide Double-acting, magnetic, with double bearings and flanges ø 20, 25, 32, 40 mm	22
Series QX	Twin cylinders Double-acting, magnetic, guided ø 10x2, 16x2, 20x2, 25x2, 32x2 mm	23

Cylinders not according standards

		Page
Series 14	Compact minicylinders Single-acting Bores \varnothing 6, 10, 16 mm and strokes 5, 10, 15 mm With super-rapid fitting \varnothing 4 and M5 port	24
Series 27	Cylinders Double-acting, magnetic \varnothing 20, 25, 32, 40, 50, 63 mm	25
Series 42	Cylinders Single and double-acting, magnetic, cushioned \varnothing 32, 40, 50, 63 mm	26

Rotary cylinders

		Page
Series 69	Rotary cylinders Magnetic, cushioned \varnothing 32, 40, 50, 63, 80, 100, 125 Rotational angles: 90°, 180°, 270° and 360°	27
Series 30	Rotary cylinders Non magnetic, cushioned and not cushioned \varnothing 50, 63, 80, 100 mm Rotational angles: 90° and 180°	27
Series ARP	Rotary actuators Model: "Rack & Pinion" Sizes: 1, 3, 5, 10, 12, 20, 35, 55, 70, 100, 150, 250, 400 Rotational angles: 90°	28

Grippers

		Page
Series CGA	Angular grippers Magnetic Sizes: \varnothing 10, 16, 20, 25, 32 mm	29
Series CGSN	180° angular grippers Magnetic Sizes: \varnothing 16, 20, 25, 32 mm	29
Series CGP	Parallel grippers Magnetic Sizes: \varnothing 10, 16, 20, 25, 32 mm	29
Series CGB	Guided parallel grippers Magnetic Sizes: \varnothing 16, 20, 25, 32 mm	30
Series CGLN	Wide opening parallel grippers Sizes: \varnothing 10, 16, 20, 25, 32 mm	30
Series CGC	3-Finger centric grippers Magnetic Sizes: 50, 64, 80, 100, 125	30
Series RPGA	Sprue grippers - Size 20 mm Angular, not self-centering, single-acting, Normally Open (NO) Models: Flat Finger, Curved Finger, Short Finger, Flat Finger with sensor slot, Curved Finger with sensor slot	31
Series RPNB	Sprue grippers - Size 12 mm Angular, not self-centering, single-acting, Normally Open (NO) Flat finger model	31

Rodless cylinders

		Page
Series 50	Rodless cylinders Double-acting, magnetic, cushioned \varnothing 16, 25, 32, 40, 50, 63, 80 mm	32
Series 52	Rodless cylinders Double-acting, magnetic, cushioned \varnothing 25, 32, 40, 50, 63 mm	33

Proximity switches

		Page
Series CST, CSV, CSH	Magnetic proximity switches - Reed - Electronic	34
Series CSN	Proximity switches Reed switches	35
Series CSB, CSC	Magnetic proximity switches Reed switches	35
	Table showing the use of Camozzi magnetic proximity switches	36

Clamping elements and shock absorbers

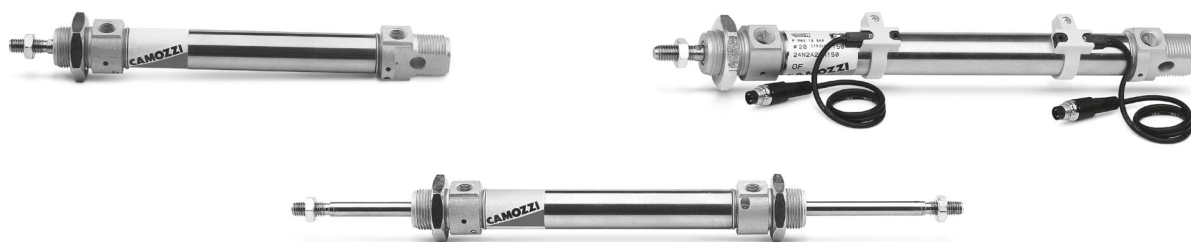
		Page
Series 43	Hydrochecks Bore \varnothing 40mm Regulated thrust or return stroke Skip-Stop function	39
Series RL	Rod lock ISO 6431/VDMA and ISO 6432 For cylinders \varnothing 20, 25, 32, 40, 50, 63, 80, 100, 125 mm	40
Series SA	Shock absorbers 7 different sizes Threads: M8x1 - M10x1 - M12x1 M14x1,5 - M20x1,5 - M25x1,5 - M27x1,5	41
	Pneumatic symbols for cylinders	42

Series 16, 24 and 25 minicylinders

Single-acting and double-acting CETOP RP52-P DIN/ISO 6432

Series 16: \varnothing 8, 10, 12 mm. Series 24: \varnothing 16, 20, 25 mm - magnetic

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



Mod. I



Mod. GKF



Mod. GK



Mod. G



Mod. GA



Mod. E



Mod. B



Mod. V



Mod. U



Mod. GY

CODING EXAMPLE

24	N	2	A	16	A	100	
----	---	---	---	----	---	-----	--

24 SERIES:
16 = non magnetic
24 = magnetic
25 = magnetic, adjustable cushioning

N VERSION:
N = standard

2 OPERATION:
1 = single-acting, front spring, no cushion
2 = double-acting
3 = double-acting, through-rod
7 = single-acting, through-rod

PNEUMATIC SYMBOLS *
CS02 (s. 16) - CS06 (s. 24)
CD01 (s. 16) - CD07 (s. 24) - CD09 (s. 25)
CD05 (s. 16) - CD12 (s. 24) - CD13 (s. 25)
CS04 (s. 16) - CS10 (s. 24)

A MATERIALS:
A = rolled stainless steel AISI 303 rod, stainless steel AISI 304 tube, anodized AL end-blocks

16 BORE:
08 = 8 mm - 10 = 10 mm - 12 = 12 mm - 16 = 16 mm - 20 = 20 mm - 25 = 25 mm

A CONSTRUCTION:
A = Nose nut Mod. V + Piston rod lock nut Mod. U
RL = cylinder with rod lock \varnothing 20 - \varnothing 25

100 STROKE:
Series 16 \varnothing 8 + \varnothing 10: 10 - 250 mm; \varnothing 12: 10 - 300 mm / Series 24 and 25 \varnothing 16: 10 - 600 mm; \varnothing 20 - \varnothing 25: 10 - 1000 mm

= standard
V = rod seal in FKM
W = all seals in FKM, +130°C (for series 25 only)

* = The complete list of cylinders pneumatic symbols is available at the end of this chapter

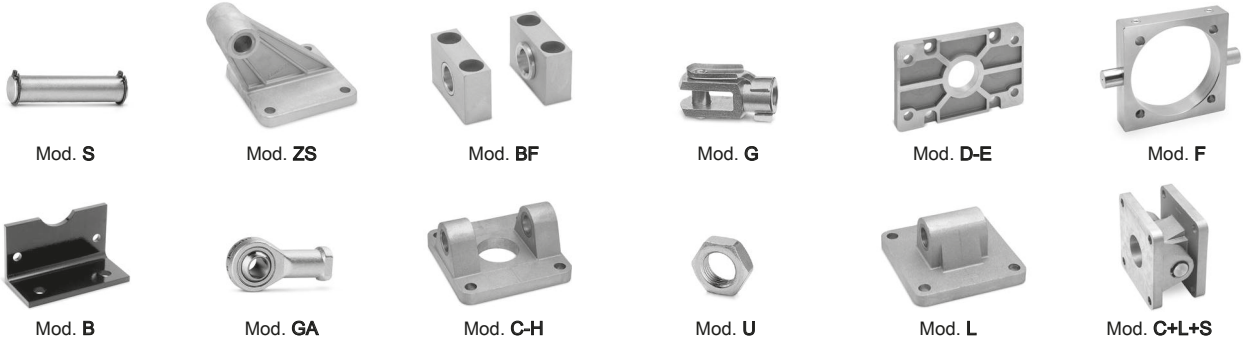
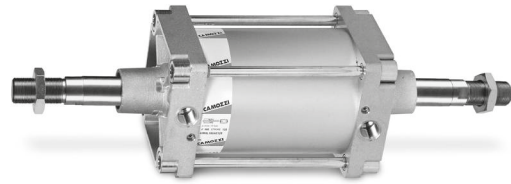
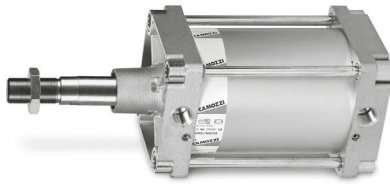
STANDARD STROKES

■ = Double-acting
✕ = Single-acting

Series	\varnothing	10	25	40	50	80	100	125	160	200	250	300	320	400	500
16	8	✕	✕	✕	✕	■	■	■	■	■					
16	10	✕	✕	✕	✕	■	■	■	■	■					
16	12	✕	✕	✕	✕	■	■	■	■	■	■				
24	16	✕	✕	✕	✕	■	■	■	■	■	■	■	■	■	■
24	20	✕	✕	✕	✕	■	■	■	■	■	■	■	■	■	■
24	25	✕	✕	✕	✕	■	■	■	■	■	■	■	■	■	■
25	16	■	■	■	■	■	■	■	■	■	■	■	■	■	■
25	20	■	■	■	■	■	■	■	■	■	■	■	■	■	■
25	25	■	■	■	■	■	■	■	■	■	■	■	■	■	■

Series 40 cylinders

Double-acting, cushioned, magnetic
 ISO 15552 - DIN/ISO 6431 / VDMA 24562
 ø 160, 200, 250, 320 mm



CODING EXAMPLE

40	M	2	L	160	A	0200	
-----------	----------	----------	----------	------------	----------	-------------	--

40	SERIES	
M	VERSION: M = standard, magnetic	
2	OPERATION: 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, through-rod, front and rear cushions	PNEUMATIC SYMBOLS * CD09 CD07 CD10 CD11 CD13
L	MATERIALS: L = AL end blocks and piston, rolled stainless steel AISI 420B (ø 160-200 mm) or chrome plated steel (ø 250-320 mm) piston rod, zinc-plated steel piston rod nut, anodized AL tube, zinc-plated steel tie-rods and tie-rod nuts, NBR-PU rod - piston - cushion seals brass rod scraper T = 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, stainless steel AISI 304 piston-rod nut, stainless steel AISI 420B tie-rods, stainless steel AISI 303 tie-rod nuts W = rolled stainless steel AISI 304 piston rod, stainless steel AISI 304 piston-rod nut, stainless steel AISI 420B tie-rods, stainless steel AISI 303 tie-rod nuts Note: The rod of cylinders with bore of 250 and 320 mm is in C40 chrome plated steel	
160	BORE: 160 = 160 mm - 200 = 200 mm - 250 = 250 mm - 320 = 320 mm	
A	TYPE OF BRACKET: A = standard F = cylinder with centre trunnion	
0200	STROKE: 10 ÷ 2500 mm = standard V = FKM rod seals - W = all FKM seals +130°C - C = PU coated cylinder. Colour: Grey G = with brass rod scraper (chrome plated stainless steel AISI 420B rod, NBR rod seal) [ø 250 and 320 excluded] (_ _ _) = extended piston rod _ _ _ mm	
Notes: The C version is available on request. For further details, contact our technical dept The W and C versions are available for diameters 160 and 200 only		
* = The complete list of cylinders pneumatic symbols is available at the end of this chapter		

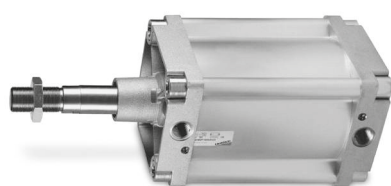
STANDARD STROKES

■ = Double-acting

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

Series 41 cylinders - Aluminium profile

Double-acting, cushioned, magnetic
 DIN/ISO 6431 / VDMA 24562
 ø 160, 200 mm



Mod. S



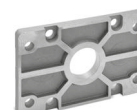
Mod. ZS



Mod. BF



Mod. G



Mod. D-E



Mod. F



Mod. B



Mod. GA



Mod. C-H



Mod. U



Mod. L



Mod. C+L+S

CODING EXAMPLE

41	M	2	P	160	A	0200	
-----------	----------	----------	----------	------------	----------	-------------	--

41

SERIES

M

VERSION:

M = standard magnetic

2

OPERATION:

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, through-rod, front and rear cushions

PNEUMATIC SYMBOLS *

CD09

CD07

CD10

CD11

CD13

P

MATERIALS:

P = AL end blocks and piston, rolled stainless steel AISI 420B piston rod, zinc-plated steel piston rod nut,

anodized AL-profile tube, zinc-plated steel tie-rods and tie-rod nuts, NBR rod - piston - cushion seals - brass rod scraper

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, stainless steel AISI 304 piston rod nut, stainless steel AISI 420B tie-rods, stainless steel AISI 303 tie-rod nuts

W = rolled stainless steel AISI 304 piston rod, stainless steel AISI304 piston rod nut, stainless steel AISI 420B tie-rods, stainless steel AISI 303 tie-rod nuts

160

BORE:

160 = 160 mm - 200 = 200 mm

A

TYPE OF DESIGN:

A = tie-rods

F = cylinder with centre trunnion

0200

STROKE

10 ÷ 2500 mm

= standard

V = FKM rod seals

W = all FKM seals +130°C

C = PU coated cylinder. Color: Grey

G = with brass rod scraper (chrome plated stainless steel AISI 420B rod, NBR rod seal)

(_ _ _) = extended piston rod _ _ _ mm

Notes: The C version is available on request. For further details, contact our technical dept

* = The complete list of cylinders pneumatic symbols is available at the end of this chapter

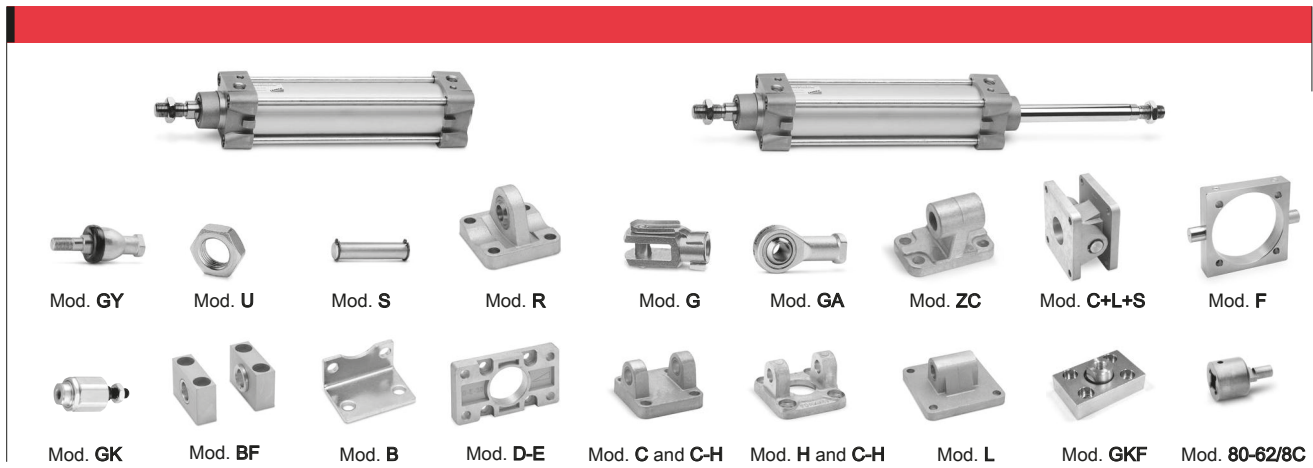
STANDARD STROKES

* = Double-acting

ø	25	50	75	80	100	125	150	160	200	250	300	320	400	500
160		*			*		*		*				*	*
200		*			*				*					

Series 60 cylinders

Single and double-acting, magnetic, cushioned. ISO 15552 - DIN/ISO 6431 / VDMA 24562
 Standard, low friction, low temperatures and tandem versions - ø 32, 40, 50, 63, 80, 100, 125 mm
 Example of assembly with a valve on page 10



CODING EXAMPLE

60	M	2	L	050	A	0200	
----	---	---	---	-----	---	------	--

60	SERIES						
M	VERSIONS: M = magnetic - N = non magnetic - L = low friction, magnetic						
2	OPERATION: 1 = single-acting, front spring 2 = double-acting, front and rear cushioned 3 = double-acting, no cushion 4 = double-acting, rear cushioned 5 = double-acting, front cushioned 6 = double-acting, through-rod, front and rear cushioned 7 = single-acting, through-rod					PNEUMATIC SYMBOLS * CS03 (N) - CS07 (M) CD02 (N) - CD09 (M) CD01 (N) - CD08 (M) CD03 (N) - CD10 (M) CD04 (N) - CD11 (M) CD06 (N) - CD13 (M) CS05 (N) - CS11 (M)	
L	MATERIALS: L = standard: AL end-blocks and piston, rolled stainless steel AISI 420B rod, anodized AL tube, zinc-plated steel tie-rods and tie-rod nuts, PU seals; low friction: standard materials with NBR piston seals and NBR rod seal (FKM rod seal on request) low temperature: standard materials with chrome plated stainless steel AISI 420B rod, brass rod scraper ring, stainless steel AISI 303 nuts, stainless steel AISI 420B tie-rods, PU piston seals and NBR rod seal T = stainless steel AISI 420B tie-rods, stainless steel AISI 303 tie-rod nuts, others 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 [Ø 125 excepted] 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 [Ø 125 excepted]						
050	BORE: 032 = 32 mm - 040 = 40 mm - 050 = 50 mm - 063 = 63 mm - 080 = 80 mm - 100 = 100 mm - 125 = 125 mm						
A	CONSTRUCTION: A = standard with lock nut for rod - RL = cylinder with rod lock - F = cylinder with centre trunnion						
0200	STROKE: 10 + 2500 mm = standard - V = FKM rod seal - N = tandem [pneumatic symbols CD8T (M) - CD9T (N)] - R = NBR rod seal W = all FKM seals +130C° - C = PU coated cylinder. Colour: Grey - L = low friction version without rod seal (rear supply only) (_ _ _) = extended piston rod _ _ _ mm - G = with brass rod scraper (chrome plated stainless steel AISI 420B rod, NBR rod seal)						
	Notes: Version C is available on request. For further information, please contact our technical department. With Version L the possibility to order the cylinder without piston rod seal further reduces the friction force.						
	* = The complete list of cylinders pneumatic symbols is available at the end of this chapter Note: all double-acting cylinders are also available in the low friction version						

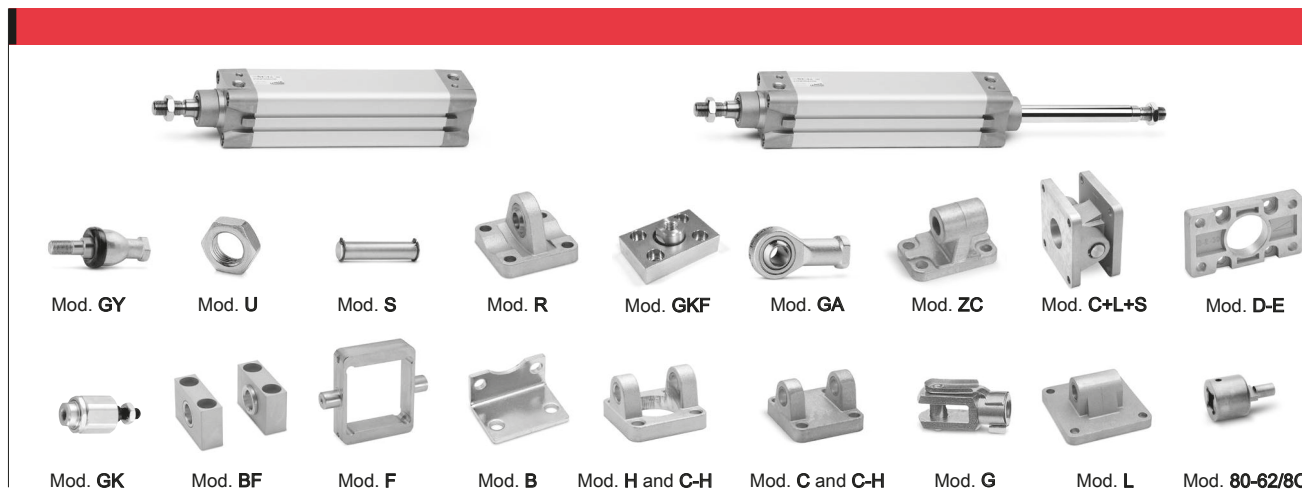
STANDARD STROKES

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

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

Series 61 cylinders - Aluminium profile

Single and double-acting, magnetic, cushioned. ISO 15552 - DIN/ISO 6431 / VDMA 24562
 Standard, low friction, low temperatures and tandem versions - \varnothing 32, 40, 50, 63, 80, 100, 125 mm
 Example of assembly with a valve on page 10



CODING EXAMPLE

61	M	2	P	050	A	0200	
-----------	----------	----------	----------	------------	----------	-------------	--

61	SERIES	
M	VERSION: M = standard, magnetic - L = low friction, magnetic	
2	OPERATION: 1 = single-acting, front spring (\varnothing 32 \pm \varnothing 100) 2 = double-acting, front and rear cushioned 3 = double-acting, no cushion 4 = double-acting, rear cushioned 5 = double-acting, front cushioned 6 = double-acting, through-rod, front and rear cushioned 7 = single-acting, through-rod	PNEUMATIC SYMBOLS * CS07 CD09 CD08 CD10 CD11 CD13 CS11
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; low friction: standard materials with NBR piston seal and NBR rod seal (FKM rod seal on request) low temperature: standard materials with chrome plated stainless steel AISI 420B rod, brass rod scraper ring, stainless steel AISI 303 nuts, stainless steel AISI 420B tie-rods, PU piston seals and NBR rod seal R = stainless steel AISI 420B tie-rods, stainless steel AISI 303 tie-rod nuts, others 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 [\varnothing 125 excepted] 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 [\varnothing 125 excepted]	
050	BORE: 032 = 32 mm - 040 = 40 mm - 050 = 50 mm - 063 = 63 mm - 080 = 80 mm - 100 = 100 mm - 125 = 125 mm	
A	CONSTRUCTION: A = standard with rod nut - RL = cylinder with rod lock	
0200	STROKE: 10 + 2500 mm	
	= standard - V = FKM rod seal - N = tandem [pneumatic symbols CD9T] - R = NBR rod seal W = all FKM seals +130°C - C = PU coated cylinder. Colour: Grey - L = low friction version without rod seal (rear supply only) (___) = extended piston rod ___ mm - G = with brass rod scraper (chrome plated stainless steel AISI 420B rod, NBR rod seal)	
	Notes: Version C is available on request. For further information, please contact our technical department. With Version L the possibility to order the cylinder without piston rod seal further reduces the friction force.	
	* = The complete list of cylinders pneumatic symbols is available at the end of this chapter Note: all double-acting cylinders are also available in the low friction version	

STANDARD STROKES

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

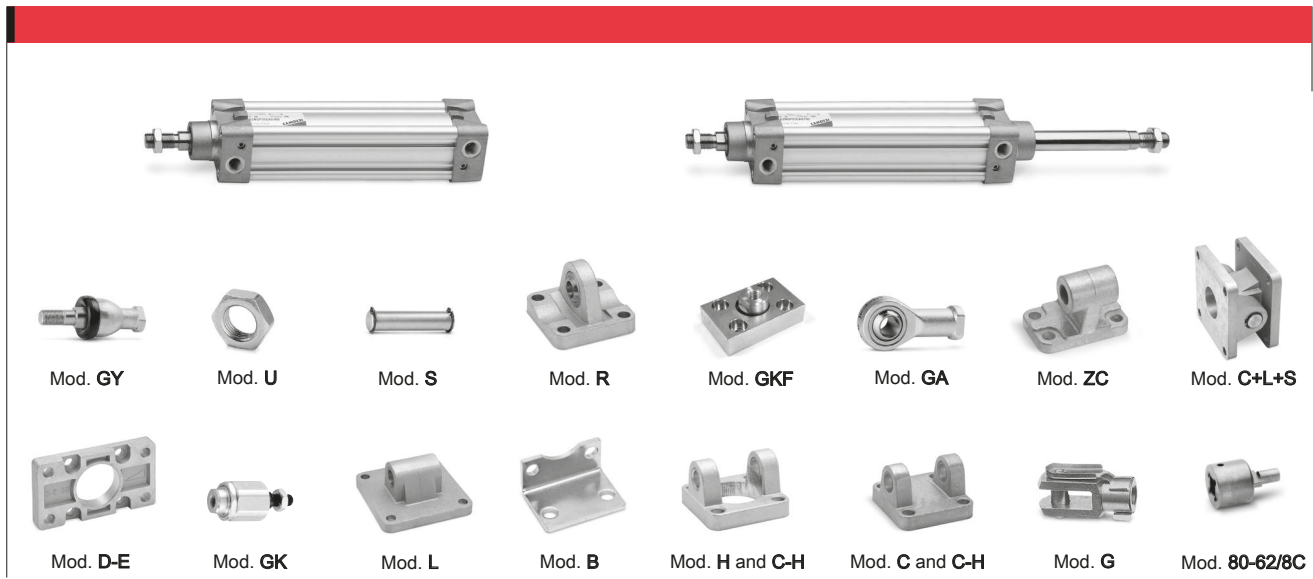
\varnothing	25	50	75	80	100	125	150	160	200	250	300	320	400	500
32	■ ✱	■ ✱	■ ✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱
40	■ ✱	■ ✱	■ ✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱
50	■ ✱	■ ✱	■ ✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱
63	■ ✱	■ ✱	■ ✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱
80	■ ✱	■ ✱	■ ✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱
100		■ ✱	■ ✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱
125		✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱

Series 62 cylinders - Aluminium profile

Double-acting, magnetic, cushioned. ISO 15552 - DIN/ISO 6431 / VDMA 24562

ø 32, 40, 50, 63, 80, 100 mm

Example of assembly with a valve on page 10



CODING EXAMPLE

62	M	2	P	050	A	0200	
62	SERIES						
M	VERSION: M = standard, magnetic						
2	OPERATION: 2 = double-acting, front + rear cushion 3 = double-acting, no cushion 4 = double-acting, rear cushion 5 = double-acting, front cushion 6 = double-acting, through-rod, front + rear cushion						PNEUMATIC SYMBOLS * CD09 CD08 CD10 CD11 CD13
P	MATERIALS: P = AL end-blocks, technopolymer piston, rolled stainless steel AISI 420B piston rod, zinc-plated steel piston rod nut, anodized AL-profile tube, zinc-plated steel tie-rods and nuts, NBR piston rod and piston seals, PU cushion seals (ø 80-100: PU piston seal) 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, stainless steel AISI 304 piston rod nut, stainless steel AISI 420B tie-rod, stainless steel AISI 303 tie-rod nuts W = rolled stainless steel AISI 304 piston rod, stainless steel AISI304 piston rod nut, stainless steel AISI 420B tie-rods, stainless steel AISI 303 tie-rod nuts						
050	BORE: 032 = 32 mm - 040 = 40 mm - 050 = 50 mm - 063 = 63 mm - 080 = 80 mm - 100 = 100 mm						
A	CONSTRUCTION: A = standard lock nut for rod RL = cylinder with rod lock						
0200	STROKE: 10 ÷ 2500 mm = standard V = FKM piston rod seal P = PU piston rod seal (___) = extended piston rod ___ mm						

* = The complete list of cylinders pneumatic symbols is available at the end of this chapter

STANDARD STROKES

✱ = Double-acting
Special strokes until 2500 mm available on request

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

New



Series 6PF Positioning Feedback cylinders

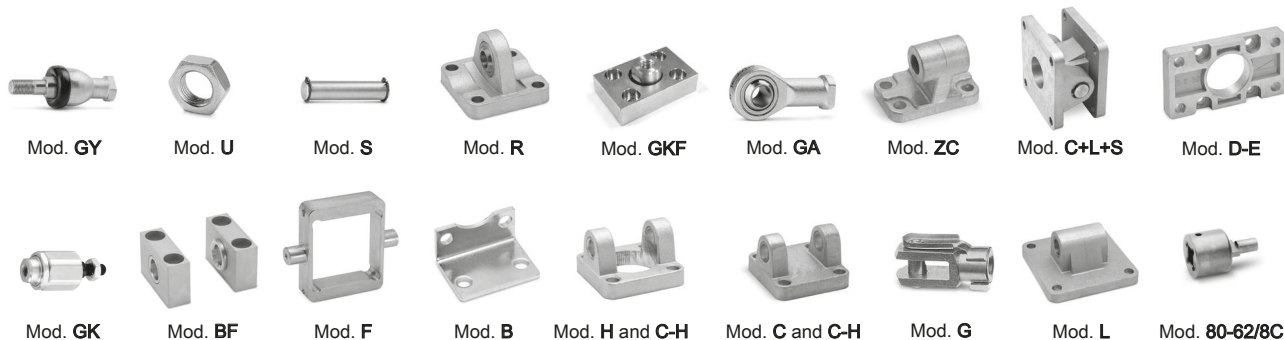
Double-acting low friction, magnetic. ISO 15552 - DIN/ISO 6431 / VDMA 24562

ø 50, 63, 80, 100, 125 mm

Example of assembly with a valve on page 10

MOVEMENT

1



CODING EXAMPLE

6PF	3	P	050	A	0200
------------	----------	----------	------------	----------	-------------

6PF

SERIES

3

 OPERATION:
 3 = double-acting low friction, no cushion

 PNEUMATIC SYMBOL *
 CD08

P

 MATERIALS:
 P = AL piston, rear endcap, steel nut and grain, anodized AL extrusion profile, sintered bronze rod guide bush, chrome plated steel rod, acetal resin piston guide element, nickel plated brass M12 connector, Neodymium magnetic actuator, NBR seals (rod, piston and OR)

050

 BORE:
 050 = 50 mm
 063 = 63 mm
 080 = 80 mm
 100 = 100 mm
 125 = 125 mm

A

 CONSTRUCTION:
 A = standard with rod nut
 RL = cylinder with rod lock

0200

 STROKE:
 50 ÷ 500 mm (step 50 mm)

 VERSIONS:
 = standard
 P = PU rod seal
 V = FKM rod seal
 L = without rod seal (rear supply only)
 G = with brass rod scraper
 (_ _ _) = extended piston rod _ _ _ mm

Note: with Version L the possibility to order the cylinder without piston rod seal further reduces the friction force

* = The complete list of cylinders pneumatic symbols is available at the end of this chapter

STANDARD STROKES

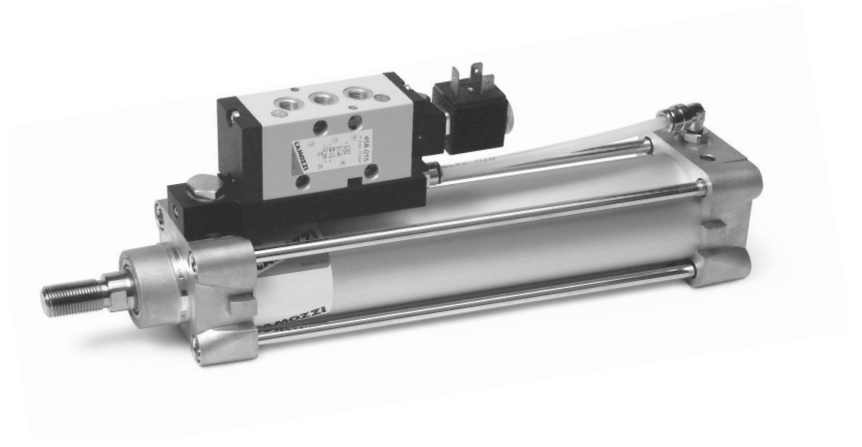
* = Double-acting, low friction

ø	50	100	150	200	250	300	350	400	450	500
50	*	*	*	*	*	*	*	*	*	*
63	*	*	*	*	*	*	*	*	*	*
80	*	*	*	*	*	*	*	*	*	*
100	*	*	*	*	*	*	*	*	*	*
125	*	*	*	*	*	*	*	*	*	*

Examples of assembly Series 60, 61, 62 and 6PF

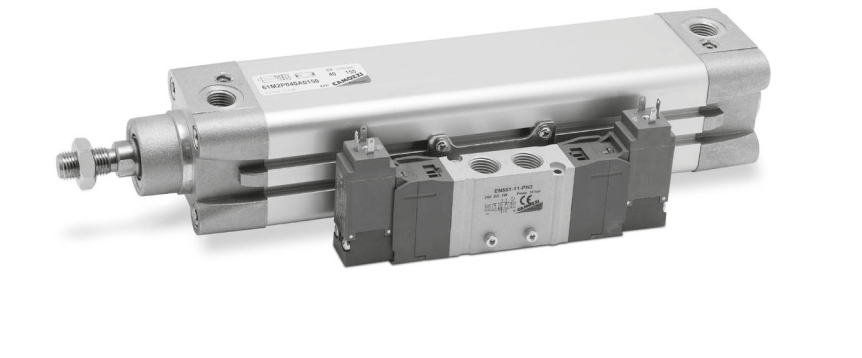
Example of assembly Series 60

Mod. **PCV-32**
PCV-40-50
PCV-63-80



Example of assembly Series 61 and 6PF

Mod. **PCV-61-K3** to connect Series 3 valves/solenoid valves
PCV-61-K4 to connect Series 4 valves/solenoid valves, port G1/4
PCV-61-K8 to connect Series 4 valves/solenoid valves, port G1/8 and Series 3 port G1/4
PCV-62-KEN to connect Series EN valves/solenoid valves



Example of assembly Series 62

Mod. **PCV-62-K3** to connect Series 3 valves/solenoid valves
PCV-62-K4 to connect Series 4 valves/solenoid valves, port G1/4
PCV-62-K8 to connect Series 4 valves/solenoid valves, port G1/8 and Series 3 port G1/4
PCV-62-KEN to connect Series EN valves/solenoid valves

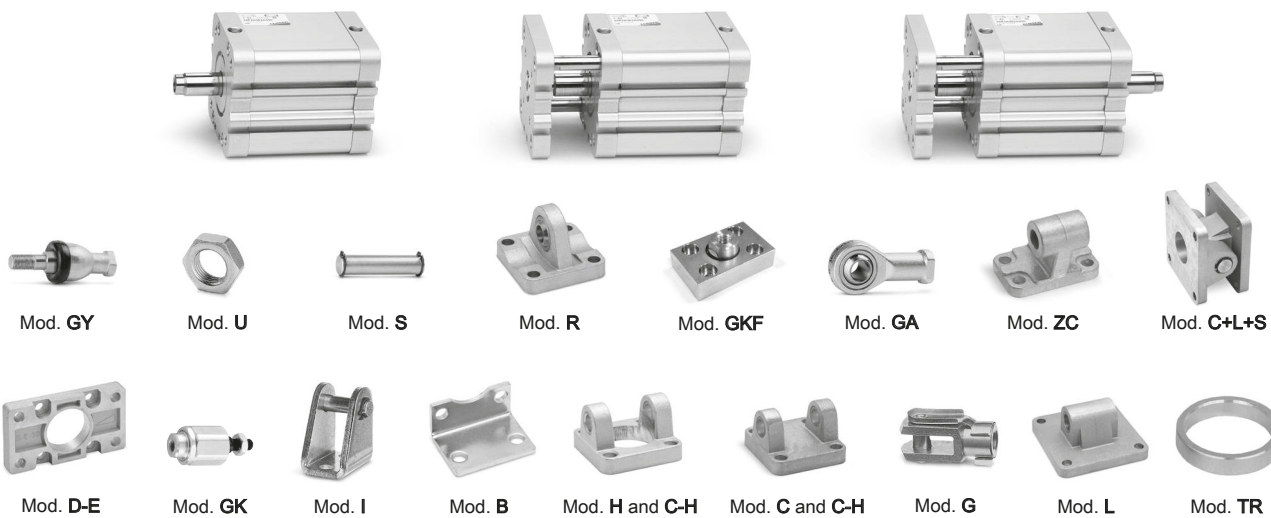


Series 32 compact cylinders

Single and double-acting, non-rotating, magnetic
 ISO 21287
 ø 20, 25, 32, 40, 50, 63, 80, 100 mm



MOVEMENT



Mod. GY Mod. U Mod. S Mod. R Mod. GKF Mod. GA Mod. ZC Mod. C+L+S
 Mod. D-E Mod. GK Mod. I Mod. B Mod. H and C-H Mod. C and C-H Mod. G Mod. L Mod. TR

CODING EXAMPLE

32	M	2	A	032	A	050	
----	---	---	---	-----	---	-----	--

32

SERIES

M

VERSION:
 M = male rod thread, mounted with rod nut Mod. U
 F = female rod thread
 R = antirotation with flange (not for single-acting version)

2

OPERATION:
 1 = single-acting, front spring
 2 = double-acting
 3 = double-acting, through-rod
 4 = single-acting, rear spring

PNEUMATIC SYMBOLS *
 CS06
 CD08
 CD12
 CS08

A

MATERIALS:
 A = anodized aluminium body, end blocks and piston,
 PU seals (rod, end-blocks OR and piston)

032

BORES:
 020 = 20 mm - 025 = 25 mm - 032 = 32 mm - 040 = 40 mm
 050 = 50 mm - 063 = 63 mm - 080 = 80 mm - 100 = 100 mm

A

CONSTRUCTION:
 A = standard

050

STROKE
 ø 20-25 = 5-300 mm / ø 32-40-50-63 = 5-400 mm / ø 80-100 = 5-500 mm

= standard
 S = special
 V = FKM rod seal
 W = high temperatures (double-acting, non-magnetic
 with FKM seals for high temperatures up to 140°C)

* = The complete list of cylinders pneumatic symbols is available at the end of this chapter

STANDARD STROKES

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

ø	5	10	15	20	25	30	40	50	60	80
20	✕ • ■	✕ • ■	✕ • ■	✕ • ■	✕ • ■	✕ •	✕ •	✕ •		
25	✕ • ■	✕ • ■	✕ • ■	✕ • ■	✕ • ■	✕ •	✕ •	✕ •		
32	✕ • ■	✕ • ■	✕ • ■	✕ • ■	✕ • ■	✕ •	✕ •	✕ •	✕ •	✕ •
40	✕ • ■	✕ • ■	✕ • ■	✕ • ■	✕ • ■	✕ •	✕ •	✕ •	✕ •	✕ •
50		✕ • ■	✕ • ■	✕ • ■	✕ • ■	✕ •	✕ •	✕ •	✕ •	✕ •
63		✕ • ■	✕ • ■	✕ • ■	✕ • ■	✕ •	✕ •	✕ •	✕ •	✕ •
80		✕ • ■	✕ • ■	✕ • ■	✕ • ■	✕ •	✕ •	✕ •	✕ •	✕ •
100		✕ • ■	✕ • ■	✕ • ■	✕ • ■	✕ •	✕ •	✕ •	✕ •	✕ •

Series 32 compact cylinders tandem and multi-position versions

Double-acting, magnetic
 ISO 21287
 ø 25, 40, 63, 100 mm



1
MOVEMENT

Tandem version



Mod. 32F2A...XN2

Multi-position version



Mod. 32F2A...X1/X2N

CODING EXAMPLES

32 M 2 A 040 A 050 N 2

32	SERIES
M	VERSION: M = male rod thread, mounted with rod nut Mod. U F = female rod thread
2	OPERATION: 2 = double-acting PNEUMATIC SYMBOLS * CDPP
A	MATERIALS: A = anodized aluminium body, 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 PNEUMATIC SYMBOLS * CD5T - CD6T - CD7T CD2T - CD3T - CD4T CD5T - CD6T - CD7T
A	CONSTRUCTION: A = standard
050	STROKES (min and max): ø 25 = 5+80 mm ø 40-63-100 = 5+100 mm
N	TANDEM
2	STAGES: 2 = 2 stages

32 M 2 A 040 A 25/75 N

32	SERIES
M	VERSION: M = male rod thread, mounted with rod nut Mod. U F = female rod thread
2	OPERATION: 2 = double-acting PNEUMATIC SYMBOLS * CDPP
A	MATERIALS: A = anodized aluminium body, 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 PNEUMATIC SYMBOLS * CD5T - CD6T - CD7T CD5T - CD6T - CD7T CD2T - CD3T - CD4T CD5T - CD6T - CD7T
A	CONSTRUCTION: A = standard
25/75	STROKES (min and max): ø 25 = 5+300 (size for X2) ø 40-63 = 5+400 (size for X2) ø 100 = 5+500 (size for X2)
N	MULTI-POSITION

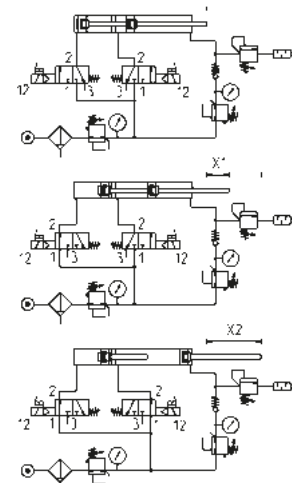
* = The complete list of cylinders pneumatic symbols is available at the end of this chapter

Operating schemes

Example for ordering:
 Stroke 50 mm
 Mod. 32M2A040A050N2



Example for ordering:
 X1=25 mm and X2=75 mm
 Mod. 32M2A040A25/75N



Series 45 anti-rotation guides

For cylinders DIN/ISO 6432 - \varnothing 12, 16, 20, 25 mm

For cylinders DIN/ISO 6431 - \varnothing 32, 40, 50, 63, 80, 100 mm



CODING EXAMPLE

45	N	UT	050	A	0100
-----------	----------	-----------	------------	----------	-------------

45 SERIES

N VERSION:
N = standard

UT OPERATION:
UT = "U" self lubricating guide
HT = "H" self lubricating guide
HB = "H" ball guide

050 BORE:
016 = \varnothing 12-16 mm (same guides for \varnothing 12)
020 = 20 mm
025 = 25 mm
032 = 32 mm
040 = 40 mm
050 = 50 mm
063 = 63 mm
080 = 80 mm
100 = 100 mm

A MATERIALS:
A = anodized aluminium body - stainless steel AISI 420B columns for 45UT and 45HT - hardened steel C50 columns for 45HB

0100 STROKE in mm

Series QN short-stroke cylinders

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

1

MOVEMENT



CODING EXAMPLE

QN	1	A	50	A	25
QN	SERIES				
1	OPERATING: 1 = single-acting		PNEUMATIC SYMBOL* CS01		
A	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				
A	TYPE OF DESIGN: A = standard				
25	STROKE: (see the table)				
* = The complete list of cylinders pneumatic symbols is available at the end of this chapter					

STANDARD STROKES

* = Single-acting

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

Series QP and QPR short-stroke cylinders

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

1

MOVEMENT



Mod. B

Mod. L

CODING EXAMPLE

QP	2	A	050	A	050
----	---	---	-----	---	-----

QP	SERIES: QP = standard QPR = standard non-rotating	
2	OPERATION: 1 = single-acting, front spring (only QP) 2 = double-acting 3 = double-acting, through-rod	PNEUMATIC SYMBOLS * CS09 CD07 CD14
A	MATERIALS: A = rolled stainless steel rod - AL tube profile	
050	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	
A	TYPE OF MOUNTING: A = standard	
050	STROKE: Series QP: ø 12+25 = 1+150 mm / ø 32+100 = 1+200 mm Series QPR: ø 12 = 1+50 mm / ø 16 = 1+75 mm / ø 20+100 = a 1+100 mm	
	= standard V = FKM rod seal W = all FKM seals (ø 12 excepted)	

* = The complete list of cylinders pneumatic symbols is available at the end of this chapter

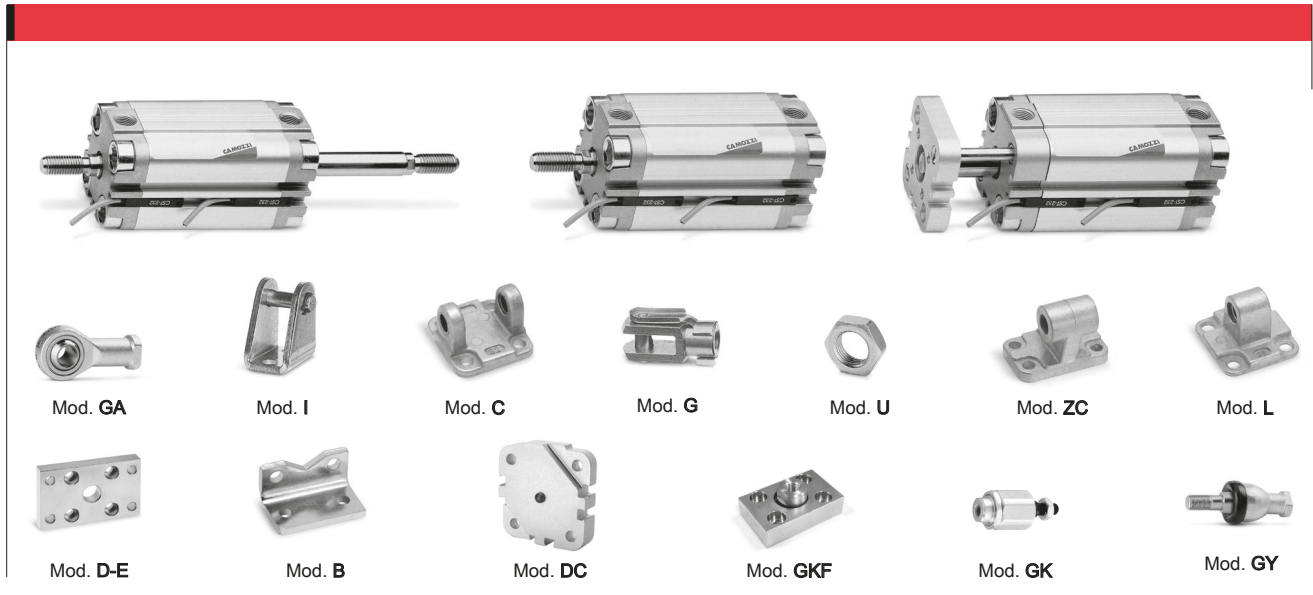
STANDARD STROKES

- = Double-acting
- ✱ = Single-acting
- = Non-rotating

ø	5	10	15	20	25	30	35	40	45	50	60	75	80	100
12	✱✱●	✱✱●	✱✱●	✱✱	✱✱●	✱●	■	■	■					
16	✱✱●	✱✱●	✱✱●	✱✱●	✱✱●	✱●	✱●	✱●	✱●	✱●	✱●	✱●	■	■
20	✱✱●	✱✱●	✱✱●	✱✱●	✱✱●	✱●	✱●	✱●	✱●	✱●	✱●	✱●	✱●	✱●
25	✱✱●	✱✱●	✱✱●	✱✱●	✱✱●	✱●	✱●	✱●	✱●	✱●	✱●	✱●	✱●	✱●
32	✱✱●	✱✱●	✱✱●	✱✱●	✱✱●	✱●	✱●	✱●	✱●	✱●	✱●	✱●	✱●	✱●
40	✱✱●	✱✱●	✱✱●	✱✱●	✱✱●	✱●	✱●	✱●	✱●	✱●	✱●	✱●	✱●	✱●
50	✱✱●	✱✱●	✱✱●	✱✱●	✱✱●	✱●	✱●	✱●	✱●	✱●	✱●	✱●	✱●	✱●
63	✱✱●	✱✱●	✱✱●	✱✱●	✱✱●	✱●	✱●	✱●	✱●	✱●	✱●	✱●	✱●	✱●
80	✱✱●	✱✱●	✱✱●	✱✱●	✱✱●	✱●	✱●	✱●	✱●	✱●	✱●	✱●	✱●	✱●
100	✱✱●	✱✱●	✱✱●	✱✱●	✱✱●	✱●	✱●	✱●	✱●	✱●	✱●	✱●	✱●	✱●

Series 31 compact cylinders

Series 31M-31F: single-acting and double-acting, magnetic
 Series 31R: double-acting, non-rotating, magnetic
 ø 12, 16, 20, 25 mm. ø 32, 40, 50, 63, 80, 100 mm UNITOP



CODING EXAMPLE							
31	M	2	A	032	A	050	
31	SERIES						
M	VERSION: M = male rod thread, mounted with rod nut Mod. U F = female rod thread R = non-rotating with flange only double-acting						
2	OPERATION: 1 = single-acting, front spring 2 = double-acting 3 = double-acting, through-rod 4 = single-acting, rear spring 7 = semplice effetto, stelo passante				PNEUMATIC SYMBOLS * CS06 CD08 CD12 CS08 CS10		
A	MATERIALS: A = rolled stainless steel AISI 303 rod - AL tube profile						
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						
A	DESIGN TYPE: A = standard						
050	STROKE: Series 31R, 31M and 31F: ø 12 + 25 = 1 + 200 mm / ø 32 + 63 = 1 + 300 mm / ø 80 + 100 = 1 + 400 mm The min. stroke for the use of sensors is 10 mm Single-acting = 5+25 mm (see the standard strokes table)						
	= standard S = special V = rod seal FKM W = seals in FKM for high temperatures (140°C), only available in the double-acting, non magnetic version						
	* = The complete list of cylinders pneumatic symbols is available at the end of this chapter						

STANDARD STROKES											
ø	5	10	15	20	25	30	40	50	60	80	
12	■ x •	■ x •	■ x	■ x	■ x	■ x	■ x				
16	■ x •	■ x •	■ x •	■ x •	■ x •	■ x	■ x				
20	■ x •	■ x •	■ x •	■ x •	■ x •	■ x	■ x	■ x			
25	■ x •	■ x •	■ x •	■ x •	■ x •	■ x	■ x	■ x	■ x		
32	■ x •	■ x •	■ x •	■ x •	■ x •	■ x	■ x	■ x	■ x		
40	■ x •	■ x •	■ x •	■ x •	■ x •	■ x	■ x	■ x	■ x	■ x	
50		■ x •	■ x •	■ x •	■ x •	■ x	■ x	■ x	■ x	■ x	■ x
63		■ x •	■ x •	■ x •	■ x •	■ x	■ x	■ x	■ x	■ x	■ x
80		■ x •	■ x •	■ x •	■ x •	■ x	■ x	■ x	■ x	■ x	■ x
100		■ x •	■ x •	■ x •	■ x •	■ x	■ x	■ x	■ x	■ x	■ x

Series 31 compact cylinders tandem and multi-position versions

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

MOVEMENT

Tandem version



Mod. 31F2A...XN

Multi-position version



Mod. 31F2A...X1/X2N

CODING EXAMPLES

32 | **M** | **2** | **A** | **032** | **A** | **050** | **N** | **2**

32	SERIES
M	VERSION: M = male rod thread, mounted with rod nut Mod. U F = female rod thread
2	OPERATION: 2 = double-acting PNEUMATIC SYMBOLS * CDPP
A	MATERIALS: A = rolled stainless steel rod AISI 303 - AL tube profile
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 PNEUMATIC SYMBOLS * CD5T - CD6T - CD7T CD5T - CD6T - CD7T CD2T - CD3T - CD4T CD2T - CD3T - CD4T
A	CONSTRUCTION TYPE: A = standard
050	STROKES (min and max): ø 12+25 = 1+80 mm ø 32+100 = 1+100 mm
N	TANDEM
2	STAGES: 2 = 2 stages - 3 = 3 stages - 4 = 4 stages

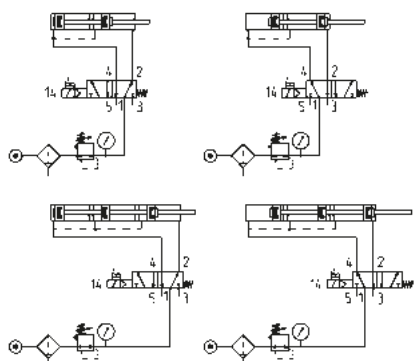
32 | **M** | **2** | **A** | **032** | **A** | **25/100** | **N**

32	SERIES
M	VERSION: M = male rod thread, mounted with rod nut Mod. U F = female rod thread
2	OPERATION: 2 = double-acting PNEUMATIC SYMBOLS * CDPP
A	MATERIALS: A = rolled stainless steel rod AISI 303 - AL tube profile
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 PNEUMATIC SYMBOLS * CD5T - CD6T - CD7T CD5T - CD6T - CD7T CD2T - CD3T - CD4T CD2T - CD3T - CD4T
A	CONSTRUCTION TYPE: A = standard
25/100	STROKES (min and max): ø 12+25 = size for x2 max 200 mm ø 32+63 = size for x2 max 300 mm ø 80+100 = size for x2 max 400 mm
N	MULTI-POSITION

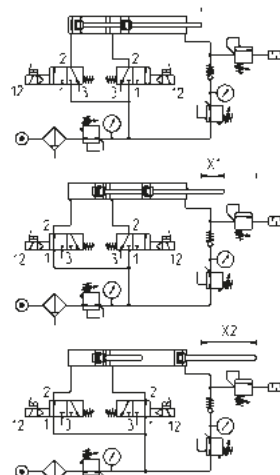
* = The complete list of cylinders pneumatic symbols is available at the end of this chapter

Operating schemes

Example for ordering:
 Stroke 25 mm
 Mod. 31M2A032A025N2 (2 stages)



Example for ordering:
 X1=25 mm and X2=100 mm
 Mod. 31M2A032A25/100N



Series 90 stainless steel cylinders

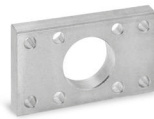
Single and double-acting, cushioned, magnetic
 ISO 15552 - DIN/ISO 6431- VDMA 24562
 ø 32, 40, 50, 63, 80, 100, 125 mm



1
MOVEMENT



Mod. B



Mod. D-E



Mod. C-H



Mod. CR



Mod. L



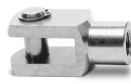
Mod. ZC



Mod. R



Mod. ZCR



Mod. G-90



Mod. GA-90



Mod. U-90



Mod. S-90



Mod. SR-90

CODING EXAMPLE

90	M	2	A	050	A	0200	
----	---	---	---	-----	---	------	--

90	SERIES						
M	VERSION: M = standard, magnetic						
2	OPERATION: 1 = single-acting, front spring 2 = double-acting, front and rear cushions 6 = double-acting, through-rod, front and rear cushions					PNEUMATIC SYMBOLS * CS06 CD09 CD13	
A	MATERIALS: A = stainless steel AISI 316, seals in NBR V = stainless steel AISI 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						
A	TYPE OF DESIGN: A = standard with piston rod lock nut Mod. U						
0200	STROKE: 25 ÷ 800 mm						
	= standard V = rod seal in FKM						

* = The complete list of cylinders pneumatic symbols is available at the end of this chapter

STANDARD STROKES

✱ = 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		✱•	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱

Series 94 and 95 stainless steel minicylinders

Single-acting and double-acting, magnetic. CETOP RP52-P / DIN/ISO 6432

 Series 94: \varnothing 16, 20, 25 mm

 Series 95: \varnothing 25 mm, cushioned


1

MOVEMENT



Mod. B



Mod. E



Mod. I



Mod. G-94/90



Mod. GA-94/90



Mod. U-94/90



Mod. V-94 and U-90

CODING EXAMPLE

94	N	2	A	16	A	100	
----	---	---	---	----	---	-----	--

94 SERIES:
94 = magnetic
95 = magnetic, cushioned

N VERSION:
N = standard

2 OPERATION:
1 = single-acting, front spring
2 = double-acting
3 = double-acting, through-rod

PNEUMATIC SYMBOLS *
CS06 (S. 94)
CD08 (S. 94) - CD09 (S. 95)
CD12 (S. 94) - CD13 (S. 95)

A MATERIALS:
A = stainless steel, seals in NBR
V = stainless steel, all seals in FKM (150°C)

16 BORE:
16 = 16 mm - 20 = 20 mm - 25 = 25 mm

A TYPE OF DESIGN:
A = standard with locking ring for end cap Mod. V and piston rod lock nut Mod. U

100 STROKE:
10 + 500 mm

= standard
V = rod seal in FKM

* = The complete list of cylinders pneumatic symbols is available at the end of this chapter

STANDARD STROKES

• = Single-acting
x = Double-acting

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

Series 97 stainless steel cylinders

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



CODING EXAMPLE							
97	M	2	A	050	A	0200	
97	SERIES						
M	VERSIONS: M = rear male hinge S = articulated rear male hinge F = rear female hinge T = front and rear threaded end blocks A = front end block with pin						
2	OPERATION: 1 = single-acting, front spring 2 = double-acting, front and rear cushions 6 = double-acting, through-rod, front and rear cushions (T and A versions only)				PNEUMATIC SYMBOLS * CS06 CD09 CD13		
A	MATERIALS: A = stainless steel AISI 304 - PU seals V = stainless steel AISI 304 - FKM seals (150°C)						
050	BORE: 032 = 32 mm - 040 = 40 mm - 050 = 50 mm - 063 = 63 mm						
A	TYPE OF DESIGN: A = standard (locking ring for end cap V + lock nut for rod U)						
0200	STROKE: 25 ÷ 800 mm = standard V = rod seal in FKM						
* = The complete list of cylinders pneumatic symbols is available at the end of this chapter							

STANDARD STROKES

• = Single-acting
 × = Double-acting

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

Series QCT and QCB cylinders with integrated guide

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

1

MOVEMENT



CODING EXAMPLE

QC	T	2	A	020	A	050
QC	SERIES					
T	VERSION: T = sintered bronze bushes B = linear ball bearings					
2	OPERATIONS: 2 = double-acting				PNEUMATIC SYMBOLS * CD07	
A	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					
A	TYPE OF DESIGN: A = standard					
050	STROKE: (see the table)					

* = The complete list of cylinders pneumatic symbols is available at the end of this chapter

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		■			■	■	■	■	■	■	■

Series QCTF and QCBF cylinders with integrated guide

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



Mod. QCTF2A...A...
Mod. QCBF2A...A...



Mod. QCTF2A...B...
Mod. QCBF2A...B...



Mod. QCTF2A...C...
Mod. QCBF2A...C...

CODING EXAMPLE

QC	T	F	2	A	020	A	050
QC	SERIES						
T	TYPE OF BEARING: T = sintered bronze bushes B = linear ball bearings						
F	VERSION: F = double flange						
2	OPERATION: 2 = double-acting					PNEUMATIC SYMBOLS * CD07	
A	MATERIALS: A = anodized aluminium body - rolled stainless steel piston rod AISI 303 rolled stainless steel AISI 420B columns for QCTF - hardened steel C50 columns for QCBF						
020	BORE: 020 = 20 mm - 025 = 25 mm - 032 = 32 mm - 040 = 40 mm						
A	CUSHION: A = fixed mechanical cushion (standard) B = two shock absorbers located on the body C = one shock absorber located on the rear flange						
050	STROKE: (see the table)						
* = The complete list of cylinders pneumatic symbols is available at the end of this chapter							

STANDARD STROKES

■ = Type A and C
 ✖ = Type B
 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		■			■	■	■ ✖	■ ✖	■ ✖	■ ✖	■ ✖

Series QX twin cylinders

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

MOVEMENT

1



CODING EXAMPLE

QX	T	2	A	020	A	050
-----------	----------	----------	----------	------------	----------	------------

QX

SERIES

T

 VERSION:
 T = sintered bronze bushes
 B = linear ball bearings

2

 OPERATION:
 2 = double-acting (1 flange) radial / axial pressure supply
 3 = double-acting through-rod (double-flange), radial pressure supply

 PNEUMATIC SYMBOLS *
 CD15
 CD16

A

 MATERIALS:
 A = anodized aluminium body, rolled stainless steel AISI 303 piston rod

020

 BORE:
 010 = 10 mm - 016 = 16 mm - 020 = 20 mm - 025 = 25 mm - 032 = 32 mm

A

 TYPE OF DESIGN:
 A = standard

050

 STROKE:
 from 10 to 100

* = The complete list of cylinders pneumatic symbols is available at the end of this chapter

STANDARD STROKES

■ = Double-acting

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

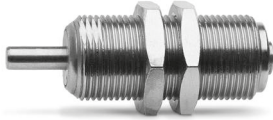
Series 14 compact minicylinders

Single-acting

Bores \varnothing 6, 10, 16 mm and strokes 5, 10, 15 mm

With super-rapid fitting \varnothing 4 and M5 port

With non threaded piston rod



With threaded piston rod



SIZES Super-rapid fitting incorporated			SIZES Threaded port		
Mod.	\varnothing	STROKE	Mod.	\varnothing	STROKE
14N1A06A05	6	5	14N1M06A05	6	5
14N1A06A10	6	10	14N1M06A10	6	10
14N1A06A15	6	15	14N1M06A15	6	15
14N1A10A05	10	5	14N1M10A05	10	5
14N1A10A10	10	10	14N1M10A10	10	10
14N1A10A15	10	15	14N1M10A15	10	15
14N1A16A05	16	5	14N1M16A05	16	5
14N1A16A10	16	10	14N1M16A10	16	10
14N1A16A15	16	15	14N1M16A15	16	15

SIZES Super-rapid fitting incorporated			SIZES Threaded port		
Mod.	\varnothing	STROKE	Mod.	\varnothing	STROKE
14N1A06B05	6	5	14N1M06B05	6	5
14N1A06B10	6	10	14N1M06B10	6	10
14N1A06B15	6	15	14N1M06B15	6	15
14N1A10B05	10	5	14N1M10B05	10	5
14N1A10B10	10	10	14N1M10B10	10	10
14N1A10B15	10	15	14N1M10B15	10	15
14N1A16B05	16	5	14N1M16B05	16	5
14N1A16B10	16	10	14N1M16B10	16	10
14N1A16B15	16	15	14N1M16B15	16	15

CODING EXAMPLE

14	N	1	A	06	A	05
----	---	---	---	----	---	----

14	SERIES	
N	VERSION: N = non-magnetic	
1	OPERATION: 1 = single-acting	PNEUMATIC SYMBOL * CS01
A	TYPE OF CONNECTION: A = tube \varnothing 4 M = thread M5	
06	BORE: 06 = 6 mm 10 = 10 mm 16 = 16 mm	
A	TYPE OF DESIGN: A = non-threaded smooth piston rod B = threaded piston rod	
05	STROKE: 05 = 5 mm 10 = 10 mm 15 = 15 mm	

* = The complete list of cylinders pneumatic symbols is available at the end of this chapter

Series 27 cylinders

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

1

MOVEMENT



Mod. GKF



Mod. GK



Mod. T



Mod. GY



Mod. GA



Mod. B



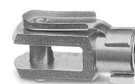
Mod. U



Mod. V



Mod. I



Mod. G

CODING EXAMPLE

27	M	2	A	20	A	0050
27	SERIES					
M	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 SYMBOL* CD08	
A	MATERIALS: A = rolled stainless steel rod - stainless steel tube					
20	BORE: 20 = 20 mm - 25 = 25 mm - 32 = 32 mm - 40 = 40 mm - 50 = 50 mm - 63 = 63 mm					
A	TYPE OF DESIGN: A = standard					
0050	STROKE: 10 + 1000 mm					
* = The complete list of cylinders pneumatic symbols is available at the end of this chapter						

STANDARD STROKES

Mod. 27M and 27T (ø 20 + 40) and Mod. 27U (ø 20 + 63)

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

Series 42 cylinders

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



Mod. V-42



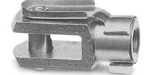
Mod. GKF



Mod. GK



Mod. GY



Mod. G



Mod. P



Mod. I



Mod. GA



Mod. T



Mod. U

CODING EXAMPLE

42	M	2	N	050	A	0200
-----------	----------	----------	----------	------------	----------	-------------

42	SERIES
M	VERSION: M= standard magnetic
2	OPERATION: 1 = single-acting, 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, through-rod, front and rear cushions 7 = single-acting, through-rod, no cushions
N	MATERIALS: N = stainless steel AISI 420B rod - stainless steel AISI 304 tube - NBR seals
050	BORE: 032 = 32 mm 040 = 40 mm 050 = 50 mm 063 = 63 mm
A	TYPE OF DESIGN: A = standard with nose nut Mod. V and piston rod lock nut Mod. U
0200	STROKE: 10 ÷ 1000 mm
* = The complete list of cylinders pneumatic symbols is available at the end of this chapter	

STANDARD STROKES

✕ = Double acting
 ■ = Single acting

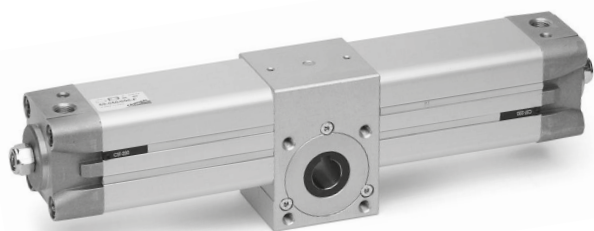
Ø	25	50	75	80	100	125	150	160	200	250	300	320	400	500
32	✕ ■	✕ ■	✕ ■	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕
40	✕ ■	✕ ■	✕ ■	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕
50	✕ ■	✕ ■	✕ ■	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕
63	✕ ■	✕ ■	✕ ■	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕

Series 69 rotary cylinders

Magnetic, cushioned

ø 32, 40, 50, 63, 80, 100, 125 mm

Rotational angles: 90°, 180°, 270° and 360°



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

* = The complete list of cylinders pneumatic symbols is available at the end of this chapter

TABLE OF TORQUE FORCE IN Nm (THEORETICAL)

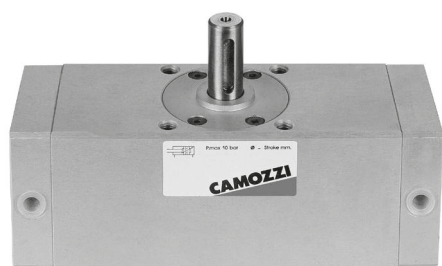
Bore	32	40	50	63	80	100	125
Work in Nm							
1 bar	1,2	2,25	3,9	7,3	15,7	26,35	51
2 bar	2,4	4,5	7,8	14,6	31,4	52,7	102
3 bar	3,6	6,75	11,7	21,9	47,1	79,05	153
4 bar	4,8	9	15,6	29,2	62,8	105,4	204
5 bar	6	11,25	19,5	36,5	78,5	131,75	255
6 bar	7,2	13,5	23,4	43,8	94,2	158,1	306
7 bar	8,4	15,75	27,3	51,1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

Series 30 rotary cylinders

Non magnetic, cushioned and not cushioned

ø 50, 63, 80, 100 mm

Rotational angles 90° and 180°



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 Not cushioned

* = The complete list of cylinders pneumatic symbols is available at the end of this chapter

TABLE OF TORQUE FORCE IN Nm (THEORETICAL)

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

Series ARP rotary actuators

Model: "Rack & Pinion"

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

Rotational angles: 90°



CODING EXAMPLE

ARP	-	001	-	1A	A	-	F0300	-	A	EX
-----	---	-----	---	----	---	---	-------	---	---	----

ARP	SERIES	
001	<p>SIZE:</p> <p>001 = torque force 9 Nm 055 = torque force 597 Nm</p> <p>003 = torque force 24 Nm 070 = torque force 825 Nm</p> <p>005 = torque force 50 Nm 100 = torque force 1122 Nm</p> <p>010 = torque force 100 Nm 150 = torque force 1655 Nm</p> <p>012 = torque force 120 Nm 250 = torque force 2648 Nm</p> <p>020 = torque force 200 Nm 400 = torque force 4800 Nm</p> <p>035 = torque force 370 Nm</p>	
1A	<p>OPERATION:</p> <p>1A = single-acting, minimum pressure of 4 bar</p> <p>1B = single-acting, minimum pressure of 5 bar</p> <p>1C = single-acting, minimum pressure of 5,5 bar</p> <p>1D = single-acting, minimum pressure of 6 bar</p> <p>2A = double-acting</p>	<p>PNEUMATIC SYMBOLS *</p> <p>CD19</p> <p>CD19</p> <p>CD19</p> <p>CD19</p> <p>CD17</p>
A	<p>ROTATION ANGLE:</p> <p>A = 90°</p>	
F0300	<p>INTERFACE FOR FLANGE (ISO 5211):</p> <p>F0300 = F03 flange and 9mm square holes</p> <p>F0305 = F03 flange holes + F05 flange and 9mm square holes</p> <p>F0400 = F04 flange and 11mm square holes</p> <p>F0507 = F05 flange holes + F07 flange and 14mm square holes</p> <p>F0705 = F07 flange holes + F05 flange and 17mm square holes</p> <p>F0710 = F07 flange holes + F10 flange and 17mm square holes</p> <p>F1007 = F10 flange holes + F07 flange and 22mm square holes</p> <p>F1210 = F12 flange holes + F10 flange and 27mm square holes</p> <p>F1400 = F14 flange and 36mm square holes</p> <p>F1600 = F16 flange and 46mm square holes</p> <p>F2516 = F25 flange + F16 flange and 55mm square holes</p>	
A	<p>MATERIALS:</p> <p>A = standard anodized</p> <p>C = CNI Kanigen type nickel-plating</p> <p>W = all FKM seals (130°C)</p>	
EX	ATEX certified product	

* = The complete list of cylinders pneumatic symbols is available at the end of this chapter

Accessories

Switch box in technopolymer Mod. SBT (standard) e SIP (ATEX version)

Mod. SIP: intrinsic safety
ATEX version with protection
modes Ex II 2 G/D
EEx ia IIC T6 for zones
classified as 1, 2, 21 and 22



Mod.
SBT-012H0-2H
SIP702L0-2H

Switch box in aluminium Mod. SBA (standard) e SIM (ATEX version)

Mod. SIM: intrinsic safety
ATEX version with protection
modes Ex II 2 G/D
EEx ia IIC T6 for zones
classified as 1, 2, 21 and 22



Mod.
SBA-0120N-2H
SIM7022N-2H

Series CGA angular grippers

Magnetic

Sizes: \varnothing 10, 16, 20, 25, 32 mm



CODING EXAMPLE

CGA	-	20
-----	---	----

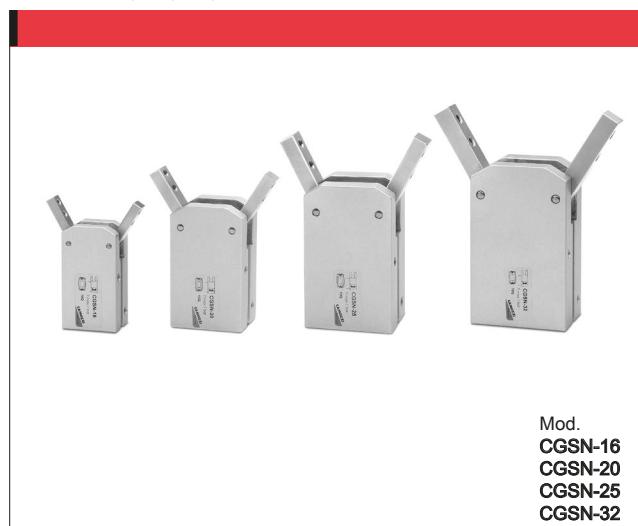
CGA	SERIES	PNEUMATIC SYMBOL * PNZ1
20	SIZES: 10 = \varnothing 10 mm 16 = \varnothing 16 mm 20 = \varnothing 20 mm 25 = \varnothing 25 mm 32 = \varnothing 32 mm	

* = The complete list of cylinders pneumatic symbols is available at the end of this chapter

Series CGSN 180° angular grippers

Magnetic

Sizes: \varnothing 16, 20, 25, 32 mm



CODING EXAMPLE

CGSN	-	20
------	---	----

CGSN	SERIES	PNEUMATIC SYMBOL * PNZ1
20	SIZES: 16 = \varnothing 16 mm 20 = \varnothing 20 mm 25 = \varnothing 25 mm 32 = \varnothing 32 mm	

* = The complete list of cylinders pneumatic symbols is available at the end of this chapter

Series CGP parallel grippers

Magnetic

Sizes: \varnothing 10, 16, 20, 25, 32 mm



CODING EXAMPLE

CGP	-	20
-----	---	----

CGP	SERIES	PNEUMATIC SYMBOL * PNZ1
20	SIZES: 10 = \varnothing 10 mm 16 = \varnothing 16 mm 20 = \varnothing 20 mm 25 = \varnothing 25 mm 32 = \varnothing 32 mm	

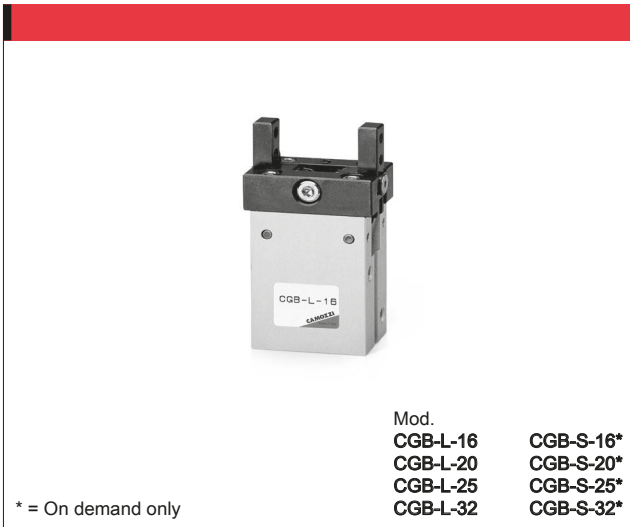
* = The complete list of cylinders pneumatic symbols is available at the end of this chapter

Series CGB guided parallel grippers

Running out of stock

Magnetic

Sizes: \varnothing 16, 20, 25, 32 mm

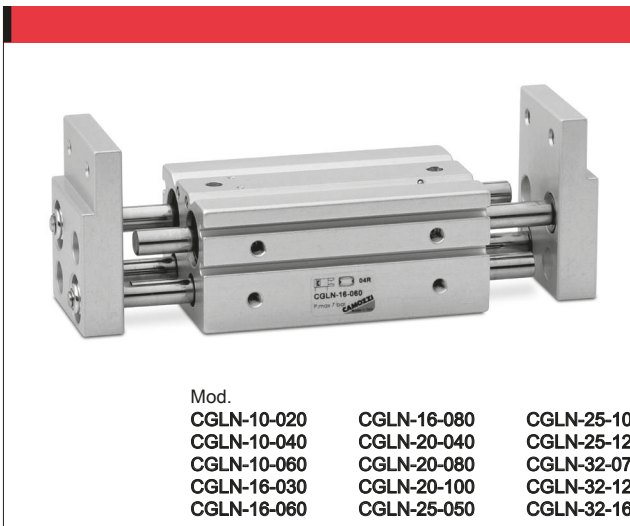


CODING EXAMPLE				
CGB	-	L	-	20
CGB	SERIES	PNEUMATIC SYMBOL * PNZ1		
L	TYPE: L = Wide finger position style S = Narrow finger position style (only on request)			
20	SIZES: 16 = \varnothing 16 mm 20 = \varnothing 20 mm 25 = \varnothing 25 mm 32 = \varnothing 32 mm			
* = The complete list of cylinders pneumatic symbols is available at the end of this chapter				

Series CGLN wide opening parallel grippers

Magnetic

Sizes: \varnothing 10, 16, 20, 25 32 mm



CODING EXAMPLE				
CGLN	-	20	-	040
CGLN	SERIES	PNEUMATIC SYMBOL * PNZ1		
20	SIZES: 10 = \varnothing 10 mm 16 = \varnothing 16 mm 20 = \varnothing 20 mm 25 = \varnothing 25 mm 32 = \varnothing 32 mm			
040	STROKE			
* = The complete list of cylinders pneumatic symbols is available at the end of this chapter				

Series CGC 3-Finger centric grippers

Magnetic

Sizes: 50, 64, 80, 100, 125 mm



CODING EXAMPLE		
CGC	-	050
CGC	SERIES	PNEUMATIC SYMBOL * PNZ1
050	SIZE: 050 = 32 mm 064 = 45 mm 080 = 58 mm 100 = 77 mm 125 = 98 mm	
* = The complete list of cylinders pneumatic symbols is available at the end of this chapter		

New

Series RPGA sprue grippers - Size 20 mm

Angular, not self-centering, single-acting, Normally Open (NO)

 Models: Flat Finger, Curved Finger, Short Finger,
Flat Finger with sensor slot, Curved Finger with sensor slot


Mod.
RPGA-20-A RPGA-20-D
RPGA-20-B RPGA-20-E
RPGA-20-C

CODING EXAMPLE

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

RPGA	SERIES	PNEUMATIC SYMBOL * PNZ2
20	SIZE: 20 = \varnothing 20 mm	
A	TYPE OF CONSTRUCTION: A = Flat finger B = Curved finger C = Short finger with holes for extra jaws D = Flat finger for sensor E = Curved finger for sensor	

* = The complete list of cylinders pneumatic symbols is available at the end of this chapter

Series RPGB sprue grippers - Size 12 mm

New

Angular, not self-centering, single-acting, Normally Open (NO)

Flat finger model



Mod.
RPGB-12-A

CODING EXAMPLE

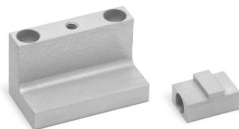
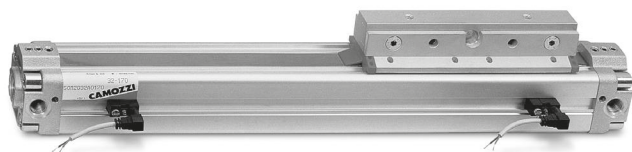
RPGB	-	12	-	A
------	---	----	---	---

RPGB	SERIES	PNEUMATIC SYMBOL * PNZ2
12	SIZE: 12 = \varnothing 12 mm	
A	TYPE OF CONSTRUCTION: A = Flat finger	

* = The complete list of cylinders pneumatic symbols is available at the end of this chapter

Series 50 rodless cylinders

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



Mod. B-50

Mod. BH-50

Mod. CF-50

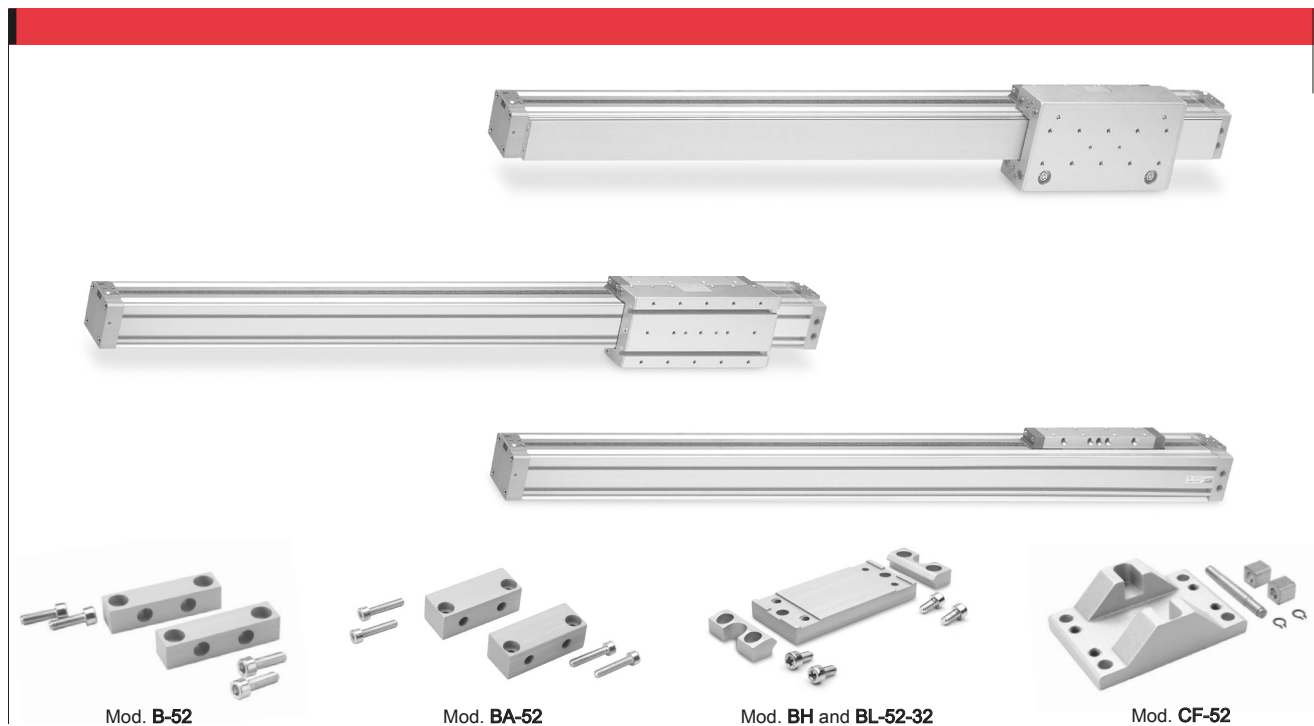
CODING EXAMPLE

50	M	2	P	50	A	0500
50	SERIES					
M	VERSION: M = standard magnetic					
2	OPERATION: 2 = double-acting cushioned				PNEUMATIC SYMBOL * CDSS	
P	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					
A	TYPE OF MOUNTING: A = standard					
0500	STROKE: for all diameters 100+4000 mm					
* = The complete list of cylinders pneumatic symbols is available at the end of this chapter						

Series 52 rodless cylinders

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

1 MOVEMENT



CODING EXAMPLE

52	M	2	P	40	A	0500
52	SERIES					
M	VERSION: M = standard G = with slide bearing R = with roller bearing (only ø 25 - 32 - 40)					
2	OPERATION: 2 = double-acting, cushioned, with air supply from both sides 8 = double-acting, cushioned, with air supply from one side only				PNEUMATIC SYMBOLS * CDSS CDSS	
P	MATERIALS: P = anodized AL profile tube, NBR and PU seals, standard carriage C = anodized AL profile, NBR and PU seals, short carriage					
40	BORE: 25 = 25 mm 32 = 32 mm 40 = 40 mm 50 = 50 mm 63 = 63 mm					
A	TYPE OF MOUNTING: A = standard					
0500	STROKE: Up to 6000 mm					
* = The complete list of cylinders pneumatic symbols is available at the end of this chapter						

Series CST, CSV and CSH magnetic proximity switches

Reed, Electronic

1
MOVEMENT



- | | | |
|-----------|--|-----------|
| Mod. | | |
| CST-220 | | CSH-223-5 |
| CSV-220 | | CSH-221-2 |
| CST-220-5 | | CSH-221-5 |
| CST-232 | | CSH-233-2 |
| CSV-232 | | CSH-233-5 |
| CST-332 | | CSH-334-2 |
| CSV-332 | | CSH-334-5 |
| CSH-223-2 | | |

Length cable: 2 or 5 metres



- | | | |
|----------|--|---------|
| Mod. | | |
| CST-250N | | CSV-362 |
| CSV-250N | | CSH-253 |
| CST-262 | | CSH-263 |
| CSV-262 | | CSH-364 |
| CST-362 | | CSH-463 |

Length cable 0,3 metres

CODING EXAMPLE

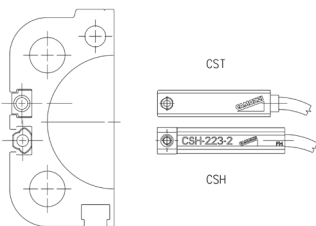
CS	T	-	2	2	0	N	-	5
----	---	---	---	---	---	---	---	---

CS	SERIES
T	SLOT TYPE: T = T-slot V = V-slot H = frontal inserting slot
2	OPERATION: 2 = reed NO 3 = electronic 4 = reed NC
2	CONNECTIONS: 2 = 2 wires (Reed only) 3 = 3 wires 5 = 2 wires with M8 connector (Reed only) 6 = 3 wires with M8 connector
0	POWER SUPPLY VOLTAGE: 0 = 10-110V DC; 10-230V AC (PNP) 1 = 30-110V DC; 30-230V AC (PNP) 2 = 3 wires cst (PNP) 3 = 10-30V AC/DC (PNP) 4 = 10-27V DC (PNP)
N	NOTE: N = ACCORDING TO NORM (CST/CSV-250N only)
5	LENGTH OF THE CABLE (for CSH only): 2 = 2 m 5 = 5 m

FIXING OF PROXIMITY SWITCHES *

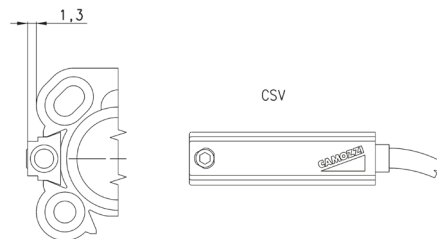
CST/CSH proximity switches can be directly mounted on the following cylinders:

- Serie 31 - 31R
- Serie 32 - 32R
- Serie 52
- Serie 61
- Serie 62 (CSH only)
- Serie 69
- Serie QC - QCBF - QCTF



CSV proximity switches must be assembled directly into the groove of cylinders:

- Serie 50 \varnothing 16+25
- Serie QP - QPR \varnothing 12+16


ACCESSORIES
Circular connectors M8, 3 Pin Female

With PU sheathing, non shielded cable

Protection class: IP65

- Mod. **CS-2** (cable 2 m)
- CS-5** (cable 5 m)
- CS-10** (cable 10 m)


Extension with connector M8, 3 Pin Male / Female

Non shielded

- Mod. **CS-DW03HB-C250** (cable 2,5 m)
- CS-DW03HB-C500** (cable 5 m)


Mounting brackets for Series CST and CSH proximity switches *

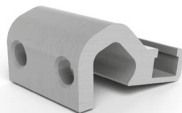
Mod. **S-CST-01**


Mounting brackets in technopolymer for Series CST and CSH proximity switches *

- Mod. **S-CST-02**
- S-CST-03**
- S-CST-04**
- S-CST-18**
- S-CST-19**
- S-CST-20**
- S-CST-21**


Mounting brackets for Series CST and CSH proximity switches *

- Mod. **S-CST-25**
- S-CST-26**
- S-CST-27**
- S-CST-28**


Mounting brackets in stainless steel for Series CST and CSH proximity switches *

- Mod. **S-CST-05**
- S-CST-06**
- S-CST-07**
- S-CST-08**
- S-CST-09**
- S-CST-10**
- S-CST-11**
- S-CST-12**

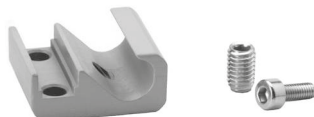

Mounting brackets for Series CST and CSH proximity switches *

for cylinders Series 60 mounted with guides

Serie 45NHT or 45NHB

Mod. **S-CST-45N1**

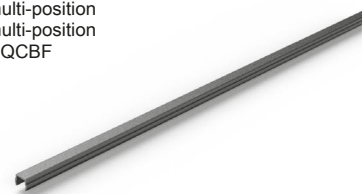
S-CST-45N2


Slot cover profile

Supplied with 500 mm tube

Slot cover profile for cylinders:

- Serie 31 - 31 tandem and multi-position
- Serie 32 - 32 tandem and multi-position
- Serie QCT - QCB - QCBT - QCBF
- Serie 61 - 69
- Mod. **S-CST-500**



* Further information in the TABLE SHOWING THE USE OF CAMOZZI MAGNETIC PROXIMITY SWITCHES on page 37

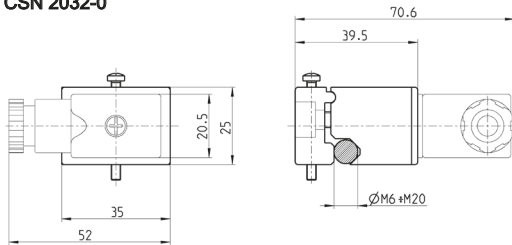
Series CSN proximity switches

Reed switch

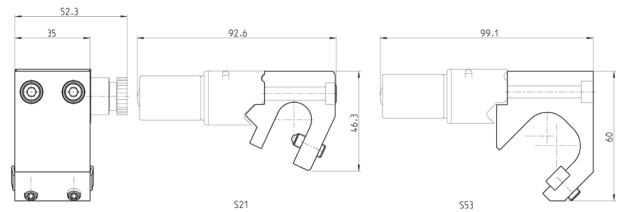


Switches Series CSN

For cylinders Series 40 from \varnothing 160 + 200
(mounting band to be ordered separately)
For cylinders Series 40 \varnothing 250 + 320
(direct mounting)
For cylinders Series 41 from \varnothing 160 - 200
(mounting band to be ordered separately)
Mod. **CSN 2032-0**



Mounting bracket for sensor Mod. CSN 2032-0
Mod. **S21** for cylinders Series 40 \varnothing 160 and 200
Mod. **S53** for cylinders Series 41 \varnothing 160 and 200



Series CSB and CSC magnetic proximity switches

Reed switches



Mod. **CSB-D-220**



Mod. **CSB-H-220**
CSC-H-220



Mod. **CSC-D-220**

CODING EXAMPLE

CS	B	-	D	-	2	20
-----------	----------	----------	----------	----------	----------	-----------

CS SERIES

B SLOT SHAPE:
B = square - C = round

D CABLE TYPE:
D = straight - H = 90°

2 OPERATION:
2 = reed

20 CONNECTION:
20 = 2 wires (Reed only)

TABLE SHOWING THE USE OF CAMOZZI MAGNETIC PROXIMITY SWITCHES

Table of brackets for proximity switches

Series	Ø	CST - CSH	CSV	CSB-D-220 / CSB-H-220	CSC-D-220 / CSB-H-220	CSN
24 - 25	16	S-CST-02				
	20	S-CST-03				
	25	S-CST-04				
27	20	S-CST-03				
	25	S-CST-04				
	32	S-CST-18				
	40	S-CST-19				
	50	S-CST-20				
	63	S-CST-21				
31	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				
32	20	Direct mounting				
	25	Direct mounting				
	32	Direct mounting				
	40	Direct mounting				
	50	Direct mounting				
	63	Direct mounting				
	80	Direct mounting				
40	160	S-CST-28				S21
	200	S-CST-28				S21
	250					Direct mounting
41	160					S53
	200					S53
42	32	S-CST-18				
	40	S-CST-19				
	50	S-CST-20				
	63	S-CST-21				
50	16		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				
52	25	Direct mounting				
	32	Direct mounting				
	40	Direct mounting				
	50	Direct mounting				
	63	Direct mounting				
60	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				
60 + 45N	32	S-CST-45N1				
	40	S-CST-45N1				
	50	S-CST-45N1				
	63	S-CST-45N1				
	80	S-CST-45N2				
	100	S-CST-45N2				
61	32	Direct mounting				
	40	Direct mounting				
	50	Direct mounting				
	63	Direct mounting				
	80	Direct mounting				
	100	Direct mounting				
	125	Direct mounting				

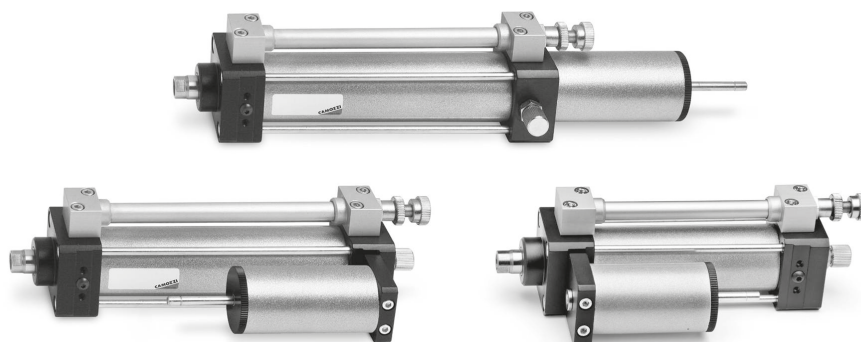
TABLE SHOWING THE USE OF CAMOZZI MAGNETIC PROXIMITY SWITCHES

Table of brackets for proximity switches					
Series	Ø	CST - CSH	CSV	CSB-D-220 / CSB-H-220	CSC-D-220 / CSC-H-220
62	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)			
69	32	Direct mounting			
	40	Direct mounting			
	50	Direct mounting			
	63	Direct mounting			
	80	Direct mounting			
	100	Direct mounting			
	125	Direct mounting			
90 - 97	32	S-CST-06			
	40	S-CST-07			
	50	S-CST-08			
	63	S-CST-09			
90	80	S-CST-10			
	100	S-CST-11			
	125	S-CST-12			
94 - 95	16	S-CST-05			
	20	S-CST-05			
94	25	S-CST-05			
95	25	S-CST-06			
CGA	10			Direct mounting	
	16			Direct mounting	
	20			Direct mounting	
	25			Direct mounting	
	32			Direct mounting	
CGB	16			Direct mounting	
	20			Direct mounting	
	25			Direct mounting	
	32			Direct mounting	
CGC	50			Direct mounting	
	64			Direct mounting	
	80			Direct mounting	
	100			Direct mounting	
	125			Direct mounting	
CGLN	10				Direct mounting
	16				Direct mounting
	20				Direct mounting
	25				Direct mounting
	32				Direct mounting
CGP	10			Direct mounting	
	16			Direct mounting	
	20			Direct mounting	
	25			Direct mounting	
	32			Direct mounting	
CGSN	16				Direct mounting
	20				Direct mounting
	25				Direct mounting
	32				Direct mounting
QC	20	Direct mounting			
	25	Direct mounting			
	32	Direct mounting			
	40	Direct mounting			
	50	Direct mounting			
	63	Direct mounting			
QP - 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			
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			
QX	10				Direct mounting
	16				Direct mounting
	20				Direct mounting
	25				Direct mounting
	32				Direct mounting

Series 43 hydrochecks

Bore \varnothing 40 mm
 Regulated thrust or return stroke
 Skip-Stop function

1 MOVEMENT



CODING EXAMPLE

43	N	-	P	S	0	-	40	-	200
----	---	---	---	---	---	---	----	---	-----

43

SERIES

N

 VERSION:
 N = standard - S = special

P

 TANK POSITION:
 L = in-line tank - P = parallel tank - D = double valve, parallel tank

S

 REGULATION:
 S = thrust (hydrocheck's rod return regulated) - T = traction (hydrocheck's rod thrust regulated)

0

 OPERATION:
 A = SKIP valve - B = SKIP + STOP valve (minimum stroke 80 mm)
 V = STOP valve - 0 = standard

40

 BORE:
 40 mm

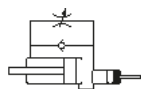
200

 STROKE:
 50, 100, 150, 200 (special stroke available on request)

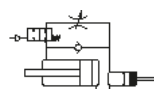
Pneumatic symbols and PART codes



Mod. 43N-LT0-40-050
 43N-LT0-40-100
 43N-LT0-40-150
 43N-LT0-40-200
 43N-PT0-40-050
 43N-PT0-40-100
 43N-PT0-40-150
 43N-PT0-40-200



Mod. 43N-PS0-40-050
 43N-PS0-40-100
 43N-PS0-40-150
 43N-PS0-40-200



Mod. 43N-LTV-40-050
 43N-LTV-40-100
 43N-LTV-40-150
 43N-LTV-40-200
 43N-PTV-40-050
 43N-PTV-40-100
 43N-PTV-40-150
 43N-PTV-40-200



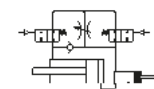
Mod. 43N-PSV-40-050
 43N-PSV-40-100
 43N-PSV-40-150
 43N-PSV-40-200



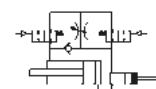
Mod. 43N-LTA-40-050
 43N-LTA-40-100
 43N-LTA-40-150
 43N-LTA-40-200
 43N-PTA-40-050
 43N-PTA-40-100
 43N-PTA-40-150
 43N-PTA-40-200



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



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



Mod. 43N-PSB-40-100
 43N-PSB-40-150
 43N-PSB-40-200

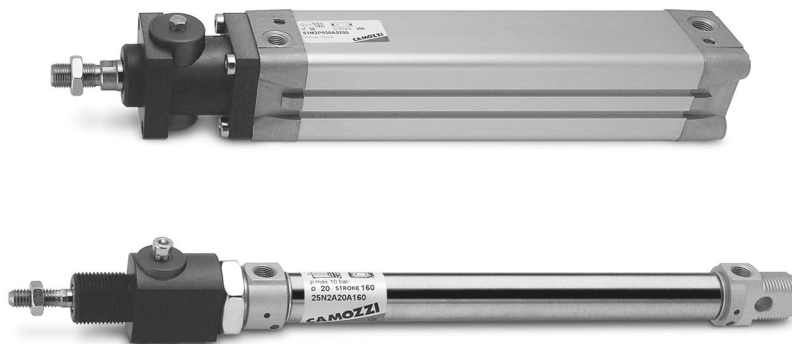
Accessories

Pump for refilling hydraulic
 speed regulator
 Mod. 43N-PMP



Series RL rod lock

For cylinders ISO 6431/VDMA and ISO 6432
 ø 20, 25, 32, 40, 50, 63, 80, 100, 125 mm



CODING EXAMPLE

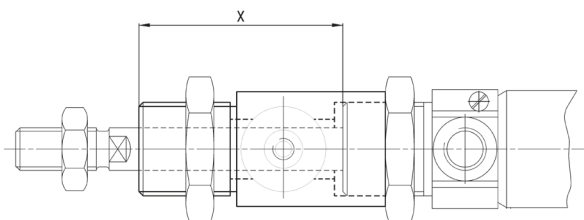
RLC	-	41	-	32
-----	---	----	---	----

RLC	SERIES: RLC = standard, complete with cartridge and housing RLB = cartridge only		
41	CYLINDER SERIES: 24 = for Series 24 and 25 41 = for Series 60, 61 and 62	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		

* = The complete list of cylinders pneumatic symbols is available at the end of this chapter

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

Series SA shock absorbers

7 different sizes

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



Mod.
SA-0806 W
SA-0806
SA-1007 W
SA-1007
SA-1210 W
SA-1210
SA-1412 W
SA-1412
SA-2015 W
SA-2015
SA-2525 W
SA-2525
SA-2725 W
SA-2725

CODING EXAMPLE

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

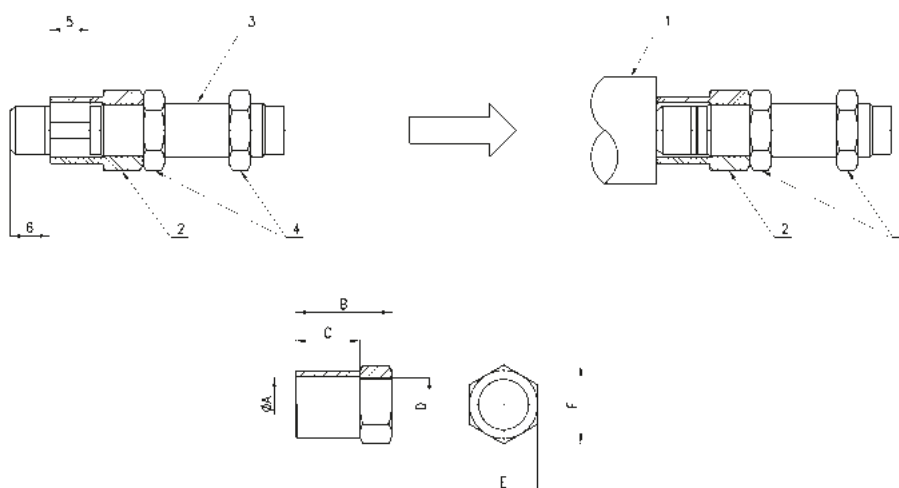
VERSION:

= standard, with cap
 W = Without cap (on request)

ADJUSTED STROKE NUT

A = Initial position
 B = Final position

- 1 = Impact object
- 2 = Adjusted stroke nut
- 3 = Shock absorber
- 4 = Fixing screw
- 5 = Stroke
- 6 = Stroke length

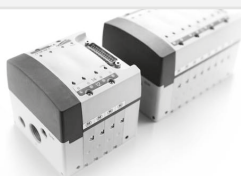


DIMENSIONS

















Mod.		Ø A	B	C	D	E	F
SA-08SC	(for SA-0806)	10,5	14	9	M8X1	11	12,7
SA-10SC	(for SA-1007)	12	16	10	M10X1	13	14,7
SA-12SC	(for SA-1210)	14,5	20	13	M12X1	16	18,5
SA-14SC	(for SA-1412)	25,8	20	15	M14X1	19	21,9
SA-20SC	(for SA-2015)	27,8	35	20	M20X1,5	26	30
SA-25SC	(for SA-2525)	5,8	45	30	M25X1,5	32	37
SA-27SC	(for SA-2725)	20,7	65	50	M27X1,5	32	37

Pneumatic symbols for cylinders










Symbol	Type	Symbol	Type
CD01	Double-acting cylinder, fixed cushions	CD9T	Non magnetic tandem cylinder, two stages, fixed cushions, separated rear and front supplies
CD02	Double-acting cylinder, cushioned	CDPP	Magnetic multi-position cylinder, fixed cushions
CD03	Double-acting cylinder, adjustable rear cushion	CDSS	Double-acting rodless cylinder, magnetic
CD04	Double-acting cylinder, adjustable front cushion	CS01	Single-acting cylinder, front spring
CD05	Double-acting cylinder, through-rod, fixed cushions	CS02	Single-acting cylinder, front spring
CD06	Double-acting cylinder, through-rod, adjustable front and rear cushion	CS03	Single-acting cylinder, non cushioned
CD07	Double-acting cylinder, magnetic	CS04	Single-acting cylinder, through-rod
CD08	Double-acting cylinder, magnetic, fixed cushions	CS05	Single-acting cylinder, through-rod, adjustable cushion
CD09	Double-acting cylinder, magnetic, adjustable cushions in both directions	CS06	Single-acting cylinder, magnetic
CD10	Double-acting cylinder, magnetic, adjustable rear cushion	CS07	Single-acting cylinder, front spring, adjustable rear cushion
CD11	Double-acting cylinder, magnetic, adjustable front cushion	CS08	Single-acting cylinder, rear spring, magnetic
CD12	Double-acting cylinder, magnetic, through-rod, fixed cushions	CS09	Single-acting cylinder, magnetic, front spring
CD13	Double-acting cylinder, magnetic, through-rod, adjustable cushions in both directions	CS10	Single-acting cylinder, through-rod
CD14	Double-acting cylinder, magnetic, through-rod	CS11	Single-acting cylinder, through-rod, adjustable rear cushion
CD15	Magnetic twin rod cylinders	CS12	Single-acting cylinder, front spring, adjustable rear cushion
CD16	Magnetic twin through-rod cylinders	CS13	Single-acting cylinder, through-rod, adjustable rear cushion
CD17	Double-acting rotary cylinder	HI01	Hydrocheck, regulated rod thrust
CD18	Double-acting rotary cylinder, magnetic	HI02	Hydrocheck, regulated rod return
CD19	Single-acting rotary cylinder	HI03	Hydrocheck, regulated rod thrust with stop valve
CD2T	Magnetic tandem cylinder, two stages, fixed cushions single rear supply, sole front supply	HI04	Hydrocheck, regulated rod return with stop valve
CD3T	Magnetic tandem cylinder, three stages, fixed cushions single rear supply, sole front supply	HI05	Hydrocheck, regulated rod thrust with skip valve
CD4T	Magnetic tandem cylinder, four stages, fixed cushions single rear supply, sole front supply	HI06	Hydrocheck, regulated rod return with skip valve
CD5T	Magnetic tandem cylinder, two stages, fixed cushions, separated rear supplies, sole front supply	HI07	Hydrocheck, regulated rod thrust with skip and stop valve
CD6T	Magnetic tandem cylinder, three stages, fixed cushions, single rear supplies, sole front supply	HI08	Hydrocheck, regulated rod return with skip and stop valve
CD7T	Magnetic tandem cylinder, two stages, fixed cushions, single rear supplies, sole front supply	PNZ1	Double-acting magnetic grippers
CD8T	Magnetic tandem cylinder, two stages, fixed cushions, separated rear and front supplies	RDLK	Rod lock device










Directly and indirectly operated 2/2, 3/2 solenoid valves

		Page
Series K8	 Directly operated solenoid valves - 8 mm 2/2-way, 3/2-way Normally Closed (NC) and Normally Open (NO)	47
Series K8B	 Pilot operated solenoid valves 2/2-way, 3/2-way Normally Closed (NC) and Normally Open (NO)	48
Series K	 Directly operated solenoid valves - 10 mm 3/2-way Normally Closed (NC) and Normally Open (NO) The solenoid valves can be mounted on a single base (with M5 ports) as well as on manifolds (with M5 ports)	49
Series KN	 Directly operated solenoid valves - 10 mm 3/2-way Normally Closed (NC)	50
Series KN HIGH FLOW	 Directly operated solenoid valves - 10 mm 3/2-way Normally Closed (NC)	51
Series W	 Directly operated solenoid valves - 15 mm 3/2-way, Normally Closed (NC) and Normally Open (NO) Monostable. The solenoid valves can be mounted on a single base (with M5 ports) as well as on manifolds (with M5 ports or cartridge ø 3 and 4)	52
Series P	 Directly operated solenoid valves - 15 mm 3/2-way, Normally Closed (NC) and Normally Open (NO) The solenoid valves can be mounted on a single base (with M5 ports) as well as on manifolds (with M5 ports or cartridge ø 3 and 4)	53
Series PL	 Directly operated solenoid valves - 15 mm 3/2-way, Normally Closed (NC) The solenoid valves can be mounted on a single base (with M5 ports) as well as on manifolds (with M5 ports or cartridge ø 3 and 4)	54
Series PN	 Directly operated solenoid valves - 15 mm 3/2-way, Normally Closed (NC) The solenoid valves can be mounted on a single base (with M5 ports) as well as on manifolds (with M5 ports or cartridge ø 3 and 4)	55
Series PD	 Directly operated solenoid valves - 15 mm 2/2-way Normally Closed (NC)	56
Series PDV	 Directly operated solenoid valves with separating diaphragm 2/2-way Normally Closed (NC)	57
Series A	 Directly operated solenoid valves - 22 mm 2/2-way, 3/2-way Normally Closed (NC) and Normally Open (NO) Monostable - bistable (with magnetic memory) Ports: M5, G1/8. Cartridge ø 4	58
Series 6	 Directly operated solenoid valves - 30 mm 2/2-way, 3/2-way Normally Closed (NC) and Normally Open (NO) Ports: G1/8, G3/8. Cartridge ø 4 Available also in version for the low temperatures up to -50°C	60
Series CFB	 Solenoid valves 2/2-way, 3/2-way Normally Closed (NC) and Normally Open (NO)	61
Series CFB Stainless steel	 Solenoid valves 2/2-way, 3/2-way Normally Closed (NC)	62
Series K8, K8B, K, KN, KN HIGH FLOW, W, P, PL, PN, PD, PDV, 6	 Accessories for solenoid valves Connectors, manifolds, bases, sub-bases and blanking plates	63

Solenoid valves / pneumatic valves

		Page
Series 8	 Pneumatic operated cartridge valves 2/2-way - 3/2-way Normally Closed (NC)	64
Series E	 Valves and solenoid valves 5/2-way monostable/bistable 5/3-way CC CO CP For individual or manifold assembly Size: 10,5 mm	65
Series EN	 Valves and solenoid valves 5/2-way, 5/3-way CC CO CP With outlets on the body For individual or manifold assembly Size: 16, 19 mm	68
Series 3	 Valves and solenoid valves 2x3/2-way, 3/2-way, 5/2-way, 5/3-way CC CO CP Ports: G1/8, G1/4	71
Series 4	 Valves and solenoid valves 3/2-way, 5/2-way, 5/3-way CC CO CP Ports: G1/8, G1/4, G1/2	74
Series 9	 Valves and solenoid valves ISO 5599/1 5/2-way, 5/3-way CC CO Ports: G1/4 (size 1), G3/8 (size 2), G1/2 (size 3)	78
Series 7	 Valves and solenoid valves VDMA 24563 (ISO 15407-1) 5/2-way, 5/3-way CC CO CP	80
Series NA	 Valves and solenoid valves 3/2-way, 5/2-way, 5/3-way CC CO CP With holes configured according NAMUR standards	82
Series U, G, A, B, H, GP	 Solenoids Version A and B Connection according to DIN 43650 and DIN 40050 standards	83








Valve islands

		Page
Series 3	 Plug-In valve islands Plug-In system for electro-pneumatically operated valves Series 3, G1/8 ports Valve functions: 2x3/2, 5/2, 5/3 CO CC CP	84
Series 3	 Fieldbus valve islands Fieldbus system combined with electro-pneumatically operated valves Series 3, G1/8 ports Interface with: Profibus-DP, CANopen, DeviceNet Valve functions: 2x3/2, 5/2, 5/3 CC CO CP	87
Series Y	 Valve islands Valve islands with pneumatics and electronics integrated. Available versions: Individual, Multipole, Fieldbus (Profibus-DP, DeviceNet, CANopen) Valve functions: 2x2/2, 2x3/2, 5/2, 5/3 CC	91
Series H	 Valve islands Valve islands with pneumatics and electronics integrated. Available versions: Multipole (PNP and NPN) and Fieldbus (Profibus-DP, DeviceNet, CANopen) Valve functions: 2x2/2, 2x3/2, 5/2, 5/3 CC	94
Series F	 Valve islands Multipole integrated electrical connection (PNP) Valve functions: 2x2/2, 2x3/2, 5/2, 5/3 CC	98
Series CP2, CC2, CD2	 Individual Fieldbus Nodes Interface with: Profibus-DP, CANopen, DeviceNet	101
Series 3 Plug-in, 3 serie, Y, H, F, CX2	 Connectors for valve islands The section includes some accessories	103




2 > Control



Mechanical / manual valves

		Page
Series 2	 Mechanically operated minivalves 3/2-way Ports: M5. Cartridge ø 4	104
Series 1, 3	 Mechanically operated valves Series 1: 3/2-way, 5/2-way. Ports: G1/8, G1/4 Series 3: 3/2-way, 5/2-way. Ports: G1/8	105
Series 3, 4	 Mechanically operated sensor valves 3/2-way, 5/2-way Ports: G1/8, G1/4	106
Series 2, 3	 Foot operated pedal electrical and pneumatic Series 3: G1/4, 5/2-way, Normally Closed (NC) and Normally Open (NO) contacts Series 2: M5, 4/2 tube, 3/2-way, Normally Closed (NC)	107
Series 2	 Manually operated console minivalves 3/2-way, 5/3-way CC CO CP Ports: M5. Cartridge ø 4	107
Series 1, 3, 4 VMS	 Manually operated valves Series 1, 3 and 4: 3/2-way, 5/2-way, 5/3-way CC CO CP. Ports: G1/8, G1/4 Series VMS: 3/2-way. Ports: G1/8, G1/4, G3/8, G1/2	108
Series 2	 Mini-handle valves Handle with incorporated micro valve 3/2-way, Normally Closed (NC) and Normally Open (NO) Handle with incorporated micro switch	110







Logic valves

		Page
Series 2L	 Basic logic valves Cartridge ø 4 mm or - and - yes - not - memory	110








Automatic valves

		Page
Series SCS, VNR, VSO, VSC, VMR	 Automatic valves Circuit selector Mod. SCS Unidirectional valves Series VNR Quick exhaust valves Series VSO - VSC Valves with adjustable exhaust Mod. VMR	111
Series VBO, VBU	 Blocking valves Unidirectional valves (VBU) and bidirectional valves (VBO) Ports: G1/8, G1/4, G3/8, G1/2	111


Flow control valves

		Page
Series SCU, MCU, SVU, MVU, SCO, MCO	 Flow control valves Unidirectional and bidirectional banjo flow control regulators Ports: M5, G1/8, G1/4, G3/8, G1/2	112
Series PSCU, PMCU, PSVU, PMVU, PSCO, PMCO	 Flow control valves Unidirectional and bidirectional flow regulators with ports M5, G1/8, G1/4, G3/8 and banjo in brass (ports M5) or in technopolymer (ports G1/8, G1/4, G3/8)	114
Series TMCU, TMVU, TMCO	 Flow control valves Unidirectional and bidirectional banjo flow control regulators Nominal diameters ø 2 - 3,8 - 5,8 - 8 mm Ports: G1/8, G1/4, G3/8, G1/2	115
Series GSCU, GMCU, GSVU, GMVU, GSCO, GMCO	 Flow control valves Unidirectional and bidirectional banjo flow control regulators Nominal diameters ø 1,5 - 3,5 - 5 mm Ports: M5, G1/8, G1/4	116
Series RFU, RFO	 Flow control valves Unidirectional and bidirectional flow control valves Ports: M5, G1/8, G1/4, G3/8, G1/2 Nominal diameters M5 = 1,5 mm; G1/8 = 2 and 3 mm; G1/4 = 4 and 6 mm; G3/8, G1/2 = 7 mm	117
Series 28	 Flow control valves Bidirectional flow control valves Ports: G1/8, G1/4, G3/8, G1/2	117









Pressure switches and vacuum switches

		Page
Series PM, TRP, 2950	 Pressure switches, transducers and pressure indicators Series PM adjustable-diaphragm pressure switches, with setting visual scale, with exchange contacts Series TRP electro-pneumatic transducers Series 2950 pressure indicators, ports M5	118
Series SWM	 Electronic miniature vacuum switches These vacuum switches are used in measuring ranges between -1 and 0 bar	119
Series SWE	 Electronic vacuum/pressure switches These vacuum sensors are available with analog and digital output	119
Series SWD	 Electronic vacuum/pressure switches With digital display High precision, easy to use	119
Series SWDN	 Electronic vacuum/pressure switches With digital display High precision, easy to use	120
Series SWC	 Electronic vacuum/pressure switches With digital display High precision, easy to use	120
Series SWCN	 Electronic vacuum/pressure switches With digital display High precision, easy to use	120

Silencers

		Page
Series 29...	 Silencers Ports: M5, G1/8, G1/4, G3/8, G1/2, G3/4, G1	122

Proportional technology

		Page
Series AP	 Directly operated proportional valves 2/2-way proportional valves, NC Size: 16 - 22 mm	123
Series CP	 Directly operated proportional solenoid valves 2/2-way, NC Nominal diameters: 1 mm - 1.5 mm - 2 mm	124
Series 130	 Electronic control device for proportional valves 3/3-way directly operated servo valves for the flow control	125
Series LR	 Analogic proportional servo valves 3/3-way	126
Series LRWD2, LRPD2	 Digital proportional servo valves 3/3-way directly operated servo valves for the flow (LRWD2) and pressure control (LRPD2)	127
Series K8P	 Electronic proportional micro regulator Proportional regulator for the pressure control	128
Series MX-PRO	 Electronic proportional regulator Ports: G1/2. Manifold ports: G1/2 Modular - Available with built-in pressure gauges or ports for gauges	129
Series ER100, ER200	 Digital electro-pneumatic regulators Series ER100 ports: G1/4 Series ER200 ports: G1/4, G3/8	130

Series K8 directly operated solenoid valves - 8 mm

2/2-way, 3/2-way

Normally closed (NC) and normally open (NO)

For detailed information about suitable accessories, see page 63



CODING EXAMPLE

K8	0	00	-	3	0	3	-	K	2	3
-----------	----------	-----------	----------	----------	----------	----------	----------	----------	----------	----------

K8 SERIES

0 BODY DESIGN:
0 = single valve

00 NUMBER OF POSITIONS:
00 = valve without seat

3 NUMBER OF WAYS - FUNCTIONS:
0 = single base
3 = 3-way NC
4 = 3-way NO
5 = 2-way NC
6 = 2-way NO

0 MATERIALS AND SEALS:
0 = poppet, FKM seals

3 NOMINAL DIAMETER:
3 = \varnothing 0,5 mm (working pressure 1 + 7 bar)
6 = \varnothing 0,5 mm (working pressure -1 + 4 bar)
5 = \varnothing 0,7 mm (working pressure -1 + 3 bar)

K MATERIALS:
K = zinc-plated steel body, brass cage

2 ELECTRICAL CONNECTION:
2 = pin interface pitch 4 mm

3 SOLENOID VOLTAGE:
1 = 6V DC (0,6 W)
2 = 12V DC (0,6 W)
3 = 24V DC (0,6 W)

Available versions

Single body for Series K8 solenoid valve

Material: anodized aluminium

Pneumatic connections: M5 threads

Mod. **K8303/14C**



Series K8B pilot operated solenoid valves

2/2-way - 3/2-way

Normally Closed (NC) and Normally Open (NO)

For detailed information about suitable accessories, see page 63



2

CONTROL

CODING EXAMPLE

K8B	C5	4	00	-	D4	3	2	N	-	N	00	1A	C003
-----	----	---	----	---	----	---	---	---	---	---	----	----	------

K8B SERIES**C5** BODY DESIGN:
C0 = body with interface for subbase - C3 = threaded body - C5 = cartridge**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 - 03 = M7 - 18 = K8B-type interface, 2-way - 19 = K8B-type interface, 3-way**D4** NOMINAL DIAMETER:
D4 = \varnothing 3.6 mm**3** SEALS MATERIALS:
3 = FKM**2** BODY MATERIALS:
1 = aluminium - 2 = brass**N** MANUAL OVERRIDE:
N = not foreseen**N** FIXING ACCESSORIES:
N = not foreseen - P = screws for plastics - M = screws for metal**00** OPTION:
00 = no option**1A** ELECTRICAL CONNECTION:
1A = only pins, pitch 4 mm - 1B = JST connector, pitch 4 mm**C003** VOLTAGE - POWER CONSUMPTION:
C001 = 6V DC (0.6 W) - C002 = 12V DC (0.6 W) - C003 = 24V DC (0.6 W)

Available versions

Body with threaded ports, 2/2-way NC and NO
Supplied with:
1x connector with flying leads Mod. 120-J803 (300mm)
Mod. **K8BC3103-D431N-N001B***
K8BC3203-D431N-N001B*
* = enter the required voltage
(see the CODING EXAMPLE)



Body with threaded ports, 3/2-way NC and NO
Supplied with:
1x connector with flying leads Mod. 120-J803 (300mm)
Mod. **K8BC3403-D431N-N001B***
K8BC3503-D431N-N001B*
* = enter the required voltage
(see the CODING EXAMPLE)



Body for sub-base, 2/2-way NC and NO
Supplied with:
1x connector with flying leads Mod. 120-J803 (300mm)
2x interface seals
2x screws M3x6 UNI 5931 (for M version)
or
2x screws M3x6 UNI 10227 (for P version)
Mod. **K8BC0118-D431N-*001B****
K8BC0218-D431N-*001B**
* = enter the type of screws
** = enter the required voltage
(see the CODING EXAMPLE)



Body for sub-base, 3/2-way NC and NO
Supplied with:
1x connector with flying leads Mod. 120-J803 (300mm)
3x interface seals
2x screws M3x6 UNI 5931 (for M version)
or
2x screws M3x6 UNI 10227 (for P version)
Mod. **K8BC0419-D431N-*001B****
K8BC0519-D431N-*001B**
* = enter the type of screws
** = enter the required voltage
(see the CODING EXAMPLE)

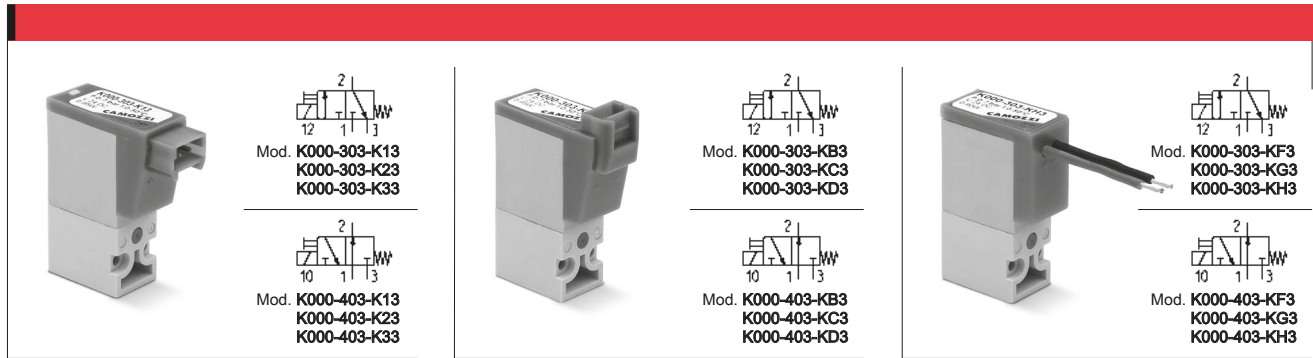


Series K directly operated solenoid valves - 10 mm

3/2-way, normally closed (NC) and normally open (NO)

The solenoid valves can be mounted on a single base (with M5 ports) as well as on manifolds (with M5 ports)

For detailed information about suitable accessories, see page 63



CODING EXAMPLE

K	0	00	-	3	0	3	-	K	2	3
---	---	----	---	---	---	---	---	---	---	---

K

SERIES

0

BODY DESIGN:

 0 = single sub-base (only M5) or interface
 1 = manifold

00

NUMBER OF POSITIONS:

 00 = interface
 01 = single base (only M5)
 02 + 99 = manifold number of positions

3

NUMBER OF WAYS - FUNCTIONS:

 0 = manifold or single base
 3 = 3-way NC
 4 = 3-way NO
 5 = 3-way NC electric part revolved by 180°
 6 = 3-way NO electric part revolved by 180°

0

PORTS:

 0 = interface
 2 = M5 side outlets

3

NOMINAL DIAMETER:

 3 = \varnothing 0,65

K

MATERIALS:

 K = PBT body, HNBR poppet
 F = PBT body, FKM poppet

2

ELECTRICAL CONNECTION:

 1 = 90° connection with protection and led
 2 = 90° connection with protection
 3 = 90° connection
 B = in-line connection with protection and led
 C = in-line connection with protection
 D = in-line connection
 F = cable (300 mm) with protection and led
 G = cable (300 mm) with protection
 H = cable only (300 mm)

3

SOLENOID VOLTAGE:

 1 = 6V DC
 2 = 12V DC
 3 = 24V DC

FIXING:

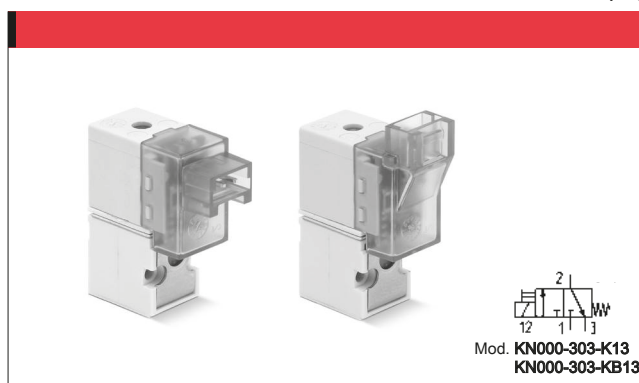
 = standard version for mounting on plastic interface
 M = with screws for mounting on metal interfaces (on demand)

Series KN directly operated solenoid valves - 10 mm

3/2-way

Normally closed (NC)

For detailed information about suitable accessories, see page 63



CODING EXAMPLE

KN	0	00	-	3	0	3	-	K	1	3	
----	---	----	---	---	---	---	---	---	---	---	--

KN SERIES

0 BODY DESIGN:
0 = single valve

00 NUMBER OF POSITIONS:
00 = interface

3 NUMBER OF WAYS - FUNCTIONS:
3 = 3/2-way NC

0 PORTS:
0 = single valve

3 NOMINAL DIAMETER:
3 = \varnothing 0,65

K MATERIALS:
K = PBT body, HNBR poppet, NBR other seals
F = PBT body, FKM poppet, NBR other seals (FKM upon request)

1 ELECTRICAL CONNECTION:
1 = 90° connection with protection and led
B = in-line connection with protection and led

3 SOLENOID VOLTAGE:
2 = 12V DC
3 = 24V DC (1.3W) inrush (0.25W holding)
other voltages are available upon request

FIXING:
= with screws for plastics (standard)
M = with screws for metal

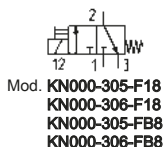
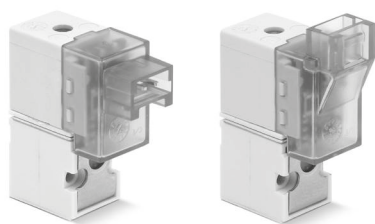
Series KN High Flow directly operated solenoid valves - 10 mm

New

3/2-way

Normally closed (NC)

For detailed information about suitable accessories, see page 63



CODING EXAMPLE

KN	0	00	-	3	0	5	-	F	1	8	
-----------	----------	-----------	----------	----------	----------	----------	----------	----------	----------	----------	--

KN SERIES

0 BODY DESIGN:
0 = single valve

00 NUMBER OF POSITIONS:
00 = interface

3 NUMBER OF WAYS - FUNCTIONS:
3 = 3/2-way NC

0 PORTS:
0 = single valve

5 NOMINAL DIAMETER:
5 = \varnothing 1.1 7 bar
6 = \varnothing 1.1 3 bar

F MATERIALS:
F = PBT body, FKM poppet seal, NBR other seals (FKM upon request)

1 ELECTRICAL CONNECTION:
1 = 90° connection with protection and led
B = in-line connection with protection and led

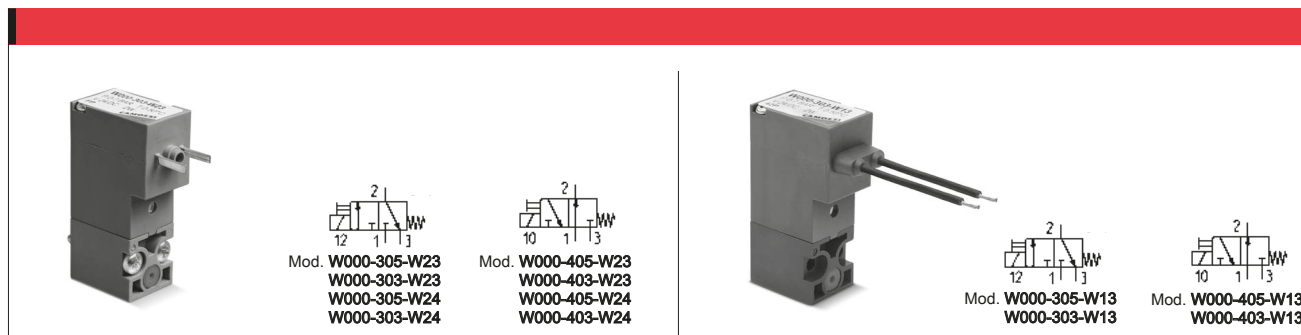
8 SOLENOID VOLTAGE:
8 = 24V DC (4W) inrush (1W holding)

FIXING:
= with screws for plastics (standard)
M = with screws for metal

Series W directly operated solenoid valves - 15 mm

3/2-way, normally closed (NC) and normally open (NO). Monostable. The solenoid valves can be mounted on a single base (with M5 ports) as well as on manifolds (with M5 ports or cartridge \varnothing 3 and 4)

For detailed information about suitable accessories, see page 63



2

CONTROL

CODING EXAMPLE

W	0	00	-	3	0	3	-	W	2	3	
---	---	----	---	---	---	---	---	---	---	---	--

W

SERIES

0

BODY DESIGN:

- 0 = single sub-base (only M5) or interface
- 1 = single manifold
- 2 = double manifold

00

NUMBER OF POSITIONS:

- 00 = interface
- 01 = single base (M5 only)
- 02 + 99 = manifold number of positions

3

NUMBER OF WAYS - FUNCTIONS:

- 0 = manifold or single sub-base
- 3 = 3-way NC - 4 = 3-way NO
- 5 = 3-way NC electric part revolved by 180°
- 6 = 3-way NO electric part revolved by 180°

0

VALVE PORTS:

- 0 = interface

MANIFOLD PORTS (for Series W, P and PN):

- 2 = M5 side
- 3 = tube \varnothing 3 side
- 4 = tube \varnothing 4 side
- 6 = M5 rear ports
- 7 = \varnothing 3 tube rear ports
- 8 = \varnothing 4 tube rear ports

3

NOMINAL DIAMETER - MAX PRESSURE:

- 1 = \varnothing 0,8 (1W) 10 bar (NC) 24V only
- 3 = \varnothing 1,5 (2W) 7 bar (NC) 5 bar (NO)
- 5 = \varnothing 1,1 NC (2W) 10 bar (NC)
- \varnothing 0,9 NO (2W) 10 bar (NO)

W

MATERIALS:

W = technopolymer PBT body, FKM poppet seal, other seals in NBR (FKM on demand)

2

ELECTRICAL CONNECTION:

- 1 = cables 300 mm (24V DC only)
- 2 = 2 faston (24V - 48V DC)

3

SOLENOID VOLTAGE:

- 3 = 24V DC
- 4 = 48V DC

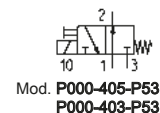
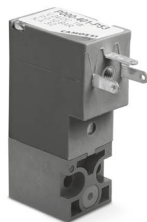
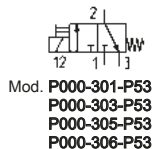
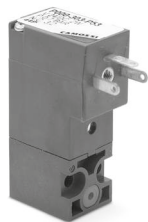
FIXING:

- = with screws for metal (standard)
- P = with screws for plastics

Series P directly operated solenoid valves - 15 mm

3/2-way, normally closed (NC) and normally open (NO). The solenoid valves can be mounted on a single base (with M5 ports) as well as on manifolds (with M5 ports or cartridge \varnothing 3 and 4)

For detailed information about suitable accessories, see page 63



CODING EXAMPLE

P	0	00	-	3	0	3	-	P	5	3	
---	---	----	---	---	---	---	---	---	---	---	--

P SERIES

0 BODY DESIGN:
 0 = single sub-base (M5 only) or interface
 1 = single manifold
 2 = double sided manifold

00 NUMBER OF POSITIONS:
 00 = interface
 01 = single base (M5 only)
 02 + 99 = manifold number of positions

3 NUMBER OF WAYS - FUNCTIONS:
 0 = manifold or single base
 3 = 3-way NC
 4 = 3-way NO
 5 = 3-way NC electric part revolved by 180°
 6 = 3-way NO electric part revolved by 180°

0 VALVE PORTS:
 0 = interface (for single valve only)

MANIFOLD PORTS (for Series W, P and PN):
 2 = M5 side port
 3 = \varnothing 3 tube side port
 4 = \varnothing 4 tube side port
 6 = M5 rear ports
 7 = \varnothing 3 tube rear ports
 8 = \varnothing 4 tube rear ports

3 NOMINAL DIAMETER - MAX PRESSURE
 1 = \varnothing 0,8 (1W) 10 bar (NC) 24V only
 3 = \varnothing 1,5 (2W) 7 bar (NC) 5 bar (NO)
 5 = \varnothing 1,1 NC (2W) 10 bar (NC)
 \varnothing 0,9 NO (2W) 10 bar (NO)
 6 = \varnothing 1,5 NC (2W) 3 bar (NC) (Voltage tolerance from +10% to -25%)

P MATERIALS:
 P = technopolymer PBT body, FKM poppet seal, other seals in NBR (FKM on demand)

5 ELECTRICAL CONNECTION:
 5 = 3 faston pitch 9,4

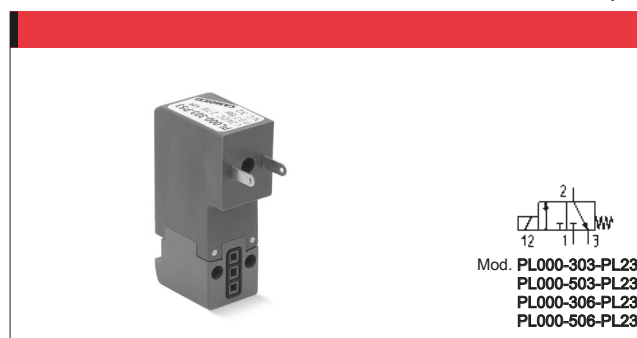
3 SOLENOID VOLTAGE:
 B = 24V 50/60 Hz
 C = 48V 50/60 Hz
 D = 110V 50/60 Hz
 3 = 24V DC
 4 = 48V DC 6 = 110V

FIXING:
 = with screws for metal (standard)
 P = with screws for plastics

Series PL directly operated solenoid valves - 15 mm

New

3/2-way, normally closed (NC). These solenoid valves can be mounted on a single base (with M5 ports) as well as on manifolds (with M5 ports or cartridge \varnothing 3 and 4)
 For detailed information about suitable accessories, see page 63



CODING EXAMPLE

PL	0	00	-	3	0	3	-	PL	2	3
PL	SERIES									
0	BODY DESIGN: 0 = single sub-base (M5 only) or interface 1 = single manifold 2 = double sided manifold									
00	NUMBER OF POSITIONS: 00 = interface 01 = single base (M5 only) 02 + 99 = manifold number of positions									
3	NUMBER OF WAYS - FUNCTIONS: 0 = manifold or single base 3 = 3-way NC 5 = 3-way NC electric part revolved by 180°									
0	VALVE PORTS: 0 = interface (for single valve only) MANIFOLD PORTS: 2 = M5 side port 3 = \varnothing 3 tube side port 4 = \varnothing 4 tube side port 6 = M5 rear ports 7 = \varnothing 3 tube rear ports 8 = \varnothing 4 tube rear ports									
3	NOMINAL DIAMETER 3 = \varnothing 1,5 6 = \varnothing 1,5 NC (for use with vacuum)									
PL	MATERIALS: PL = technopolymer PBT body, FKM poppet seal, other seals in NBR									
2	ELECTRICAL CONNECTION: 2 = 2 faston pitch 9,4									
3	SOLENOID VOLTAGE: 3 = 24V DC 2 = 12V DC									

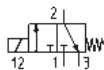
2

CONTROL

Series PN directly operated solenoid valves - 15 mm

3/2-way, normally closed (NC). The solenoid valves can be mounted on a single base (with M5 ports) as well as on manifolds (with M5 ports or cartridge \varnothing 3 and 4)

For detailed information about suitable accessories, see page 63



Mod. PN000-301-P53

CODING EXAMPLE

PN	0	00	-	3	0	1	-	P	5	3	
----	---	----	---	---	---	---	---	---	---	---	--

PN SERIES

0 BODY DESIGN:
 0 = single sub-base
 1 = single manifold
 2 = double sided manifold

00 NUMBER OF POSITIONS:
 00 = interface
 01 = single base (M5 only)
 02 + 99 = manifold number of positions

3 NUMBER OF WAYS - FUNCTIONS:
 0 = manifold or single base
 3 = 3-way NC

0 VALVE PORTS:
 0 = interface (for single valve only)

MANIFOLD PORTS (for Series W, P and PN):
 2 = M5 side port
 3 = \varnothing 3 tube side port
 4 = \varnothing 4 tube side port
 6 = M5 rear ports
 7 = \varnothing 3 tube rear ports
 8 = \varnothing 4 tube rear ports

1 NOMINAL DIAMETER - MAX PRESSURE
 1 = \varnothing 0,8 (1W) 10 bar (NC) 24V only

P MATERIALS:
 P = PBT body, PU poppet seal

5 ELECTRICAL CONNECTION:
 5 = 3 faston pitch 9,4

3 SOLENOID VOLTAGE:
 3 = 24V DC
 4 = 48V DC
 6 = 110V DC
 7 = 205V DC

FIXING:
 = standard for the mounting on plastic interfaces
 M = with screw for the mounting on metal interface (on demand)

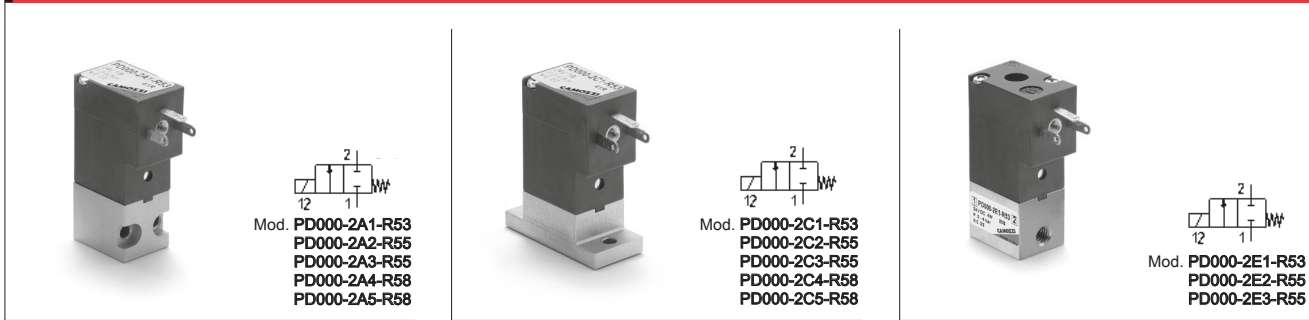
Series PD directly operated solenoid valves - 15 mm

New

2/2-way

Normally closed (NC)

For detailed information about suitable accessories, see page 63



2

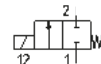
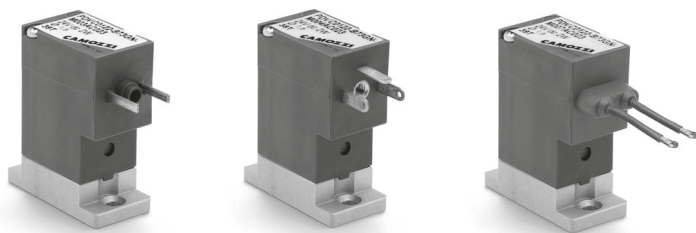
CONTROL

CODING EXAMPLE											
PD	0	00	-	2	A	1	-	R	5	3	
PD	SERIES										
0	BODY DESIGN: 0 = single body										
00	NUMBER OF POSITIONS: 00 = interface										
2	NUMBER OF WAYS - FUNCTIONS: 2 = 2-way NC										
A	BODY MATERIALS AND VALVE PORTS: A = aluminium body, rear pneumatic interface C = aluminium body, low pneumatic interface E = brass body, M5 ports (for ø up to 1.6 mm)										
1	NOMINAL DIAMETER: 1 = ø 0.8 2 = ø 1.2 3 = ø 1.6 4 = ø 2 5 = ø 2.5										
R	POPPET SEAL MATERIALS: R = NBR F = FKM (on request)										
5	ELECTRICAL CONNECTION: 5 = 3 faston pitch 9,4										
3	SOLENOID VOLTAGE: 1 = 12V DC 1W 2 = 12V DC 2W 3 = 24V DC 1W 5 = 24V DC 2W 8 = 24V DC 4W										
	FIXING: = with screws for metal (standard) P = with screws for plastics										

Series PDV directly operated solenoid valves with separating diaphragm

2/2-way Normally Closed (NC)

For detailed information about suitable accessories, see page 63



Mod. PDVC0122-A73GN-M00* PDVC0122-B73GN-M00*
 PDVC0122-A73GN-MVC* PDVC0122-B73GN-MVC*
 PDVC0122-A74GN-M00* PDVC0122-B74GN-M00*
 PDVC0122-A74GN-MVC* PDVC0122-B74GN-MVC*
 PDVC0122-A75GN-M00* PDVC0122-B75GN-M00*
 PDVC0122-A75GN-MVC* PDVC0122-B75GN-MVC*
 PDVC0122-B33GN-M00* PDVC0122-C13GN-M00*
 PDVC0122-B33GN-MVC* PDVC0122-C13GN-MVC*
 PDVC0122-B34GN-M00* PDVC0122-C14GN-M00*
 PDVC0122-B34GN-MVC* PDVC0122-C14GN-MVC*
 PDVC0122-B35GN-M00* PDVC0122-C15GN-M00*
 PDVC0122-B35GN-MVC* PDVC0122-C15GN-MVC*

* = to complete the code, add ELECTRICAL CONNECTION (see the CODING EXAMPLE)

CODING EXAMPLE

PDV	C0	1	22	-	B7	3	G	N	-	M	00	4A	C023
-----	----	---	----	---	----	---	---	---	---	---	----	----	------

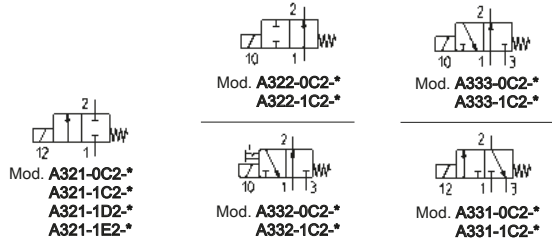
PDV	SERIES
C0	BODY DESIGN: 0 = body with interface for subbase
1	NUMBER OF WAYS - FUNCTIONS: 1 = 2/2-way NC
22	PNEUMATIC CONNECTIONS: 22 = PDV-type interface, 2-way
B7	NOMINAL DIAMETER: A7 = \varnothing 0.8 mm B3 = \varnothing 1.2 mm B7 = \varnothing 1.6 mm C1 = \varnothing 2.0 mm
3	SEAL MATERIAL: 3 = FKM 4 = EPDM 5 = FFKM
G	BODY MATERIAL: G = PEEK
N	MANUAL OVERRIDE: N = not foreseen
M	FIXING ACCESSORIES: M = screws for metal
00	OPTIONS: 00 = none VC = for vacuum applications
4A	ELECTRICAL CONNECTION: 3A = DIN 43650 connector (C Form), pitch 8 mm 3C = DIN 43650 connector (C Form), pitch 8 mm with coil rotated 180° 4A = DIN 43650 connector (C Form), pitch 9.4 mm 4C = DIN 43650 connector (C Form), pitch 9.4 mm with coil rotated 180° 7A = cables (L = 300 mm) 7C = cables (L = 300 mm) with coil rotated 180°
C023	VOLTAGE - ABSORPTION: C017 = 6V DC 2W C020 = 12V DC 2W C023 = 24V DC 2W

Series A directly operated solenoid valves - 22 mm

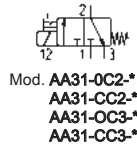
2/2-way, 3/2-way

Normally closed (NC) and normally open (NO). Monostable - bistable (with magnetic memory).

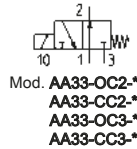
Ports: M5, G1/8. Cartridge \varnothing 4



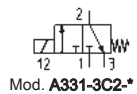
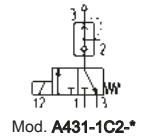
* = choose the most suitable solenoid (see the coding example)
Note: For the use of NO valves in line, use the coil model U771 or U7K1 or G771 or G7K1



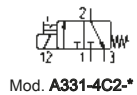
* = choose the most suitable solenoid (see the coding example)
Note: For the use of NO valves in line, use the coil model U771 or U7K1 or G771 or G7K1



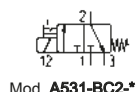
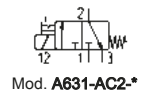
* = choose the most suitable solenoid (see the coding example)



* = choose the most suitable solenoid (see the coding example)



* = choose the most suitable solenoid (see the coding example)



* = choose the most suitable solenoid (see the coding example)

CODING EXAMPLE

A	3	3	1	-	0	C	2	-	U7	7
----------	----------	----------	----------	----------	----------	----------	----------	----------	-----------	----------

A SERIES

3 BODY DESIGN:
 1 = base (24x24 mm) interface rotatable through 360°
 2 = base (24x24 mm) fixed interface
 3 = threaded body
 4 = rapid exhaust body
 5 = base with ISO standard interface, fixed body in technopolymer
 6 = (16x16 mm) interface rotatable through 360°
 A = single manifold
 B = 2-part manifold
 C = 3-part manifold
 D = 4-part manifold
 E = 5-part manifold
 F = 6-part manifold
 G = 7-part manifold
 H = 8-part manifold
 K = 9-part manifold
 L = 10-part manifold
 M = 11-part manifold
 N = 12-part manifold
 P = 13-part manifold
 R = 14-part manifold
 S = 15-part manifold

3 NUMBER OF PORTS:
 2 = 2 way
 3 = 3 way

1 FUNCTION:
 1 = NC
 2 = NO
 3 = NO in line

0 PORTS:

	1	2	3
0	M5	M5	M5
1	G1/8	G1/8	M5
3	M5	G1/8 male	M5
4	M5	G1/8 male	M5 with manual override
A	swivel O-ring interface		M5
B	fixed O-ring interface		M5
C	cartridge ø 4		

C NOMINAL DIAMETER:
 C = ø 1,5
 D = ø 2
 E = ø 2,5

2 BODY MATERIAL:
 2 = nickel-plated brass
 3 = technopolymer

U ENCAPSULATING MATERIAL / SOLENOID DIMENSIONS:
 A8 = PPS / 30x30
 G7 = PA / 22x22
 G8 = PA / 30x30 (24 V DC only)
 G9 = PA / 22x58
 H8 = PA 6 V0 / 30x30
 U7 = PET / 22x22

7 SOLENOID VOLTAGE:

		U7**	G7**	A8**	H8**	G9**
B	24V AC 50/60Hz	-	-	5VA	5,3VA	-
C	48V AC 50/60Hz	-	-	-	5,3VA	-
D	110V AC 50/60Hz	-	-	5VA	5,3VA	-
E	230V AC 50/60Hz	-	-	5VA	5,3VA	-
F	380V AC 50/60Hz	7VA	7VA	-	-	-
H	24V 50/60Hz 3,5VA	3,5VA	-	-	-	-
	12V DC	3,1W	3,1W	-	-	-
K	72V DC	4,8W	4,8W	-	-	-
	110V AC 50/60Hz	3,8VA	3,8VA	-	-	-
	125V AC 50/60Hz	5,5VA	5,5VA	-	-	-
K1*	72V DC	5,6W	5,6W	-	-	-
	110V AC 50/60Hz	5,8VA	5,8VA	-	-	-
	125V AC 50/60Hz	8,3VA	8,3VA	-	-	-
J	230V AC 50/60Hz	3,5VA	3,5VA	-	-	-
	240V AC 50/60Hz	4VA	4VA	-	-	-
1	6V DC	5,1W	5,1W	-	-	-
2	12V DC	5W	5W	-	-	-
3	24V DC	5W	5W	4W	5,4W	4/2W
4	48V DC	5,3W	5,3W	4W	-	-
6	110V DC	4,2W	4,2W	-	-	-
7	24V DC	3,1W	3,1W	-	-	-
	48V AC 50/60 Hz	3,5VA	3,5VA	-	-	-
71*	24V DC	3,1W	3,1W	-	-	-
	48V AC 50/60Hz	3,5VA	3,5VA	-	-	-
9	48V DC	3,1W	3,1W	-	-	-
10	110V DC	3,2W	3,2W	-	-	-

* = only for valves NO in-line

** = substitute 0 with letter or number at the beginning of the line

Series 6 directly operated solenoid valves - 30 mm

2/2-way - 3/2-way. Normally closed (NC) and normally open (NO). Ports: G1/8, G3/8. Cartridge ø 4

Available also in version for the low temperatures up to -50°C

For detailed information about suitable accessories, see page 63

	<p>Mod. 638-150-A6*</p>		<p>Mod. 638M-101-A6* 63CM-101-A6*</p>
* = choose the suitable solenoid (see the coding example)		* = choose the suitable solenoid (see the coding example)	

	<p>Mod. 600-450-A6* 600-457-A6*</p>		<p>Mod. 623-15E-A6* 623-15F-A6* 623-15G-A6*</p>
* = choose the suitable solenoid (see the coding example)		* = choose the suitable solenoid (see the coding example)	

2

CONTROL

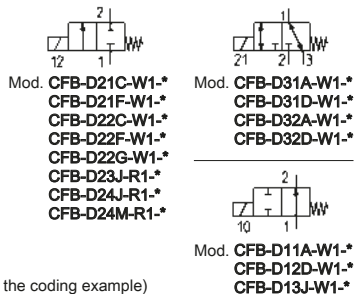
CODING EXAMPLE

6	3	8	M	-	105	-	A	6	B
---	---	---	---	---	-----	---	---	---	---

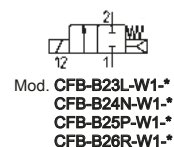
6	SERIES
3	NUMBER OF PORTS AND FUNCTIONS: 0 = interface 1 = 2 way NO 2 = 2 way NC 3 = 3 way NC 4 = 3 way NO
8	CONNECTION: 0 = interface 3 = G3/8 8 = G1/8 C = cartridge ø 4
M	M = manifold
105	TYPE OF BODY: 150 = threaded body 450 = base with rotatable interface 457 = base with fixed interface 101 = single manifold 102 = 2 - part manifold 103 = 3 - part manifold 104 = 4 - part manifold 105 = 5 - part manifold 106 = 6 - part manifold 107 = 7 - part manifold 108 = 8 - part manifold 109 = 9 - part manifold 110 = 10 - part manifold 111 = 11 - part manifold 112 = 12 - part manifold 113 = 13 - part manifold 114 = 14 - part manifold 115 = 15 - part manifold
A	COIL MATERIAL: A = PPS
6	SOLENOID DIMENSIONS: 6 = 32x32
B	SOLENOID VOLTAGE: B = 24V 50/60Hz D = 110V 50/60 Hz E = 230V 50/60 Hz 2 = 12V DC 3 = 24V DC 4 = 48V DC 6 = 110V DC
	VERSIONS: = standard LT = for low temperatures

Series CFB solenoid valves

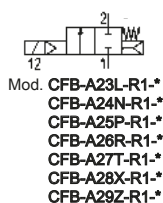
2/2-way, 3/2-way
Normally closed (NC) and normally open (NO)



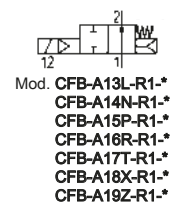
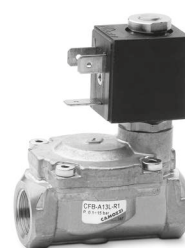
* = choose the suitable solenoid (see the coding example)



* = choose the suitable solenoid (see the coding example)



* = choose the suitable solenoid (see the coding example)



* = choose the suitable solenoid (see the coding example)

CODING EXAMPLE

CFB - A 1 3 L - R 1 - B7 E

CFB

SERIES

A

OPERATION:
A = indirect
B = direct with linked diaphragm
D = direct

1

NUMBER OF WAYS - POSITIONS:
1 = 2/2-way NO
2 = 2/2-way NC
3 = 3/2-way NC

3

CONNECTIONS:
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

L

NOMINAL DIAMETER:
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 - X = 45 mm - Z = 50 mm

R

DIAPHRAGM MATERIAL:
R = NBR - W = FKM - E = EPDM (ond demand)

1

BODY MATERIAL:
1 = brass
2 = alimentary anti-limestone nickel-plated brass for high temperatures (on demand)
3 = alimentary nickel-plated brass (on demand)

B7

SOLENOID DIMENSION:
B7 = 22 mm - B8 = 30 mm - B9 = 36 mm

E

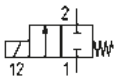
SOLENOID VOLTAGE:
B = 24V AC 50 Hz
D = 110V AC 50/60 Hz
E = 230V AC 50/60 Hz
2 = 12V DC
3 = 24V DC

NOTE: for some directly operated 2/2 NO solenoid valves, the solenoid to be used is the B8*K type
((for further details see also the TABLE FOR THE COUPLING BETWEEN SOLENOIDS AND VALVES in the Camozzi's catalogue on page 2/1.30.03)

Series CFB Stainless Steel solenoid valves

New

2/2-way, 3/2-way
Normally closed (NC)



- Mod. CFB-D21A-...X-*
 CFB-D21B-...X-*
 CFB-D21C-...X-*
 CFB-D22B-...X-*
 CFB-D22C-...X-*
 CFB-D22E-...X-*
 CFB-D23E-...X-*
 CFB-D23F-...X-*
 CFB-D24E-...X-*
 CFB-D24F-...X-*

* = choose the suitable solenoid (see the coding example)

2

CONTROL

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

A NOMINAL 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 (on demand)

X BODY MATERIAL:
X = stainless steel

B8 SOLENOID DIMENSION:
B8 = 30 mm



















E SOLENOID VOLTAGE:
B = 24V AC 50 Hz
D = 110V AC 50/60 Hz
E = 230V AC 50/60 Hz
2 = 12V DC
3 = 24V DC

Accessories for solenoid valves

Connectors, manifolds, bases, sub-bases and blanking plates

2

CONTROL

<p>Connectors with crimped cable for Series K8 Cable section: 0.25 mm² Cable external diameter: 1.2 mm Material for the cable insulation: PVC Mod. 120-803 (cable 300 mm) 120-806 (cable 600 mm)</p> 	<p>Connector J with crimped cable for Series K8 and K8B Cable section: 0.25 mm² Cable external diameter: 1.2 mm Material for the cable insulation: PVC Mod. 120-J803 (cable 300 mm)</p> 	<p>Connectors with crimped cable for Series K, KN and KN High Flow Mod. 121-803 (cable 300 mm) 121-806 (cable 600 mm) 121-810 (cable 1000 mm) 121-830 (cable 3000 mm)</p> 
<p>Connectors DIN 43650, pin spacing 9,4 mm for Series P, PL, PN, PD and PDV Mod. 125-601 125-701 125-800</p> 	<p>Connectors DIN 43650, pin spacing 9,4 mm with cable for Series P, PL, PN, PD and PDV The internal rectifier circuit of the connector Mod. 125-900 allows to use solenoid valves with different AC voltage, even if the voltage indicated on the solenoid valve is DC Mod. 125-501-2 (cable 2000 mm) 125-550-1 (cable 1000 mm) 125-601-2 (cable 2000 mm) 125-571-3 (cable 3000 mm) 125-900 (cable 2000 mm)</p> 	<p>In-line connectors with moulded cable for Series P, PL, PN, PD and PDV Mod. 125-503-2 (cable 2000 mm) 125-503-5 (cable 5000 mm) 125-553-2 (cable 2000 mm) 125-553-5 (cable 5000 mm)</p> 
<p>In-line connectors with moulded cable and bridge rectifier for Series P, PL, PN, PD and PDV Mod. 125-903-2 (cable 2000 mm) 125-903-5 (cable 5000 mm)</p> 	<p>Connectors DIN 43650 pin spacing 8 mm for Series PDV and W To be used in all DC valves with voltages from 6 to 110 V Mod. 126-550-1 (cable 1000 mm) 126-800 126-701</p> 	<p>Connectors DIN 43650 for Series 6 Protection class IP65 Mod. 124-800 124-702 124-701 124-703</p> 
<p>Single manifolds with rear outlets for Series W, P, PL and PN Mod. P102-0* (2 positions) P103-0* (3 positions) P104-0* (4 positions) P105-0* (5 positions) P106-0* (6 positions)</p>  <p>* = see the MANIFOLD PORTS in the CODING EXAMPLE TABLE of the reference Series</p>	<p>Single manifolds with front outlets for Series W, P, PL and PN This manifold is arranged to be fixed through DIN 46277/3 guide together with the accessory PCF-E520 Mod. P102-0* (2 positions) P103-0* (3 positions) P104-0* (4 positions) P105-0* (5 positions) P106-0* (6 positions)</p>  <p>* = see the MANIFOLD PORTS in the CODING EXAMPLE TABLE of the reference Series</p>	<p>Double sided manifolds with rear outlets for Series W, P, PL and PN Mod. P204-0* (4 positions) P206-0* (6 positions) P208-0* (8 positions) P210-0* (10 positions) P212-0* (12 positions)</p>  <p>* = see the MANIFOLD PORTS in the CODING EXAMPLE TABLE of the reference Series</p>
<p>Double sided manifolds with front outlet for Series W, P, PL and PN This manifold is arranged to be fixed through DIN 46277/3 guide together with the accessory PCF-E520 Mod. P204-0* (4 positions) P206-0* (6 positions) P208-0* (8 positions) P210-0* (10 positions) P212-0* (12 positions)</p>  <p>* = see the MANIFOLD PORTS in the CODING EXAMPLE TABLE of the reference Series</p>	<p>Manifold with side outlets and conveyed inlet and exhaust for Series K Note: use solenoid valves with mounting screws on metal interfaces (see the CODING EXAMPLE TABLE of Series K) Mod. K1**-02 ** = N° of positions</p> 	<p>Single sub-base for Series P, PL and PN Mod. P001-02</p> 
<p>Single sub-base for Series K Note: use solenoid valves with mounting screws on metal interfaces (see the CODING EXAMPLE TABLE of Series K) Mod. K001-02</p> 	<p>Excluder tap for Series K Supplied with: 1x excluder tap 1x interface seal 2x screws Mod. K000-TP</p> 	<p>Excluder tap for Series P, PL and PN Supplied with: 1x excluder tap, 1x interface seal, 2x screws Mod. P000-TP</p> 

Series 8 pneumatic operated cartridge valves

New

2/2-way, 3/2-way
Normally closed (NC)



2

CONTROL

CODING EXAMPLE

8	10	C5	1	00	-	F1	3	2
---	----	----	---	----	---	----	---	---

8 SERIES

10 TAGLIA:
10 = Size 1
20 = Size 2
30 = Size 3

C5 BODY DESIGN:
C5 = cartridge

1 NUMBER OF WAYS - FUNCTIONS:
1 = 2/2-way NC or 3/2-way NC
NOTE: The function depends on the seat used (for further details see the Camozzi's catalogue)

00 PNEUMATIC CONNECTIONS:
00 = cartridge

F1 DIAMETRO NOMINALE:
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

Series E valves and solenoid valves

5/2-way monostable/bistable - 5/3-way CC CO CP

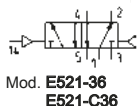
For individual or manifold assembly

Size: 10,5 mm

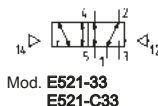
2

CONTROL

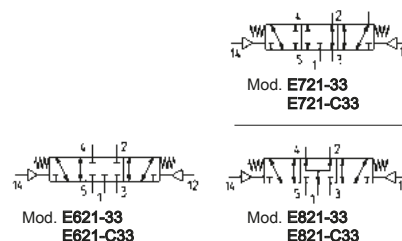
With outlets on the body



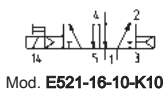
With outlets on the body



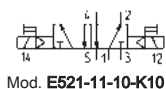
With outlets on the body



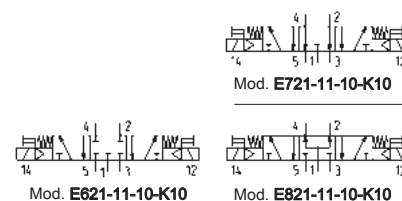
With outlets on the body



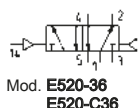
With outlets on the body



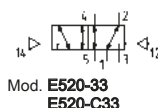
With outlets on the body



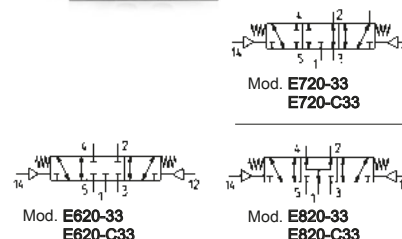
Body for sub-base



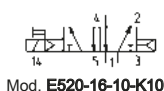
Body for sub-base



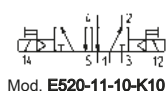
Body for sub-base



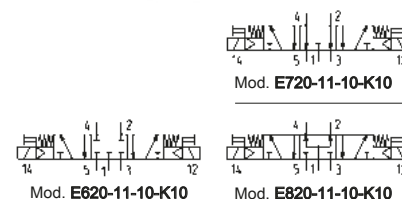
Body for sub-base



Body for sub-base



Body for sub-base



CODING EXAMPLE											
E	5	2	1	-	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										
1	BODY TYPE: 1 = body with threaded plate 0 = body for sub-base										
11	ACTUATION: 11 = electro-pneumatic, bistable 16 = electro-pneumatic, monostable 33 = pneumatic bistable - 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 DIMENSION: 1 = 10x10										
3	SOLENOID VOLTAGE: 1 = 6V DC 2 = 12V DC 3 = 24V DC										

Sub-bases and manifolds

		
Mod. E521-10** ** = number of positions	Mod. E520-0101	Mod. E520-21** E520-2C** ** = number of positions

CODING EXAMPLE

E5	2	1	-	1	0	02
E5	SERIES					
2	SIZE: 2 = size 10,5					
1	BODY TYPE: 0 = body for sub-base assembly 1 = body with threads or tube port					
1	TYPE OF SUB-BASE: 0 = single sub-base with side outlets 1 = manifold for threaded valve 2 = manifold for body mounted valve					
0	PORTS: 0 = for valves with outlets on the body 1 = threaded C = tube 4					
02	N° OF POSITIONS: 01 = single 03, 04, 06, 08, 10, 12 = multiple					

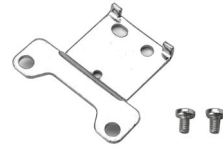
NOTE: When constructing manifolds with 10 or more stations, it is recommended, in order to reduce the risk of pressure drop within the assembly, that pressure is supplied to port 1 at each end of the block. The exhaust ports 3 and 5 at each end should also be utilized (size 10,5 and 16 mm). The same provision should be made for 5 station manifolds of the 19 mm valves. Manifolds complete with ports for external pilot supply are available on request.

Accessories

**Mounting brackets for DIN rail
DIN EN 50022 (7,5 mm x 35 mm - width 1)**
Suitable for all manifolds
Supplied with:
2x plates
2x screws M4x6 UNI 5931
Mod. **PCF-E520**



**Horizontal mounting foot bracket
for valves with outlets on the body**
The following is supplied:
1x foot bracket, 2x screws
Mod. **B1-E521**



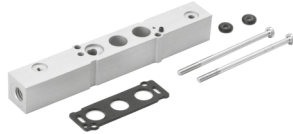
**Vertical mounting foot bracket for
valves with outlets on the body
(monostable valves only)**
The following is supplied:
1x foot bracket, 2x screws
Mod. **B2-E521**



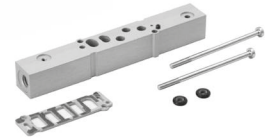
Blanking plate for manifolds
The following is supplied:
1x blanking plate,
2x screws, 1x seal
Mod. **TP-E521** (valves with outlets on the body)
TP-E520 (valves mounted on sub-base)



**Intermediate plate for valves to
provide a separate supply in 1**
Base mounted valves
The following is supplied:
1x plate, 2x screws,
1x interface seal, 2x O-Ring
Mod. **PCP-E521**



**Intermediate plate for valves to
provide a separate supply in 1**
Base mounted valves
The following is supplied:
1x plate, 2x screws,
1x interface seal, 2x O-Ring
Mod. **PCP-E520**



Intermediate plate for valves to provide separate supply in 3 and 5
The following is supplied:
1x plate, 2x screws,
1x interface seal, 2x O-Ring
Mod. **PCS-E521** (valves with outlets on the body)
PCS-E520 (valves mounted on sub-base)



Series EN valves and solenoid valves

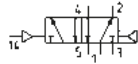
5/2-way, 5/3-way CC CO CP

With outlets on the body. For individual or manifold assembly

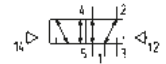
Size 16, 19 mm

2

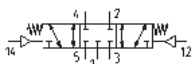
CONTROL



Mod. **EN531-36**
EN551-36



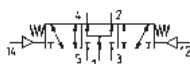
Mod. **EN531-33**
EN551-33



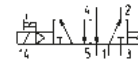
Mod. **EN631-33**
EN651-33



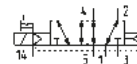
Mod. **EN731-33**
EN751-33



Mod. **EN831-33**
EN851-33



Mod. **EN531-16-P***
EN551-16-P*
EN531-16-PN*
EN551-16-PN*
EN531-16-W*
EN551-16-W*

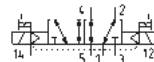


Mod. **EN531-16-P***
EN551-16-P*
EN531-E16-PN*
EN551-E16-PN*
EN531-E16-W*
EN551-E16-W*

* = choose the most suitable solenoid (see the coding example)



Mod. **EN531-E11-P***
EN551-E11-P*
EN531-E11-PN*
EN551-E11-PN*
EN531-E11-W*
EN551-E11-W*

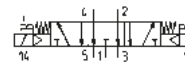


Mod. **EN531-E11-P***
EN551-E11-P*
EN531-E11-PN*
EN551-E11-PN*
EN531-E11-W*
EN551-E11-W*

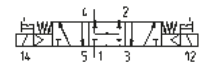
* = choose the most suitable solenoid (see the coding example)



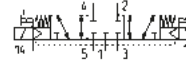
Mod. **EN631-E11***
EN651-E11*



Mod. **EN731-E11***
EN751-E11*



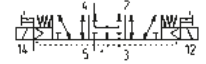
Mod. **EN831-E11***
EN851-E11*



Mod. **EN631-E11***
EN651-E11*

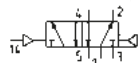


Mod. **EN731-E11***
EN751-E11*

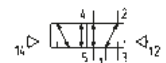


Mod. **EN831-E11***
EN851-E11*

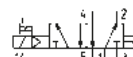
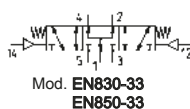
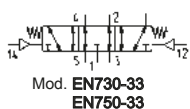
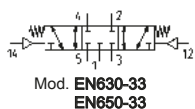
* = choose the suitable solenoid (see the coding example)



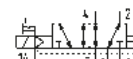
Mod. **EN530-36**
EN550-36



Mod. **EN530-33**
EN550-33

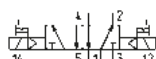


Mod. **EN530-16-P***
EN550-16-P*
EN530-16-PN*
EN550-16-PN*
EN530-16-W*
EN550-16-W*

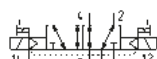


Mod. **EN530-16-P***
EN550-16-P*
EN530-E16-PN*
EN550-E16-PN*
EN530-E16-W*
EN550-E16-W*

* = choose the most suitable solenoid (see the coding example)

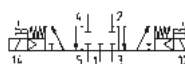


Mod. **EN530-11-P***
EN550-11-P*
EN530-11-PN*
EN550-11-PN*
EN530-11-W*
EN550-11-W*



Mod. **EN530-E11-P***
EN550-E11-P*
EN530-E11-PN*
EN550-E11-PN*
EN530-E11-W*
EN550-E11-W*

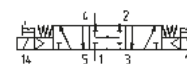
* = choose the most suitable solenoid (see the coding example)



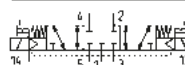
Mod. **EN630-11-P***
EN650-11-P*



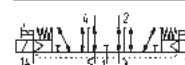
Mod. **EN730-11-P***
EN750-11-P*



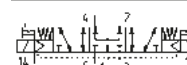
Mod. **EN830-11-P***
EN850-11-P*



Mod. **EN630-E11-P***
EN650-E11-P*



Mod. **EN730-E11-P***
EN750-E11-P*



Mod. **EN830-E11-P***
EN850-E11-P*

* = choose the suitable solenoid (see the coding example)

CODING EXAMPLE

EN	5	3	1	-	11	-	PN3
----	---	---	---	---	----	---	-----

EN	SERIES
5	FUNCTION: 5 = 5/2 6 = 5/3 Centre Closed 7 = 5/3 Centre Open 8 = 5/3 Pressure Centre
3	SIZE: 3 = size 16 5 = size 19
1	BODY TYPE: 1 = body with threaded plate 0 = body for sub-base
11	ACTUATION: 11 = electro-pneumatic, bistable 16 = electro-pneumatic, monostable 33 = pneumatic bistable 36 = pneumatic monostable E11 = electro-pneumatic, bistable with external servo-pilot supply E16 = electro-pneumatic, monostable with external servo-pilot supply
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 P56 = 110V DC - 2W W53 = 24V DC - 2W W54 = 48V DC - 2W

In case of applications with alternate current, use a bridge rectifier connector

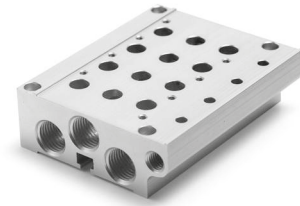
Manifolds

Manifolds for valves size 16 and 19
(outlets on the body valve)

Mod. EN531-1002	EN551-1002
EN531-1003	EN551-1003
EN531-1004	EN551-1004
EN531-1005	EN551-1005
EN531-1006	EN551-1006
EN531-1008	EN551-1008
EN531-1010	EN551-1010
EN531-1012	EN551-1012

Manifolds for valves size 16 and 19
(outlets on manifolds)

Mod. EN530-2102	EN550-2102
EN530-2103	EN550-2103
EN530-2104	EN550-2104
EN530-2105	EN550-2105
EN530-2106	EN550-2106
EN530-2108	EN550-2108
EN530-2110	EN550-2110
EN530-2112	EN550-2112



Accessories

Blanking plate for manifolds - valves with outlets on the body

The following is supplied:

- 1x blanking plate,
- 2x screws,
- 1x seal

Mod. **TP-EN531**
TP-EN551

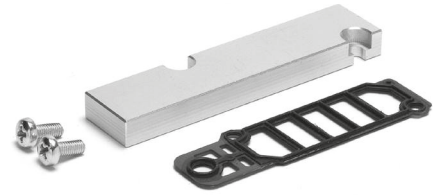


Blanking plate for manifolds - base mounted valves

The following is supplied:

- 1x blanking plate,
- 2x screws,
- 1x seal

Mod. **TP-EN530**
TP-EN550



Mounting brackets for DIN rail DIN EN 50022 (7,5 mm x 35 mm - width 1)

Suitable for all manifolds.

Supplied with:

- 2x plates,
- 2x screws M4x6 UNI 5931
- 2x nuts

Mod. **PCF-EN531**



Connectors DIN 43650, pin spacing 9,4 mm

Mod. **125-601**

125-701
125-800



Connectors DIN 43650, pin spacing 9,4 mm with cable

The internal rectifier circuit of the connector Mod. 125-900 allows to use solenoid valves with different AC voltage, even if the voltage indicated on the solenoid valve is DC

Mod. **125-501-2** (cable 2000 mm)

125-550-1 (cable 1000 mm)

125-601-2 (cable 2000 mm)

125-571-3 (cable 3000 mm)

125-900 (cable 2000 mm)



Connectors DIN 43650 pin spacing 8 mm

To be used in all DC valves with voltages from 6 to 110 V

Mod. **126-550-1** (cable 1000 mm)

126-800
126-701



In-line connectors with moulded cable

Mod. **125-503-2** (cable 2000 mm)

125-503-5 (cable 5000 mm)

125-553-2 (cable 2000 mm)

125-553-5 (cable 5000 mm)



In-line connectors with moulded cable and bridge rectifier

Mod. **125-903-2** (cable 2000 mm)

125-903-5 (cable 5000 mm)



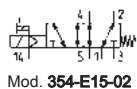
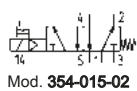
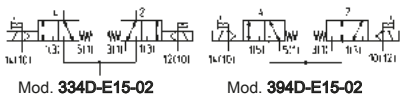
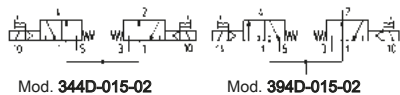
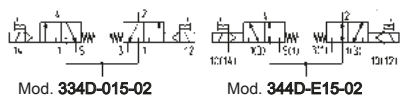
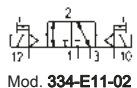
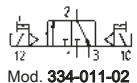
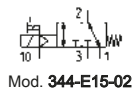
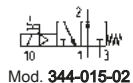
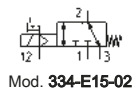
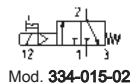
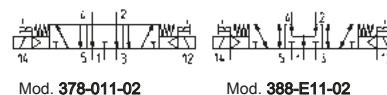
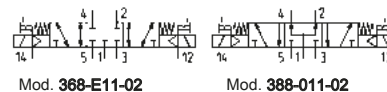
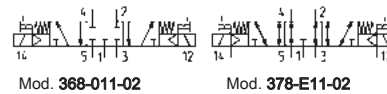
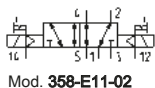
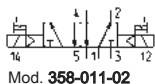
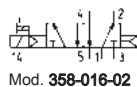
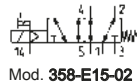
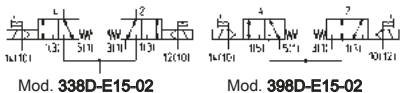
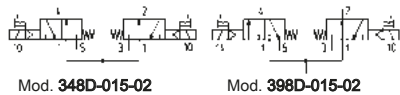
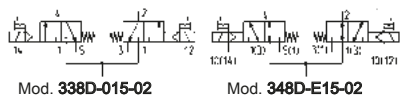
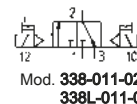
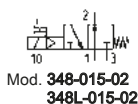
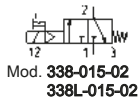
Series 3 valves and solenoid valves

2x3/2-way, 3/2-way, 5/2-way, 5/3-way CC CO CP

Ports: G1/8, G1/4

2

CONTROL



  <p>Mod. 354-011-02</p>  <p>Mod. 354-E11-02</p>	  <p>Mod. 364-011-02</p>  <p>Mod. 364-E11-02</p>  <p>Mod. 374-011-02</p>  <p>Mod. 384-011-02</p>  <p>Mod. 384-E11-02</p>	
  <p>Mod. 338-035 338L-035 334-035</p>	  <p>Mod. 338-033 338L-033 334-033</p>	  <p>Mod. 358-035 354-035</p>
  <p>Mod. 358-033 354-033</p>	  <p>Mod. 368-033/364-033</p>  <p>Mod. 378-033/374-033</p>  <p>Mod. 388-033/384-033</p>	  <p>Mod. 388D-035/384D-035</p>  <p>Mod. 348D-035/344D-035</p>  <p>Mod. 398D-035/394D-035</p>

CODING EXAMPLE

3	3	8	D	-	015	-	02	-	U7	7	
----------	----------	----------	----------	----------	------------	----------	-----------	----------	-----------	----------	--

- 3** SERIES
- 3** NUMBER OF WAYS - POSITIONS:
3 = 3/2 NC - 4 = 3/2 NO - 5 = 5/2 - 6 = 5/3 CC - 7 = 5/3 CO - 8 = 5/3 CP - 9 = 1x3/2 NC + 1x3/2 NO
- 8** PORTS:
8 = G1/8 - 4 = G1/4
- D** VERSION:
= standard
D = double valve 2x3/2
L = for manifold assembly (only for solenoid valves 3/2 with G1/8 ports)
- 015** ACTUATION:
011 = double solenoid - 015 = single solenoid, spring return - 016 = single solenoid, pneumatic spring return
E11 = double solenoid external servo-command - E15 = single solenoid, external servo-command - 033 = pneumatic pneumatic - 035 = pneumatic spring
- 02** SOLENOID INTERFACE:
02 = mech. sol. 22 x 22
- U7** ENCAPSULATING MATERIAL / SOLENOID DIMENSIONS:
A8 = PPS / 30 x 30
G7 = PA / 22 x 22
G8 = PA / 30 x 30 (solo 24 V DC)
G9 = PA / 22 x 58
H8 = PA 6 V0 / 30 x 30
U7 = PET / 22 x 22

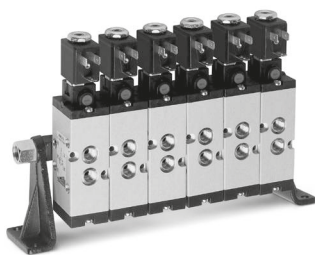
7	SOLENOID VOLTAGE:											
		U7**	G7**	A8**	H8**	G9**		U7**	G7**	A8**	H8**	G9**
B	24V AC 50/60Hz	-	-	5VA	5,3VA	-	J	230V AC 50/60Hz	3,5VA	3,5VA	-	-
C	48V AC 50/60Hz	-	-	-	5,3VA	-		240V AC 50/60Hz	4VA	4VA	-	-
D	110V AC 50/60Hz	-	-	5VA	5,3VA	-	1	6V DC	5,1W	5,1W	-	-
E	230V AC 50/60Hz	-	-	5VA	5,3VA	-	2	12V DC	5W	5W	-	-
F	380V AC 50/60Hz	7VA	7VA	-	-	-	3	24V DC	5W	5W	4W	5,4W
H	24V 50/60Hz	3,5VA	3,5VA	-	-	-	4	48V DC	5,3W	5,3W	4W	-
	12V DC	3,1W	3,1W	-	-	-	6	110V DC	4,2W	4,2W	-	-
K	72V DC	4,8W	4,8W	-	-	-	7	24V DC	3,1W	3,1W	-	-
	110V AC 50/60Hz	3,8VA	3,8VA	-	-	-		48V AC 50/60Hz	3,5VA	3,5VA	-	-
	125V AC 50/60Hz	5,5VA	5,5VA	-	-	-	71*	24V DC	3,1W	3,1W	-	-
K1*	72V DC	5,6W	5,6W	-	-	-		48V AC 50/60Hz	3,5VA	3,5VA	-	-
	110V AC 50/60Hz	5,8VA	5,8VA	-	-	-	9	48V DC	3,1W	3,1W	-	-
	125V AC 50/60Hz	8,3VA	8,3VA	-	-	-	10	110V DC	3,2W	3,2W	-	-
J	230V AC 50/60Hz	3,5VA	3,5VA	-	-	-	* = Only for valve models NO in line					
	240V AC 50/60Hz	4VA	4VA	-	-	-	** = Substitute 0 with letter or number at the beginning of the line					

TYPE OF MANUAL OVERRIDE:
= bistable, standard
IL = bistable, lever type (available on demand)
IM = monostable (available on demand)

Accessories
Manifold bars with separate exhausts (low version)

The following is supplied:
2x feet, 1x manifold,
1x inlet fitting, 1x plug,
4x washers

Mod. **CNV-318-2**
CNV-318-3
CNV-318-4
CNV-318-5
CNV-318-6


Manifold bars with separate exhausts (high version)

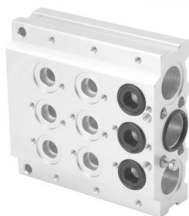
The following is supplied:
2x feet, 1x manifold,
1x inlet fitting, 1x plug,
4x washers

Mod. **CNV-328-2**
CNV-328-3
CNV-328-4
CNV-328-5
CNV-328-6


Initial / final Module with three positions

The following is supplied:
3x interface O-Rings manifold/manifold,
2x fixing nuts,
2x junction plugs,
9x interface seals valve/manifold (CNVL-3H3)
or 3x interface seals valve/manif. (CNVL-4H3),
6x fixing screws for valves

Mod. **CNVL-3H3**
CNVL-4H3


Initial / final Module with 2 positions

Initial module with 2 positions
The following is supplied:
3x interface O-Rings manifold/manifold,
2x fixing nuts,
2x junction plugs,
6x interface seals valve/manifold (CNVL-3H2)
or 2x interface seals valve/manif. (CNVL-4H2),
4x fixing screws for valves

Mod. **CNVL-3H2**
CNVL-4H2


Intermediate module with 3 positions

The following is supplied:
3x interface O-Rings manifold/manifold,
2x fixing nuts,
2x junction plugs,
9x interface seals valve/manifold (CNVL-3I3)
or 3x interface seals valve/manif. (CNVL-4I3),
6x fixing screws for valves

Mod. **CNVL-3I3**
CNVL-4I3


Intermediate module with 2 positions

The following is supplied:
3x interface O-Rings manifold/manifold;
2x fixing nuts,
2x junction plugs,
6x interface seals valve/manifold (CNVL-3I2)
or 2x interface seals valve/manif. (CNVL-4I2),
4x fixing screws for valves

Mod. **CNVL-3I2**
CNVL-4I2


Intermediate module with 1 position

The following is supplied:
3x interface O-Rings manifold/manifold,
2x fixing nuts,
2x junction plugs,
3x interface seals valve/manifold (CNVL-3I1)
or 1x interface seal valve/manif. (CNVL-4I1),
2x fixing screws for valves

Mod. **CNVL-3I1**
CNVL-4I1


Terminal module

The following is supplied:
2x fixing nuts

Mod. **CNVL-3H**
CNVL-4H


Interface module manifold between Series 3 G1/8 and G1/4

The following is supplied:

3x interface seal,
2x screws,
2x pins,
4x plugs,
6x O-Rings

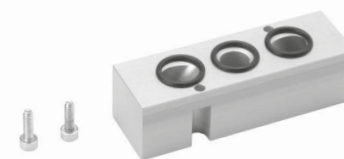
Mod. **CNVL-4H-3H**


Intermediate plate for additional inlet and exhaust pressure

The following is supplied:

3x O-Rings,
2x fixing screws

Mod. **CNVL-3H**
CNVL-4H


Separation diaphragm

For separation of channel: 1 - 3 - 5.

The following is supplied:

1x diaphragm

Mod. **CNVL-3H-TP** for Series 3, G1/8
CNVL-4H-TP for Series 3, G1/4


Blanking plug for TCNVL manifolds

The following is supplied:

1x blanking plug,
1x O-Ring

Mod. **TCNVL/3** for Series 3, G1/8
TCNVL/5 for Series 3, G1/4


Blanking plate

Accessory for Series CNVL manifolds

The following is supplied:

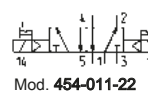
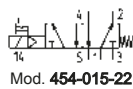
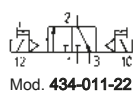
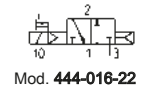
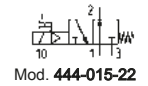
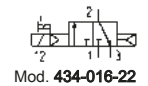
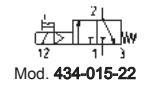
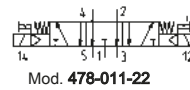
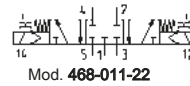
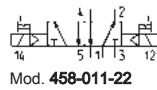
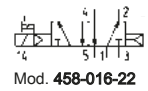
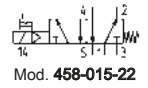
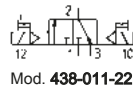
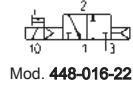
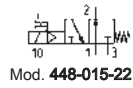
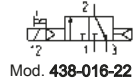
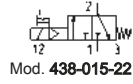
2x fixing screws,
3x O-Rings

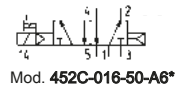
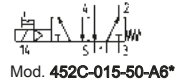
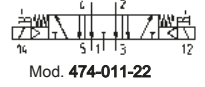
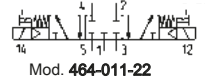
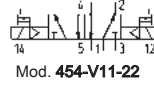
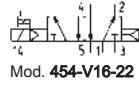
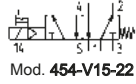
Mod. **CNVL/1**
CNVL/4



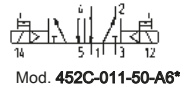
Series 4 valves and solenoid valves

3/2-way, 5/2-way, 5/3-way CC CO CP
Ports: G1/8, G1/4, G1/2

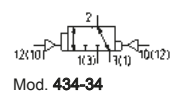
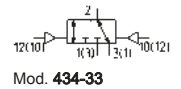
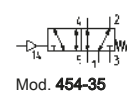
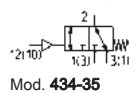
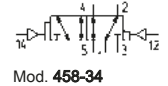
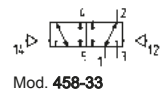
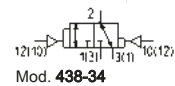
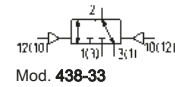
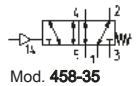
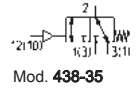


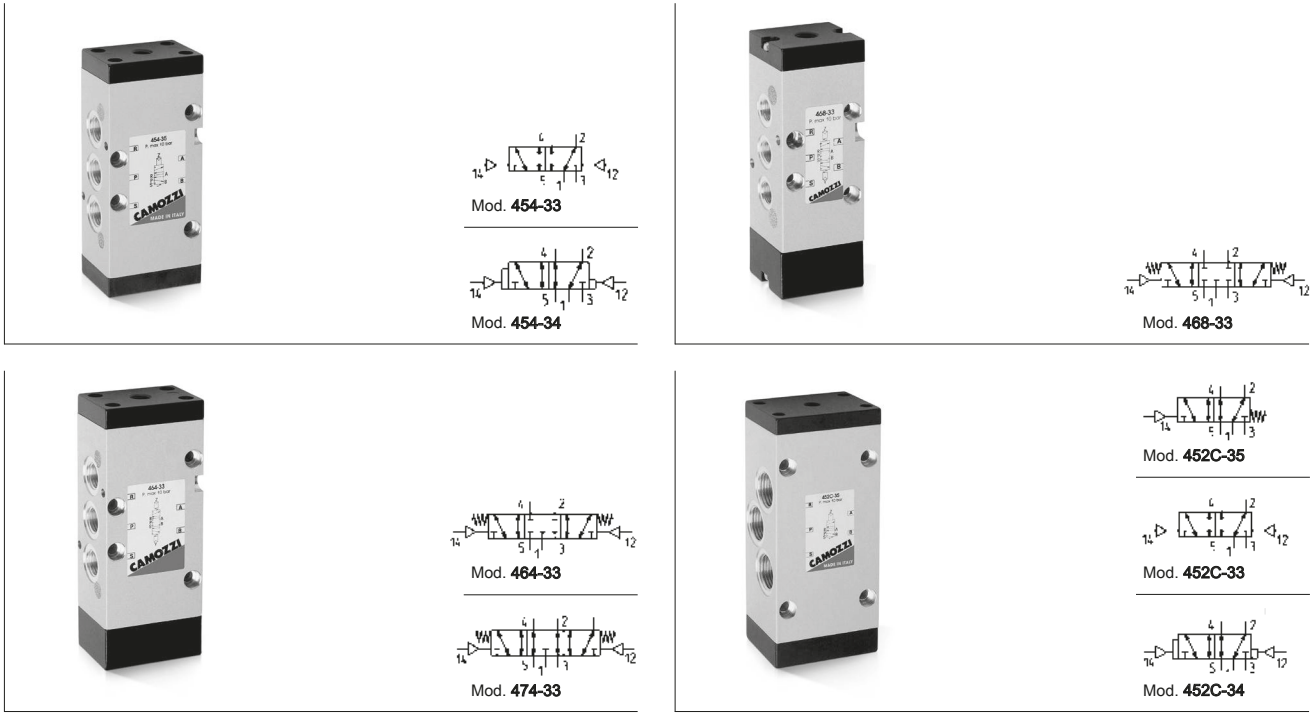


* = choose the most suitable solenoid (see the coding example)



* = choose the most suitable solenoid (see the coding example)





2

CONTROL

CODING EXAMPLE

4	5	4	-	015	-	22	-	U7	7
---	---	---	---	-----	---	----	---	----	---

4	SERIES
5	NUMBER OF WAYS - POSITIONS: 3 = 3/2 NC 4 = 3/2 NO 5 = 5/2 6 = 5/3 CC 7 = 5/3 CO
4	PORTS: 8 = G1/8 4 = G1/4 2C = G1/2
015	ACTUATION: 011 = double solenoid (horizontal solenoids) V11 = double solenoid (vertical solenoids) for G1/4 port only 015 = single solenoid, spring return (horizontal solenoids) V15 = single solenoid, spring return (vertical solenoid) for G1/4 port only 016 = single solenoid, pneumatic spring return (horizontal solenoid) V16 = single solenoid, pneumatic spring return (vertical solenoid) for G1/4 port only 33 = pneumatic pneumatic 34 = pneumatic differential 35 = pneumatic spring
22	SOLENOID INTERFACE: 22 = mech. sol. 22 x 22 50 = mech. sol. 32 x 32 (G1/2 only)
U7	SOLENOID MATERIAL / DIMENSIONS: A6 = PPS / 32 x 32 (G1/2 only) A8 = PPS / 30 x 30 G7 = PA / 22 x 22 G8 = PA / 30 x 30 G9 = PA / 22 x 58 H8 = PA 6 V0 / 30 x 30 U7 = PET / 22 x 22

7	SOLENOID VOLTAGE:	U7**	G7**	A8**	H8**	G9**	U7**	G7**	A8**	H8**	G9**
B	24V AC 50/60Hz	-	-	5VA	5,3VA	-	1	6V DC	5,1W	5,1W	-
C	48V AC 50/60Hz	-	-	-	5,3VA	-	2	12V DC	5W	5W	-
D	110V AC 50/60Hz	-	-	5VA	5,3VA	-	3	24V DC	5W	5W	4W
E	230V AC 50/60Hz	-	-	5VA	5,3VA	-	4	48V DC	5,3W	5,3W	4W
F	380V AC 50/60Hz	7VA	7VA	-	-	-	6	110V DC	4,2W	4,2W	-
H	24V 50/60Hz	3,5VA	3,5VA	-	-	-	7	24V DC	3,1W	3,1W	-
	12V DC	3,1W	3,1W	-	-	-		48V AC 50/60Hz	3,5VA	3,5VA	-
K	72V DC	4,8W	4,8W	-	-	-	71*	24V DC	3,1W	3,1W	-
	110V AC 50/60Hz	3,8VA	3,8VA	-	-	-		48V AC 50/60Hz	3,5VA	3,5VA	-
	125V AC 50/60Hz	5,5VA	5,5VA	-	-	-	9	48V DC	3,1W	3,1W	-
K1*	72V DC	5,6W	5,6W	-	-	-	10	110V DC	3,2W	3,2W	-
	110V AC 50/60Hz	5,8VA	5,8VA	-	-	-					
	125V AC 50/60Hz	8,3VA	8,3VA	-	-	-					
J	230V AC 50/60Hz	3,5VA	3,5VA	-	-	-					
	240V AC 50/60Hz	4VA	4VA	-	-	-					

TYPE OF MANUAL OVERRIDE:
= bistable, standard
IL = bistable, lever type (available on demand)
IM = monostable (available on demand)

Accessories
Manifold base with common exhausts

For valves Series 4, G1/8 (3/2, 5/2 or 5/3-way)

The following is supplied with:

- 1x manifold,
- 1x pair of fixing screws for valve position,
- 1x interface seal for valve positions,
- 2x guides for valve position

 Mod. **CNVL-42**
CNVL-43
CNVL-44
CNVL-45
CNVL-46

Manifold base with common exhausts

For valves Series 4, G1/4 (3/2, 5/2 or 5/3-way)

The following is supplied:

- 1x manifold,
- 1x pair of fixing screws for valve position,
- 1x interface seal for valve positions,
- 2x guides for valve position

 Mod. **CNVL-52**
CNVL-53
CNVL-54
CNVL-55
CNVL-56

Blanking plate

The following is supplied:

- 2x fixing screws,
- 3x O-Rings

 Mod. **CNVL/2** for Series 4, G1/8
CNVL/3 for Series 4, G1/8

Blanking plug

Accessory for Series CNVL manifolds

The following is supplied:

- 1x blanking plug,
- 1x O-Ring

 Mod. **TCNVL/3** for Series 4, G1/8
TCNVL/5 for Series 4, G1/8


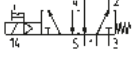

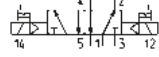





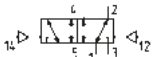

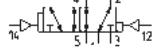

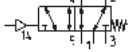

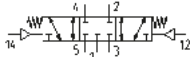

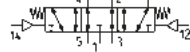

Series 9 valves and solenoid valves

5/2-way, 5/3-way CC CO

Ports: G1/4 (size 1), G3/8 (size 2), G1/2 (size 3)

According to the standard ISO 5599/1



	 Mod. 95*-000-P15-23		 Mod. 95*-000-P11-23
	 Mod. 95*-000-P16-23		 Mod. 96*-000-P11-23
	 Mod. 95*-000-33		 Mod. 95*-000-34
	 Mod. 95*-000-35		 Mod. 96*-000-33
	 Mod. 97*-000-33		

* = size ISO

2

CONTROL

CODING EXAMPLE

9 | **5** | **1** | **-** | **000** | **-** | **P16** | **-** | **23** | **-** | **U7** | **7**

9	SERIES											
5	NUMBER OF WAYS - POSITIONS: 5 = 5/2 6 = 5/3 CC 7 = 5/3 CO											
1	SIZE: 1 = size 1 2 = size 2 3 = size 3											
000	BODY DESIGN: 000 = valve body											
P 16	ACTUATION: 33 = pneumatic, pneumatic return - 34 = pneumatic, differential pneumatic return 35 = pneumatic, mechanical spring return - P11 = double solenoid (horizontal solenoids) P15 = single solenoid, spring return (horizontal solenoids) - P16 = solenoid, pneumatic spring return (horizontal solenoids)											
23	SOLENOID INTERFACE: 23 = A531 - BC2 Cnomo norm											
U7	SOLENOID MATERIAL / SOLENOID DIMENSIONS: A8 = PPS / 30 x 30 G7 = PA / 22 x 22 G8 = PA / 30 x 30 (24 V DC only) G9 = PA / 22 x 58 H8 = PA 6 V0 / 30 x 30 U7 = PET / 22 x 22											
7	SOLENOID VOLTAGE:											
		U7**	G7**	A8**	H8**	G9**		U7**	G7**	A8**	H8**	G9**
B	24V AC 50/60Hz	-	-	5VA	5,3VA	-	1	6V DC	5,1W	5,1W	-	-
C	48V AC 50/60Hz	-	-	-	5,3VA	-	2	12V DC	5W	5W	-	-
D	110V AC 50/60Hz	-	-	5VA	5,3VA	-	3	24V DC	5W	5W	4W	5,4W
E	230V AC 50/60Hz	-	-	5VA	5,3VA	-	4	48V DC	5,3W	5,3W	4W	-
F	380V AC 50/60Hz	7VA	7VA	-	-	-	6	110V DC	4,2W	4,2W	-	-
H	24V 50/60Hz	3,5VA	3,5VA	-	-	-	7	24V DC	3,1W	3,1W	-	-
	12V DC	3,1W	3,1W	-	-	-		48V AC 50/60Hz	3,5VA	3,5VA	-	-
K	72V DC	4,8W	4,8W	-	-	-	71*	24V DC	3,1W	3,1W	-	-
	110V AC 50/60Hz	3,8VA	3,8VA	-	-	-		48V AC 50/60Hz	3,5VA	3,5VA	-	-
	125V AC 50/60Hz	5,5VA	5,5VA	-	-	-	9	48V DC	3,1W	3,1W	-	-
K1*	72V DC	5,6W	5,6W	-	-	-	10	110V DC	3,2W	3,2W	-	-
	110V AC 50/60Hz	5,8VA	5,8VA	-	-	-	* = Only for valve models NO in line					
	125V AC 50/60Hz	8,3VA	8,3VA	-	-	-	** = Substitute 0 with letter or number at the beginning of the line					
J	230V AC 50/60Hz	3,5VA	3,5VA	-	-	-						
	240V AC 50/60Hz	4VA	4VA	-	-	-						

Accessories

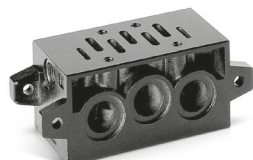
Single sub-base side outlets
(VDMA 24345)
Mod. 901-F1A
902-F2A
903-F3A



Single sub-base with rear outlets
(VDMA 24345)
Mod. 901-G1A
902-G2A
903-G3A



Manifold sub-base with com. exhausts and inlet
(VDMA 24345)
The following is supplied:
2x fixing screws,
3x O-ring
Mod. 901-C1A
902-C2A
903-C3A



End block for manifold sub-base
(VDMA 24345)
The following is supplied:
2x end blocks (1 pair),
2x fixing screws,
3x OR
Mod. 901-H1
902-H2
903-H3



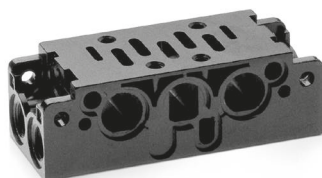
Interface with front outlets
(VDMA 24345)
The following is supplied:
2x fixing screws,
2x OR
Mod. 901-N1
902-N2
903-N3



End blocks for manifold bases with front outlets
The following is supplied:
2x end blocks (1 pair),
2x fixing screws,
3x OR
Mod. 901-HN1



Manifold bases with common inlet and exhaust ports and front outlet
The following is supplied:
2x fixing screws,
3x OR
Mod. 901-N1A



Mounting example
Separation tap lines 1 - 3 - 5
to be used with manifold
type 901C and 902C
Mod. 901-C1A/TP
902-C2A/TP



Separation joint
To be used with manifold type 901N
P-R-S plugged
Mod. 901-N1A/T



Separation joint
To be used with manifold type 901N
P plugged
Mod. 901-N1A/TP



Series 7 valves and solenoid valves

VDMA 24563 (ISO 15407-1)
5/2-way, 5/3-way CC CO CP



 <p>* = size ISO Mod. 75*-000-P16-15-W20</p>	 <p>* = size ISO Mod. 75*-000-P11-15-W20</p>	 <p>* = size ISO Mod. 78*-000-P11-15-W20</p>
 <p>* = size ISO Mod. 75*-000-36</p>	 <p>* = size ISO Mod. 75*-000-33</p>	 <p>* = size ISO Mod. 78*-000-33</p>

2

CONTROL

CODING EXAMPLE

7 | **5** | **1** | **-** | **N** | **1** | **A** | **-** | **P16** | **-** | **15** | **-** | **W** | **2** | **3**

7	SERIES:
5	NUMBER OF WAYS - POSITIONS: 5 = 5/2 - 6 = 5/3 CC - 7 = 5/3 CO - 8 = 5/3 CP
1	SIZES: 1 = size 26 mm - 2 = size 18 mm
N	SUBBASE: N = sub-base with front outlets
1	PORTS: 1 = G1/4 (Size 26 mm) - 2 = G1/8 (Size 18 mm)
A	NUMBER OF SUBBASES: A = 1* B = 2* C = 3* D = 4* E = 5* F = 6* G = 7* H = 8* K = 9* L = 10* M = 11* N = 12* P = 13* R = 14* S = 15*
P16	ACTUATION: 33 = pneumatic, bistable - 36 = pneumatic, monostable - P11 = electro-pneumatic, bistable - P16 = electro-pneumatic, monostable
15	SOLENOID INTERFACE: 15 = 15x15
W	SOLENOID TYPES: W = Series W - P = Series P *
2	CONNECTION: 1 = wire 300 mm (Series W, only 24V DC) ** - 2 = 2 pins (Series W 24V - 48V DC/AC) - 5 = 2 pins+earth (Series P) **
3	SOLENOID VOLTAGE: 3 = 24V DC - 4 = 48V DC ** - 6 = 110V DC (with Series P solenoid only) ** - B = 24V 50/60 Hz (with Series P solenoid only) ** C = 48V 50/60 Hz (with Series P solenoid only) ** - D = 110V 50/60 Hz (with Series P solenoid only) **

NOTE:
* complete with the two end blocks
** on request

Accessories
End blocks for subbase

with conveyed inlets and exhausts and front outlets

The following is supplied:

- 1x seal,
- 2x fixing screws
- Mod. **701C-HN1**
- 702C-HN2**


Intermediate supply module for manifold bases

with conveyed inlets and exhausts and front outlets

The following is supplied:

- 1x seal,
- 2x fixing screws
- Mod. **701C-N1N**
- 702C-N2N**


Manifold subbase

with conveyed inlets and exhausts and front outlets

The following is supplied:

- 1x seal,
- 2x fixing screws
- Mod. **701C-N1A** for separate pilots
- 702C-N2A** for separate pilots
- 701C-N1C**
- 702C-N2C**


Diaphragm for subbase

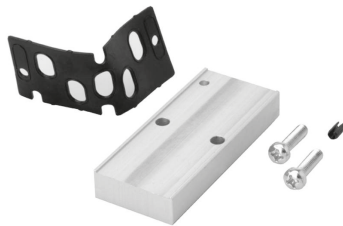
with conveyed inlet and exhausts and side outlets

- Mod. **701C-N1A-TP**
- 702C-N2A-TP**


Excluder tap for subbase

The following is supplied:

- 1x seal,
- 2x screws
- Mod. **701-TP**
- 702-TP**


Interface between ISO 01 and ISO 02

The following is supplied:

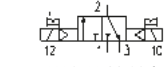
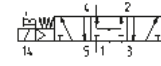
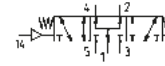
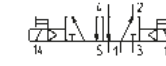
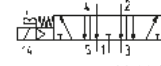
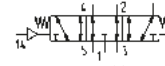
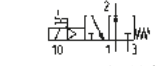
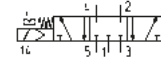
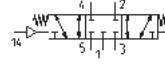
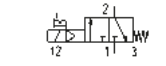
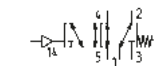
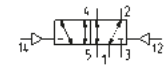
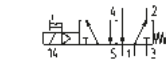
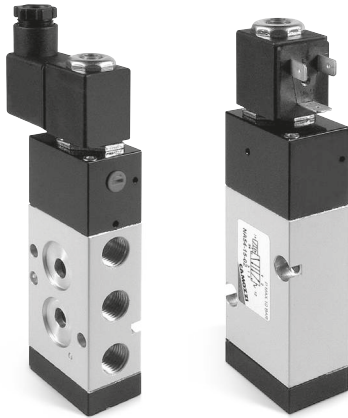
- 1x tap S2610 3/8,
- 5x OR,
- 2x screws
- Mod. **701C-702C-A**



Series NA valves and solenoid valves

3/2, 5/2, 5/3 CC CO CP

With holes configured according NAMUR standards



* = choose the suitable solenoid (see the coding example)

2

CONTROL

CODING EXAMPLE

NA	5	4N	-	15	-	02	-	U7	7
----	---	----	---	----	---	----	---	----	---

NA SERIES
NAMUR

5 NUMBER OF WAYS - POSITIONS:
3 = 3/2 NC
4 = 3/2 NO
5 = 5/2
6 = 5/3 CC
7 = 5/3 CO
8 = 5/3 CP

4N PORTS:
4N = G1/4 supply
ports according NAMUR standards

15 ACTUATION:
11 = double solenoid
15 = single solenoid, spring return
33 = pneumatic pneumatic
35 = pneumatic, spring

02 SOLENOID INTERFACE:
02 = mech. sol. 22 x 22

U SOLENOID MATERIAL / SOLENOID DIMENSIONS:
A8 = PPS / 30 x 30
G7 = PA / 22 x 22
G8 = PA / 30 x 30 (24 V DC only)
G9 = PA / 22 x 58
H8 = Self-extinguishing PA, Explosion-proof (30 x 30)
U7 = PET / 22 x 22

7	SOLENOID VOLTAGE:	U7**	G7**	A8**	H8**	G9**
B	24V AC 50/60Hz	-	-	5VA	5,3VA	-
C	48V AC 50/60Hz	-	-	-	5,3VA	-
D	110V AC 50/60Hz	-	-	5VA	5,3VA	-
E	230V AC 50/60Hz	-	-	5VA	5,3VA	-
F	380V AC 50/60Hz	7VA	7VA	-	-	-
H	24V 50/60Hz	3,5VA	3,5VA	-	-	-
	12V DC	3,1W	3,1W	-	-	-
K	72V DC	4,8W	4,8W	-	-	-
	110V AC 50/60Hz	3,8VA	3,8VA	-	-	-
	125V AC 50/60Hz	5,5VA	5,5VA	-	-	-
K1*	72V DC	5,6W	5,6W	-	-	-
	110V AC 50/60Hz	5,8VA	5,8VA	-	-	-
	125V AC 50/60Hz	8,3VA	8,3VA	-	-	-
J	230V AC 50/60Hz	3,5VA	3,5VA	-	-	-
	240V AC 50/60Hz	4VA	4VA	-	-	-
1	6V DC	5,1W	5,1W	-	-	-
2	12V DC	5W	5W	-	-	-
3	24V DC	5W	5W	4W	5,4W	4/2W
4	48V DC	5,3W	5,3W	4W	-	-
6	110V DC	4,2W	4,2W	-	-	-
7	24V DC	3,1W	3,1W	-	-	-
	48V AC 50/60 Hz	3,5VA	3,5VA	-	-	-
71*	24V DC	3,1W	3,1W	-	-	-
	48V AC 50/60Hz	3,5VA	3,5VA	-	-	-
9	48V DC	3,1W	3,1W	-	-	-
10	110V DC	3,2W	3,2W	-	-	-

* = Only for valve models NO in line ** = Substitute 0 with letter or number at the beginning of the line

Solenoids U7*, U7*EX, G7*, A8*, G93, B*, H8* and GP*

Version A and B

Connection according to DIN 43650 and DIN 40050 standards

For further details see the Solenoids section (2.2.35) on the Camozzi's catalogue



VOLTAGES		
Mod.		
U7H	24V - 50/60 Hz	3.5 VA
	12V DC	3.1 W
U7K/U7K1	72V DC	5.6 W
	110V - 50/60Hz	5.8 VA
	125V - 50/60Hz	8.3 VA
U7J	230V - 50/60Hz	3.5 VA
	240V - 50/60Hz	4 VA
U79	48V DC	3.1 W
U710	110V DC	3.2 W
U771/U771	24V DC	3.1 W
	48V - 50/60Hz	3.5 VA
U7F	380V - 50/60Hz	7 VA
U72	12V DC	5 W
U73	24V DC	5 W



VOLTAGES		
Mod.		
G7H	24V - 50/60 Hz	3.5 VA
	12V DC	3.1 W
G7K/G7K1	72V DC	5.6 W
	110V - 50/60Hz	5.8 VA
	125V - 50/60Hz	8.3 VA
G7J	230V - 50/60Hz	3.5 VA
	240V - 50/60Hz	4 VA
G79	48V DC	3.1 W
G710	110V DC	3.2 W
G771/G771	24V DC	3.1 W
	48V - 50/60Hz	3.5 VA
G72	12V DC	5 W
G73	24V DC	5 W



VOLTAGES		
Mod.		
A8B	24V - 50/60Hz	5 VA
A8D	110V - 50/60Hz	5 VA
A8E	220V - 50/60Hz	5 VA
A83	24V DC	4 W



VOLTAGES		
Mod.		
G93	24 V DC	4,2 W



VOLTAGES		
Mod.		
B7B	24 V - 50/60 Hz	9 VA
B7D	110 V - 50/60 Hz	9 VA
B7E	230 V - 50/60 Hz	9 VA
B72	12 V - DC	10 W
B73	24 V - DC	10 W
B8B/B8BK	24 V - 50 Hz	15 VA
B8D/B8DK	110 V - 50/60 Hz	15 VA
B8E/B8EK	230 V - 50/60 Hz	15 VA
B82/B82K	12 V - DC	19 W
B83/B83K	24 V - DC	19 W
B9B	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



VOLTAGES		
Mod.		
GPH	12 V DC	3 W
GP7	24 V DC	3 W

Solenoid Mod. H8.. for potentially explosive ambients (ATEX)



VOLTAGES		
Mod.		
H83	24 V - DC	5,4 W
H8B	24 V - 50/60 Hz	5,3 VA
H8C	48 V - 50/60 Hz	5,3 VA
H8D	110 V - 50/60 Hz	5,3 VA
H8E	230 V - 50/60 Hz	5,3 VA

In potentially explosive ambients

it is necessary to use a distance plate between the valve and the actuator.

 For valves Series NA use mod. **NA54-PC**


Connectors

Connectors DIN 43650 for solenoids Mod. U7/U7*EX, G7 and B7

- Mod. **122-601**
- 122-701**
- 122-702**
- 122-703**
- 122-800**
- 122-800EX ***



* only for ATEX certified solenoids mod. U7*EX, with anti-screwing off screw mod. TORX

Connectors DIN 43650 with moulded cable for solenoids Mod. U7/U7*EX, G7 and B7

- Mod. **122-550-1** (cable 1000 mm)
- 122-550-5** (cable 5000 mm)
- 122-571-3** (cable 3000 mm)



Pre-wired connectors for solenoids Mod. G9

- Mod. **122-892C** (cable 2000 mm)
- 122-893C** (cable 2000 mm)



Connectors DIN 43650 for solenoids Mod. A8 and Mod. B8/B9

- Mod. **124-800**
- 124-702**
- 124-701**
- 124-703**



Series 3 Plug-In valve islands

Plug-In system for electro-pneumatically operated valves Series 3, G1/8 port
Valve functions: 2x3/2, 5/2, 5/3 CO CC CP



This Plug-In system, realized with electro-pneumatically operated valves Series 3, G1/8 port, is delivered completely assembled and tested. It allows the mounting of up to 22 valve positions (with two SUB-D 25 RIGHT and LEFT connectors). The electrical part is based on printed circuit boards. It is possible to combine the electrical modules up to a maximum of 11 valve positions for each side.

The pneumatic part is composed by initial, intermediate and terminal modules. The pneumatic modularity of 2 and 3 positions allows several configurations with different pressure/exhaust zones.

2

CONTROL

CODING EXAMPLE

3P	8	-	E	AB	-	3B3M	-	U	7	7	
----	---	---	---	----	---	------	---	---	---	---	--

3P SERIES:
3 PLUG-IN

8 PORTS:
8 = G1/8

E NUMBER OF VALVE POSITIONS:
see the table on the following page

AB CONFIGURATION OF PNEUMATIC AND ELECTRIC MODULES:
see the table on the following page

3B3M VALVE COMPOSITIONS:
see the table on the following page

U SOLENOID MATERIAL:
G = PA
U = PET

7 SOLENOID DIMENSIONS:
7 = 22x22

7 SOLENOID VOLTAGE:
7 = 24V DC

VERSIONS:
= Standard
S = Special to be specified

Example: 3P8-EAB-3B3M-U77 = Valve islands with 6 positions equipped with 3 Solenoid valves Cod. B and 3 Cod. M, SUB-D connector on the LEFT.

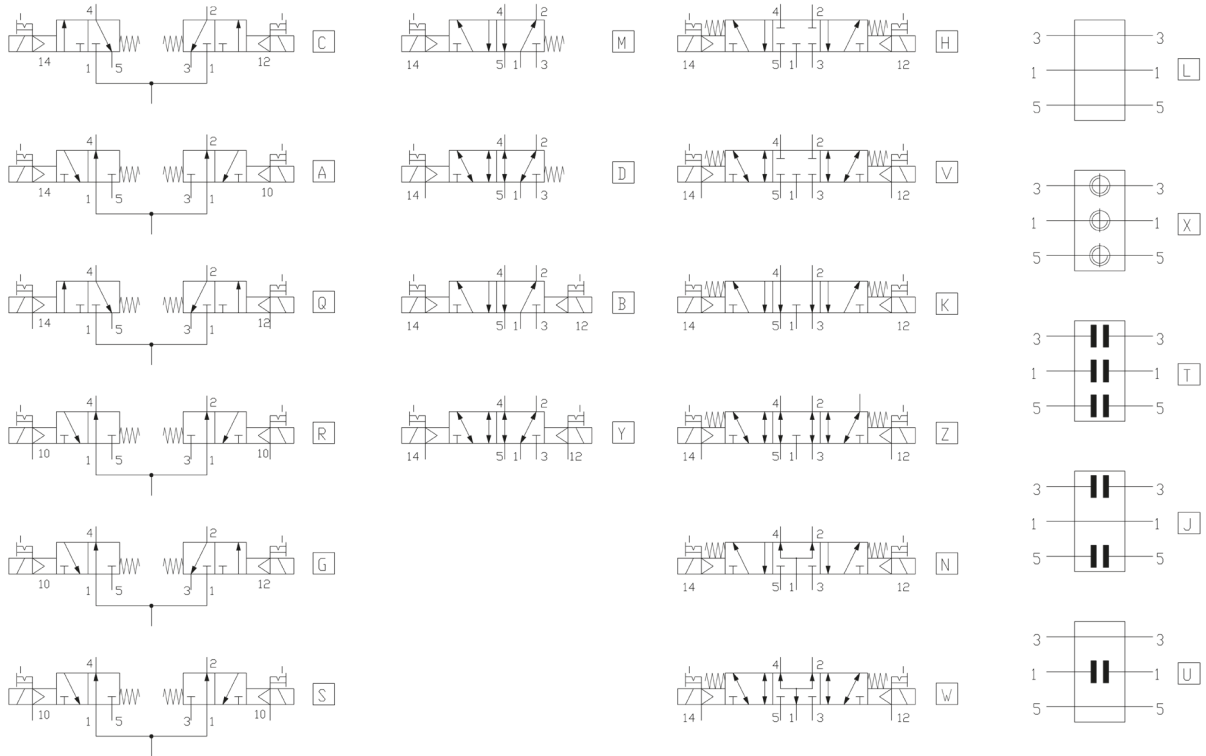
TABLE FOR THE CONFIGURATION OF VALVE ISLANDS

The letter represents the number of valve positions	Number of valve positions, showing the combination of the modules from which the valve islands is built	Position of the D-SUB and number of valves to which it is connected [left]	Position of the D-SUB and number of valves to which it is connected [right]	Configuration code Positions	Configuration code
A = 2 pos.	[2]	-	2	A	A - A
	(2)	2	-	A	A - B
B = 3 pos.	[3]	-	3	B	A - A
	(3)	3	-	B	A - B
C = 4 pos.	[2] [2]	-	4	C	A - A
	(2) (2)	4	-	C	A - B
D = 5 pos.	[3] [2]	-	5	D	A - A
	(3) (2)	5	-	D	A - B
	[2] [3]	-	5	D	A - C
	(2) (3)	5	-	D	A - D
E = 6 pos.	[3] [3]	-	6	E	A - A
	(3) (3)	6	-	E	A - B
	[2] [2] [2]	-	6	E	B - A
	(2) (2) (2)	6	-	E	B - B
F = 7 pos.	[2] [3] [2]	-	7	F	A - A
	(2)(3)(2)	7	-	F	A - B
	[2] [2] [3]	-	7	F	B - A
	(2) (2) (3)	7	-	F	B - B
	[3] [2] [2]	-	7	F	B - C
	(3) (2) (2)	7	-	F	B - D
G = 8 pos.	[3] [3] [2]	-	8	G	A - A
	(3)(3)(2)	8	-	G	A - B
	[2] [3] [3]	-	8	G	A - C
	(2)(3)(3)	8	-	G	A - D
	[2] [2] [2] [2]	-	8	G	B - A
	(2)(2)(2) (2)	8	-	G	B - B
	[3] [2] [3]	-	8	G	B - C
	(3) (2) (3)	8	-	G	B - D
H = 9 pos.	[3] [3] [3]	-	9	H	A - A
	(3)(3)(3)	9	-	H	A - B
	[3] [2] [2] [2]	-	9	H	B - A
	(3)(2)(2) (2)	9	-	H	B - B
	[2] [3] [2] [2]	-	9	H	B - C
	(2) (3) (2) (2)	9	-	H	B - D
	[2] [2] [3] [2]	-	9	H	B - E
	(2) (2) (3) (2)	9	-	H	B - F
	[2] [2] [2] [3]	-	9	H	B - G
(2) (2) (2) (3)	9	-	H	B - H	
I = 10 pos.	[2] [3] [3] [2]	-	10	I	A - A
	(2)(3)(3)(2)	10	-	I	A - B
J = 11 pos.	[2] [3] [3] [3]	-	11	J	A - A
	(2)(3)(3)(3)	11	-	J	A - B
	[3] [3] [3] [2]	-	11	J	A - C
	(3)(3)(3)(2)	11	-	J	A - D
K = 12 pos.	(3) [3] [3] [3]	3	9	K	A - A
	(3)(3)[3] [3]	6	6	K	A - B
	(3) (3)(3) [3]	9	3	K	A - C
L = 13 pos.	(2) [3] [3] [3] [2]	2	11	L	A - A
	(2) (3) [3] [3] [2]	5	8	L	A - B
	(2) (3) (3) [3] [2]	8	5	L	A - C
	(2) (3) (3)(3) [2]	11	2	L	A - D
M = 14 pos.	(2) (3) [3] [3] [3]	5	9	M	A - A
	(2) (3) (3) [3] [3]	8	6	M	A - B
	(2) (3) (3) (3) [3]	11	3	M	A - C
	(3) [3] [3] [3] [2]	3	11	M	A - D
	(3) (3) [3] [3] [2]	6	8	M	A - E
	(3) (3) (3) [3] [2]	9	5	M	A - F
N = 15 pos.	(3) (3) [3] [3] [3]	6	9	N	A - A
	(3) (3) (3) [3] [3]	9	6	N	A - B
O = 16 pos.	(2) (3) [3] [3] [3] [2]	5	11	O	A - A
	(2) (3) (3) [3] [3] [2]	8	8	O	A - B
	(2) (3) (3) (3) [3] [2]	11	5	O	A - C
P = 17 pos.	(2) (3) (3) [3] [3] [3]	8	9	P	A - A
	(2) (3) (3) (3) [3] [3]	11	6	P	A - B
	(3) (3) [3] [3] [3] [2]	6	11	P	A - C
	(3) (3) (3) [3] [3] [2]	9	8	P	A - D
Q = 18 pos.	(3) (3) (3) [3] [3] [3]	9	9	Q	A - A
R = 19 pos.	(2) (3) (3) [3] [3] [3] [2]	8	11	R	A - A
	(2) (3) (3) (3) [3] [3] [2]	11	8	R	A - B
S = 20 pos.	(2) (3) (3) (3) [3] [3] [3]	11	9	S	A - A
	(3) (3) (3) [3] [3] [3] [2]	9	11	S	A - B
T = 21 pos.*	(3) (3) [3] [3] [3] [3] [3]	10	11	T	A - A
	(3) (3) (3) [3] [3] [3] [3]	11	10	T	A - B
U = 22 pos.	(2) (3) (3) (3) [3] [3] [3] [2]	11	11	U	A - A

* = in this configuration the electric modularity doesn't correspond to the pneumatic modularity.

The valve islands code is always read from left to right, the electrical module is positioned on top of the pneumatic manifold. It is also possible to create 2 or more pressure zones in the valve islands by inserting the diaphragm Mod. CNVL-TP between the modules.

FUNCTIONING OF SOLENOID VALVES



Mod.	Function	Actuation/return	Pilot supply	Working pressure (bar)	Pilot pressure (bar)	Code
338D-015-02	2 x 3/2 NC	solenoid/spring	Internal	2,5 + 10	-	C
348D-015-02	2 x 3/2 NO	solenoid/spring	Internal	2,5 + 10	-	A
398D-015-02	1 x 3/2 NC + 1 x 3/2 NO	solenoid/spring	Internal	2,5 + 10	-	G
358-015-02	5/2 monostable	solenoid/spring	Internal	2,5 + 10	-	M
358-011-02	5/2 bistable	solenoid/solenoid	Internal	1,5 + 10	-	B
368-011-02	5/3 CC	solenoid/solenoid	Internal	2 + 10	-	H
378-011-02	5/3 CO	solenoid/solenoid	Internal	2 + 10	-	K
388-011-02	5/3 CP	solenoid/solenoid	Internal	2 + 10	-	N
338D-E15-02	2 x 3/2 NC	solenoid/spring	External	-0,9 + 10	2,5 + 10	Q
348D-E15-02	2 x 3/2 NO	solenoid/spring	External	-0,9 + 10	2,5 + 10	R
398D-E15-02	1 x 3/2 NC + 1 x 3/2 NO	solenoid/spring	External	-0,9 + 10	2,5 + 10	S
358-E15-02	5/2 monostable	solenoid/spring	External	-0,9 + 10	2,5 + 10	D
358-E11-02	5/2 bistable	solenoid/solenoid	External	-0,9 + 10	1,5 + 10	Y
368-E11-02	5/3 CC	solenoid/solenoid	External	-0,9 + 10	2 + 10	V
378-E11-02	5/3 CO	solenoid/solenoid	External	-0,9 + 10	2 + 10	Z
388-E11-02	5/3 CP	solenoid/solenoid	External	-0,9 + 10	2 + 10	W
CNVL/1L	free position (electrical and pneumatic cover)	-	-	-	-	L
CNVL-3P1	plate for supply and outlets	-	-	-	-	X
CNVL-3H-TP (x1)	diaphragm for supply (1)	-	-	-	-	U
CNVL-3H-TP (x2)	diaphragm for outlets (3-5)	-	-	-	-	J
CNVL-3H-TP (x3)	diaphragm for supply (1) and outlets (3-5)	-	-	-	-	T

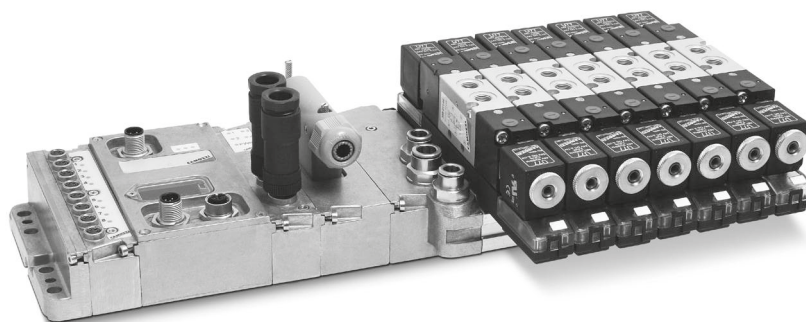
Products designed for industrial applications.
General terms and conditions for sale are available on www.camozzi.com.

Series 3 Fieldbus valve islands

Fieldbus system combined with electro-pneumatically operated valves Series 3, G1/8 ports

Interface with: Profibus-DP, CANopen, DeviceNet

Valve functions: 2x3/2, 5/2, 5/3 CO CC CP



This Fieldbus system, realized with the electropneumatically operated valves Series 3 (G1/8 ports), is delivered completely assembled and tested and it can accommodate up to 9 valve positions. Moreover, it offers the possibility to manage up to 64 I/O.

It is possible to combine the pneumatic electric modules by simply attaching them to each other up to a maximum of 9 valve positions. The pneumatic modularity of 2 and 3 positions offers the possibility to create manifolds with different pressure/exhaust supplies.

GENERAL DATA AND ELECTRIC CHARACTERISTICS

Valve construction	spool type
Valve functions	5/2 - 5/3 CC CO CP - 2x3/2 NO - 2x3/2 NC - 1 3/2 NO+1 3/2 NC
Materials	AL body, stainless steel spool, NBR seals, technopolymer
Ports	valve = G1/8 - manifold = G3/8
Mounting	through holes in the valve body
Installation	in any position
Operating temperature	0-50 °C
Nominal flow rate	Qn 700 NI/min
Nominal diameter	7 mm
Fluid	filtered air, without lubrication. If lubricated air is used, it is recommended to use ISO VG32 oil and to never interrupt the lubrication
Fieldbus protocol	3F8: Profibus-DP - 3R8: DeviceNet - 3G8: CANopen
Fieldbus signalling led	3F8: 1 led green RUN, 1 led red DIA, 1 led red BF 3R8: 1 led green IO, 1 led red NS, 1 led red MS 3G8: 1 led green RUN, 1 led red DIA, 1 led red BF
Valve signalling led	yellow led
Logical supply voltage *	24VDC (-15% / + 20%)
Power supply voltage *	24VDC (for the tolerance, consider the total loads of the connected inputs)
Duty cycle	ED 100%
Maximum number of nodes	3F8: 32/127 - 3R8: 64 - 3G8: 127
Maximum Baud rate	3F8: 12 Mbit/sec - 3R8: 500 Kbit/sec - 3G8: 1 Mbit/sec
Solenoid power consumption	3W
Electric power supply connector	M12
Number of digital input / output	64 / 64
Maximum input / output absorption	1,5 A / 3 A (the total absorption must never exceed 3,5 A)
Protections	against overload and reverse polarity
Protection class	IP65

* = The voltage range can change according to the range required by the connected external elements

CODING EXAMPLE

3F	8	-	2A	-	BC	-	EBB	-	BCT2M2B	-	U77
----	---	---	----	---	----	---	-----	---	---------	---	-----

3F	CONNECTION: 3F = Profibus-DP 3R = DeviceNet 3G = CANopen
8	SOLENOID VALVES PORTS: 8 = 1/8
2A	ELECTRIC INPUTS MODULES: 0 = no module A = module 8 input M8 (not for DeviceNet version)
BC	ELECTRIC OUTPUTS MODULES: 0 = no module B = 4 outputs M12 duo C = 8 outputs SUB-D 37 pin D = 16 outputs SUB-D 37 pin E = 24 outputs SUB-D 37 pin F = 32 outputs SUB-D 37 pin
EBB	SUB-BASES COMPOSITION: see the following table
BCT2M2B	VALVES FUNCTIONS: see the following page
U77	SOLENOID TYPE: MATERIAL DIMENSION VOLTAGE G = PA 7 = 22 x 22 7 = 24V DC U = PET
	VERSIONS: = standard S = special (to be specified)

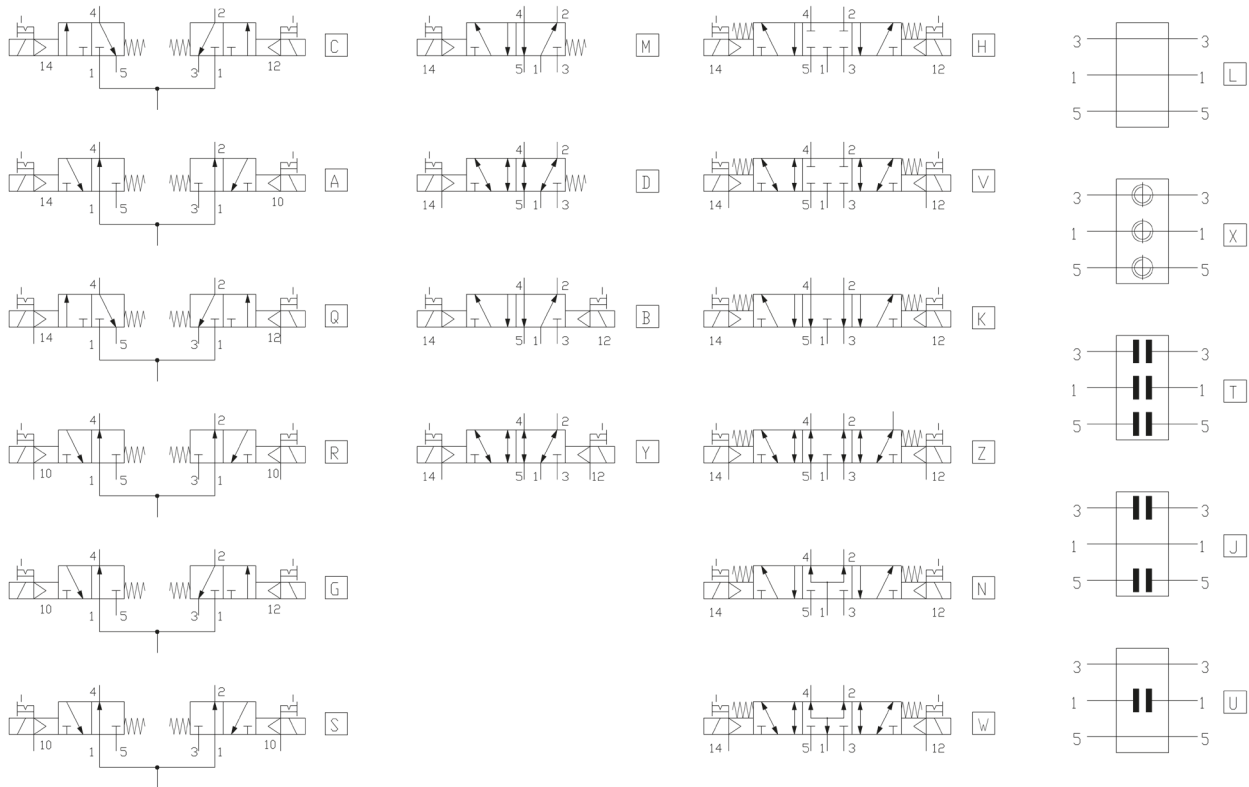
3F8-2A-BC-EBB-BCT2M2B-U77 = Valve islands with Fieldbus node Profibus-DP, 2x inlet modules, 1x outlet B mod. + 1x outlet C mod., subbase of 6 pos., valve composed by 3x mod. of 2 pos., 1x solenoid valve (SV) mod. B, 1x SV mod. C, separation channels 1/3/5, 2x SV mod. M, 2x SV mod. B, solenoids mod. U77.

TABLE FOR THE CONFIGURATION OF VALVE ISLANDS

The letter represents the number of valve positions	Number of valve positions, showing the combination of the modules from which the valve islands is built.	Configuration code n° of positions	Configuration code of the sub-base
A = 2 pos.	(2)	A	A - B
B = 3 pos.	(3)	B	A - B
C = 4 pos.	(2) (2)	C	A - B
D = 5 pos.	(3) (2) (2) (3)	D D	A - B A - D
E = 6 pos.	(3) (3) (2) (2) (2)	E E	A - B B - B
F = 7 pos.	(2) (3) (2) (2) (2) (3) (3) (2) (2)	F F F	A - B B - B B - D
G = 8 pos.	(3) (3) (2) (2) (3) (3) (2) (2) (2) (2) (3) (2) (3)	G G G G	A - B A - D B - B B - D
H = 9 pos.	(3) (3) (3) (3) (2) (2) (2) (2) (3) (2) (2) (2) (2) (3) (2) (2) (2) (2) (3)	H H H H H	A - B B - B B - D B - F B - H

The valve islands code is always read from left to right, the electrical module is positioned on top of the pneumatic manifold.
It is also possible to create 2 or more pressure/exhaust zones in the valve islands by inserting the diaphragm Mod. CNVL-TP between the modules.

FUNCTIONS OF SOLENOID VALVES SERIES 3

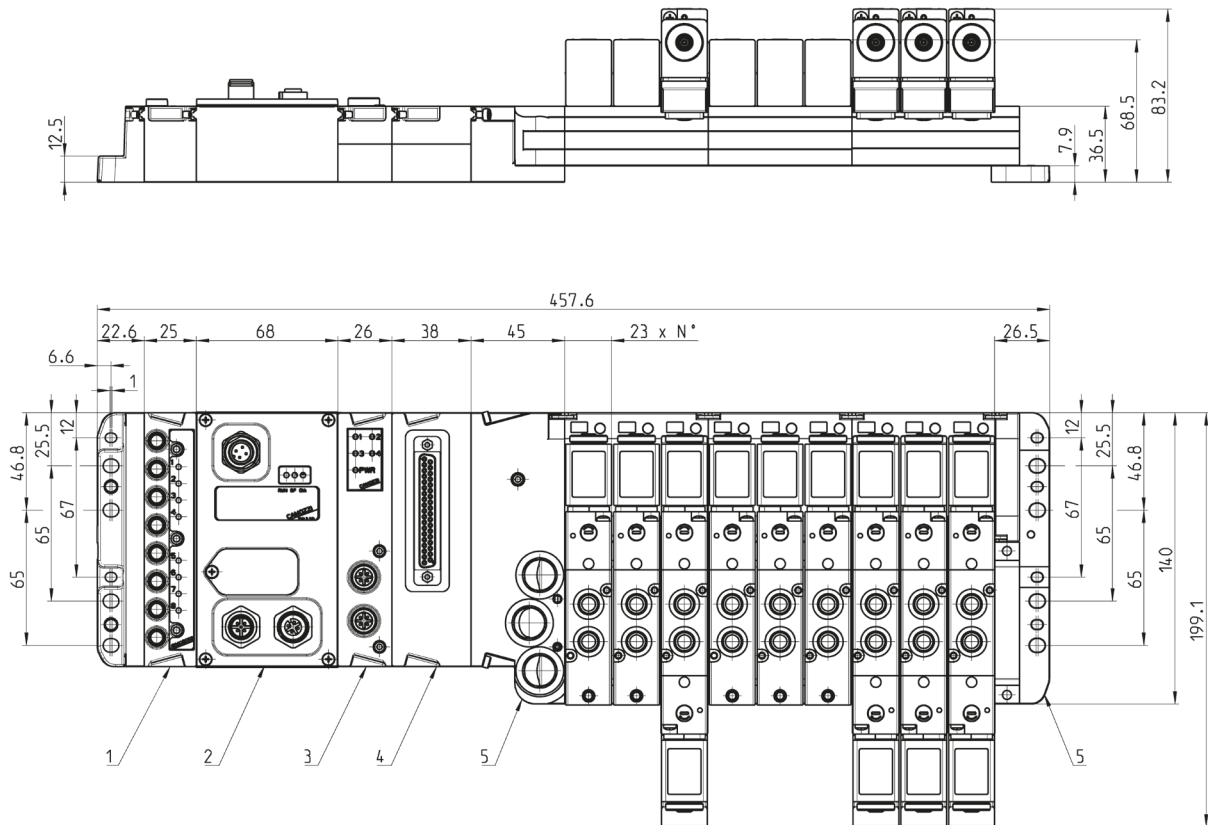


Mod.	Function	Actuation/return	Pilot supply	Working pressure (bar)	Pilot pressure (bar)	Code
338D-015-02	2 x 3/2 NC	solenoid/spring	Internal	2,5 + 10	-	C
348D-015-02	2 x 3/2 NO	solenoid/spring	Internal	2,5 + 10	-	A
398D-015-02	1 3/2 NC + 1 3/2 NO	solenoid/spring	Internal	2,5 + 10	-	G
358-015-02	5/2 monostable	solenoid/spring	Internal	2,5 + 10	-	M
358-011-02	5/2 bistable	solenoid/solenoid	Internal	1,5 + 10	-	B
368-011-02	5/3 CC	solenoid/solenoid	Internal	2 + 10	-	H
378-011-02	5/3 CO	solenoid/solenoid	Internal	2 + 10	-	K
388-011-02	5/3 CP	solenoid/solenoid	Internal	2 + 10	-	N
338D-E15-02	2 x 3/2 NC	solenoid/spring	External	-0,9 + 10	2,5 + 10	Q
348D-E15-02	2 x 3/2 NO	solenoid/spring	External	-0,9 + 10	2,5 + 10	R
398D-E15-02	1 3/2 NC + 1 3/2 NO	solenoid/spring	External	-0,9 + 10	2,5 + 10	S
358-E15-02	5/2 monostable	solenoid/spring	External	-0,9 + 10	2,5 + 10	D
358-E11-02	5/2 bistable	solenoid/solenoid	External	-0,9 + 10	1,5 + 10	Y
368-E11-02	5/3 CC	solenoid/solenoid	External	-0,9 + 10	2 + 10	V
378-E11-02	5/3 CO	solenoid/solenoid	External	-0,9 + 10	2 + 10	Z
388-E11-02	5/3 CP	solenoid/solenoid	External	-0,9 + 10	2 + 10	W
CNVL/1L	free position	-	-	-	-	L
CNVL-3P1	plate for supply and outlets	-	-	-	-	X
CNVL-3H-TP (x1)	diaphragm for supply (1)	-	-	-	-	U
CNVL-3H-TP (x2)	diaphragm for outlets (3-5)	-	-	-	-	J
CNVL-3H-TP (x3)	diaphragm for supply (1) and outlets (3-5)	-	-	-	-	T

Valve islands - Characteristics

Bus-In Bus-Out system for connection to the Fieldbus network. Double electrical supplies (1 for control and 1 for power). Addressing of every node via rotary switches. Leds indicating the working state. Handling of a max n° of 64 inputs and 64 outputs (I/O). Electric outputs mod. on the right side of the node are available with connection M12 duo and/or Sub-D a 37 poles and connected to pneumatic sub-bases (max 9 pos. mono/bistable valves). It's possible to pilot other multipole islands valves and/or systems, managed through digital signals, using connection cables 37/25 pin. Similarly, on the left side of the node it's possible to connect Input Mod. 8 (8 connections M8 every Mod.). All Mod. I/O can be easily inserted thanks to their direct connection to the plate. Manuals and configuration files are available on our website: <http://catalogue.camozzi.com/Downloads>.

- DRAWING LEGEND:
- 1 = digital inputs module
 - 2 = Fieldbus module
 - 3 = digital outputs module M12 connector
 - 4 = digital outputs module connector 37 poles
 - 5 = pneumatic/electric interface module + foot



Series Y valve islands

Valve islands with pneumatics and electronics integrated

Available versions: Individual, Multipole, Fieldbus (Profibus-DP, DeviceNet, CANopen)

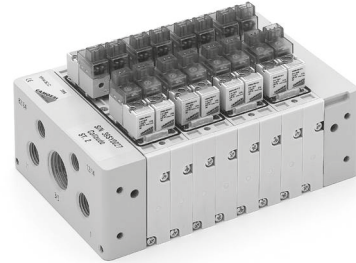
Valve functions: 2x2/2, 2x3/2, 5/2, 5/3 CC



Individual version YP1K

Valve islands with individual electrical connection

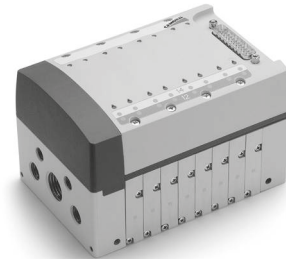
The electrical connection is realised by means of single connectors which are mounted on electro-pilots Series K. The modules which compose the valve islands can be of 2, 4, 6 or 8 valve positions and they can be separated from each other by different types of seals. Although the number of valve positions can be unlimited, it is recommended to insert an intermediate plate for supplementary supply after every 8 positions. The manual override and the signalling LED which are used in this valve islands are the same which are traditionally used on electro-pilots.



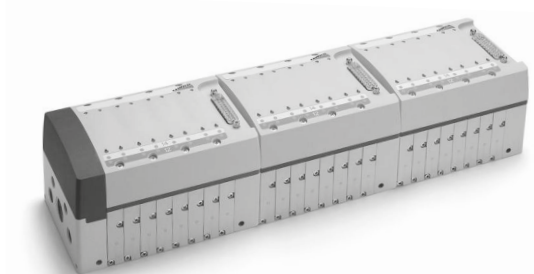
Multipole version YP1M

Valve islands with Multipole electrical connection

The modules which compose the valve islands can be of 2, 4, 6 or 8 valve positions and they can be separated from each other by different types of seals. The electronics commonly used in the fieldbus versions allow the connection of the same expansion module on initial modules using different Protocols. The Multipole cover is available in three sizes, with 4, 6 or 8 valve positions. Every valve position can be freely equipped with monostable or bistable valves. It is possible to join many valve islands by placing an intermediate plate for supplementary supply under the Sub-D plug of the module which has to be connected. The use of a plate for supplementary supply Mod. X allows to have many Sub-D plugs on a sole structure. It is possible to join several valve islands to create a sole structure with as many Sub-D plugs as covers. It is recommended to insert an intermediate plate for supplementary supply after every 8 positions.



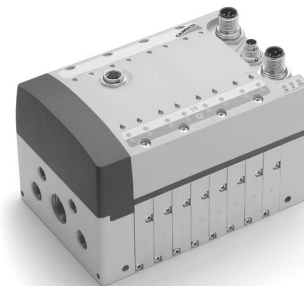
Multipole connection is possible



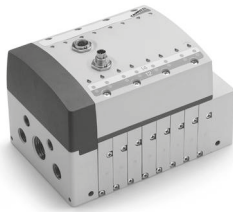
Fieldbus version YP1P - YP1D - YP1C

Valve islands with electrical Fieldbus connection initial module

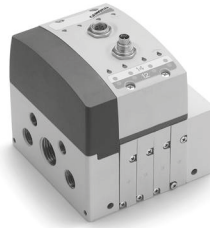
The initial module cover has always 8 valve positions. The initial module only can be connected with Fieldbus (Profibus-DP and other protocols) and 24V DC electrical supply. Each initial module can accommodate up to 32 coils, which are present in the initial or in the connected expansion modules, and 48 inlets. It recognizes automatically the position of the coils assigning them an address which follows a certain sequence. Otherwise it is possible to set a specific address through the use of a PC. It is recommended to insert an intermediate plate for supplementary supply after every 8 positions.



Valve islands with Fieldbus connection
(expansion module 8 positions for single assembly)



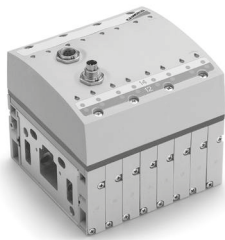
Valve islands with Fieldbus connection
(expansion module 4 positions for single assembly)



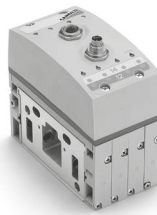
Valve islands with Fieldbus connection
(expansion module 2 positions for single assembly)



Valve islands with Fieldbus connection
(expansion module 8 positions for combined assembly)



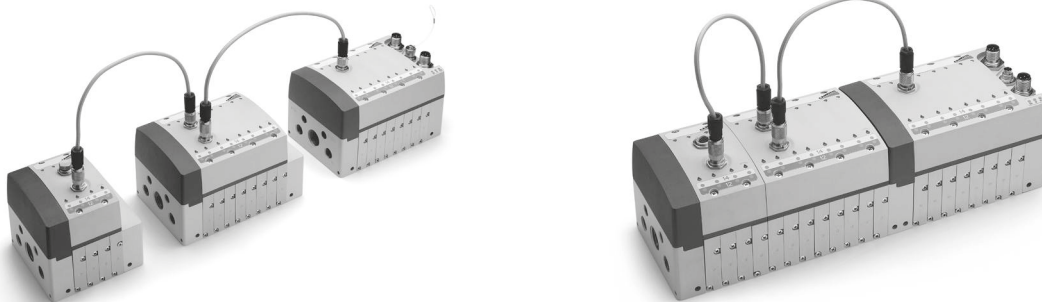
Valve islands with Fieldbus connection
(expansion module 4 positions for combined assembly)



Valve islands with Fieldbus connection
(expansion module 2 positions for combined assembly)

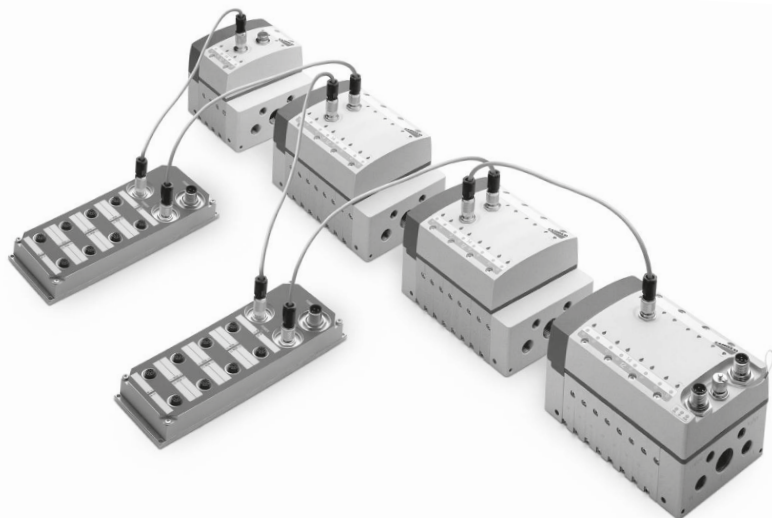


Possibility of Fieldbus connection

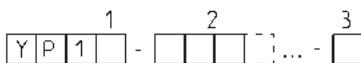
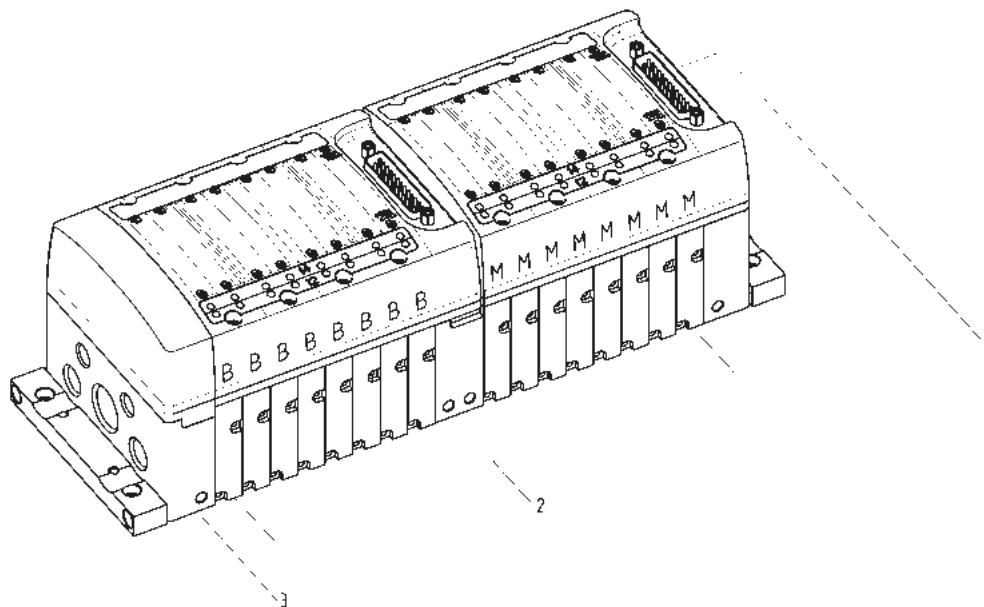


Electrical digital input module ME-1600 DL

The Digital Input Module allows for connection of 16 electrical input signals via 8M12 industry standard connections. The M12 connections are a 5 pole (4+PE) version with 2 input signals per connector position. The input module can be positioned at any point of the fieldbus. A maximum of 3 input modules can be connected to the initial module, for a total of 48 inputs.



CODING



(1) Code	Type of electrical connection	(2) Code	Type of valve	(3) Code	Type of terminal plates
K	Individual		-		-
M	Multipole (PNP)		-		-
P	Profibus-Dp		-		-
D	DeviceNet		-		-
C	CANopen		-		-
E	Expansion		-		-
-		M	5/2 Monostable		-
-		B	5/2 Bistable		-
-		V	5/3 CC		-
-		I	2 x 2/2 1 NO + 1 NC		-
-		E	2 x 2/2 NC		-
-		F	2 x 2/2 NO		-
-		G	2 x 3/2 1 NO + 1 NC		-
-		C	2 x 3/2 NC		-
-		A	2 x 3/2 NO		-
-		L	Free position		-
-		W	Additional supply module from 2 and 4		-
-		T	Diaphragm seal (modules separation)		-
-		P	Through seal (modules separation)		-
-		T/	Diaphragm seal (modules and cover separation)		-
-		P/	Through seal (modules and cover separation)		-
-		U	Diaphragm seal 3/5 opened		-
-		H	Diaphragm seal 3/5-11 opened		-
-		N	Diaphragm seal 1-11 opened		-
-		U/	Diaphragm seal 3/5 opened, modules and cover separ.		-
-		K	Module with 2 positions and 3/5-11 closed		-
-		R	Module with 2 positions and 3/5-1-11 closed		-
-		O	Module with 2 positions and 1-11 closed		-
-		Q	Module with 2 positions and 3/5 closed		-
-		X	Additional supply module		-
-				A	in common 1/11 - 12/14 individual 82/84 - 3/5
-				B	in common 1/11 individual 12/14 - 82/84 - 3/5
-				C	individual 1/11 - 12/14 - 82/84 - 3/5
-				D	in common 1/11 - 12/14 individual 82/84 - 3/5
-				E	in common 1/11 individual 12/14 - 82/84 - 3/5
-				F	individual 1/11 - 12/14 - 82/84 - 3/5
-				G	in common 1/11 - 12/14 individual 82/84 - 3/5
-				H	in common 1/11 individual 12/14 - 82/84 - 3/5
-				J	individual 1/11 - 12/14 - 82/84 - 3/5
-				Z	modules without terminal plate

Series H valve islands

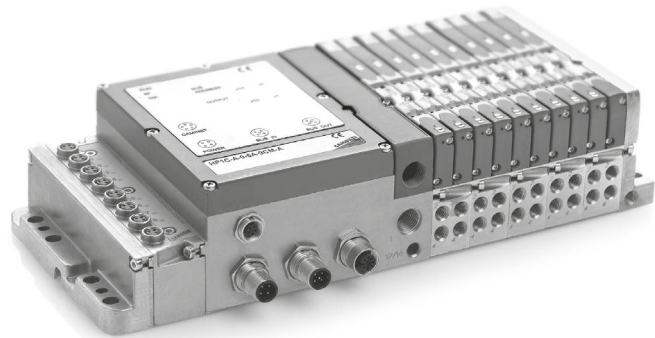
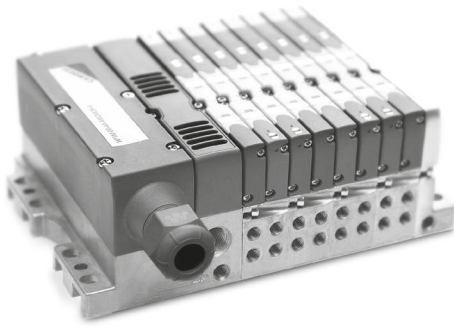
Valve islands with Pneumatics and Electronics integrated

Available versions: Multipole (PNP and NPN) and Fieldbus

(Profibus-DP, DeviceNet, CANopen). Valve functions: 2x2/2; 2x3/2; 5/2; 5/3 CC



Multipole and Expandable Fieldbus versions



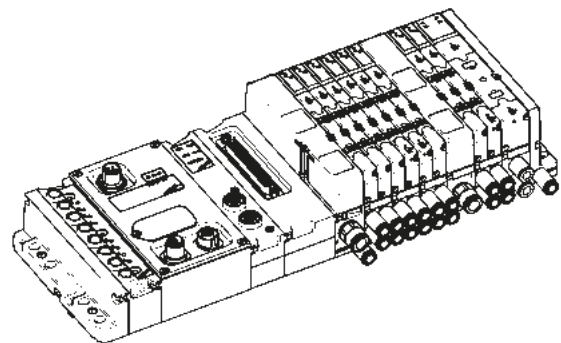
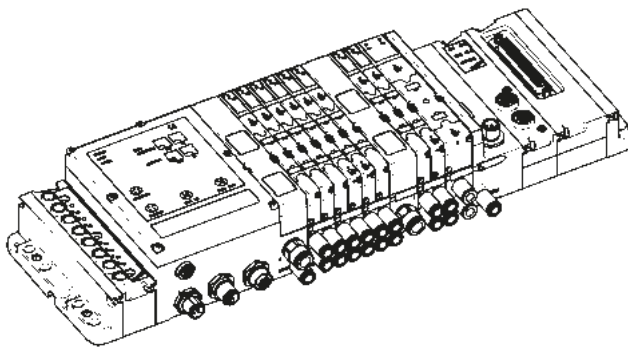
Multipole version

In this configuration Series H can be connected rapidly and safely thanks to the multipole connection with wired cable of sizes of 3 & 5 m (standard).

Expandable Fieldbus version

This version enables a direct interface to fieldbus systems such as: Profibus-DP, DeviceNet and CANopen. The various types of electrical and pneumatic elements that can be connected, and the possibility to decentralise the expansion islands gives this model extreme flexibility.

Expansion and Individual Fieldbus versions



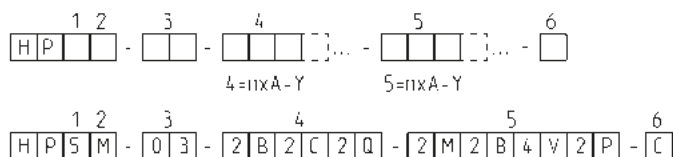
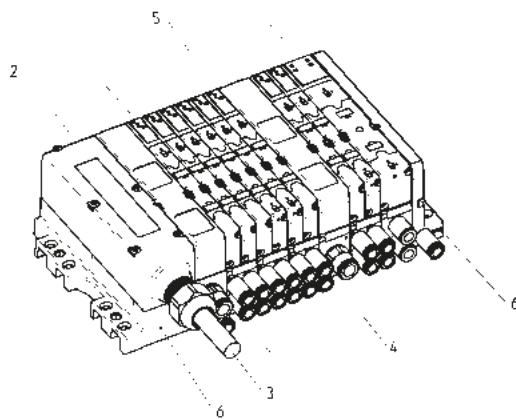
Fieldbus Expansion (local fieldbus) version

The Expansion islands can handle electrical and pneumatic outlets up to a 50 m distance from the islands that interfaces directly to the Fieldbus net. These expansions communicate with the expandable fieldbus unit (above) through a local fieldbus (Cam.I.Net) and are connected through pre-wired cables (9 poles) of different lengths.

Individual Fieldbus version

The individual fieldbus version consists of an islands that enables the handling of 64 Inputs and 64 Outputs. It does not enable the handling of the Expansions but it can be equipped with all peripheral elements of the expandable versions. The whole electronic system can be used in other types of Valve islands.

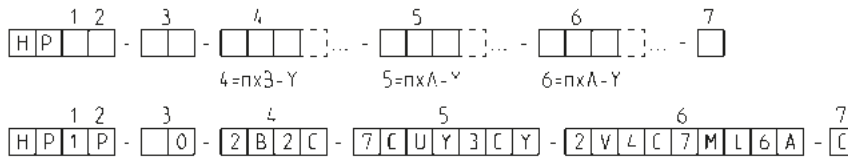
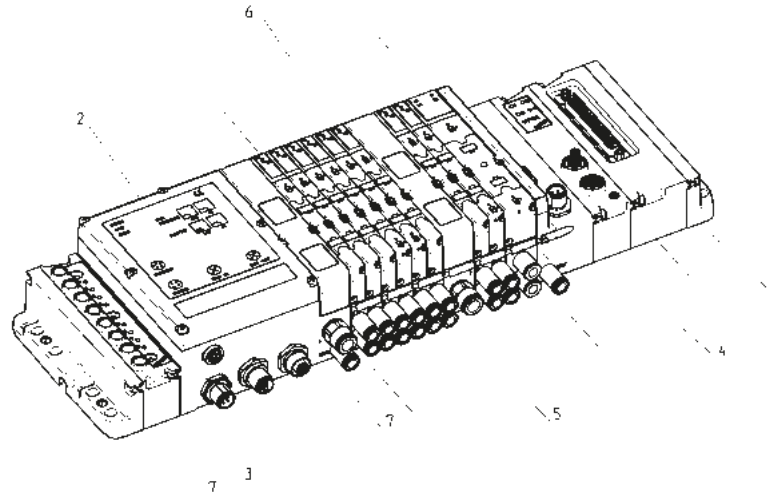
CODING - MULTIPOLE VERSION



HP (1)	(2)	(3)	(4)	(5)	(6)
	Electrical connection	Cable length of the plug	Type of sub-bases and seals	Type of solenoid valve Size 1 and 2	Type of threaded terminal plates
1	10 M Multipole 25 pin PNP	03 03 m	A (AZ) M7 threads	M 5/2 Monostable	A 1; 12/14 in common 3/5; 82/84 threaded ports
2	21 N Multipole 25 pin NPN	05 05 m	B (BZ) fittings tube ø 4	B 5/2 Bistable	B 1; 12/14 separate 3/5; 82/84 threaded ports
5	Mixed H Multipole 37 pin PNP	10 10 m	C (CZ) fittings tube ø 6	V 5/3 Centres Closed	C 1; 12/14 in common 3/5; 82/84 w. integr. silencer
		L Multipole 37 pin NPN	15 15 m	D (DZ) channel 1; 3; 5 closed - M7 threads	C 2 x 3/2 NC
		20 20 m	E (EZ) channel 1; 3; 5 closed - cartridge ø 4	A 2 x 3/2 NO	FITTINGS TUBE ø 8 ON PORT 1
		25 25 m	F (FZ) channel 1; 3; 5 closed - cartridge ø 6	G 1 x 3/2 NC + 1 x 3/2 NO	E 1; 12/14 in common 3/5; 82/84 conveyable
		30 30 m	G (GZ) channel 3; 5 closed - M7 threads	E 2 x 2/2 NC	F 1; 12/14 separate 3/5; 82/84 conveyable
		X length to be defined (m)	H (HZ) channel 3; 5 closed - cartridge ø 4	F 2 x 2/2 NO	G 1; 12/14 in common 3/5; 82/84 w. integr. silencer
			I (IZ) channel 3; 5 closed - cartridge ø 6	I 1 x 2/2 NC + 1 x 2/2 NO	H 1; 12/14 separate 3/5; 82/84 w. integr. silencer
			L (LZ) channel 1 closed - M7 threads	L Free position	FITTINGS TUBE ø 10 ON PORT 1
			M (MZ) channel 1 closed - cartridge ø 4	SOL. VALVE + PRESS. REG. LINE 1 - SIZE 2 ONLY	I 1; 12/14 in common 3/5; 82/84 conveyable
			N (NZ) channel 1 closed - cartridge ø 6	N 5/2 Monostable	L 1; 12/14 separate 3/5; 82/84 conveyable
			P SUB-BASE FOR VALVES SIZE 2	P 5/2 Bistable	M 1; 12/14 in common 3/5; 82/84 with integrated silencer
			Q G1/8 thread	Q 5/3 Centres Closed	N 1; 12/14 separate 3/5; 82/84 w. integr. silencer
			R fittings tube ø 6	R 2 x 3/2 NC	
			S fittings tube ø 8	S 2 x 3/2 NO	
			T SUPPLEMENTARY SUPPLY AND EXHAUST	T 1 x 3/2 NC 1 x 3/2 NO	
			X Supplem. supply and exhaust	U 2 x 2/2 NC	
			Y Supplem. supply and exhaust with silencer	X 2 x 2/2 NO	
			W Supply from exhausts		
			Y ELECTRICAL SEP. AND SUPPLEMENTARY PNEUMATIC SUPPLY	Y 1 x 2/2 NC 1 x 2/2 NO	
			K Electrical supply separation and supplem. pneumatic supply		
			SEALS		
			T Diaphr. seal - channel 1; 3; 5		
			U Diaphr. seal - channel 1		
			V Diaphr. seal - channel 3; 5		

CODING - EXPANDABLE FIELDBUS VERSION

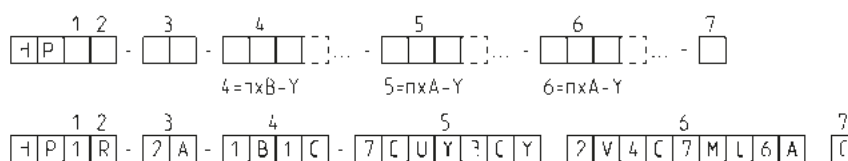
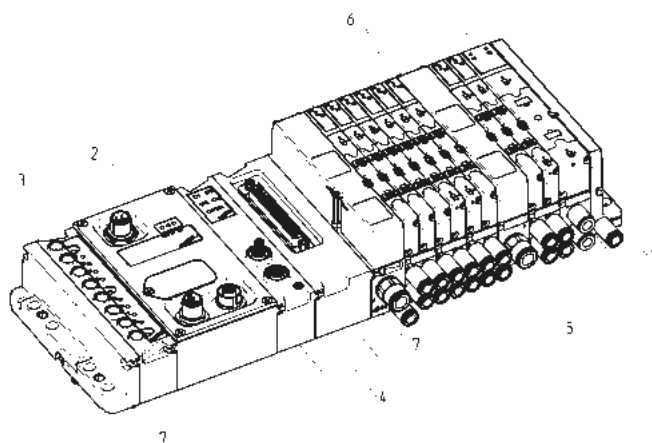
[Unused input modules with electrical connections type D]



HP (1)	(2)	(3)	(4)	(5)	(6)	(7)
Size	Electrical connection	Input modules	Output modules	Type of sub-bases and seals	Type of Solenoid valve Size 1 and 2	Type of threaded terminal plates
1	10,5 P	Profibus-DP 0	no module 0	no module A (AZ)	M7 threads	M 5/2 Monostable A 1; 12/14 in common 3/5; 82/84 threaded
2	21 C	CANopen A	8 Input M8 X	Outputs Interface B (BZ)	fittings tube ø 4	B 5/2 Bistable B 1; 12/14 separate 3/5; 82/84 threaded
5	Mixed D	DeviceNet	Y	Outputs Interface with electrical sep. C (CZ)	fittings tube ø 6	V 5/3 Centres Closed C 1; 12/14 in common 3/5; 82/84 w. silencer
	E	Expansion for P-C-D only	B	4 outputs M12 duo D (DZ)	channel 1; 3; 5 closed - M7 threads	C 2 x 3/2 NC D 1; 12/14 separate 3/5; 82/84 w. silencer
			C	8 outputs SUB-D 37 pin E (EZ)	channel 1; 3; 5 closed - cartridge ø 4	A 2 x 3/2 NO E FITTINGS TUBE ø 8 ON PORT 1
			D	16 outputs SUB-D 37 pin F (FZ)	channel 1; 3; 5 closed - cartridge ø 6	G 1 x 3/2 NC + 1 x 3/2 NO F 1; 12/14 in common 3/5; 82/84 conveyable
			E	24 outputs SUB-D 37 pin G (GZ)	channel 3; 5 closed - M7 threads	E 2 x 3/2 NC F 1; 12/14 in common 3/5; 82/84 conveyable
			F	32 outputs SUB-D 37 pin H (HZ)	channel 3; 5 closed - cartridge ø 4	F 2 x 3/2 NO G 1; 12/14 in common 3/5; 82/84 w. silencer
				I (IZ)	channel 3; 5 closed - cartridge ø 6	I 1 x 2/2 NC + 1 x 2/2 NO H 1; 12/14 separate 3/5; 82/84 w. silencer
				L (LZ)	channel 1 closed - M7 threads	L Free position FITTINGS TUBE ø 10 ON PORT 1
				M (MZ)	channel 1 closed - cartridge ø 4	SOL. VALVE+PR. REG. LINE 1, SIZE 2 ONLY I 1; 12/14 in common 3/5; 82/84 conveyable
				N (NZ)	channel 1 closed - cartridge ø 6	N 5/2 Monostable L 1; 12/14 in common 3/5; 82/84 conveyable
					SUB-BASE FOR VALVES SIZE 2	P 5/2 Bistable M 1; 12/14 in common 3/5; 82/84 w. silencer
					G1/8 thread	Q 5/3 Centres Closed N 1; 12/14 separate 3/5; 82/84 w. silencer
					fittings tube ø 6	R 2 x 3/2 NC
					fittings tube ø 8	S 2 x 3/2 NO
					SUPPLEM. SUPPLY AND EXHAUST	T 1 x 3/2 NC + 1 x 3/2 NO
					Supplem. supply and exhaust	U 2 x 2/2 NC
					Supplem. supply and exhaust with silencer	X 2 x 2/2 NO
					Supply from the exhausts	W
					ELECT. SEP. AND SUPPLEM. PNEUM. SUPPLY	Y 1 x 2/2 NC + 1 x 2/2 NO
					Electr. supply sep. and supplem. pneum. supply	K
					SEALS	
					Diaphr. channel 1; 3; 5	T
					Diaphr. channel 1	U
					Diaphr. channel 3; 5	V

CODING - INDIVIDUAL FIELDBUS VERSION

[Unused input modules with electrical connections type R]

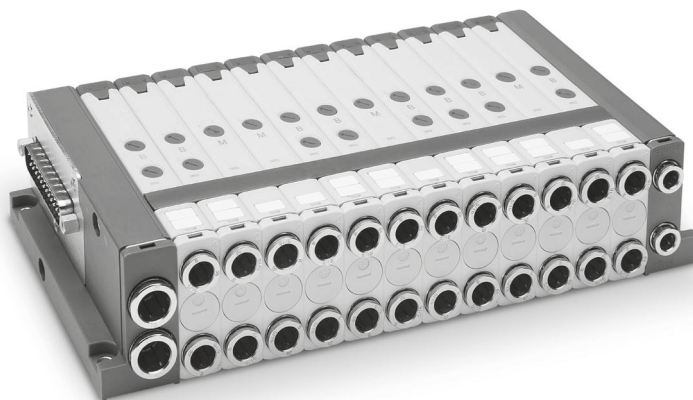


HP (1)	(2)	(3)	(4)	(5)	(6)	(7)
Size	Electrical Connection	Input Modules	Output Modules	Type of sub-bases and seals	Type of solenoid valve Size 1 and 2	Type of threaded terminal plates
1	10,5 F	Profibus-DP 0 no module	0 no module	A (AZ) M7 threads	M 5/2 Monostable	A 1; 12/14 in common 3/5; 82/84 threaded
2	21 G	CANopen A 8 Input M8	B 4 outputs M12 duo	B (BZ) fittings tube ø 4	B 5/3 Bistable	B 1; 12/14 separate; 3/5; 82/84 threaded
5	Mixed R	DeviceNet	C 8 outputs SUB-D 37 pin	C (CZ) fittings tube ø 6	V 5/3 Centres Closed	C 1; 12/14 in common; 3/5; 82/84 w. silencer
			D 16 outputs SUB-D 37 pin	D (DZ) channel 1; 3; 5 closed M7 threads	C 2 x 3/2 NC	D 1; 12/14 separate; 3/5; 82/84 w. silencer
			E 24 outputs SUB-D 37 pin	E (EZ) channel 1; 3; 5 closed cartridge ø 4	A 2 x 3/2 NO	FITTINGS TUBE ø 8 ON PORT 1
			F 32 outputs SUB-D 37 pin	F (FZ) channel 1; 3; 5 closed cartridge ø 6	G 1 x 3/2 NC + 1 x 3/2 NO	E 1; 12/14 in common 3/5; 82/84 conveyable
				G (GZ) channel 3; 5 closed M7 threads	E 2 x 2/2 NC	F 1; 12/14 separate 3/5; 82/84 conveyable
				H (HZ) channel 3; 5 closed cartridge ø 4	F 2 x 2/2 NO	G 1; 12/14 in common 3/5; 82/84 w. silencer
				I (IZ) channel 3; 5 closed cartridge ø 6	I 1 x 2/2 NC + 1 x 2/2 NO	H 1; 12/14 separate 3/5; 82/84 w. silencer
				L (LZ) channel 1 closed threaded M7	L Free position	FITTINGS TUBE ø 10 ON PORT 1
				M (MZ) channel 1 closed cartridge ø 4	SOL. VALVE+PR. REG. I LINE 1, SIZE 2 ONLY	I 1; 12/14 in common 3/5; 82/84 conveyable
				N (NZ) channel 1 closed cartridge ø 6	N 5/2 Monostable	L 1; 12/14 separate 3/5; 82/84 conveyable
				SUB-BASE FOR VALVES SIZE 2	P 5/3 Bistable	M 1; 12/14 in common 3/5; 82/84 w. silencer
				Q G1/8 thread	Q 5/3 Centres Closed	N 1; 12/14 separate 3/5; 82/84 w. silencer
				R fittings tube ø 6	R 2 x 3/2 NC	
				S fittings tube ø 8	S 2 x 3/2 NO	
				T SUPPLEM. SUPPLY AND EXHAUST	T 1 x 3/2 NC + 1 x 3/2 NO	
				X Supplem. supply and exhaust	U 2 x 2/2 NC	
				Y Supplem. supply and exhaust with silencer Supply from exhausts	X 2 x 2/2 NO	
				W ELECT. SEP. + SUPPL. PNEUM. SUPPLY	Y 1 x 2/2 NC + 1 x 2/2 NO	
				K Electr. supply sep. and supplem. pneum. supply		
				SEALS		
				T Diaphr. channel 1; 3; 5		
				U Diaphr. channel 1		
				V Diaphr. channel 3; 5		

Series F valve islands

Multipole integrated electrical connection (PNP)

Valve functions: 2x2/2, 2x3/2, 5/2, 5/3 CC



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.

2

CONTROL

GENERAL AND ELECTRICAL CHARACTERISTICS

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 + 1x2/2 NO 2x3/2 NO 2x3/2 NC 1x3/2 NC + 1x3/2 NO
Materials	aluminium spool HNBR seals other seals in NBR brass cartridges technopolymer body and end covers
Connections	Inlets 2 and 4, size 1 (12 mm) = tube \varnothing 4; \varnothing 6 Inlets 2 and 4, size 2 (14 mm) = tube \varnothing 4; \varnothing 6; \varnothing 8 Supply 1, size 1 and 2 = tube \varnothing 8; \varnothing 10 Servo pilot 12/14, size 1 and 2 = tube \varnothing 6 Exhausts 3/5, size 1 and 2 = tube \varnothing 8; \varnothing 10 Exhausts 82/84, size 1 and 2 = tube \varnothing 6
Temperature	0 ÷ 50°C
Air specifications	Filtered air class 5.4.4 according to ISO 8573.1 If lubrication is necessary, we recommend you to use only oils with maximum viscosity of 32 Cst.
Valve sizes	12 mm 14 mm
Working pressure	- 0,9 ÷ 10 bar
Pilot pressure	3 ÷ 7 bar
Flow rate	250 NI/min (12 mm) 500 NI/min (14 mm)
Mounting position	any position

ELECTRIC SECTION

Voltage	24 V DC +/- 10%
Power consumption	0.6 W per coil
Duty cycle	ED 100%
Protection class (according to EN 60529)	IP40 (with connection plug inserted)
Max number of solenoids	24
Max number of valve positions	24 (monostable)

CODING EXAMPLE - MULTIPOLE VERSION

F	P	2	R	M	T	A	-	B2MULCA	-	2QRSLRS
---	---	---	---	---	---	---	---	---------	---	---------

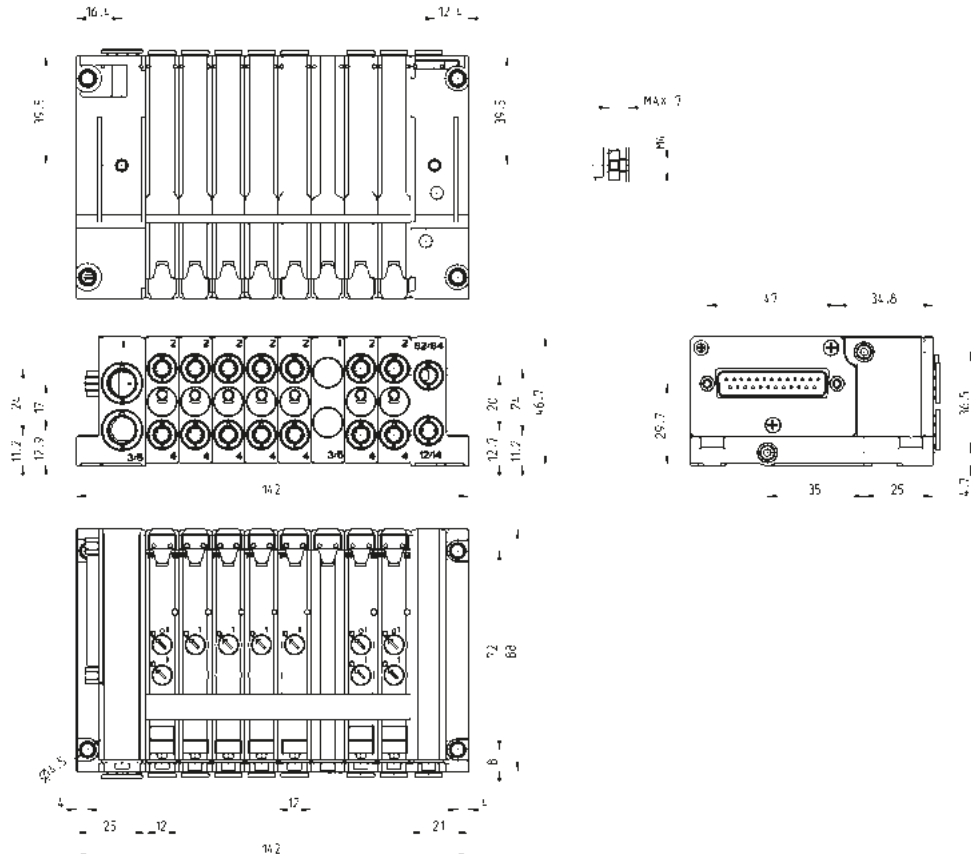
F	SERIES
P	TYPE: P = pneumatic - A = accessories
2	SIZE: 1 = 12 mm - 2 = 14 mm
R	MANUAL OVERRIDE: P = pressure actuation control - R = actuation control with push & turn device
M	ELECTRICAL CONNECTION: M = multipole
T	CARTRIDGES FOR LEFT TERMINAL: S = tube \varnothing 8 - T = tube \varnothing 10
A	TYPE OF SERVO-PILOT: A = internal - B = external Note: the cartridges for the right terminal are for tube \varnothing 6
-	

B2MULCA	TYPE OF SOLENOID VALVES AND ADDITIONAL PLATES *: M = 5/2 monostable D = 5/2 monostable with bistable board B = 5/2 bistable C = 2x3/2 NC A = 2x3/2 NO G = 3/2 NC + 3/2 NO E = 2x2/2 NC F = 2x2/2 NO I = 2/2 NC + 2/2 NO V = 5/3 CC L = free position W = free position with bistable board Z = free position with monostable board X = supplementary power supply and exhaust T = separated power supply and exhaust U = separated power supply, supplementary exhaust K = supplementary power supply, separated exhaust
-	

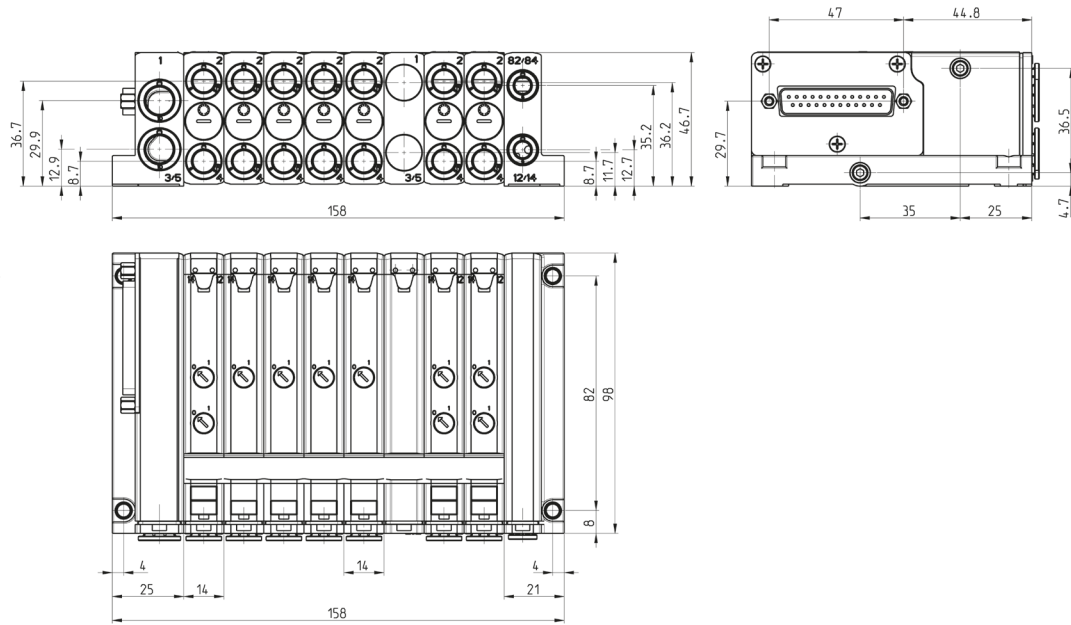
2QRSLRS	CARTRIDGES FOR SOLENOID VALVES AND ADDITIONAL PLATES *: Q = tube \varnothing 4 - R = tube \varnothing 6 - S = tube \varnothing 8 (not for size 1) - L = free position (no cartridges) W = free position with bistable board (no cartridges) - Z = free position with monostable board (no cartridges)
----------------	---

* = NOTE: in case of identical and consecutive codes, in the choices " type of solenoid valves and additional plates " and " cartridges for solenoid valves and additional plates ", letters have to be substituted with numbers. With the choice " cartridges for solenoid valves and additional plates " both connections (2 and 4) (1 and 3/5) are defined.

Examples: FP2RMTA-MBCCMULMMBB-QQRSSLRRRQRR - FP2RMTA-MB2CMUL3M2B-2QR2SL3RQ2R

Multipole version - dimensions of size 1


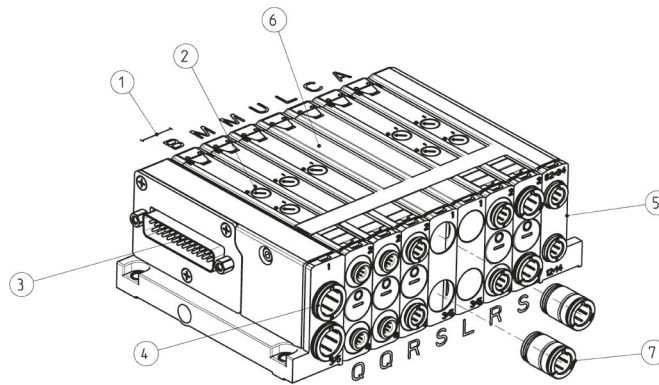
Multipole version - dimensions of size 2



2

CONTROL

CODING - MULTIPOLE VERSION



1 2 3 4 5 - 6 - 7

[FP] [] [] [] [] - [] [] [] [] [] - [] [] [] [] []

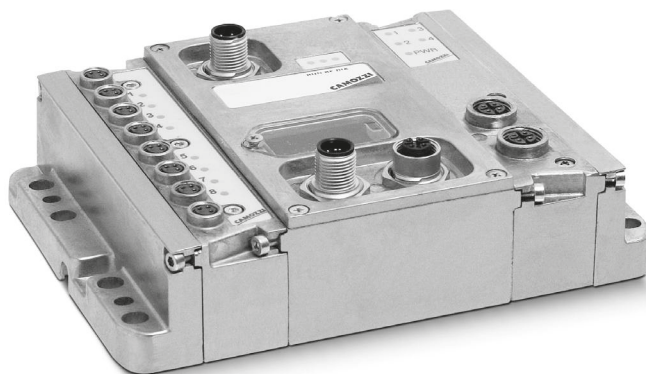
1 2 3 4 5 - 6 - 7

[FP2RMTA] - [B2MULCA] - [2QRSLS]

FP (1)	(2)	(3)	(4)	(5)	(6)	(7)
Size	Manual override	Electrical override	Cartridges for left terminal	Type of servo-pilot	Type of solenoid valve or plate	Cartridges for solenoid valves or plates
1 12 mm	P pressure	M multipole	S ø 8	A internal	M 5/2 monostable	Q ø 4
2 14 mm	R push and turn		T ø 10	B external	D 5/2 monostable with bistable board	R ø 6
					B 5/2 bistable	S ø 8
					C 2x3/2 NC	L -
					A 2x3/2 NO	W -
					G 3/2 NC + 3/2 NO	Z -
					E 2x2/2 NC	
					F 2x2/2 NO	
					I 2/2 NC + 2/2 NO	
					V 5/3 CC	
					L free position	
					W free position with bistable board	
					Z free position with monostable board	
					X supplementary power supply and exhaust	
					T separated power supply and exhaust	
					U separated power supply, supplementary exhaust	
					K supplementary power supply, separated exhaust	

CP2, CC2 and CD2 Individual Fieldbus Nodes

Interface with: Profibus-DP, CANopen, DeviceNet



This is a Fieldbus Module with class of protection IP65. Thanks to the high mechanical strength of its Aluminium support structure, it is suitable for mounting in arduous conditions. It can be coupled with electrical input/outlet modules and is able to handle up to a max of 64 solenoids and 64 inputs. Through pre-packaged connection cables, it can be interfaced with multipole valve islands.

Electric output mod. that can be coupled are: connect. D-Sub- 37 pin for 8/16/24/32 outlets or with 2 M12 connect. for 4 outlets. Input mod. have 8xM8 connect. and supply sensors rated up to a max of 100mA. All modules are connected by plug and socket and addressing is done by rotary switch for easy configuration.

GENERAL DATA

Number of digital output	64
Number of digital input	64
Maximum input absorption	1,5 A
Maximum output absorption	3 A
Signalling Led	CP2: 1 led green RUN, 1 led red DIA, 1 led red BF CD2: 1 led green IO, 1 led red NS, 1 led red MS CC2: 1 led green RUN, 1 led red DIA, 1 led red BF
FieldBus Protocol	CP2: Profibus-DP CD2: DeviceNet CC2: CanOpen
Maximum number of nodes	CP2: 32/127 CD2: 64 CC2: 127
Maximum Baud rate	CP2: 12 Mbit/sec CD2: 500 Kbit/sec CC2: 1 Mbit/sec
Logical supply voltage *	24VDC (-15% / + 20%)
Power supply voltage *	24VDC (for the tolerance, consider the total loads of the connected inputs)
Protection	overload and reverse polarity
Protection class	IP65
Conform with standards	EN-61326-1 EN-61010-1
Operating temperature	0-50°C
Material	Aluminium
Weight	250 g
Dimensions	130x68 mm

* = the voltage range can change according to the range required by the external connected elements

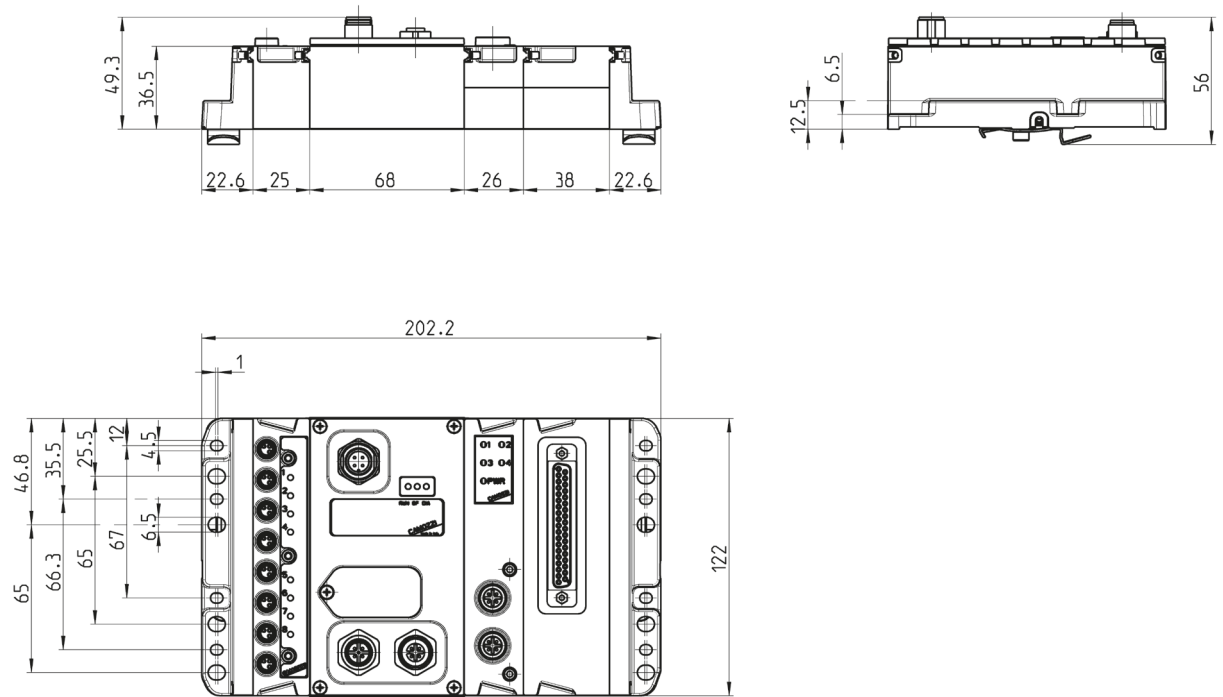
CODING EXAMPLE

CP2	-	3A	-	BC
------------	---	-----------	---	-----------

CP2	CP2 = Profibus-DP CC2 = CANopen CD2 = DeviceNet
3A	0 = no module nA = numbers of modules 8 Input (n = 1+8) * * not for DeviceNet version
BC	0 = no module nB = numbers of modules 4 output M12 duo nC = numbers of modules 8 output sub-d 37 pin nD = numbers of modules 16 output sub-d 37 pin nE = numbers of modules 24 output sub-d 37 pin nF = numbers of modules 32 output sub-d 37 pin (es. 3 modules A + 2 modules E = 3A2E)

Fieldbus modules - Characteristics

Bus-In Bus-Out system for connection to the Fieldbus network. Double electrical supplies (one for control and the other for power). Addressing via rotary switches. Leds indicating the working state. Handling of a max n° of 64 inputs and 64 outputs. Electrical connections on the same side as the pneumatic connections. The output modules can be positioned on the right hand side of the node and they provide either 2 x M12 or 37 pole Sub-D connection. In the same way it is possible to position the input modules on the left hand side, which provide 8 inputs with M8 connection. All elements can be easily inserted because of their direct connection to the plate. It is possible to use this node directly integrated on pneumatic solutions such as Series 3 and H. Each node is part of the serial system. Manuals and configuration files are available on our website: <http://catalogue.camozzi.com/Downloads>.




Connectors for valve islands

The section includes some accessories


2

CONTROL

Straight Sub-D 25-pole female connector for Series 3 Plug-In, Y Multipole and F Mod.
G3X-3
G3X-5
G3X-10
G4X-3
G4X-5
G4X-10



Angular Sub-D 25-pole female connector for Series 3 Plug-In, Y Multipole and F Mod.
G4X1-3
G4X1-5



Connection cables for digital output modules ME-XXXX-DD that can be connected to Series 3 Plug-In, Y Multipole and F Mod.
G4X-G9W-3
G4X-G9W-5



Connection cable for digital output modules ME-XXXX-DD that can be connected to Series H Multipole Mod.
G4X1-H-G9W-3
G4X1-H-G9W-5



Power supply straight female connector M12 4 poles. It can be used with Series 3 Fieldbus, Y, H and CX2 Mod.
CS-LF04HB



Power supply angular female connector M12 4 poles. It can be used with Series 3 Fieldbus, Y, H and CX2 Mod.
CS-LR04HB



Bus-In straight female connectors M12/M12B 5 poles. They can be used with Series 3 Fieldbus, Y, H and CX2 Mod.
CS-MF05HC
CS-LF05HC



Bus-In angular female connectors M12/M12B 5 poles. They can be used with Series 3 Fieldbus, Y, H and CX2 Mod.
CS-MR05HC
CS-LR05HC



Bus-Out straight male connectors M12/M12B 5 poles. They can be used with Series 3 Fieldbus, H and CX2 Mod.
CS-MM05HC
CS-LM05HC



Bus-Out angular male connectors M12/M12B 5 poles. They can be used with Series 3 Fieldbus, H and CX2 Mod.
CS-MS05HC
CS-LS05HC



Male connectors M12/M12B with terminal resistance. These connectors with serial terminal resistance can be used with Series 3 Fieldbus, H and CX2 Mod.
CS-MQ05H0
CS-LP05H0



Male cable entry connector M8 3 poles for inputs modules. It can be used with Series H and CX2 Mod.
CS-DM03HB




Male connector M9 with terminal resistance Cam.I.Net. This connector with sub-terminal resistance can be used with Series 3 Fieldbus, H and CX2 Mod.
CS-FP05H0



Profibus-DP data line tee. Connection cable for Expansion Modules Series Y Mod.
CS-AA03EC



CANopen / DeviceNet data line tee. Connection cable for Expansion Modules Series Y and H Mod.
CS-AA05EC



Straight male connector DUO M12 5 poles. For the connection of digital input modules ME-1600-DL and digital output modules ME-0004-DL Mod.
CS-LD05HF



Angular male connector DUO M12 5 poles. For the connection of digital input modules ME-1600-DL and digital output modules ME-0004-DL Mod.
CS-LH05HF




Programming cable for Series Y Mod.
CS-FZ03AD-C500



Expansion cable for Series Y and H Mod.
CS-FW05HE-D025
CS-FW05HE-D100
CS-FW05HE-D250
CS-FW05HE-D500
CS-FW05HE-DA00




Extension with connector M8, 3 Pin Male / Female. For the connection of digital input modules ME-0008-DC (see the section Series 3 Fieldbus, H and CX2) Mod.
CS-DW03HB-C250
CS-DW03HB-C500



USB SERIAL converter for programming cable. For Series Y Mod.
G8X3-G8W-1




Connectors with crimped cable for Series Y, Individual version Mod.
121-803 (cable 300 mm)
121-806 (cable 600 mm)
121-810 (cable 1000 mm)
121-830 (cable 3000 mm)




Blanking plug for Series 3 Fieldbus, H and CX2 Modules Mod.
CS-DFTF
CS-LFTF



Mounting brackets for DIN rail. Suitable for Series 3 Fieldbus, Y, H, F and CX2 manifolds. Supplied with: 2x plates, 2x screws M4x6 UNI 5931 Mod. **PCF-E520**




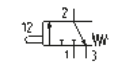
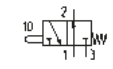

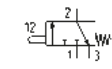
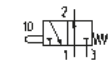
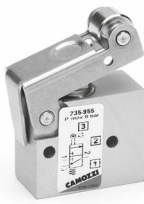
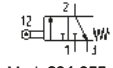
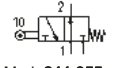

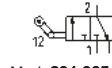
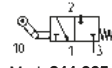
Identification plates for Series H and F. The packaging contains 45 identification plates 9x5 mm Mod. **HP1/E**



Series 2 mechanically operated minivalves

3/2-way

Ports: M5. Cartridge ø 4

  <p>Mod. 234-945 235-945</p>  <p>Mod. 244-945 245-945</p>	  <p>Mod. 234-985 235-985</p>  <p>Mod. 244-985 245-985</p>
  <p>Mod. 234-955 235-955</p>  <p>Mod. 244-955 245-955</p>	  <p>Mod. 234-965 235-965</p>  <p>Mod. 244-965 245-965</p>

2
CONTROL

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 4 5 = M5				
94	ACTUATION: 94 = plunger 95 = lever/roller 96 = unidirectional lever 98 = plunger, panel mounting				
5	RESETTING: 5 = spring return				

Series 1 and 3 mechanically operated valves

Series 1: 3/2-way, 5/2-way. Ports: G1/8, G1/4

Series 3: 3/2-way, 5/2-way. Ports: G1/8

2

CONTROL



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

Series 3 and 4 mechanically operated sensor valves

3/2-way, 5/2-way
Ports: G1/8, G1/4

	Mod. 338-D15-9A5		Mod. 348-D15-9A5		Mod. 358-D15-9A5
	Mod. 458-015-194		Mod. 458-011-294		Mod. 454-015-194
	Mod. 454-011-294		Mod. 458-015-195		Mod. 458-011-295
	Mod. 454-015-195		Mod. 454-011-295		

CODING EXAMPLE

3	3	8	-	D15	-	9A5
----------	----------	----------	----------	------------	----------	------------

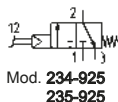
3	SERIES: 3 4
3	FUNCTION: 3 = 3/2-way NC - 4 = 3/2-way NO - 5 = 5/2-way
8	PORTS: 8 = G1/8 - 4 = G1/4
D15	ACTUATION: D15 = pressure drop/spring 015 = pressure/spring 011 = pressure/pressure
9A5	DEVICES: 9A5 = lever sensor, spring return 194 = plunger sensor, spring return 294 = plunger sensor, bistable 195 = lever/roller, spring return 295 = lever/roller, bistable

Series 3 - pneumatic Series 2 foot operated pedal electrical

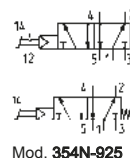
Series 3: G1/4, 5/2-way, normally closed (NC) and normally open (NO)

Series 2: M5, 4/2 tube, 3/2-way, normally closed (NC)

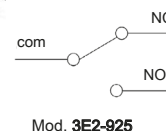
Pneumatic foot operated pedal Series 2



Pneumatic foot operated pedal Series 3



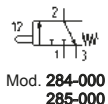
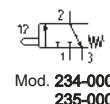
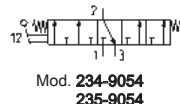
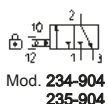
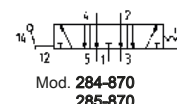
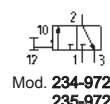
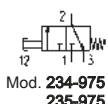
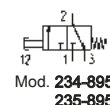
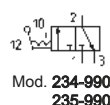
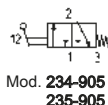
Electrical foot operated pedal Series 3



Series 2 manually operated console minivalves

3/2-way, 5/3-way CC CO CP

Ports: M5. Cartridge \varnothing 4



Panel hole adaptor \varnothing 30
Supplied with:
2x reduction rings



Mod. **200-2230**

End cover



Mod. **210-000**
220-000

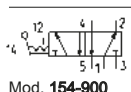
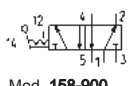
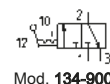
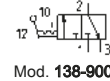
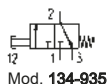
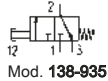
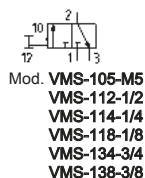
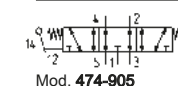
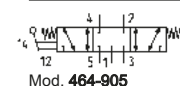
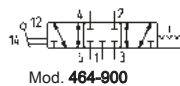
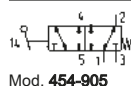
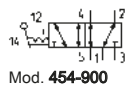
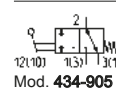
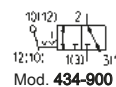
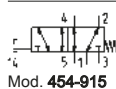
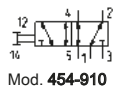
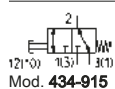
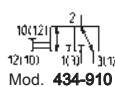
CODING EXAMPLE					
2	3	4	-	97	5
2	SERIES				
3	FUNCTION: 3 = 3/2-way NC 4 = 3/2-way NO 8 = 5/3-way CO (function realized with 2x 3/2-way NC valves)				
4	PORTS: 4 = cartridge \varnothing 4 5 = M5				
97	MODE OF OPERATION: 87 = 3 position selector 89 = push button 97 = palm switch 90 = joystick 99 = 2 position selector 92 = pedal 904 = key				
5	RESETTING: 5 = spring return 0 = stable 2 = latching-twist to release 54 = joystick				

Series 1, 3, 4 and VMS manually operated valves

Series 1, 3 and 4: 3/2-way, 5/2-way, 5/3-way CC CO CP. Ports G1/8, G1/4

Series VMS: 3/2-way. Ports G1/8, G1/4, G3/8, G1/2

	Mod. 338-990		Mod. 358-990	Mod. 338-895 Black 338-896 Green 338-897 Red	
	Mod. 358-895 Black 358-896 Green 358-897 Red		Mod. 338-975 Black 338-976 Green 338-977 Red		Mod. 358-975 Black 358-976 Green 358-977 Red
	Mod. 338-910		Mod. 358-910		Mod. 338-900
	Mod. 338-915		Mod. 358-915		Mod. 338-905
	Mod. 358-900		Mod. 368-900		Mod. 378-900
	Mod. 358-905		Mod. 368-905		Mod. 378-905


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

PORTS:

- 8 = G1/8
- 4 = G1/4


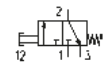
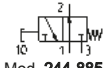

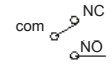
900

RESETTING:

- 895 = pushbutton, monostable, black
- 896 = pushbutton, monostable, green
- 897 = pushbutton, monostable, red
- 900 = lever, bistable
- 905 = lever, monostable
- 910 = knob, bistable
- 915 = knob, monostable
- 935 = digital monostable
- 975 = palm-switch, monostable, black
- 976 = palm-switch, monostable, green
- 977 = palm-switch, monostable, red
- 990 = switch, bistable





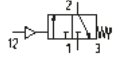
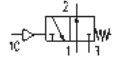

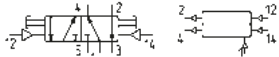


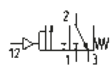




Series 2 mini-handle valves

Handle with incorporated micro valve 3/2, normally closed (NC) and normally open (NO)
 Handle with incorporated micro switch

 <div style="text-align: center;">  <p>Mod. 234-885</p>  <p>Mod. 244-885</p> </div>	 <div style="text-align: center;">  <p>Mod. 234-88E</p> </div>
--	--

Series 2L basic logic valves

Cartridge \varnothing 4 mm
 or - and - yes - not - memory

<p>Basic logic valves AND / OR</p>  <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Mod. 2LD-SB4-B (AND)</p> </div> <div style="text-align: center;">  <p>Mod. 2LR-SB4-B (OR)</p> </div> </div>	<p>Basic logic valves YES / NOT</p>  <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Mod. 2LS-SB4-B (YES)</p> </div> <div style="text-align: center;">  <p>Mod. 2LT-SB4-B (NOT)</p> </div> </div>
<p>Basic logic valves "Memory"</p>  <div style="text-align: center;">  <p>Mod. 2LM-SB4-B (MEMORY)</p> </div>	<p>Right-angled bracket</p>  <div style="text-align: right;"> <p>Mod. 2LQ-8A</p> </div>
<p>Pneumatically operated 3/2 NC amplifier valve - G1/8 ports</p>  <div style="text-align: center;">  <p>Mod. 2LA-AM</p> </div>	<p>Sender and receiver sensor Series 2L - M5 ports</p>   <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Mod. 2LB-SR (RECEIVER)</p> </div> <div style="text-align: center;">  <p>Mod. 2LB-SE (SENDER)</p> </div> </div>

Series SCS, VNR, VSO, VSC and VMR automatic valves

Circuit selector Mod. SCS



Mod. SCS 668-06

Series VNR unidirectional valves


 Mod. VNR 205-M5
 VNR 210-1/8
 VNR 843-07
 VNR-238-3/8
 VNR-212-1/2
 VNR-234-3/4

Series VSO quick exhaust valves



Mod. VSO 425-M5

Series VSO quick exhaust valves



Mod. VSO 426-04

Series VSC quick exhaust valves


 Mod. VSC 588-1/8
 VSC 544-1/4
 VSC 522-1/2

Valves with adjustable exhaust Mod. VMR



Mod. VMR 1/8-B10

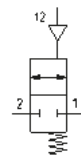
Series VBO and VBU blocking valves

Ports: G1/8, G1/4, G3/8, G1/2

Unidirectional valves


 Mod. VBU 1/8
 VBU 1/4
 VBU 3/8
 VBU 1/2

Bidirectional valves


 Mod. VBO 1/8
 VBO 1/4
 VBO 3/8
 VBO 1/2

CODING EXAMPLE

VB	U	1/8
----	---	-----

VB SERIES

U VERSIONS:
 U = unidirectional
 O = bidirectional

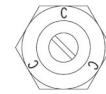
1/8 PORTS:
 1/8 = G1/8
 1/4 = G1/4
 3/8 = G3/8
 1/2 = G1/2

Series SCU, MCU, SVU, MVU, SCO and MCO flow control valves

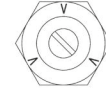
Unidirectional and bidirectional banjo flow control regulators

Ports M5, G1/8, G1/4, G3/8, G1/2

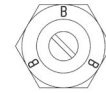
Types



SCU
MCU

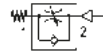


SVU
MVU



SCO
MCO

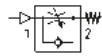
SCU - MCU = direct assembly on cylinders
SVU - MVU = direct assembly on valves
SCO - MCO = direct assembly on cylinders or valves



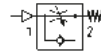
Mod. **SCU 602-M5**
SCU 604-1/8
SCU 606-1/4
SCU 608-3/8



Mod. **MCU 702-M5**
MCU 704-1/8
MCU 706-1/4
MCU 708-3/8



Mod. **SVU 602-M5**
SVU 604-1/8
SVU 606-1/4



Mod. **MVU 702-M5**
MVU 704-1/8
MVU 706-1/4



Mod. **SCO 602-M5**
SCO 604-1/8
SCO 606-1/4



Mod. **MCO 702-M5**
MCO 704-1/8
MCO 706-1/4



Mod. **SCU 610-1/2**



Mod. **MCU 710-1/2**



Mod. SVU 610-1/2



Mod. MVU 710-1/2



Mod. SCO 610-1/2



Mod. MCO 710-1/2

CODING EXAMPLE

M	CU	7	02	-	M5
---	----	---	----	---	----

M ACTUATION:
M = Manual
S = Screwdriver

CU ASSEMBLY / VALVE TYPE:
CU = directly on double-acting cylinders / unidirectional
VU = directly on valves / unidirectional
CO = directly on valves exhaust / bidirectional

7 VERSIONS:
6 = needle (screwdriver operated)
7 = needle (manual operated)

02 NOMINAL DIAMETER:
02 = \varnothing 1,5 max
04 = \varnothing 2 max
06 = \varnothing 4 max
08 = \varnothing 7 max
10 = \varnothing 12 max

M5 PORTS:
M5 = M5
1/8 = G1/8
1/4 = G1/4
3/8 = G3/8
1/2 = G1/2

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
Ports G1/8, G1/4 and G1/2




Mod. RSW 1/8
RSW 1/4
RSW 3/8
RSW 1/2

Series PSCU, PMCU, PSVU, PMVU, PSCO and PMCO flow control valves

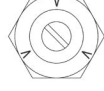
Unidirectional and bidirectional flow regulators with ports M5, G1/8, G1/4, G3/8 and banjo in brass (port M5) or in technopolymer (ports G1/8, G1/4, G3/8)

	<p>Mod. PSCU 602-M5-4 PSCU 602-M5-6 PSCU 604-1/8-4 PSCU 604-1/8-6 PSCU 604-1/8-8 PSCU 606-1/4-6 PSCU 606-1/4-8 PSCU 606-1/4-10 PSCU 608-3/8-10 PSCU 608-3/8-12</p>		<p>Mod. PMCU 702-M5-4 PMCU 702-M5-6 PMCU 704-1/8-4 PMCU 704-1/8-6 PMCU 704-1/8-8 PMCU 706-1/4-6 PMCU 706-1/4-8 PMCU 706-1/4-10 PMCU 708-3/8-10 PMCU 708-3/8-12</p>
	<p>Mod. PSVU 602-M5-4 PSVU 602 M5-6 PSVU 604-1/8-4 PSVU 604-1/8-6 PSVU 604-1/8-8 PSVU 606-1/4-6 PSVU 606-1/4-8 PSVU 606-1/4-10 PSVU 608-3/8-10 PSVU 608-3/8-12</p>		<p>Mod. PMVU 702-M5-4 PMVU 702-M5-6 PMVU 704-1/8-4 PMVU 704-1/8-6 PMVU 704-1/8-8 PMVU 706-1/4-6 PMVU 706-1/4-8 PMVU 706-1/4-10 PMVU 708-3/8-10 PMVU 708-3/8-12</p>
	<p>Mod. PSCO 602-M5-4 PSCO 602-M5-6 PSCO 604-1/8-4 PSCO 604-1/8-6 PSCO 604-1/8-8 PSCO 606-1/4-6 PSCO 606-1/4-8 PSCO 606-1/4-10 PSCO 608-3/8-10 PSCO 608-3/8-12</p>		<p>Mod. PMCO 702-M5-4 PMCO 702-M5-6 PMCO 704-1/8-4 PMCO 704-1/8-6 PMCO 704-1/8-8 PMCO 706-1/4-6 PMCO 706-1/4-8 PMCO 706-1/4-10 PMCO 708-3/8-10 PMCO 708-3/8-12</p>

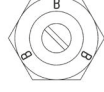
Types



PSCU
PMCU



PSVU
PMVU



PSCO
PMCO

PSCU - PMCU = direct assembly on cylinders
PSVU - PMVU = direct assembly on valves
PSCO - PMCO = direct assembly on cylinders or valves

CODING EXAMPLE									
P	M	CU	7	04	-	1/8	-	4	
P	SERIES								
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)								
04	NOMINAL DIAMETER: 02 = ø 1.5 MAX 04 = ø 2 MAX 06 = ø 4 MAX 08 = ø 7 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 6 8 = ø 8 10 = ø 10 12 = ø 12								

Series TMCU, TMVU and TMCO flow control valves

Unidirectional and bidirectional banjo flow control regulators

Nominal diameters \varnothing 2 - 3,8 - 5,8 - 8 mm

Ports G1/8, G1/4, G3/8, G1/2



Mod. **TMCU 972-1/8-4**
TMCU 974-1/8-6
TMCU 974-1/4-6
TMCU 976-1/8-8
TMCU 976-1/4-8
TMCU 976-3/8-8
TMCU 978-3/8-10
TMCU 978-1/2-10



Mod. **TMVU 972-1/8-4**
TMVU 974-1/8-6
TMVU 974-1/4-6
TMVU 976-1/8-8
TMVU 976-1/4-8
TMVU 976-3/8-8
TMVU 978-3/8-10
TMVU 978-1/2-10



Mod. **TMCO 972-1/8-4**
TMCO 974-1/8-6
TMCO 974-1/4-6
TMCO 976-1/8-8
TMCO 976-1/4-8
TMCO 976-3/8-8
TMCO 978-3/8-10
TMCO 978-1/2-10

CODING EXAMPLE

TM	CU		9	74	-	1/8	-	6
-----------	-----------	--	----------	-----------	----------	------------	----------	----------

TM ACTUATION:
 TM = manual

CU ASSEMBLY:
 CU = on cylinders unidirectional
 VU = on valves unidirectional
 CO = bidirectional

9 VERSIONS:
 9 = manual needle

74 REGULATION:

step	\varnothing tube
72 = 2	4
74 = 3.8	6
76 = 5.8	8
78 = 8	10

1/8 PORTS:
 1/8 = G1/8
 1/4 = G1/4
 3/8 = G3/8
 1/2 = G1/2


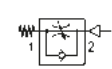

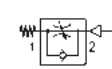

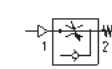

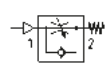

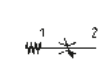

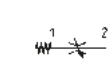
6 TUBE:
 4 = \varnothing 4 mm
 6 = \varnothing 6 mm
 8 = \varnothing 8 mm
 10 = \varnothing 10 mm

Series GSCU, GMCU, GSVU, GMVU, GSCO and GMCO flow control valves

Unidirectional and bidirectional banjo flow control regulators

Nominal diameters 1,5 - 3,5 - 5 mm

Ports M5, G1/8, G1/4

  <p>Mod. GSCU 813-M5-3 GSCU 814-M5-4 GSCU 803-1/8-6 GSCU 804-1/8-8 GSCU 805-1/4-8 GSCU 806-1/4-10</p>	  <p>Mod. GMCU 913-M5-3 GMCU 914-M5-4 GMCU 903-1/8-6 GMCU 904-1/8-8 GMCU 905-1/4-8 GMCU 906-1/4-10</p>	  <p>Mod. GSVU 813-M5-3 GSVU 814-M5-4 GSVU 803-1/8-6 GSVU 804-1/8-8 GSVU 805-1/4-8 GSVU 806-1/4-10</p>
  <p>Mod. GMVU 913-M5-3 GMVU 914-M5-4 GMVU 903-1/8-6 GMVU 904-1/8-8 GMVU 905-1/4-8 GMVU 906-1/4-10</p>	  <p>Mod. GSCO 813-M5-3 GSCO 814-M5-4 GSCO 803-1/8-6 GSCO 804-1/8-8 GSCO 805-1/4-8 GSCO 806-1/4-10</p>	  <p>Mod. GMCO 913-M5-3 GMCO 914-M5-4 GMCO 903-1/8-6 GMCO 904-1/8-8 GMCO 905-1/4-8 GMCO 906-1/4-10</p>

2
CONTROL

CODING EXAMPLE								
GM	CU		9	03	-	1/8	-	6
GM	ACTUATION: GM = manual GS = screwdriver							
CU	ASSEMBLY: CU = on cylinders unidirectional VU = on valves unidirectional CO = bidirectional							
9	VERSIONS: 8 = needle (screwdriver operated) 9 = needle (manually operated)							
03	FLOW CONTROL RANGE:							
	size	ø tube						
	13 = 1,5	3						
	14 = 1,5	4						
	03 = 3,5	6						
	04 = 3,5	8						
	05 = 5	8						
	06 = 5	10						
1/8	PORTS: M5 = M5 1/8 = G1/8 1/4 = G1/4							
6	TUBE: 3 4 = ø 4 mm 6 = ø 6 mm 8 = ø 8 mm 10 = ø 10 mm							

Series RFU and RFO flow control valves

Unidirectional and bidirectional flow control valves

Ports: M5, G1/8, G1/4, G3/8, G1/2

Nominal diameters M5 = 1,5 mm; G1/8 = 2 and 3 mm; G1/4 = 4 and 6 mm; G3/8 and G1/2 = 7 mm



Mod. RFU 452-M5
RFU 482-1/8
RFU 483-1/8
RFU 444-1/4
RFU 446-1/4
RFU 467-3/8
RFU 477-1/2



Mod. RFO 352-M5
RFO 382-1/8
RFO 383-1/8
RFO 344-1/4
RFO 346-1/4
RFO 367-3/8
RFO 377-1/2

CODING EXAMPLE

RF	U		4	8	2	-	1/8
----	---	--	---	---	---	---	-----

RF SERIES

U 4 FUNCTION:
U 4 = unidirectional
O 3 = bidirectional

8 PORTS:
4 = G1/4
5 = M5
6 = G3/8
7 = G1/2
8 = G1/8

2 FLOW CONTROL RANGE:
2 = \varnothing 1.5 mm max (for ports M5)
 \varnothing 2 mm max (for ports 1/8 only)
3 = \varnothing 3 mm max (for ports 1/8 only)
4 = \varnothing 4 mm max (for ports 1/4 only)
6 = \varnothing 6 mm max (for ports 1/4 only)
7 = \varnothing 7 mm max (for ports 3/8, 1/2 only)

1/8 PORTS:
M5
1/8
1/4
3/8
1/2

Series 28 flow control valves

Bidirectional flow control valves

Ports G1/8, G1/4, G3/8, G1/2



Mod. 2810 1/8
2810 1/4
2810 3/8
2810 1/2



Mod. 2820 1/8
2820 1/4
2820 3/8
2820 1/2



Mod. 2830 1/8
2830 1/4
2830 3/8
2830 1/2



Mod. 2819 1/8
2819 1/4



Mod. 2829 1/8
2829 1/4



Mod. 2839 1/8
2839 1/4
2839 3/8
2839 1/2

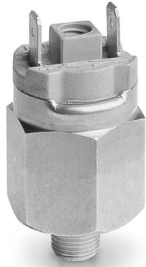
Pressure switches, transducers and pressure indicators

Series PM adjustable-diaphragm pressure switches, with setting visual scale, with exchange contacts

Series TRP electro-pneumatic transducers

Series 2950 pressure indicators, ports M5

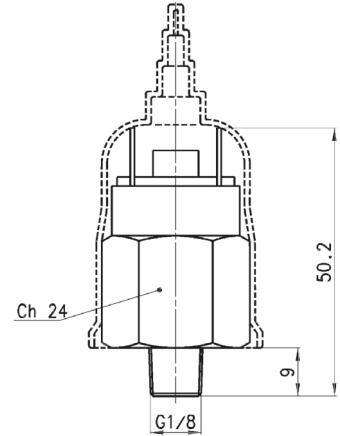
Series PM adjustable-diaphragm pressure switches
Normally closed (NC) or normally open (NO)
Ports G1/8



NC = The pressure switch opens an electric contact when it reaches the fixed pressure



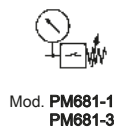
NO = The pressure switch closes an electric contact when it reaches the fixed pressure



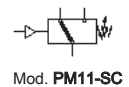
2

CONTROL

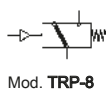
Series PM681... pressure switches with setting visual scale
In compliance with EN60730 standards
Electric connection: PVC cable 2 x 0.22 mm
Electric contact: Reed SPST NO
Body in anodized aluminium and threaded fitting in brass
Hysteresis: 0.8 bar max



Series PM pressure switch with exchange contacts



Series TRP 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



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



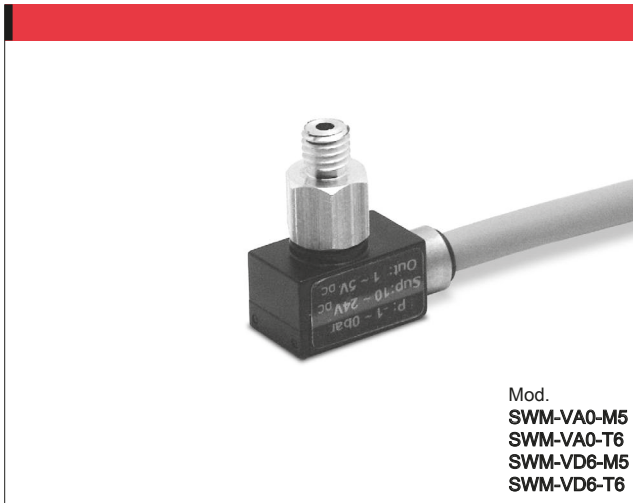
Three-pole connector for pressure switch Mod. PM11-SC



Mod. **124-830**
124-830EX (ATEX version)

Series SWM electronic miniature vacuum switches

These vacuum switches are used in measuring ranges between -1 and 0 bar



Mod.
SWM-VA0-M5
SWM-VA0-T6
SWM-VD6-M5
SWM-VD6-T6

CODING EXAMPLE

SW	M	-	VA0	-	T6
----	---	---	-----	---	----

SW SERIES:
SW = transducer

M VERSION:
m = Micro

VA0 OUTPUT SIGNAL:
VA0 = analog output
VD6 = digital output with switching point set to -600 mbar

T 6 CONNECTION:
T6 = with diam. 6 mm plung in tube
M5 = male thread M5

Series SWE electronic vacuum/pressure switches

Running out of stock

These vacuum sensors are available with analog and digital output



Mod.
SWE-V00 PA
SWE-U10-PA

CODING EXAMPLE

SW	E	-	V00	-	P	A
----	---	---	-----	---	---	---

SW SERIES:
SW = transducer

E VERSION:
E = electronic

V00 MEASUREMENT RANGE:
V00 = from -1 to 0 bar
U10 = from -1 to 10 bar (for version E only)

P POLARITY:
P = PNP

A PNEUMATIC CONNECTION:
A = external G1/8 male thread and internal M5 female thread

Series SWD electronic vacuum/pressure switches

With digital display
High precision, easy to use



Mod.
SWD-V00-PA
SWD-P10-PA

CODING EXAMPLE

SW	D	-	V00	-	P	A
----	---	---	-----	---	---	---

SW SERIES:
SW = transducer

D VERSION:
D = electronic with digital display

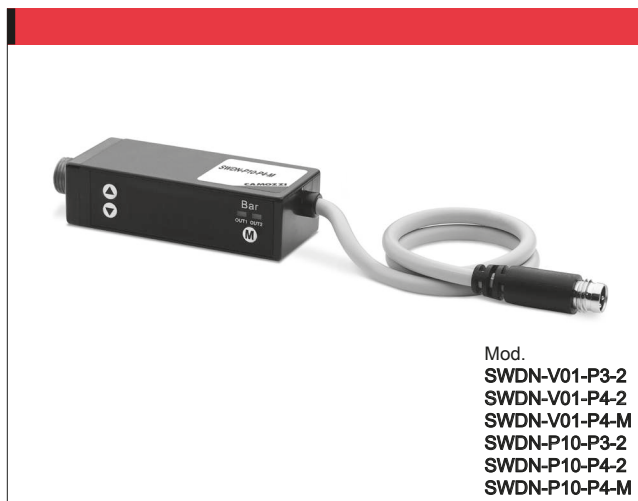
V00 MEASURING RANGE:
V00 = from -1 to 0 bar
P10 = from 0 to 10 bar

P POLARITY:
P = PNP

A PNEUMATIC CONNECTION:
A = G1/8 male thread and M5 female thread

Series SWDN electronic vacuum/pressure switches

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				

Series SWC electronic vacuum/pressure switches

With digital display
High precision, easy to use



CODING EXAMPLE					
SW	C	-	V00	-	P
SW	SERIES: SW = transducer				
C	VERSION: C = cube shape with digital display				
V00	MEASURING RANGE: V00 = from -1 to 0 bar P10 = from 0 to 10 bar				
P	POLARITY: P = PNP				

Series SWCN electronic vacuum/pressure switches

With digital display
High precision, easy to use



CODING EXAMPLE					
SWCN	-	V01	-	P3	- 2
SWCN	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				

Accessories

Circular M8 4-pole connectors, Female for Series SWE - SWD - SWDN - SWC - SWCN

With PU sheathing, non shielded cable
Protection class: IP65

Mod. **CS-DF04EG-E200** (cable 2 m)
CS-DF04EG-E500 (cable 5 m)
CS-DR04EG-E200 (cable 2 m)
CS-DR04EG-E500 (cable 5 m)

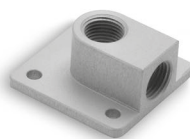


2

CONTROL

Bracket for Series SWC

The bracket is delivered complete with fixing screws and O-ring seal
Mod. **SWC-E**



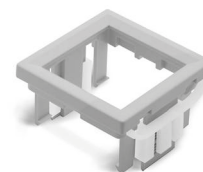
Bracket for Series SWC

Mod. **SWC-B**



Panel mounting bracket for Series SWC

Mod. **SWC-F**



Mounting bracket for Series SWCN

Mod. **SWCN-B**



Panel mounting set for Series SWCN

Mod. **SWCN-F**



Panel mounting set + transparent cover for Series SWCN

Mod. **SWCN-FP**



Series 2901, 2903, 2921, 2931, 2938, 2939, 2905 and RSW silencers

Ports: M5, G1/8, G1/4, G3/8, G1/2, G3/4, G1



Mod. 2901 1/8
2901 1/4-17
2901 1/4-22
2901 3/8
2901 1/2
2901 3/4
2901 1



Mod. 2903 1/8



Mod. 2921 1/8
2921 1/4
2921 3/8
2921 1/2
2921 3/4
2921 1



Mod. 2931 M5
2931 M7
2931 1/8
2931 1/4
2931 3/8
2931 1/2
2931 3/4
2931 1



Mod. 2938 M5
2938 1/8
2938 1/4
2938 3/8
2938 1/2



Mod. 2939 4
2939 6
2939 8
2939 10

Series 2905 silencing bush
For flow control valves Mod. SCO and MCO



Mod. 2905 1/8
2905 1/4
2905 3/8

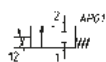
Series AP directly operated proportional valves

2/2-way proportional valves

Normally closed (NC)

Sizes: 16, 22 mm

Size 16 mm


 Mod. **AP-6210-DR2-GP***
AP-6210-FR2-GP*
AP-6210-HR2-GP*
AP-6210-LR2-GP*

* = choose the desired voltage

Size 22 mm


 Mod. **AP-7211-FR2-U7***
AP-7211-HR2-U7*
AP-7211-LR2-U7*
AP-7211-NR2-U7*
AP-7211-QR2-U7*

* = choose the desired voltage

Size 16 mm - body in PVDF


 Mod. **AP-621L-DR3-GP***
AP-621L-FR3-GP*
AP-621L-HR3-GP*
AP-621L-LR3-GP*

* = choose the desired voltage

CODING EXAMPLE

AP	-	7	2	1	1	-	L	R	2	-	G	7	11
----	---	---	---	---	---	---	---	---	---	---	---	---	----

AP SERIES

7 BODY:
6 = Size 16 mm - 7 = Size 22 mm

2 NUMBER OF WAYS:
2 = 2-way

1 VALVE FUNCTION:
1 = NC

1 PORTS:
0 = M5 (for size 16 mm only) - 1 = G1/8 (for size 22 mm only) - L = barbed fittings (for body in PVDF only, size 16 mm)

L NOMINAL DIAMETER:
D = \varnothing 0.8 mm (for size 16 mm only)
F = \varnothing 1 mm
H = \varnothing 1.2 mm
L = \varnothing 1.6 mm
N = \varnothing 2 mm (for size 22 mm only)
Q = \varnothing 2.4 mm (for size 22 mm only)

R SEALS MATERIAL:
R = NBR

2 BODY MATERIAL:
2 = brass - 3 = PVDF (for size 16 mm only)

G ENCAPSULATING MATERIAL:
G = PA (for size 16 mm only) - U = PET (for size 22 mm only)

7 SOLENOID DIMENSIONS:
P = 16x26 DIN EN 175301-803-C (for size 16 mm only) - 7 = 22x22 DIN 43650 B (for size 22 mm only)

11 SOLENOID VOLTAGE:
H = 12 V DC 3 W (for size 16 mm only) - 7 = 24 V DC 3 W (for size 16 mm only)
11 = 24 V DC 6.5 W (for size 22 mm only) - 12 = 12 V DC 6.5 W (for size 22 mm only)

Connectors

Connectors DIN 43650, pin spacing 9,4 mm for size 16 mm only
Mod. **125-800**



Connectors DIN 43650, pin spacing 9,4 mm with cable for size 16 mm only
Mod. **125-550-1** (cable 1000 mm)



In-line connectors with moulded cable for size 16 mm only
Mod. **125-553-2** (cable 2000 mm)
125-553-5 (cable 5000 mm)



Connectors DIN 43650 for size 22 mm only
Mod. **122-800**
122-800EX*



Connectors DIN 43650 with cable for size 22 mm only
Mod. **122-550-1** (cable 1000 mm)
122-550-5 (cable 5000 mm)



* only for ATEX certified solenoids mod. U7*EX, with anti-screwing off screw mod. TORX

Series CP directly operated proportional solenoid valves

New

2/2-way

Normally closed (NC)

Nominal diameters: 1 mm - 1.5 mm - 2 mm



Mod. CP-C621-FW2-0P1
 CP-C621-GW2-0P1
 CP-C621-NW2-0P1
 CP-C621-FW2-0P3
 CP-C621-GW2-0P3
 CP-C621-NW2-0P3
 CP-C621-FW2-0P5
 CP-C621-GW2-0P5
 CP-C621-NW2-0P5

CODING EXAMPLE

CP - C 6 2 1 - G W 2 - 0 P 5

CP SERIES

C PORTS:
C = cartridge

6 BODY SIZE:
6 = 16mm

2 NUMBER OF PORTS:
2 = 2-way

1 FUNCTION:
1 = NC

G ORIFICE DIAMETRES:
F = \varnothing 1 mm
G = \varnothing 1.5 mm
N = \varnothing 2 mm

W GASKETS MATERIAL:
W = FKM

2 BODY MATERIAL:
2 = BRASS

0 OVERMOULDING MATERIAL OF COIL:
0 = cartridge

P DIMENSIONS OF THE COIL:
P = \varnothing 16

5 VOLTAGE:
1 = 6V DC 3.2W
3 = 24V DC 3.2W
5 = 11V DC 3.2W

2

CONTROL

Series 130 electronic control device for proportional valves

PWM control device, with current control system for directly operated proportional valves



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

2 PWM FREQUENCY:
 2 = 500 Hz
 3 = 1 KHz

NOTE: it is possible to realize configurations with voltage, power and PWM frequency values that are not yet foreseen in the coding example. For further information we suggest you to contact our technical department.

Connectors

Connector DIN 43650
 pin spacing 9,4 mm
 Mod. **125-800**








Connector DIN 43650 (PG)
 Mod. **122-800**








Series LR analogic proportional servo valves

Running out of stock

2 CONTROL

<p>Flow control - LRWA0 3/3-way servo valves</p> 	<p>Flow control - LRWA2 3/3-way directly operated servo valves</p> 	<p>Flow control - LRWA4 3/3-way servo valves</p> 
<p>Pressure control - LRPA4 3/3-way servo valves (ø 4-6 mm) Selectable sensor range</p> 	<p>Positioning control of pneumatic cylinders - LRXA4 3/3-way servo valves</p> 	

CODING EXAMPLE													
L	R	W	A	0	-	3	4	-	1	-	A	-	05
L	SERIES: L = proportional servo valves												
R	TECHNOLOGY: R = rotating spool												
W	VERSION: W = flow control - P = pressure control - X = position control												
A	ELECTRONICS: A = analogic												
0	MODEL: 0 = cartridge with fixation slot - 2 = compact DIN-RAIL - 4 = with sub-base												
3	FUNCTION: 3 = 3 way												
4	DIAMETER: 4 = 4 mm - 6 = 6 mm												
1	INPUT SIGNAL: 1 = +/- 10 V (LRWA only) - 2 = 0-10 V - 3 = 0-20 mA - 4 = +/- 5 V (LRWA only) - 5 = 4-20 mA (LRPA4 and LRXA4 only)												
A	FEEDBACK SIGNAL: A = internal encoder (LRWA only) B = 1 bar integrated pressure sensor (LRPA4 only) C = 2.5 bar integrated pressure sensor (LRPA4 only) D = 10 bar integrated pressure sensor (LRPA4 only) 2 = 0-10 V external transducer (LRPA4 only) 3 = 0-20 mA external transducer (LRPA4 only) 4 = 0-5 V (LRXA4 only) 5 = 4-20 mA external transducer (LRPA4 only)												
05	CABLE: 05 = 0,5 m (no LRWA0) - 00 = no cable (LRWA0 only) - 10 = 1 m (LRWA0 only) - 20 = 2 m (LRWA0 only)												

Accessories				
<p>For Series LRWA0 only Mod. LRA0C-3</p> 	<p>Male connector M16 4 pin Mod. CS-PM04CB</p> 	<p>Male connector M16 7 pin Mod. CS-PM07CB</p> 	<p>Female connector M16 7 pin Mod. CS-PF07CB</p> 	<p>Connectors with cable Mod. CS-LF05HB-D200 (cable 2 m) CS-LF05HB-D500 (cable 5 m) CS-LR05HB-D200 (cable 2 m) CS-LR05HB-D500 (cable 5 m)</p> 

Series LR digital proportional servo valves

New

3/3-way directly operated servo valves for the flow (LRWD2) and pressure control (LRD2)

2

CONTROL



CODING EXAMPLE

L	R	W	D	2	-	3	4	-	1	-	A	-	00
---	---	---	---	---	---	---	---	---	---	---	---	---	----

L SERIES:
L = proportional servo valves

R TECHNOLOGY:
R = rotating spool

W VERSION:
W = flow control - P = pressure

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 INPUT COMMAND SIGNAL (Setpoint):
1 = +/- 10 V - 2 = 0-10 V - 5 = 4-20 mA

A	FEEDBACK SIGNAL (LRWD only):	Sensor SIGNAL or External signal (LRPD only):
	A = internal encoder	2 = 0..10 V
		4 = 0 - 5 V
		5 = 4..20mA
		B = 1 bar INTERNAL
		D = 10 bar INTERNAL
		E = 250 mbar INTERNAL
	F = +/-1 bar INTERNAL	

00 CABLE LENGTH:
00 = no cable

Accessories

Fixing foot

Supplied with:
2x feet
4x screws
Mod. **LRWDB**



Mounting brackets for DIN-rail

DIN EN 50022 (7,5mm x 35mm - width 1)
Supplied with:
2x mounting brackets
2x screws M4x6 UNI 5931
2x nuts
Mod. **PCF-EN531**



Data line tee

Connection valve-PLC-external transducer
Mod. **CS-AA08EC**



Straight female connector M12 8 poles

For electric supply and commands
Mod. **CS-LF08HC** (cable 2 m)



Cable with straight female connector M12 8 poles

For electrical supply and commands
Mod. **CS-LF08HB-C200** (cable 2 m)
CS-LF08HB-C500 (cable 5 m)



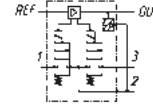
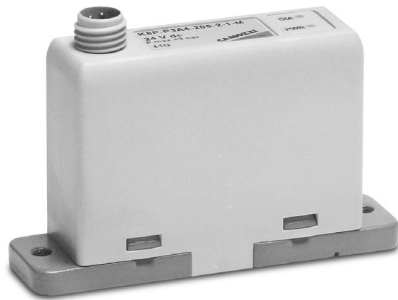
Cable with angular (90°) female connector M12 8 poles

For electric supply and commands
Mod. **CS-LR08HB-C200** (cable 2 m)
CS-LR08HB-C500 (cable 5 m)



Series K8P electronic proportional micro regulator

Proportional regulator for the pressure control



- Mod. **K8P-0-D5*2-0**
K8P-0-E5*2-0
K8P-L-E5*2-0
K8P-L-D5*2-0
K8P-S-D5*2-0
K8P-S-E5*2-0
K8P-T-D5*2-0
K8P-T-E5*2-0

* = according to the desired command, put: 2 (0-10 V DC) or 3 (4-20 mA)

CODING EXAMPLE

K8P	-	0	-	D	5	2	2	-	0
------------	----------	----------	----------	----------	----------	----------	----------	----------	----------

K8P SERIES

0	BODY DESIGN: 0 = Stand alone - S = Standard Sub-base - L = Light Sub-base - T = Light Sub-base for the pressure remote reading
D	WORKING PRESSURE: D = 0 - 10 bar - E = 0 - 3 bar
5	VALVE FUNCTIONS: 5 = 2-way NC
2	COMMAND: 2 = 0-10 V DC - 3 = 4-20 mA
2	OUTPUT SIGNAL: 2 = 0-10 V
0	CABLE LENGTH: 0 = without cable - 2F = straight cable, 2 m - 2R = right angle cable (90 degrees), 2 m - 5F = straight cable, 5 m - 5R = right angle cable (90 degrees), 5 m

APPLICATIONS

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.

Accessories

Standard Sub-base
 Note: the use of a silencer on the exhaust is recommended *
 * = Mod. 2939 4
 Mod. **K8P-AS**



Light Sub-base
 Note: the use of a silencer on the exhaust is recommended *
 * = Mod. 2931 M5
 2938 M5
 2901 M5
 Mod. **K8P-AL**



Light Sub-base for the pressure remote reading
 Note: the use of a silencer on the exhaust is recommended *
 * = Mod. 2931 M5
 2938 M5
 2901 M5

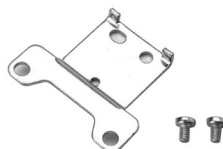
In the version Light sub-base for the pressure remote reading it is also possible to use the fixing bracket B2-E531
 Mod. **K8P-AT**



Mounting brackets for DIN rail
DIN EN 50022 (7,5 mm x 35 mm - width 1)
 Supplied with:
 1x plates
 1x screws M4x6 UNI 5931
 Note: this accessory cannot be used with the Light sub-base version.
 Mod. **PCF-K8P**



Bracket for horizontal mounting, for standard sub-base
 Supplied with:
 1x mounting bracket
 2x screws M3x8 UNI 5931
 Mod. **K8P-B1**



Circular M8 4-pole connectors, Female
 With PU sheathing, non shielded cable
 Protection class: IP65
 Mod. **CS-DF04EG-E200** (cable 2 m)
CS-DF04EG-E500 (cable 5 m)
CS-DR04EG-E200 (cable 2 m)
CS-DR04EG-E500 (cable 5 m)



Series MX-PRO electronic proportional regulator

New

Ports: G1/2

Manifold ports: G1/2

Modular - Available with built-in pressure gauges or ports for gauges



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

R TYPE OF REGULATOR:
R = pressure regulator
M = Manifold pressure regulator (G1/2 only)

CV COMMAND:
CV = electrical command 0-10 V DC
CA = electrical command 4-20 mA
EV = electrical command 0-10 V DC with external servo pilot supply
EA = electrical command 4-20 mA with external servo pilot supply

2 OPERATING PRESSURE (1 bar = 14,5 psi):
1 = 0.15 ÷ 3 bar
2 = 0.5 ÷ 10 bar (standard)

0 DESIGN TYPE:
0 = relieving (standard)
1 = without relieving

4 PRESSURE GAUGE:
0 = without pressure gauge (with threaded port for gauges)
2 = with built-in pressure gauge 0-6 and working pressure 0.15 ÷ 3 bar
4 = with built-in pressure gauge 0-12 and working pressure 0.5 ÷ 10 bar (standard)

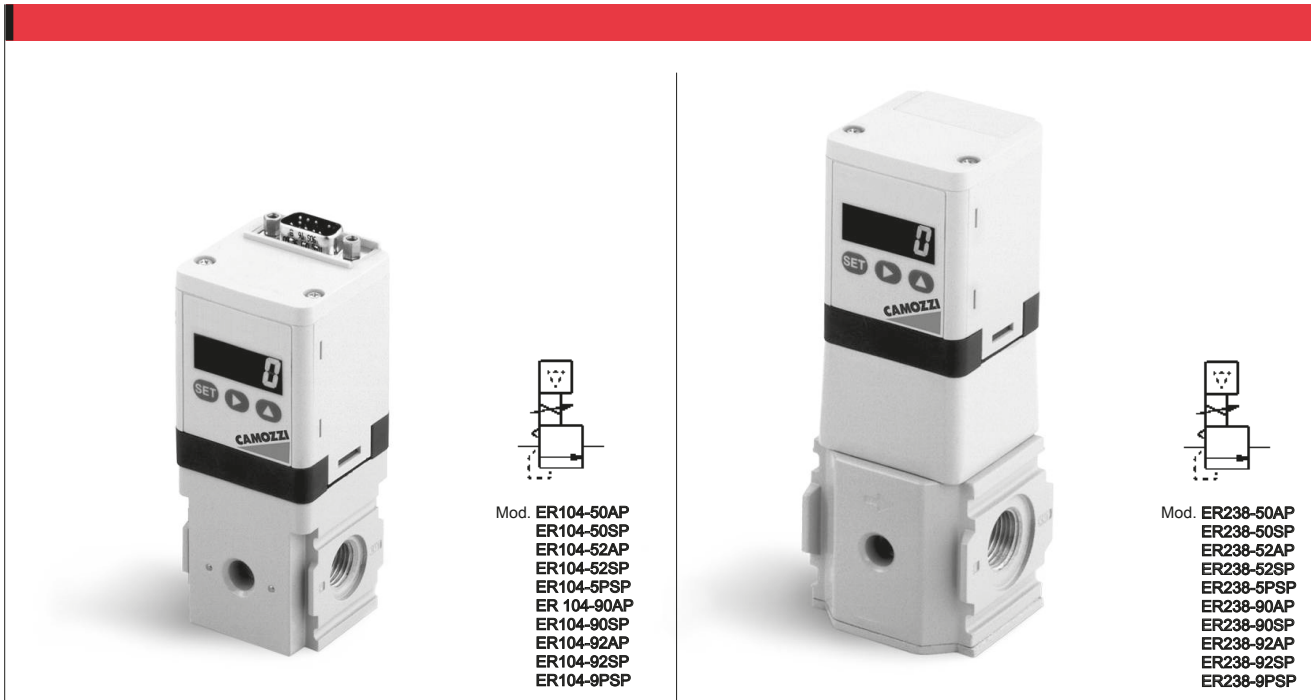
LH FLOW DIRECTION:
= from left to right (standard)
LH = from right to left

For the assembly of a single component with fixing flanges or wall-mounting, see the section "FRL Series MX Assembled" in the chapter 3

Series ER100 and ER200 digital electro-pneumatic regulators

Series ER100 ports: G1/4

Series ER200 ports: G1/4, G3/8



2

CONTROL

CODING EXAMPLE

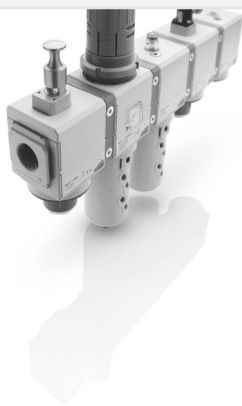
ER	1	04	-	5	0	AN
----	---	----	---	---	---	----

ER	SERIES
1	SIZE: 1 = size 1 - 2 = size 2
04	PORT: 04 = G1/4 - 38 = G3/8 (size 2 only)
5	WORKING PRESSURE: 5 = 0 + 5 bar 9 = 0.5 + 9 bar
0	INPUT: 0 = 0 - 10 V DC 1 = 0 - 5 V DC 2 = 4 - 20 mA P = Parallel 10 bit
AN	OUTPUT: AN = 1 - 5 V analog, error (NPN) AP = 1 - 5 V analog, error (PNP) SN = switch (NPN), error (NPN) SP = switch (PNP), error (PNP)











Accessories













3 > Treatment







Series MX Modular FRL Units

		Page
Series MX	 Filters MX2 ports: G3/8, G1/2, G3/4 MX3 ports: G3/4, G1. Modular Bowl with technopolymer cover and bayonet-type mounting	133
Series MX	 Coalescing filters MX2 ports: G3/8, G1/2, G3/4 MX3 ports: G3/4, G1. Modular Bowl with technopolymer cover and bayonet-type mounting	133
Series MX	 Activated carbon filters MX2 ports: G3/8, G1/2, G3/4 MX3 ports: G3/4, G1. Modular Bowl with technopolymer cover and bayonet-type mounting	134
Series MX	 Pressure regulators 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 with ports for gauges	134
Series MX	 Lubricators MX2 ports: G3/8, G1/2, G3/4 MX3 ports: G3/4, G1. Modular Bowl with technopolymer cover and bayonet-type mounting	135
Series MX	 Filter-regulators MX2 ports: G3/8, G1/2, G3/4 MX3 ports: G3/4, G1. Modular Bowl with technopolymer cover and bayonet-type mounting	135
Series MX	 Lockable isolation 3/2-way valves MX2 ports: G3/8, G1/2, G3/4 MX3 ports: G3/4, G1. Modular Manual, electro-pneumatic, servo-pilot and pneumatic control	136
Series MX	 Soft start valves MX2 ports: G3/8, G1/2, G3/4 MX3 ports: G3/4, G1 Modular	136
Series MX	 Take-off blocks MX2 port: G1/2 MX3 port: G1 Modular	136
Series MX	 Assembled FRL MX2 ports: G3/8, G1/2, G3/4 MX3 ports: G3/4, G1 Assembly through rapid clamps	137





Series MC Modular FRL Units

		Page
Series MC	 Filters Ports: G1/4, G3/8, G1/2 Modular Metal bowl and bayonet-type mounting	139
Series MC	 Coalescing filters Ports: G1/4, G3/8, G1/2 Modular Metal bowl and bayonet-type mounting	139
Series MC	 Pressure regulators Ports: G1/4, G3/8, G1/2 Modular	140
Series MC	 Lubricators Ports: G1/4, G3/8, G1/2 Modular With metal bowl and bayonet-type mounting	140
Series MC	 Filter-regulators Ports: G1/4, G3/8, G1/2 Modular Metal bowl and bayonet-type mounting	141
Series MC	 Lockable isolation 3/2-way valves Electropneumatic, pneumatic and manual version Modular Ports: G1/4, G3/8, G1/2	141
Series MC	 Soft start valves Ports: G1/4, G3/8, G1/2 Modular	142
Series MC	 Take-off blocks Ports: G1/4, G1/2 Modular	142
Series MC	 Assembled FRL Ports: G1/4, G3/8, G1/2	143
Series MC	 Manifold pressure regulators Ports: G1/4 Modular	143





Pressure regulators

		Page
Series CLR	 <p>Micro pressure regulators Ports: G1/8, G1/4 Micro pressure regulators with or without banjo in technopolymer</p>	144
Series M	 <p>Pressure microregulators Ports: G1/8, G1/4</p>	144
Series T	 <p>Pressure microregulators Ports: G1/8, G1/4</p>	145
Series PR	 <p>Precision regulators with manual override Port: G1/4</p>	145

FRL Units

		Page
Series N	 <p>Filters and coalescing filters Ports: G1/8, G1/4 With screw-on transparent bowl</p>	146
Series N	 <p>Pressure regulators Ports: G1/8, G1/4</p>	146
Series N	 <p>Lubricators Ports: G1/8, G1/4 With screw-on transparent bowl</p>	147
Series N	 <p>Filter-regulators Ports: G1/8, G1/4 With screw-on transparent bowl</p>	147

Accessories for the air treatment

		Pag
Series MX MC, M, N, T	 <p>Accessories for the air treatment Systems of rapid connections designed to make the mounting easier</p>	148
Series M043, M053, M063	 <p>Pressure gauges Precision class CL1,6</p>	151
Series PG	 <p>Digital pressure gauges Possibility of a direct mounting with rear or panel connection</p>	151
Series MX, MC, N	 <p>Functioning condensate drains Filtering elements Semi-automatic manual drain; Automatic drain; Depressurisation drain; Depressurisation drain, protected Port 1/8 (without drain)</p>	152

Series MX filters

MX2 ports: G3/8, G1/2, G3/4 - MX3 ports: G3/4, G1

Modular

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
or depressuring drain

CODING EXAMPLE

MX	2	-	3/8	-	F	0	0	-	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

F FILTER

0 FILTERING ELEMENT:
0 = 25 µm (standard)
1 = 5 µm

0 DRAINING OF CONDENSATE *:
0 = semiautomatic-manual drain (standard)
3 = automatic drain
5 = depressuring drain, protected
8 = without drain, with port G1/8

LH FLOW DIRECTION:
= from left to right (standard)
LH = from right to left

* = Further details about condensate drains are available at the end of this chapter

3

TREATMENT

Series MX coalescing filters

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 threaded port



FA02 =
coalescing filter with
semi-automatic manual drain



FA03 =
coalescing filter with automatic
or depressuring drain

CODING EXAMPLE

MX	2	-	3/8	-	FC	0	0	-	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

FC COALESCING FILTER

0 FILTERING ELEMENT:
0 = 0,01 µm (standard)
1 = 1 µm

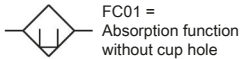
0 DRAINING OF CONDENSATE *:
0 = semiautomatic-manual drain (standard)
3 = automatic drain
5 = depressuring drain, protected
8 = without drain, with port G1/8

LH FLOW DIRECTION:
= from left to right (standard)
LH = from right to left

* = Further details about condensate drains are available at the end of this chapter

Series MX activated carbon filters

MX2 ports: G3/8, G1/2, G3/4 - MX3 ports: G3/4, G1
 Modular
 Bowl with technopolymer cover and bayonet-type mounting



CODING EXAMPLE

MX	2	-	3/8	-	FCA	-	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
FCA	ACTIVATED CARBON FILTER
LH	FLOW DIRECTION: = from left to right (standard) LH = from right to left

Series MX pressure regulators

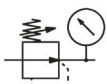
MX2 ports: G3/8, G1/2, G3/4 - MX3 ports: G3/4, G1
 Manifold ports: G1/2 (MX2 only)
 Modular. Available with built-in pressure gauges or ports for gauges



PR01 =
regulator
without relieving



PR02 =
regulator
with relieving



PR05 =
regulator without relieving
and with pressure gauge



PR06 =
regulator with relieving
and 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 + 4 bar 7 = 0,5 + 7 bar (MX2 only)
0	DESIGN TYPE: 0 = relieving (standard) 1 = without relieving
4	PRESSURE GAUGE: 0 = without pressure gauge (with threaded port for gauges) 2 = with built-in pressure gauge 0-6 and working pressure 0 + 4 bar 3 = with built-in pressure gauge 0-10 and working pressure 0 + 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

Series MX lubricators

MX2 ports: G3/8, G1/2, G3/4 - MX3 ports: G3/4, G1

Modular

Bowl with technopolymer cover and bayonet-type mounting



CODING EXAMPLE

MX	2	-	3/8	-	L	00	-	LH
----	---	---	-----	---	---	----	---	----

MX SERIES

2 SIZE:
2 = G3/8 - G1/2 - G3/4
3 = G3/4 - G1

3/8 PORT:
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

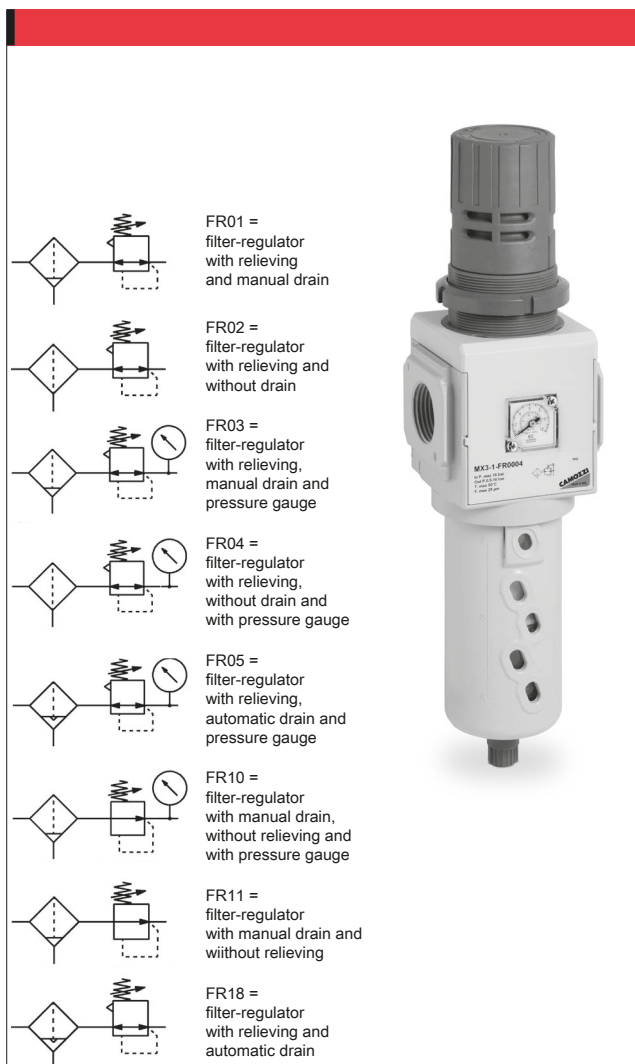
3

Series MX filter-regulators

MX2 ports: G3/8, G1/2, G3/4 - MX3 ports: G3/4, G1

Modular

Bowl with technopolymer cover and bayonet-type mounting



CODING EXAMPLE

MX	2	-	3/8	-	FR	0	0	0	4	-	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

FR FILTER-REGULATOR

0 FILTERING ELEMENT WITH DESIGN TYPE:
0 = 25 µm with relieving (standard)
1 = 5 µm with relieving
2 = 25 µm without relieving (with semiautomatic-manual drain only)
3 = 5 µm without relieving (with semiautomatic-manual drain only)

0 DRAINING OF CONDENSATE *:
0 = semiautomatic-manual drain (standard)
3 = automatic drain
5 = depressuring drain, protected
8 = without drain, with port G1/8

0 OPERATING PRESSURE:
0 = 0,5 + 10 bar (standard)
4 = 0 + 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 + 4 bar
3 = with built-in pressure gauge 0-10 and working pressure 0 + 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

* = Further details about condensate drains are available at the end of this chapter

TREATMENT

Series MX lockable isolation 3/2-way valves

MX2 ports: G3/8, G1/2, G3/4 - MX3 ports: G3/4, G1. Modular
Manual, electro-pneumatic, servo-pilot and pneumatic control

VN02 =
Manually operated valve,
3/2, bistable,
lockable in two positions

EV10 =
solenoid valve, 3/2 NC,
monostable, with bistable
manual override

EV11 =
solenoid valve, 3/2,
monostable, solenoid
pilot with separate air
supply and bistable
manual override

VP01 =
pneumatically operated
valve, 3/2, monostable,
mechanical spring

CODING EXAMPLE

MX	2	-	3/8	-	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

Series MX soft start valves

MX2 ports: G3/8, G1/2, G3/4 - MX3 ports: G3/4, G1
Modular

AVP1 =
Soft start valve

CODING EXAMPLE

MX	2	-	3/8	-	AV	-	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

AV SOFT START VALVE

LH FLOW DIRECTION:
= from left to right (standard)
LH = from right to left

Series MX take-off blocks

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 SERIES

2 SIZE:
2 = G1/2 - 3 = G1

1/2 PORT:
2 = G1/2 - 3 = G1

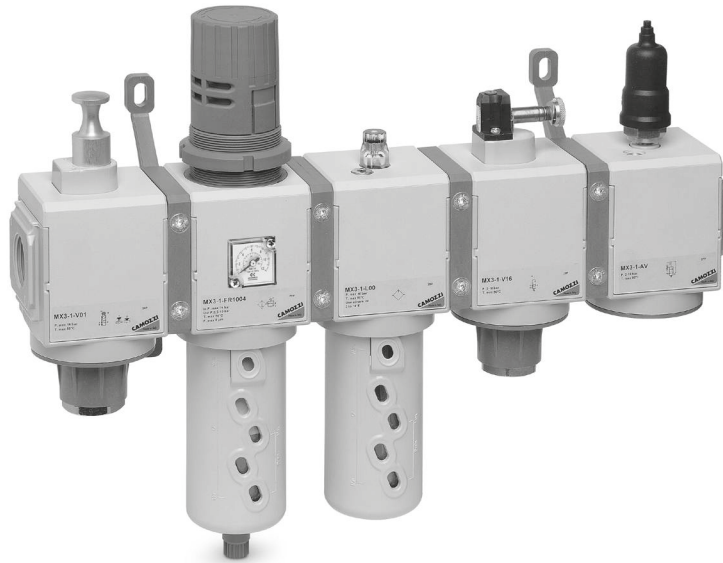
B TAKE-OFF BLOCK

00 DESIGN TYPE:
00 = without no return valve (standard)
01 = with no return valve

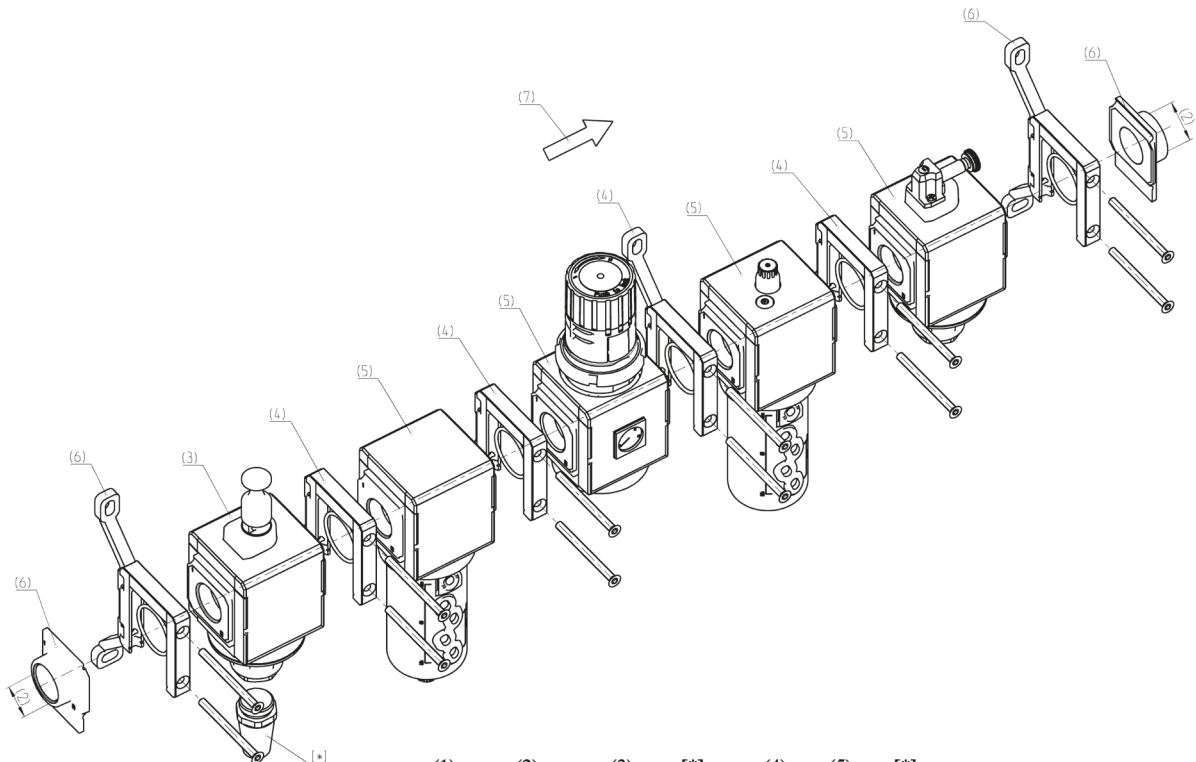
LH FLOW DIRECTION:
= from left to right (standard)
LH = from right to left

Series MX assembled FRL

MX2 ports: G3/8, G1/2, G3/4 - MX3 ports: G3/4, G1
 Assembly through rapid clamps



Configurator of assembled groups Series MX



(1)	(2)	(3)	[*]	(4)	(5)	[*]
MX	2	3/8	V01	+A32	X	F00

n_x

X	R004
Y	L00

X	V16	(6)	[**]	(7)
		KK		

Configuration of the assembled group in the drawing below:
 MX2-3/8-V01+A32XF00XR004YL00XV16-KK

TREATMENT 3

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 (3) MODULE + [*] (to configure the modules, see the single components pages):
F... = Filter
FC... = Coalescing filter
FCA... = Activated carbons filter
R... = Pressure regulator
L... = Lubricator
FR... = 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) +A57 = M053-P10 (Pressure gauge) +A58 = M063-P12 (Pressure gauge)	REGULATOR AND FILTER-REGULATOR MX3 +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)	LOCKABLE ISOLATION VALVE MX3 +A34 = 2901 3/4" (Silencier) +A35 = 2921 3/4" (Silencier) +A36 = 2931 3/4" (Silencier)
SOFT START VALVE +A00 = PM11-NA (Pressure switch, normally open) +A01 = PM11-NC (Pressure switch, normally closed)	
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 +A03 = PM11-SC with fitting for fixing to the module Example: MX2-3/8-V01+A32XF00-KK-LH	TAKE-OFF BLOCK MX3 +A06 = PM11-NA (normally open pressure switch) with fitting for fixing to the module +A07 = PM11-NC (normally closed pressure switch) with fitting for fixing to the module +A02 = PM11-SC with fitting for fixing to the module Example: MX3-3/4-V01+A36XF00-KK-LH

X (4) 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° 1 rapid clamp kit with flanges (IN / OUT)
JJ = n° 1 rapid clamp kit with wall fixing screws + flanges (IN / OUT)
KK = n° 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)
Codes examples: MX3-1-R..XV..-S; MX3-1-R..XV..-HSH

-

LH (7) FLOW DIRECTION:
= from left to right (standard)
LH = from right to left

(4) + (5) + [*] REPEATABLE COMBINATION for a "n" number of times

Series MC filters

Ports G1/4, G3/8 and G1/2

Modular

Metal bowl and bayonet-type mounting



FT01 =
filter without drain
with threaded port



FT02 =
filter with semiautomatic
manual drain



FT03 =
filter with
automatic drain

CODING EXAMPLE

MC	2	02	-	F	0	0
----	---	----	---	---	---	---

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

0 FILTERING ELEMENT:
0 = 25µm (standard)
1 = 5µm

0 DRAINING OF CONDENSATE *:
0 = normal - semiautomatic (standard)
3 = automatic drain (only for G3/8 and G1/2)
4 = depressurisation (only G1/4)
5 = depressurisation, protected
8 = no drain, port 1/8

* = Further details about condensate drains are available at the end of this chapter

3

TREATMENT

Series MC coalescing filters

Ports G1/4, G3/8 and G1/2

Modular

Metal bowl and bayonet-type mounting



FA01 =
coalescing filter
without drain
with threaded port



FA02 =
coalescing filter
with semi-automatic
manual drain



FA03 =
coalescing filter
with automatic drain

CODING EXAMPLE

MC	2	02	-	F	B	0
----	---	----	---	---	---	---

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

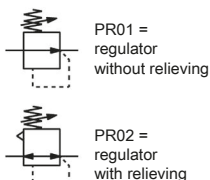
B FILTERING ELEMENT:
B = 0,01µm

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

* = Further details about condensate drains are available at the end of this chapter

Series MC pressure regulators

Ports G1/4, G3/8 and G1/2
Modular



CODING EXAMPLE

MC	2	02	-	R	0	0
----	---	----	---	---	---	---

MC SERIES

2 SIZE:
1 = G1/4
2 = G3/8 - G1/2

02 PORTS:
04 = G1/4
38 = G3/8
02 = G1/2

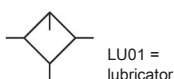
R REGULATOR

0 OPERATING PRESSURE:
0 = 0.5 + 10 (standard)
1 = 0 + 4
2 = 0 + 2 (only G1/4)
7 = 0.5 + 7 (only G1/4)

0 DESIGN TYPE:
0 = self-relieving (standard)
1 = non-relieving
5 = precise relieving

Series MC lubricators

Ports G1/4, G3/8 and G1/2
Modular
With metal bowl and bayonet-type mounting



CODING EXAMPLE

MC	2	02	-	L	00
----	---	----	---	---	----

MC SERIES

2 SIZE:
1 = G1/4
2 = G3/8 - G1/2

02 PORTS:
04 = G1/4
38 = G3/8
02 = G1/2

L LUBRICATOR

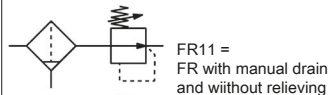
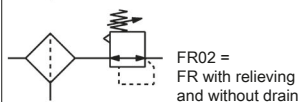
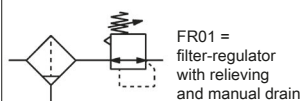
00 DESIGN TYPE:
00 = atomized oil

Series MC filter-regulators

Ports G1/4, G3/8 and G1/2

Modular

Metal bowl and bayonet-type mounting



CODING EXAMPLE

MC	2	02	-	D	0	0	-	4
----	---	----	---	---	---	---	---	---

MC SERIES

2 SIZE:
1 = G1/4
2 = G3/8 - G1/2

02 PORTS:
04 = G1/4
38 = G3/8
02 = G1/2

D FILTER-REGULATOR

0 FILTERING ELEMENT:
0 = 25µm (standard)
1 = 5µm

0 DRAINING OF CONDENSATE *:
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

4 WORKING PRESSURE
= 0,5 + 10
2 = 0 + 2 (only G1/4)
4 = 0 + 4
7 = 0,5 + 7 (only G1/4)

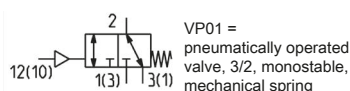
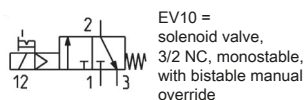
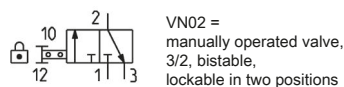
* = Further details about condensate drains are available at the end of this chapter

Series MC lockable isolation 3/2-way valves

Electropneumatic, pneumatic and manual version

Ports G1/4, G3/8 and G1/2

Modular



CODING EXAMPLE

MC	2	02	-	V	16
----	---	----	---	---	----

MC SERIES

2 SIZE:
1 = G1/4
2 = G3/8 - G1/2

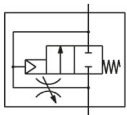
02 PORTS:
04 = G1/4
38 = G3/8
02 = G1/2

V 3/2-WAY VALVE

16 DESIGN TYPE:
16 = electropneumatic
36 = pneumatic
01 = padlock valve (manual command)

Series MC soft start valves

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 SOFT START VALVE

Series MC take-off blocks

Ports G1/4 and G1/2
Modular



BL01 =
take-off block



BL02 =
take-off block with VNR

CODING EXAMPLE

MC	2	-	B	-	VNR
----	---	---	---	---	-----

MC SERIES

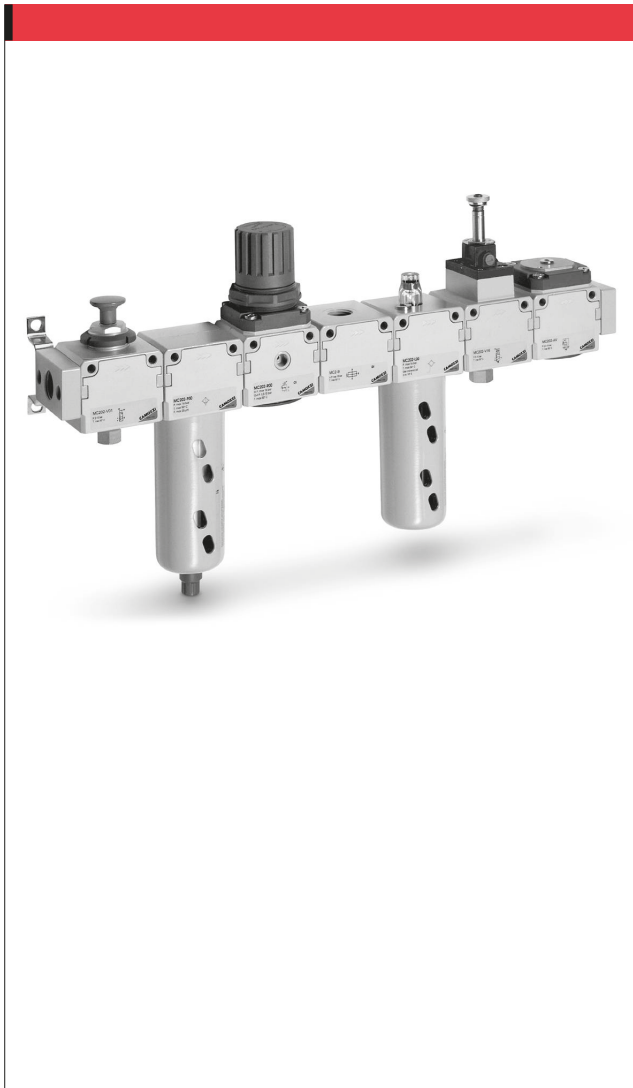
2 SIZE:
1 = G1/4
2 = G1/2

B TAKE OFF BLOCK

VNR VERSION:
VNR = with no return valve

Series MC assembled FRL

Ports G1/4, G3/8 and G1/2



CODING EXAMPLE

MC	2	02	-	C	-	5	-	FL
----	---	----	---	---	---	---	---	----

MC SERIES

2 SIZE:
1 = G1/4
2 = G3/8 - G1/2

02 PORT:
04 = G1/4
38 = G3/8
02 = G1/2

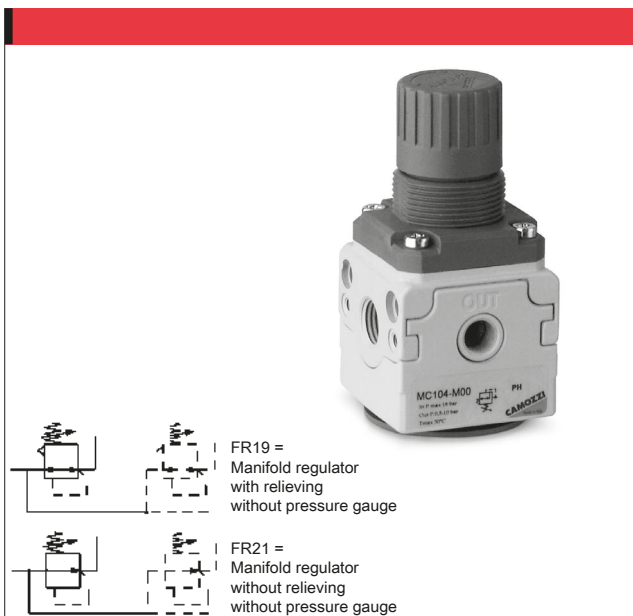
C ASSEMBLY GROUP:
C = D + L
E = V01 + D + L
FRL = F + R + L
GN = D + L + V16 + AV
HNA = V01 + D + L + V16 + AV + PRESS NO
HNC = V01 + D + L + V16 + AV + PRESS NC
N = V01 + D PN = D + V16 + AV
QN = V01 + D + V16 + AV
TN = V01 + D + L + V16 + AV
U = F13 + FB3 (only for 3/8 - 1/2)
ZNA = V01 + D + V16 + AV + PRESS NO
ZNC = V01 + D + V16 + AV + PRESS NC

5 FILTERING ELEMENT:
5 = 5 µm (standard)
25 = 25 µm (upon request)

FL VERSION:
FL = with terminal flanges (without brackets)

LEGEND:
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 µm or 25 µm
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

Series MC manifold pressure regulators

 Ports G1/4
Modular


CODING EXAMPLE

MC	1	04	-	M	0	0
----	---	----	---	---	---	---

MC SERIES

1 SIZE:
1 = G1/4

04 PORT:
04 = G1/4

M MANIFOLD REGULATOR

0 OPERATING PRESSURE:
0 = 0,5 + 10 (standard)
1 = 0 + 4
2 = 0,5 + 2
7 = 0,5 + 7

0 CONSTRUCTION:
0 = self-relieving (standard)
1 = non-relieving
5 = precise relieving

Series CLR micro pressure regulators

Ports G1/4, G1/8
 With banjo stem with or without relieving
 Available with or without banjo in technopolymer





PR03 =
Regulator with
relieving and
by-pass valve

Mod.
CLR 1/8-4
CLR 1/8-6
CLR 1/8-8
CLR 1/4-6
CLR 1/4-8



PR04 =
Regulator without
relieving and with
by-pass valve

Mod.
CLR 1/8
CLR 1/4

CODING EXAMPLE

CL	R		1/8	-	01	-	4
-----------	----------	--	------------	----------	-----------	----------	----------

CL SERIES

R REGULATOR

1/8 PORTS:
1/8 = G1/8 - 1/4 = G1/4

DESIGN TYPE:
= with relieving
01 = without relieving

4 TUBE:
= without banjo
4 = ø 4 mm (G1/8 only)
6 = ø 6 mm
8 = ø 8 mm

Series M pressure microregulators

Ports G1/8, G1/4





PR01 =
regulator without
relieving



PR02 =
regulator with
relieving



PR03 =
regulator with
relieving and
by-pass valve

Mod.
M008-R00*
M004-R00*

* = calibrated or blocked regulator
available on request

CODING EXAMPLE

M	0	04	-	R	0	0
----------	----------	-----------	----------	----------	----------	----------

M SERIES

0 SIZE: 0

04 PORTS:
08 = G1/8
04 = G1/4

R REGULATOR

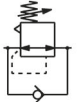
0 OPERATING PRESSURE:
0 = 0,5 + 10 (standard) - 1 = 0 + 4 - 2 = 0 + 2 - 7 = 0,5 + 7

0 DESIGN TYPE:
0 = self relieving
1 = non relieving
5 = precise setting

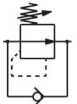
REGULATION TYPE:
= without high relief flow (standard)
VS = high relief flow

Series T pressure microregulators

Ports G1/8 and G1/4



PR03 =
regulator with
relieving and
by-pass valve



PR04 =
regulator without
relieving and
with by-pass valve

Mod.
T108-R00
T104-R00

CODING EXAMPLE

T	1	08	-	R	0	0
---	---	----	---	---	---	---

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 (standard)

0 DESIGN TYPE:
0 = self-relieving
1 = non relieving

3

TREATMENT

Series PR precision regulators with manual override

New

Ports: G1/4



PR02 =
regulator
with relieving

CODING EXAMPLE

PR	1	04	-	M	07
----	---	----	---	---	----

PR SERIES

1 SIZE:
1 = size 1

04 PORTS:
04 = G1/4

M TYPE OF ADJUSTMENT:
M = manual

07 OPERATING PRESSURE (1 bar = 14,5 psi):
02 = 0,05 ÷ 2 bar
04 = 0,05 ÷ 4 bar
07 = 0,05 ÷ 7 bar (standard)

Series N filters and coalescing filters

Ports G1/8, G1/4
With screw-on transparent bowl





FT01 =
filter without drain
with threaded port



FT02 =
filter with semiautomatic
manual drain



FA01 =
coalescing filter without
drain with threaded port



FA02 =
coalescing filter with
semi-automatic manual drain

Mod.
N108-F00
N104-F00
N208-F00
N204-F00

CODING EXAMPLE

N	2	04	-	F	0	0
---	---	----	---	---	---	---


N	SERIES
2	SIZE: 1 = small bowl 2 = normal bowl
04	PORTS: 08 = G1/8 04 = G1/4
F	FILTER
0	FILTERING ELEMENT: 0 = 25µm (standard) 1 = 5µm B = 0.01µm
0	DRAINING OF CONDENSATE *: 0 = manual - semiautomatic drain 4 = depressurisation - only normal bowl (2) 5 = depressurisation, protected - only normal bowl (2) 8 = no drain, port G1/8

* = Further details about condensate drains are available at the end of this chapter

Series N pressure regulators

Ports G1/8, G1/4





PR01 =
regulator
without relieving



PR02 =
regulator
with relieving

Mod.
N1208-R00
N1204-R00

CODING EXAMPLE

N	12	04	-	R	0	0
---	----	----	---	---	---	---

N	SERIES
12	SIZE: 12
04	PORTS: 08 = G1/8 04 = G1/4
R	REGULATOR
0	OPERATING PRESSURE: 0 = 0,5 ÷ 10 (standard) 1 = 0 ÷ 4 2 = 0 ÷ 2 7 = 0,5 ÷ 7
0	DESIGN TYPE: 0 = self-relieving 1 = non-relieving

Series N lubricators

Ports G1/8, G1/4

With screw-on transparent bowl


 LU01 =
lubricator

 Mod.
N108-L00
N104-L00
N208-L00
N204-L00

CODING EXAMPLE

N	2	04	-	L	00
---	---	----	---	---	----

N SERIES

2 SIZE:
 1 = small bowl
 2 = normal bowl

04 PORTS:
 08 = G1/8
 04 = G1/4

L LUBRICATOR

00 DESIGN TYPE:
 00 = atomized oil

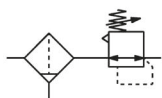
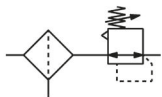
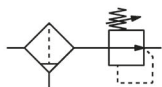
3

TREATMENT

Series N filter-regulators

Ports G1/8, G1/4

With screw-on transparent bowl


FR01 =
 filter-regulator
 with relieving and
 manual drain

FR02 =
 FR with
 relieving and
 without drain

FR11 =
 FR with manual drain
 and without relieving

 Mod.
N108-D00
N104-D00
N208-D00
N204-D00

CODING EXAMPLE

N	2	04	-	D	0	0	-	4
---	---	----	---	---	---	---	---	---

N SERIES

2 SIZE:
 1 = small bowl
 2 = normal bowl

04 PORTS:
 08 = G1/8
 04 = G1/4

D FILTER-REGULATOR

0 FILTERING ELEMENT:
 0 = 25µm (standard)
 1 = 5µm

0 DRAINING OF CONDENSATE AND DESIGN TYPE:
 0 = manual - semiautomatic, self-relieving draining of condensate
 1 = manual - semiautomatic, non-relieving draining of condensate
 4 = depressurised draining of condensate,
 self-relieving (with normal bowl only)
 5 = depressurised, protected draining of condensate,
 self-relieving (with normal bowl only)
 8 = no drain, with port 1/8, self-relieving

4 OPERATING PRESSURE:
 = 0,5 + 10 bar (standard)
 2 = 0 + 2 bar
 4 = 0 + 4 bar
 7 = 0,5 + 7 bar

Accessories for the air treatment

Systems of rapid connections designed to make the mouting easier

Rapid clamp kit for Series MX - size 2

Mod.
MX2-X
MX2-Z



Kit MX2-X supplied with:
1 rapid clamp, 1 O-ring OR 3125 *,
2 exagonal nuts M5, 2 screws M5x69
Kit MX2-Z 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)

Materials: technopolymer clamp, NBR O-ring,
zinc-plated steel nuts and screws

Rapid clamp kit for Series MX - size 3

Mod.
MX3-X
MX3-Z



Kit MX3-X supplied with:
1 rapid clamp, 1 O-ring OR 38X2,8 **,
2 square nuts M6, 2 screws M6x75
Kit MX3-Z supplied with:
1 rapid clamp, 1 O-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

Rapid clamp kit with wall fixing brackets for Series MX - size 2

Mod.
MX2-Y



The kit MX2-Y is supplied with:
1 wall rapid clamp, 1 O-ring OR 3125 **,
2 exagonal nuts M5, 2 screws M5x69

** = it can be separately ordered (cod. 160-39-11/19)

Materials: technopolymer clamp, NBR O-ring,
zinc-plated steel nuts and screws

Rapid clamp kit with wall fixing brackets for Series MX - size 3

Mod.
MX3-Y



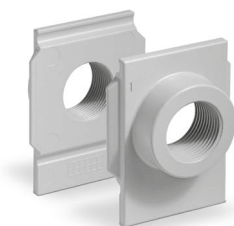
The kit MX3-Y is supplied with:
1 wall rapid clamp, 1 O-ring OR 38X2,8 **,
2 square nuts M6, 2 screws M6x75

** = it can be also separately ordered (OR 38X2,8 NBR)

Materials: technopolymer clamp, NBR O-ring,
zinc-plated steel nuts and screws

Terminal flanges (IN/OUT) for Series MX

Mod.
MX2-3/8-FL
MX2-1/2-FL
MX2-3/4-FL
MX3-3/4-FL
MX3-1-FL



The kit is supplied with:
- 1 flange INLET side
- 1 flange OUTLET side

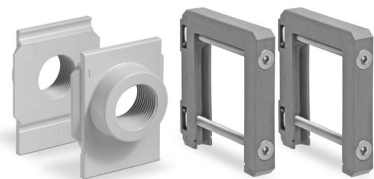
Materials: painted aluminium flanges

Fixing bracket for Series MX and Series MC regulators

Mod.
MX2-S for Series MX and Series MC (Mod. MC238 and MC202)
MX3-S for Series MX only

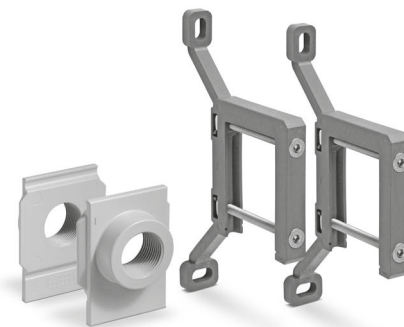


The kit is supplied with
1 zinc-plated steel bracket

Rapid clamps kit + flanges for Series MX


The kit is supplied with:

MX2-3/8-HH 1x MX2-3/8-FL + 2x MX2-X
MX2-1/2-HH 1x MX2-1/2-FL + 2x MX2-X
MX2-3/4-HH 1x MX2-3/4-FL + 2x MX2-X
MX2-3/8-JJ 1x MX2-3/8-FL + 2x MX2-Z
MX2-1/2-JJ 1x MX2-1/2-FL + 2x MX2-Z
MX2-3/4-JJ 1x MX2-3/4-FL + 2x MX2-Z
MX3-3/4-HH 1x MX3-3/4-FL + 2x MX3-X
MX3-1-HH 1x MX3-1-FL + 2x MX3-X
MX3-3/4-JJ 1x MX3-3/4-FL + 2x MX3-Z
MX3-1-JJ 1x MX3-1-FL + 2x MX3-Z

Rapid clamps kit with wall fixing brackets + flanges for Series MX


The kit is supplied with:

MX2-3/8-KK 1x MX2-3/8-FL + 2x MX2-Y
MX2-1/2-KK 1x MX2-1/2-FL + 2x MX2-Y
MX2-3/4-KK 1x MX2-3/4-FL + 2x MX2-Y
MX3-3/4-KK 1x MX3-3/4-FL + 2x MX3-Y
MX3-1-KK 1x MX3-1-FL + 2x MX3-Y

O-ring for Series MX - MC assembly

Mod.

160-39-11/19 (O-ring OR 3125) for Series MX2
OR 38X2,8 NBR (O-ring OR 38X2,8) for Series MX3
458-33/1 (O-ring OR 2068) for Mod. MC104
80-26-11/4T (O-ring OR 3100) for MC238, MC202 [spare part only]


Block for Series MX pressure gauge fixing

Mod.

MX2-R26-P
MX3-R26-P



The kit is supplied with:

1 block
 1 grain
 2 screws
 1 seal

Terminal flanges for Series MC (kit A)

Mod.

MC104-FL
MC238-FL
MC202-FL



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

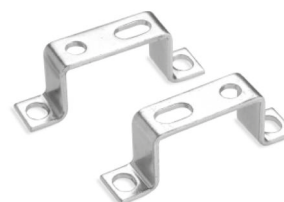
Materials: painted aluminium flanges, zinc-plated steel screws and NBR O-ring

Mounting bracket for Series MC (kit B)

for terminals 1/4, 3/8, 1

Mod.

MC104-ST



The kit MC104-ST is supplied with:

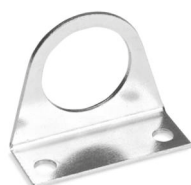
- 2x terminal brackets
 - 4x screws M5x10

Materials: zinc-plated steel brackets and screws

Mounting bracket for Series MC - M - N - T regulators and filter-regulators (G1/4 - G1/8)

Mod.

C114-ST



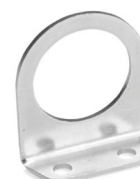
The kit is supplied with:

1x zinc-plated steel bracket

Mounting bracket for Series MC - M - N - T regulators and filter-regulators (G1/4 - G1/8)

Mod.

C114-ST/1



The kit is supplied with:

1 zinc-plated steel bracket

Mounting bracket for Series MC - M - N - T
regulators and filter-regulators (G1/4 - G1/8)
Mod.
C114-ST/2



The kit is supplied with:
1 zinc-plated steel bracket

Mounting bracket for Series MC
for MC238 and MC202
Mod.
C238-ST/1



The kit is supplied with:
1 bracket;
2 screws M5X65

Materials: zinc-plated steel bracket and screws

Tie-rods for assembling, Series MC (kit C)
Mod.
MC1-TMF
MC2-TMF



The kit MC1-TMF is supplied with:
2 male/female tie-rods; 1 O-ring 2068
The kit MC2-TMF is supplied with:
2 male/female tie-rods; 1 O-ring 3100

Materials: nickel-plated steel tie-rods and NBR O-ring

Tie-rods for assembling, Series MC (kit D)
Mod.
MC1-TFF
MC2-TFF



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

Screws for assembling, Series MC (kit E)
Mod.
MC1-VM
MC2-VM



The kit MC1-VM is supplied with:
2 male screws; 1 O-ring 2068
The kit MC2-VM is supplied with:
2 male screws; 1 O-ring 3100

Materials: zinc-plated steel screws and NBR O-ring

Screws for assembling, Series MC (kit F)
Mod.
MC1-VMF
MC2-VMF



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

Screws for assembling Series MC (kit G) to join 2 bodies type "M"
Mod.
MC1-VMD
MC2-VMD



The kit MC1-VMD is supplied with:
4 screws M4X10; 4 spacers; 2 O-ring 2068
The kit MC2-VMD is supplied with:
4 screws M5X12; 4 spacers; 2 O-ring 3100

Materials: zinc-plated steel screws, brass spacers and NBR O-ring

Mounting bracket F - L Series N (for N204)
for filters and lubricators
Mod.
N204-ST






The kit is supplied with:
1 bracket
2 screws M5X6

Materials: zinc-plated steel bracket and screws

Pressure gauges Mod. M043.. - M053.. - M063..



Precision class CL1,6

<p>Pressure gauges with radial connection</p>  <p>Mod. M043-R06 M043-R12 M053-R12 M063-R12</p>	<p>Pressure gauges with rear connection</p>  <p>Mod. M043-P04 M043-P06 M043-P10 M043-P12 M053-P04 M053-P06 M053-P10 M053-P12 M063-P04 M063-P06 M063-P12</p>	<p>Pressure gauges for panel mounting</p>  <p>Mod. M043-F04 M043-F06 M043-F10 M043-F12 M063-F12</p>
---	--	--

Series PG digital pressure gauges

New

Possibility of a direct mounting with rear or panel connection

<p>Series PG digital pressure gauges - battery-powered</p>  <p>Mod. PG010-PB-1/8 PG001-VB-1/8 PG010-PB-1/4 PG001-VB-1/4</p>	<p>Series PG digital pressure gauges - with cable</p>  <p>Mod. PG010-PB-1/8-2 PG001-VB-1/8-2 PG010-PB-1/4-M PG001-VB-1/4-M</p>
---	---

CODING EXAMPLE

PG	010	-	P	B	-	1/8	-	2
PG	SERIES							
010	BOTTOM SCALE: 010 = 10 bar 001 = -1 bar							
P	PRESSURE RANGE: P = pressure V = vacuum							
B	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							

Accessories

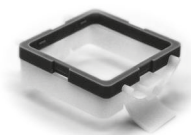
Mounting brackets

Mod.
PG-B

 Supplied with:
1x bracket type
1x bracket type
2x screws M3x6


Panel mounting adapter

Mod.
PG-F

 Supplied with:
1x adapter type A
1x adapter type B


Functioning condensate drains Filtering elements

Semi-automatic manual drain; Automatic drain;
Depressurisation drain; Depressurisation drain, protected
Port 1/8 (without drain)



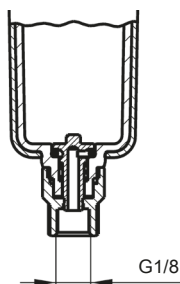
3

TREATMENT

Functioning condensate drains for Series MX, MC and N

Semi-automatic manual drain (Type: 0 and 1)

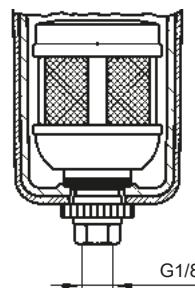
Functioning: with the operator mechanism turned clockwise, each time the pressure falls below 0.3 bar, the draining of condensate will be released; when resetting the pressure, the drain will close again. The release can also be carried out manually; when the bowl is pressurised, the operator mechanism is pushed upwards.



To avoid the discharge of condensate, the operator mechanism should be turned clockwise to completely close the drain.

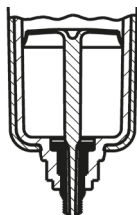
Automatic drain (Type: 3)

Functioning: the presence of liquid inside the bowl raises the float, thus opening the exhaust valve.



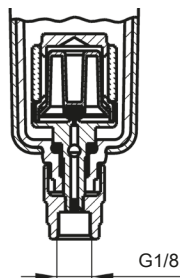
Depressurisation drain (Type: 4)

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.



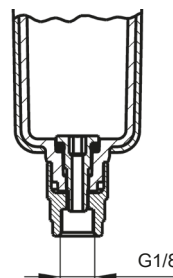
Depressurisation drain (Type 5)

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 clogging the exhaust hole.



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 $\text{Å}3$ mm and a threaded port G1/8.






Super-rapid fittings

		Page
Series 6000	Super-rapid fittings for plastic tubes  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)	155
Series 7000	Super-rapid Compact™ fittings in technopolymer  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)	159
Series 8000	Dual seal super-rapid fittings  Tube external diameters: 4, 6, 8, 10 mm Fittings threads: BSP (G1/8, G1/4, G3/8)	161
Series X6000	Super-rapid fittings in stainless steel 316L  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)	162





Rapid fittings

		Page
Series 1000	Rapid push-in fittings for plastic tubes	163
	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)	


Universal fittings

		Page
Series 1000	Universal nose fittings	166
	Nose fittings for plastic, copper and brass tubes \varnothing 4, 6, 8, 10, 12 mm Fittings threads: BSP (G1/8, G1/4), BSPT (R1/8, R1/4, R3/8, R1/2)	

Fittings accessories

		Page
Series S2000	Standard fittings Sprint®	167
	Fittings threads: BSP (G1/8, G1/4, G3/8, G1/2), BSPT (R1/8, R1/4, R3/8, R1/2)	
Series 2000	Standard fittings	168
	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)	
Series X2000	Pipe fittings fittings in stainless steel 316L	170
	Fittings threads: BSP (G1/8, G1/4, G3/8, G1/2, G3/4), BSPT (R1/8, R1/4, R3/8, R1/2, R3/4)	
Series T, MPL, PNZ	Tubing, spirals and accessories	171
	Tubes: reinforced PVC, Polyamide PA12, Hytrel Polyester, Polyethylene, PU Diameters : 4/2, 5/3, 6/4, 8/6, 10/8, 12/10, 15/12,5 mm	

Quick-release couplings

		Page
Series 5000	Quick-release couplings	172
	Nominal diameters: \varnothing 5 and 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	

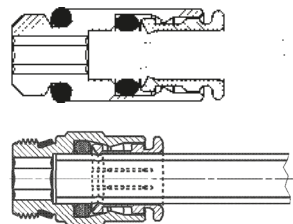
Series 6000 super-rapid fittings for plastic tubes

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.

The wide range of these fittings includes many types of threads: metric, BSP and BSPT. Sprint models are characterized by great reliability of female threads, both BSP and BSPT, with non-flat surfaces. This is possible thanks to a Teflon ring on the male thread, which guarantees a perfect seal between the two threads.



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 S6510 12-1/4
S6510 6-1/8 S6510 12-3/8
S6510 6-1/4 S6510 12-1/2
S6510 6-3/8 S6510 14-3/8
S6510 8-1/8 S6510 14-1/2
S6510 8-1/4 S6510 16-1/2
S6510 8-3/8 S6510 16-3/4
S6510 8-1/2

Male Connector *Sprint*[®]



Mod. Micro
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 O-Ring

BSP Male Connector



Mod.
6512 4-M5 6512 10-1/4
6512 4-M6 6512 10-3/8
6512 4-1/8 6512 12-1/4
6512 4-1/4 6512 12-3/8
6512 5-M5
6512 6-M5
6512 6-1/8
6512 6-1/4
6512 8-1/8
6512 8-1/4
6512 8-3/8

BSP Male 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

BSP Female Connector



Mod.
S6520 4-1/8 S6520 8-1/2
S6520 4-1/4 S6520 10-1/4
S6520 5-1/8 S6520 10-3/8
S6520 5-1/4 S6520 10-1/2
S6520 6-1/8 S6520 12-1/4
S6520 6-1/4 S6520 12-3/8
S6520 6-3/8 S6520 12-1/2
S6520 8-1/8 S6520 14-3/8
S6520 8-1/4 S6520 14-1/2
S6520 8-3/8

Swivel Male Elbow *Sprint*[®]



Mod. Micro
6522 3-M3°
6522 3-M5*

° = with gasket
 * = with O-Ring

BSP Swivel Male Elbow



Mod.
6522 4-M5
6522 4-1/8
6522 4-1/4
6522 5-M5
6522 6-M5
6522 6-1/8
6522 6-1/4
6522 8-1/8
6522 8-1/4
6522 8-3/8
6522 10-1/4
6522 10-3/8
6522 12-1/4
6522 12-3/8

BSP Swivel Male Elbow



Mod.
S6500 4-1/8
S6500 4-1/4
S6500 5-1/8
S6500 5-1/4
S6500 6-1/8
S6500 6-1/4
S6500 8-1/8
S6500 8-1/4
S6500 8-3/8
S6500 10-1/4
S6500 10-3/8
S6500 12-1/4
S6500 12-3/8

Fix Male Elbow



Mod.
6525 6-1/8
6525 6-1/4
6525 8-1/8
6525 8-1/4

Long Swivel Male Elbow *Sprint*[®]



Complete BSP Adjustable
Single Banjo



BSP Fix Male Elbow



Swivel Male Tee *Sprint*[®]

Mod.
S6430 4-1/8
S6430 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
S6430 12-1/4
S6430 12-3/8
S6430 12-1/2
S6430 14-1/2



Mod. Micro
6432 3-M3°
6432 3-M5*

° = with gasket
 * = with O-Ring

BSP Swivel Male Tee



Mod.
6432 4-M5
6432 4-1/8
6432 5-M5
6432 6-1/8
6432 6-1/4
6432 8-1/8
6432 8-1/4
6432 8-3/8
6432 10-1/4
6432 10-3/8
6432 12-1/4
6432 12-3/8

BSP Swivel Male Tee



Mod.
S6440 4-1/8
S6440 5-1/8
S6440 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

Lateral Swivel Male Tee *Sprint®*



Mod. Micro
6442 3-M3°
6442 3-M5*

° = with gasket
 * = with O-Ring

Lateral BSP Swivel Male Tee



Mod.
6442 4-M5
6442 4-1/8
6442 5-M5
6442 6-1/8
6442 6-1/4
6442 8-1/8
6442 8-1/4
6442 8-3/8
6442 10-1/4
6442 10-3/8
6442 12-1/4
6442 12-3/8

Lateral BSP Swivel Male Tee



Mod. Micro
6452 3-M3°
6452 3-M5*

° = with gasket
 * = with O-Ring

BSP Swivel Male Y



Mod.
6451 4-M5*
6451 6-M5*
S6450 4-1/8°
S6450 6-1/8°
S6450 8-1/8°
S6450 8-1/4°

* = BSP Adjustable Male Y
 (not swivel Model with gasket)
 ° = Swivel Male Y *Sprint®*



Mod.
6622 4-M5*
6622 4-1/8
6622 6-1/8
6622 6-1/4
6622 8-1/8
6622 8-1/4
6622 10-1/4

* = Complete
 Metric Swivel
 Single Banjo

Complete BSP Swivel
 Single 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

Complete BSP Swivel
 Double Banjo




Mod.
6620 4-M5°
6620 4-1/8*
6620 6-1/8*
6620 6-1/4*
6620 8-1/8*
6620 8-1/4*

Double Banjo
 Assembled with:
 ° = Mod. SCU, SVU, SCO...
 * = Mod. 1631, 1635, SCU, SVU, SCO...



Mod.
1631 01...
1631 02...
1631 03...

01... = Single Banjo Stem
 02... = Double Banjo Stem
 03... = Triple Banjo Stem



Mod.
6610 4-M5*
6610 4-M6°
6610 4-1/8*
6610 5-M5*
6610 5-M6°
6610 5-1/8*
6610 6-M5*
6610 6-M6°

6610 6-1/8*
6610 6-1/4*
6610 8-1/8*
6610 8-1/4*
6610 8-3/8*
6610 10- 1/4**
6610 10- 3/8**
6610 12-1/2^

Single Banjo
 Assembled with:
 * = Mod. 1631
 ° = Mod. SCU, SVU, SCO...
 * = Mod. 1631, 1635, SCU, SVU, SCO...
 ** = Mod. 1635, SCU, SVU, SCO...
 ^ = Mod. 1635



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

* = with O-Ring

Male Adaptor *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

45° Male Elbow *Sprint®*



Mod. Micro
6590 3

Bulkhead Connector



Mod.
6590 4
6590 5
6590 6
6590 8
6590 10
6590 12
6590 14

Bulkhead Connector



Mod. Micro
6580 3

Union Connector



Mod.
6580 4
6580 5
6580 6
6580 8
6580 10
6580 12
6580 14

Union Connector



Mod.
6580 6-4
6580 8-6
6580 10-8
6580 12-10

Reducer Union Connector



Mod.
6593 6-1/8
6593 6-1/4
6593 8-1/8
6593 8-1/4
6593 10-3/8

BSP Female Bulkhead



Mod. Micro
6550 3

Elbow connector



Mod.
6550 4
6550 5
6550 6
6550 8
6550 10
6550 12
6550 14

Elbow connector



Mod. Micro
6540 3

Tee Connector



Mod.
6540 4
6540 5
6540 6
6540 8
6540 10
6540 12
6540 14

Tee Connector



Mod.
6600 4
6600 5
6600 6
6600 8
6600 10
6600 12

Cross Junction



Mod. Micro
6560 3

Y Union



Mod.
6560 4
6560 6
6560 8
6560 10

Y Union

Mod.
6700 3
6700 4
6700 5
6700 6
6700 8
6700 10



Cartridge with metallic
(+0.05 -0) or synthetic seat
(+0.03 -0,02)

Mod.
6750 4
6750 6
6750 8
6750 10
6750 12



Female Plug

Mod.
6850 6-4
6850 8-6



Enlarger Junction

Mod. Micro
6800 3-4



Reducer Junction

Mod.
6800 4-5
6800 4-6
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 10-14
6800 12-14



Reducer Junction

Mod.
6950 4
6950 6
6950 8
6950 10
6950 12
6950 14



Junction

Mod.
6555 4-4
6555 6-6
6555 8-8
6555 10-10



Junction Elbow

Mod.
6708 4
6708 5
6708 6
6708 8
6708 10
6708 12
6708 14



Protection caps
Colour: Black
Self-extinguishing material, class V0

Mod. Micro
6900 3



Plastic Male Plug

Mod.
6900 4
6900 5
6900 6
6900 8
6900 10
6900 12
6900 14



Plastic Male Plug

Mod.
SP



The set includes keys to disconnect tubes with diameters between 4 and 12 mm

Series 7000 super-rapid Compact™ fittings in technopolymer

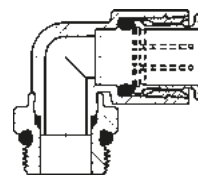
Tube external diameters: 4, 6, 8, 10, 12, 16 mm

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.

Series 7000 fittings are the answer to the many requests coming from the Pneumatic and Automation market.



 <p>Mod. 7522 4-M5 7522 10-1/4 7522 4-M7 7522 10-3/8 7522 4-1/8 7522 10-1/2 7522 4-1/4 7522 12-1/4 7522 6-M5 7522 12-3/8 7522 6-M7 7522 12-1/2 7522 6-1/8 7522 16-1/2 7522 6-1/4 7522 16-3/4 7522 8-1/8 7522 8-1/4 7522 8-3/8</p> <p>BSP Male Swivel Elbow</p>	 <p>Mod. 7526 4-1/8 7526 6-1/8 7526 6-1/4 7526 8-1/8 7526 8-1/4</p> <p>Long BSP Male Swivel Elbow</p>	 <p>Mod. 7442 4-1/8 7442 6-1/8 7442 6-1/4 7442 8-1/8 7442 8-1/4 7442 8-3/8 7442 10-1/4 7442 10-3/8 7442 12-3/8 7442 12-1/2 7442 16-1/2* 7442 16-3/4*</p> <p>Lateral BSP Swivel Male Tee</p> <p>* = model without mounting holes</p>
 <p>Mod. 7432 4-M5 7432 4-1/8 7432 6-M5 7432 6-1/8 7432 6-1/4 7432 8-1/8 7432 8-1/4 7432 8-3/8 7432 10-1/4 7432 10-3/8 7432 12-1/4 7432 12-3/8 7432 12-1/2 7432 16-1/2 7432 16-3/4</p> <p>BSP Swivel Male Tee</p>	 <p>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</p> <p>BSP Swivel Male Multi Tee Reducer</p>	 <p>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</p> <p>BSP Swivel Male Y</p>
 <p>Mod. 7572 4-1/8 7572 4-1/4 7572 6-1/8 7572 6-1/4</p> <p>BSP Swivel Male Double Y</p>	 <p>Mod. 7622 4-1/8 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</p> <p>Complete BSP Swivel Single Banjo</p>	 <p>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</p> <p>Complete BSP Swivel Double Banjo</p>
 <p>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</p> <p>Single Banjo Assembled with Mod. 7632 02, 7632 03</p>	 <p>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</p> <p>Double Banjo Assembled with Mod. 7632 02, 7632 03</p>	 <p>Mod. 7632 02-1/8 7632 02-1/4 7632 02-3/8</p> <p>Double Banjo Stem Assembled with Mod. 7610, 7640</p>



Mod.
7632 03-1/8
7632 03-1/4

Triple Banjo Stem
Assembled with Mod. 7610, 7640



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

Complete BSP Double 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

Complete BSP Triple Adjustable
Single 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

Complete BSP Double 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

Complete BSP Triple Adjustable
Double Banjo



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

Reducer Junction



Mod.
7555 4-4
7555 6-6
7555 8-8
7555 10-10
7555 12-12

Junction Elbow



Mod.
7580 4
7580 6
7580 8
7580 10
7580 12

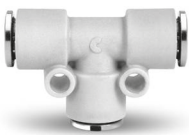
Union Connector



Mod.
7550 4
7550 6
7550 8
7550 10
7550 12
7550 16*

* = model without mounting holes

Elbow Connector



Mod.
7540 4
7540 6
7540 8
7540 10
7540 12
7540 16*

* = model without mounting holes

Tee Connector



Mod.
7545 6-4
7545 8-6
7545 10-8

Multi Tee Reducer



Mod.
7560 4
7560 6
7560 8
7560 10
7560 6-4
7560 8-6
7560 10-8

Y Connector Reducer



Mod.
7575 6-4
7575 8-6

Double Y Reducer



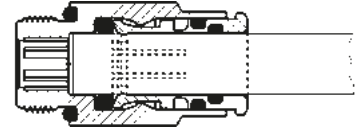
Mod.
7950 4
7950 6
7950 8
7950 10
7950 12

Plastic Junction

Series 8000 dual seal super-rapid fittings

Tube external diameters: 4, 6, 8 mm (10, 12 mm available on request)
Fittings threads: BSP (G1/8, G1/4)

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 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 of the sealing on the tube. The NBR seals are standard and can be easily replaced with FKM and EDM seals.



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

BSP Male Connector



Mod. Micro
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

BSP Swivel Male Elbow



Mod.
8432 4-1/8
8432 6-1/8
8432 8-1/8
8432 8-1/4

BSP Swivel Male Tee



Mod.
8580 4
8580 6
8580 8

Union Connector



Mod.
8540 4
8540 6
8540 8

Tee Connector



Mod.
8550 4
8550 6
8550 8

Elbow Connector

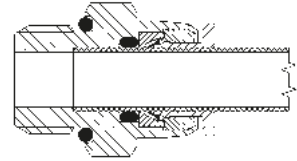
Series X6000 super-rapid fittings in stainless steel 316L

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.



 <p>Mod. X6510 4-1/8 X6510 4-1/4 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 X6510 12-1/4 X6510 12-3/8 X6510 12-1/2</p> <p>BSPT Male Connector</p>	 <p>Mod. X6512 4-1/8 X6512 4-1/4 X6512 6-1/8 X6512 6-1/4 X6512 8-1/8 X6512 8-1/4 X6512 10-1/4 X6512 10-3/8 X6512 10-1/2 X6512 12-1/4 X6512 12-3/8 X6512 12-1/2</p> <p>BSP Male Connector</p>	 <p>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</p> <p>BSPT Fix Elbow</p>
 <p>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</p> <p>BSPT Swivel Male Elbow</p>	 <p>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</p> <p>BSPT Swivel Male Tee</p>	 <p>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</p> <p>BSP Swivel Male Elbow</p>
 <p>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</p> <p>BSP Swivel Male Tee</p>	 <p>Mod. X6580 4 X6580 6 X6580 8 X6580 10 X6580 12</p> <p>Union Connector</p>	 <p>Mod. X6550 4 X6550 6 X6550 8 X6550 10 X6550 12</p> <p>Elbow Connector</p>
 <p>Mod. X6540 4 X6540 6 X6540 8 X6540 10 X6540 12</p> <p>Tee Connector</p>	 <p>Mod. X6590 4 X6590 6 X6590 8 X6590 10 X6590 12</p> <p>Bulkhead Connector</p>	 <p>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</p> <p>Reducer Tube/Stem</p>

Series 1000 rapid push-in fittings for plastic tubes

Tube external diameters: 5/3, 6/4, 8/6, 10/8, 12/10, 15/12,5 mm

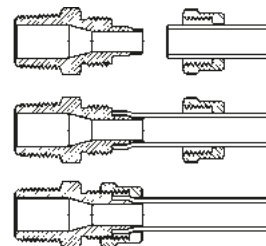
Fittings threads: metric (M5, M6, M12x1, M12x1,25),

BSP (G1/8, G1/4, G3/8, G1/2), BSPT (R1/8, R1/4, R3/8, R1/2)

Series 1000 rapid push-in fittings can be easily installed.

The push-in 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.



Mod.
1510 5/3-1/8
1510 6/4-1/8
1510 6/4-1/4
1510 6/4-3/8
1510 6/4-1/2
1510 6/4-M12x1,25
1510 8/6-1/8
1510 8/6-1/4
1510 8/6-3/8
1510 8/6-1/2
1510 10/8-1/8
1510 10/8-1/4
1510 10/8-3/8
1510 10/8-1/2
1510 12/10-3/8
1510 12/10-1/2
1510 15/12,5-1/2

BSPT Male Connector



Mod.
1511 5/3-M5*
1511 5/3-M6*
1511 5/3-1/8
1511 6/4-M5*
1511 6/4-M6*
1511 6/4-1/8
1511 6/4-1/4
1511 6/4-3/8
1511 8/6-1/8
1511 8/6-1/4
1511 8/6-3/8
1511 10/8-1/8
1511 10/8-1/4
1511 10/8-3/8
1511 10/8-1/2
1511 12/10-3/8
1511 12/10-1/2
1511 15/12,5-1/2

* = with O-Ring

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

Swivel Male Connector *Sprint*®



Mod.
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

BSP Female Connector



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

Swivel Male Elbow *Sprint*®



Mod.
1500 5/3-1/8
1500 6/4-1/8
1500 6/4-1/4
1500 6/4-3/8
1500 6/4-M12x1,25
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

Fix BSPT Male Elbow



Mod.
1501 5/3-M5

BSP Fix Male 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

BSP Female Elbow



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

Swivel Male Tee *Sprint*®



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

BSPT Fix 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

Lateral BSPT Male Tee



Mod.
 1521 5/3-M5
 1521 5/3-1/8
 1521 6/4-M5
 1521 6/4-1/8
 1521 6/4-1/4
 1521 6/4-3/8
 1521 8/6-1/8
 1521 8/6-1/4
 1521 8/6-3/8

Complete BSP
 Single Adjustable Banjo



Mod.
 1525 6/4-1/8
 1525 6/4-1/4
 1525 6/4-3/8
 1525 8/6-1/8
 1525 8/6-1/4
 1525 8/6-3/8
 1525 10/8-1/8
 1525 10/8-1/4
 1525 10/8-3/8
 1525 10/8-1/2
 1525 12/10-3/8
 1525 12/10-1/2
 1525 15/12,5-1/2

Complete Single
 Adjustable Long Banjo



Single Banjo
 Assembled with:
 ° = Mod. 1631, 1635
 ° = Mod. SCU, SVU, SCO...
 * = Mod. 1631, 1635,
 SCU, SVU, SCO...
 ** = Mod. 1635, SCU, SVU,
 SCO...
 ^ = Mod. 1635



Mod.
 1620 6/4-M5°
 1620 6/4-1/8°
 1620 6/4-1/4°
 1620 8/6-1/8°
 1620 8/6-1/4°

Double Banjo
 Assembled with:
 ° = Mod. 1631, 1635
 * = Mod. 1631, 1635, SCU, SVU, SCO...



Mod.
 1631 01-M5*
 1631 01-1/8
 1631 01-1/4
 1631 01-3/8
 1631 01-1/2
 * = zinc-plated
 steel

Single Banjo Stem
 Assembled with adjustable fittings
 Mod. 6610, 6620, 1610, 1620, 1170, 2023



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*

Single Long Banjo Stem
 Assembled with adjustable fittings
 Mod. 6610, 6620, 1610, 1620, 1170, 2023
 * = Models that can be assembled with
 1/4 banjo fittings



Mod.
 1631 02-1/8
 1631 02-1/4
 1631 02-3/8
 1631 02-3/8

Double Banjo Stem
 Assembled with adjustable fittings
 Mod. 6610, 6620, 1610, 1620, 1170, 2023



Mod.
 1635 02-1/8
 1635 02-1/4
 1635 02-3/8
 1635 02-1/2

Double Long Banjo Stem
 Assembled with adjustable fittings
 Mod. 6610, 6620, 1610, 1620, 1170, 2023



Mod.
 1631 03-1/8
 1631 03-1/4
 1631 03-3/8

Triple Banjo Stem
 Assembled with adjustable fittings
 Mod. 6610, 6620, 1610, 1620, 1170, 2023



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

Union Connector



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

Bulkhead Union Reducer



Mod.
1550 6/4
1550 8/6
1550 10/8
1550 12/10
1550 15/12,5

Elbow 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

Tee Connector



Mod.
1600 6/4
1600 8/6

Cross Connector



Mod.
1470 6/4
1470 8/6

Adaptor with Junction



Mod.
2651 1/8
2651 1/4
2651 3/8
2651 1/2
2651 1

Aluminium Washer



Mod.
2661 M3
2661 M5
2661 M6
2661 1/8
2661 1/4
2661 3/8
2661 1/2

Plastic Washer



Mod.
2665 1/8
2665 1/4
2665 3/8
2665 1/2

Plastic Washer



Mod.
2669 1/8
2669 1/4
2669 3/8
2669 1/2

Plastic Washer



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

Blocking nut



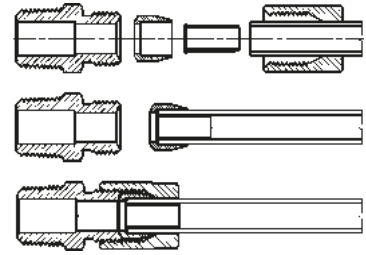
Mod.
1723 6/4-M10x1
1723 8/6-M12x1
1723 10/8-M14x1
1723 12/10-M16x1
1723 15/12,5-M20x1

Blocking nut with metal spring

Series 1000 universal nose fittings

Nose fittings for plastic, copper and brass tubes: \varnothing 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.

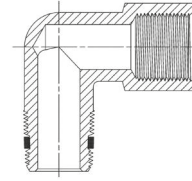


 <p>Mod. 1050 4-1/8 1050 6-1/8 1050 6-1/4 1050 8-1/8 1050 8-1/4 1050 8-3/8 1050 10-1/4 1050 10-3/8 1050 10-1/2 1050 12-1/4* 1050 12-3/8* 1050 12-1/2*</p> <p>* = with bi-conical olive</p> <p>BSPT Male Connector</p>	 <p>Mod. 1063 4-1/8 1063 6-1/8 1063 6-1/4 1063 8-1/8 1063 8-1/4</p> <p>BSP Female Connector</p>	 <p>Mod. 1020 4-1/8 1020 6-1/8 1020 6-1/4 1020 8-1/8 1020 8-1/4 1020 8-3/8 1020 10-1/4 1020 10-3/8 1020 10-1/2 1020 12-1/4* 1020 12-3/8* 1020 12-1/2*</p> <p>* = with bi-conical olive</p> <p>BSPT Fix Male Elbow</p>
 <p>Mod. 1093 4-1/8 1093 6-1/8 1093 6-1/4 1093 8-1/8 1093 8-1/4</p> <p>BSP Female Elbow</p>	 <p>Mod. 1000 4-1/8 1000 6-1/8 1000 8-1/4 1000 10-1/4</p> <p>BSPT Fix Male Tee</p>	 <p>Mod. 1010 4-1/8 1010 6-1/8 1010 8-1/4 1010 10-1/4</p> <p>Lateral BSPT Fix Male Tee</p>
 <p>Mod. 1230 4 1230 6 1230 8 1230 10 1230 12*</p> <p>* = with bi-conical olive</p> <p>Union Connector</p>	 <p>Mod. 1250 4 1250 6 1250 8 1250 10</p> <p>Bulkhead Connector</p>	 <p>Mod. 1220 4 1220 6 1220 8 1220 10 1220 12*</p> <p>* = with bi-conical olive</p> <p>Elbow Connector</p>
 <p>Mod. 1210 4 1210 6 1210 8 1210 10 1210 12*</p> <p>* = with bi-conical olive</p> <p>Tee Connector</p>	 <p>Single Banjo Assembled with * = Mod. 1631, 1635, SCU, SCV, SCO... ° = Mod. 1635, SCU, SCV, SCO...</p>	 <p>Mod. 1303 4-1/8 1303 6-1/8 1303 8-1/4 1303 10-3/8 1303 12-M18x1,5</p> <p>Blocking nut</p>
 <p>Mod. 1310 4 1310 6 1310 8 1310 10 1310 12-M18*</p> <p>* = bi-conical olive</p> <p>Olive</p>	 <p>Mod. 1320 4 1320 6 1320 8 1320 10</p> <p>Insert</p>	

Series S2000 pipe fittings Sprint®

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 patented 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.



Mod.
S2500 1/8
S2500 1/4
S2500 3/8
S2500 1/2

BSPT Nipple *Sprint*®



Mod.
S2530 1/4-1/8
S2530 3/8-1/8
S2530 1/2-1/8
S2530 3/8-1/4
S2530 1/2-1/4
S2530 1/2-3/8

BSPT Reducing Nipple *Sprint*®



Mod.
S2520 1/8-1/8
S2520 1/8-1/4
S2520 1/8-3/8
S2520 1/4-1/4
S2520 1/4-3/8
S2520 1/4-1/2
S2520 3/8-3/8
S2520 3/8-1/2
S2520 1/2-1/2

BSPT Male Reducing Extension *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

BSPT Reducing *Sprint*®



Mod.
2541 1/8-1/8
2541 1/4-1/4
2541 3/8-3/8

BSPT Swivel Male Reduction *Sprint*®



Mod.
S2010 1/8
S2010 1/4
S2010 3/8
S2010 1/2

BSPT Male Elbow *Sprint*®



Mod.
S2020 1/8-1/8
S2020 1/4-1/4
S2020 3/8-3/8
S2020 1/2-1/2

Male Female Elbow *Sprint*®



Mod.
S2050 1/8-1/8
S2050 1/4-1/4
S2050 3/8-3/8
S2050 1/2-1/2

M.M.F. Tee *Sprint*®



Mod.
S2060 1/8-1/8
S2060 1/4-1/4
S2060 3/8-3/8
S2060 1/2-1/2

F.M.F. Tee *Sprint*®



Mod.
S2070 1/8-1/8
S2070 1/4-1/4
S2070 3/8-3/8
S2070 1/2-1/2

M.F.F. Tee *Sprint*®



Mod.
S2080 1/8
S2080 1/4
S2080 3/8
S2080 1/2

Male Tee *Sprint*®



Mod.
S2090 1/8-1/8
S2090 1/4-1/4
S2090 3/8-3/8
S2090 1/2-1/2

M.F.M. Tee *Sprint*®



Mod.
2612 M7*
S2610 1/8
S2610 1/4
S2610 3/8
S2610 1/2

BSP Male Plug *Sprint*®
* = BSP Male Plug with O-Ring



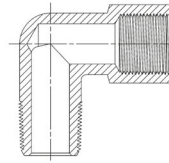
Mod.
S2615 1/8
S2615 1/4
S2615 3/8
















BSPT Male Plug Tapper *Sprint*®

Series 2000 pipe fittings

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)

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.



 <p>Mod. 2500 1/8 2500 1/4 2500 3/8 2500 1/2 2500 3/4 2500 1</p> <p>BSPT Nipple</p>	 <p>Mod. 2501 M5 2501 1/8 2501 1/4 2501 3/8 2501 1/2</p> <p>BSP Nipple</p>	 <p>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</p> <p>BSPT Reducing Nipple</p>
 <p>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</p> <p>BSPT Male Reducing Extension</p>	 <p>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</p> <p>BSP Reducing Extension</p>	 <p>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</p> <p>BSP Reducing Nipple</p>
 <p>Mod. 2525 1/8-16 2525 1/8-36 2525 1/4-27 2525 1/4-43</p> <p>BSP Male Extension</p>	 <p>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</p> <p>BSPT Reducing</p>	 <p>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*</p> <p>* = models with trough thread</p> <p>BSP Reducing</p>
 <p>Mod. 2543 M5 2543 1/8 2543 1/4 2543 3/8 2543 1/2</p> <p>Sleeve</p>	 <p>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</p> <p>Reducing Sleeve</p>	 <p>Mod. 2611 M5 2611 1/8 2611 1/4 2611 3/8 2611 1/2 2611 1</p> <p>BSP Male Plug</p>
 <p>Mod. 2610 3/4</p> <p>BSPT Male Plug</p>	 <p>Mod. 2613 1/8 2613 1/4 2613 3/8 2613 1/2</p> <p>BSP Female Plug</p>	 <p>Mod. 2601 2-M5 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</p> <p>2601 12-1/4 2601 12-3/8 2601 12-1/2 2601 17-3/8 2601 17-1/2</p> <p>Metric-BSP Male Hose Adaptor</p>



Mod.
2013 1/8
2013 1/4
2013 3/8
2013 1/2

BSPT Female Elbow



Mod.
2010 1/8
2010 1/4
2010 3/8
2010 1/2
2010 3/4
2010 1

BSP Male 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*

° = BSP Male Female Elbow
* = BSPT Male Female Elbow



Mod.
2050 1/8-1/8
2050 1/4-1/4
2050 3/8-3/8
2050 1/2-1/2

BSPT M.M.F. Tee



Mod.
2060 1/8-1/8
2060 1/4-1/4
2060 3/8-3/8
2060 1/2-1/2

BSP F.M.F. Tee



Mod.
2080 1/8
2080 1/4
2080 3/8
2080 1/2
2080 3/4
2080 1

BSPT Male Tee



Mod.
2070 1/8-1/8
2070 1/4-1/4
2070 3/8-3/8
2070 1/2-1/2

BSPT M.F.F. 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

BSPT M.F.M. Tee



Mod.
2003 1/8
2003 1/4
2003 3/8
2003 1/2

BSP Female Tee



Mod.
2040 1/8-1/8
2040 1/4-1/4
2040 3/8-3/8
2040 1/2-1/2

BSPT Y.F.M.F.



Mod.
2043 1/8
2043 1/4
2043 3/8
2043 1/2

BSP Female Y



Mod.
2033 1/8
2033 1/4
2033 3/8

BSP Female Cross



Mod.
2023 M5-M5*
2023 M5-M6°
2023 1/8-1/8*
2023 1/4-1/4^
2023 3/8-3/8^

Single Thread Banjo
Assembled with:

* = Mod. 1631
° = Mod. SCU, SVU, SCO...
* = Mod. 1631, 1635, SCU, SVU, SCO...
^ = Mod. 1635, SCU, SVU, SCO...



Mod.
3033 1/8
3033 1/4
3033 3/8
3033 1/2

4 Ways Distribution Block with fixing holes
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
3043 1/2-5D-3/8
3043 1/2-6D-3/8

Manifold with double lateral outlets
Material: anodized Aluminium



Mod.
3053 1/4-3L-1/8
3053 1/4-4L-1/8
3053 1/4-5L-1/8
3053 1/4-6L-1/8
3053 3/8-3L-1/4
3053 3/8-4L-1/4
3053 3/8-5L-1/4
3053 3/8-6L-1/4
3053 1/2-3L-3/8
3053 1/2-4L-3/8
3053 1/2-5L-3/8
3053 1/2-6L-3/8

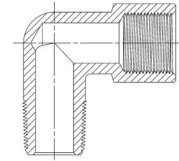
Manifold with lateral outlets
Material: anodized Aluminium

Series X2000 pipe fittings in stainless steel 316L

New

Fittings threads: BSP (G1/8, G1/4, G3/8, G1/2, G3/4, G1),
BSPT (R1/8, R1/4, R3/8, R1/2, R3/4)

Series X2000 fittings in stainless steel AISI 316L 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.



 <p>Mod. X2500 1/8 X2500 1/4 X2500 3/8 X2500 1/2 X2500 3/4</p> <p>BSPT Nipple</p>	 <p>Mod. 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</p> <p>BSPT Reducing Nipple</p>	 <p>Mod. X2530 1/4-1/8 X2530 3/8-1/8 X2530 3/8-1/4 X2530 1/2-1/4 X2530 1/2-3/8 X2530 3/4-1/2</p> <p>BSPT Reducing</p>
 <p>Mod. X2543 1/8 X2543 1/4 X2543 3/8 X2543 1/2 X2543 3/4</p> <p>Sleeve</p>	 <p>Mod. X2612 1/8 X2612 1/4 X2612 3/8 X2612 1/2 X2612 3/4</p> <p>BSP Male Plug with O-Ring seal</p>	 <p>Mod. X2013 1/8 X2013 1/4 X2013 3/8 X2013 1/2 X2013 3/4</p> <p>BSPT Female Elbow</p>
 <p>Mod. X2020 1/8-1/8 X2020 1/4-1/4 X2020 3/8-3/8 X2020 1/2-1/2 X2020 3/4-3/4</p> <p>BSPT Male Female Elbow</p>	 <p>Mod. X2060 1/8-1/8 X2060 1/4-1/4 X2060 3/8-3/8 X2060 1/2-1/2 X2060 3/4-3/4</p> <p>F.M.F. Tee</p>	 <p>Mod. X2003 1/8 X2003 1/4 X2003 3/8 X2003 1/2 X2003 3/4</p> <p>F.M.F. Tee</p>

Tubing, spirals and accessories

Tubes: reinforced PVC, Polyamide PA12, Hytrel Polyester, Polyethylene, 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.



Mod.
PV 6/4
PV 8/6
PV 10/8
PV 12/10
PV 15/12,5

Tube in reinforced PVC
 Standard colour: Blue



Mod.
TRN 4/2
TRN 5/3
TRN 6/4
TRN 8/6
TRN 10/8
TRN 12/10

Tube in polyamide PA12
 Standard colour: Neutral
 Colours available on request:
 Blue - Red - Green - Black - Yellow



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

Tube in Hytrel polyester
 Standard colour: Blue
 Colours available on request:
 Red - Green - Black - Yellow - White



Mod.
TPE 5/3
TPE 6/4
TPE 8/6
TPE 10/8

Tube in low density polyethylene
 Standard color: Neutral
 Colour available on request: Blue



Mod.
TPC 4/2
TPC 6/4
TPC 8/6
TPC 10/8
TPC 12/8

Tube in PU 98 Sh
 Standard colour: Grey RAL 7012



Mod.
TSP 6/4
TSP 8/6
TSP 10/8
TSP 12/10

Spiral in Rilsan (PA 11)
 Standard colour: Blue
 Other colours available on request



Mod.
MPL-4
MPL-6
MPL-8
MPL-10
MPL-12

Plastic Tubes clamp
 Colour: Blue



Mod.
PNZ-12 Small
PNZ-25 Large

Small and large tubes cutter
 Replacement blades can be ordered separately



Mod.
PNZP-12

Plastic tubes cutter

Series 5000 quick-release couplings

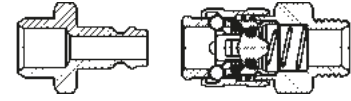
Nominal diameters: 5, 7 mm





























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 Cejin Series 320.









 <p>BSP Male Quick Coupling</p> 	 <p>BSP Male Quick Coupling Bulkhead</p> 	 <p>BSP Female Quick Coupling</p> 
 <p>Quick Coupling Push-on</p> 	 <p>Quick Coupling Bulkhead Push-on</p> 	 <p>Quick Coupling Hose Adapter</p> 
 <p>Quick Coupling Hose Connector</p> 	 <p>Quick Coupling with Spring</p> 	 <p>Male Connector</p> 
 <p>Female Connector</p> 	 <p>Push-on Connector</p> 	 <p>Connector with Barb</p> 
 <p>Hose Connector</p> 	 <p>Connector with Spring</p> 	






Suction pads

		Page
Series VTCF	 Flat suction pads (round) Universal suction pads in NBR or Silicone, ideal for a wide range of applications. Diameters from 3.5 to 95 mm with thread size M3, M5, G1/8, G1/4, both male and female.	175
Series VTOF	 Flat suction pads (oval) Flat suction pads in NBR or Silicone which thanks to their oval shape, can be used to handle narrow and long workpieces. Diameters from 7x3,5 to 60x20 mm with thread size M3, M5, G1/8, G1/4, both male and female.	176
Series VTCL	 Bellows suction pads (round) (1,5 folds) Bellows suction pads available in NBR or Silicone which allow an optimal damping when placed on the workpiece. Diameters from 11 to 53 mm with thread size M5, G1/8, G1/4, both male and female.	177
Series VTCN	 Bellows suction pads (round) (2,5 folds) Bellows suction pads available in NBR or Silicone, are suitable to handle uneven workpiece surfaces or workpiece with major height differences. Diameters from 5 to 52 mm with thread size M5, G1/8, G1/4, both male and female.	178



Ejectors based on Venturi principle

		Page
Series VEB	Basic ejectors Basic ejectors with no moving parts, based on the Venturi principle. Version "L" for porous workpieces. Version "H" for high vacuum value.	179
		
Series VEBL	Basic ejectors 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.	179
		
Series VED	Inline ejectors Vacuum ejectors without moving parts, based on the Venturi principle, used for direct installation on suction pads.	180
		
Series VEDL	Inline ejectors 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.	180
		
Series VEC	Compact ejectors Vacuum generators with integrated valves and monitoring system. Possibility to command suction and blow-off individually without using external valves.	181
		
Series VEM	Compact ejectors Miniaturized vacuum generators with integrated valves and monitoring system. Possibility to command suction and blow-off individually without using external valves.	182
		

Accessories

		Page
Series NPF	Flexible suction pad mountings The vulcanisation provides flexibility in all directions. Thread G1/4.	183
		
Series NPM, NPR	Spring plungers The 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.	183
		
Series VNV	Check valves 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.	183
		

Filters

		Page
Series FVD	Inline vacuum filters For use in vacuum systems with minor to medium levels of dirt. Direct mounting on the suction pad.	184
		
Series FVT	Vacuum cup filters 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.	184
		

Pressure / vacuum switches

See chapter 2

Series VTCF flat suction pads (round)

Universal suction pads in NBR or Silicone, ideal for a wide range of applications
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 pad

C SHAPE:
C = round

F VERSION:
F = flat

0035 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 = Silicone

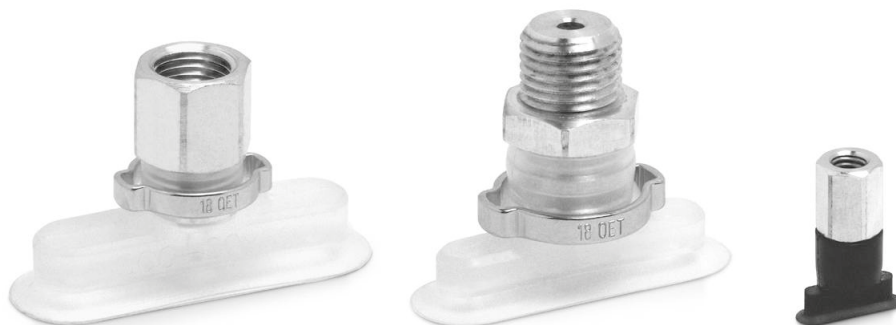
M3 THREAD SIZE:
M3 = M3
M5 = M5
1/8 = G1/8
1/4 = G1/4

M THREAD:
M = male
F = female

Series VTOF flat suction pads (oval)

Flat suction pads in NBR or Silicone which, thanks to their oval shape, can be used to handle narrow and long workpieces.

Diameters from 7x3,5 to 60x20 mm with thread size M3, M5, G1/8, G1/4, both male and female



CODING EXAMPLE

VT	O	F	-	0070-035	N	-	M3	M
----	---	---	---	----------	---	---	----	---

VT SERIES:
VT = suction pad

O SHAPE:
O = oval

F VERSION:
F = flat

0070-035 DIMENSIONS:
0070-035 = 7,0 x 3,5 mm
0150-050 = 15,0 x 5,0 mm
0180-060 = 18,0 x 6,0 mm
0300-100 = 30,0 x 10,0 mm
0450-150 = 45,0 x 15,0 mm
0600-200 = 60,0 x 20,0 mm

N MATERIALS:
N = NBR
S = Silicone

M3 THREAD SIZE:
M3 = M3
M5 = M5
1/8 = G1/8
1/4 = G1/4

M THREAD:
M = male
F = female

Series VTCL (1,5 folds) bellows suction pads (round)

Bellows suction pads Series VTCL available in NBR or Silicone which allow an optimal damping when placed on the workpiece
Diameters from 11 to 53 mm with thread size M5, G1/8, G1/4, both male and female



CODING EXAMPLE

VT	C	L	-	110	N	-	M5	M
----	---	---	---	-----	---	---	----	---

VT SERIES:
VT = suction pad

C SHAPE:
C = round

L VERSION:
L = bellows 1,5 folds

110 DIAMETERS:
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 = Silicone

M5 THREAD SIZE:
M5 = M5
1/8 = G1/8
1/4 = G1/4

M THREAD:
M = male
F = female

Series VTCN (2,5 folds) bellows suction pads (round)

Bellows suction pads Series VTCN, available in NBR or Silicone, are suitable to handle uneven workpiece surfaces or workpiece major height differences
Diameters from 5 to 52 mm with thread size M5, G1/8, G1/4, both male and female



CODING EXAMPLE

VT	C	N	-	050	N	-	M5	M
----	---	---	---	-----	---	---	----	---

VT SERIES:
VT = suction pad

C SHAPE:
C = round

N VERSION:
N = 2,5 bellows

050 DIAMETERS:
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

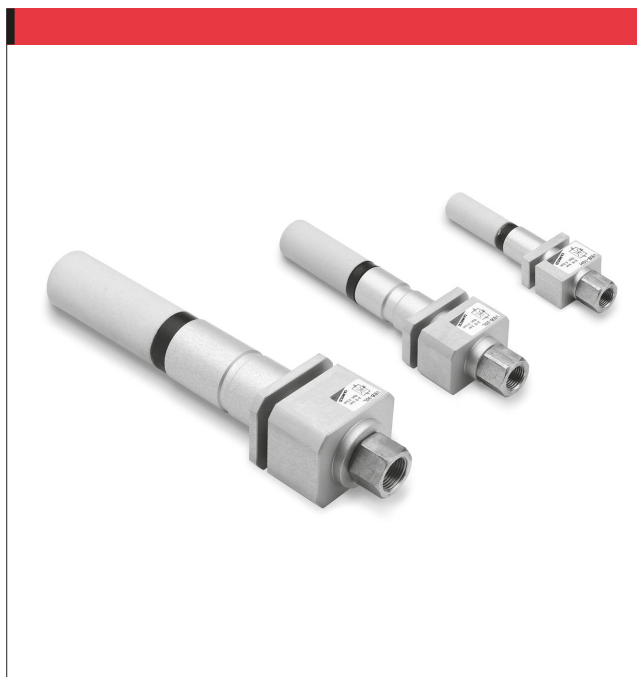
N MATERIALS:
N = NBR
S = Silicone

M5 THREAD SIZE:
M5 = M5
1/8 = G1/8
1/4 = G1/4

M THREAD:
M = male
F = female

Series VEB basic ejectors

Basic ejectors with no moving parts, based on the Venturi principle
Version "L" for porous workpieces, version "H" for high vacuum value



CODING EXAMPLE

VE	B	-	05	H
----	---	---	----	---

VE SERIES:
VE = vacuum ejector

B VERSION:
B = basic

05 NOZZLE DIAMETER (MM):
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

H SUCTION TYPE:
H = high vacuum
L = high suction rate

Series VEBL basic ejectors

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



CODING EXAMPLE

VE	BL	-	10H	-	T2
----	----	---	-----	---	----

VE SERIES:
VE = vacuum ejector

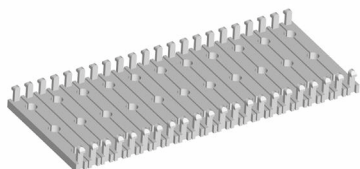
BL VERSION:
BL = basic light

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

Accessories

Bracket-foot
Mod. VEBL-ST



Fixing elements
Mod. VEBL-PCF



Series VED inline ejectors

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



CODING EXAMPLE

VE	D	-	07
----	---	---	----

VE SERIES:
VE = vacuum ejectors

D VERSION:
D = in-line

07 NOZZLE DIAMETER:
07 = 0,7 mm
09 = 0,9 mm

Series VEDL inline ejectors

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

VE	DL	-	05	-	T1
----	----	---	----	---	----

VE SERIES:
VE = vacuum ejector

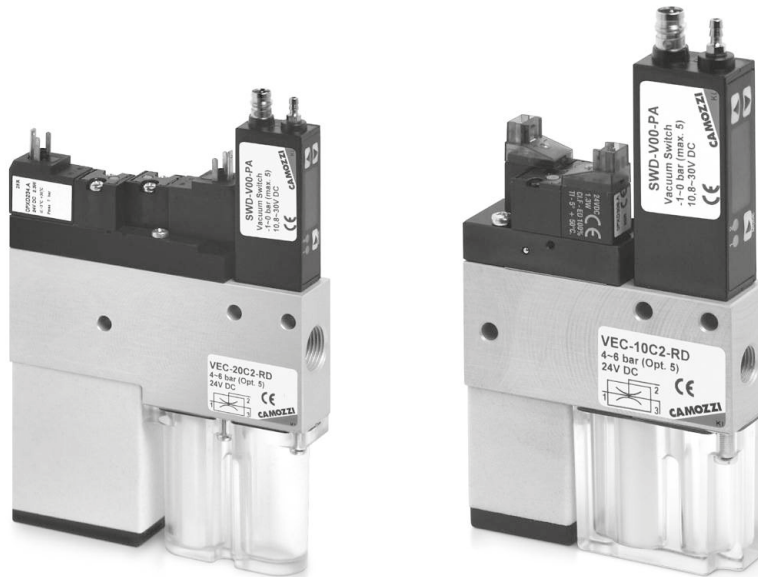
DL VERSION:
DL = inline light

05 NOZZLE DIAMETER:
05 = 0,5 mm
07 = 0,7 mm

T1 TYPE OF CONNECTION (ON SUPPLY SIDE):
T1 = plier - tube Ø4

Series VEC compact ejectors

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



CODING EXAMPLE

VE	C	-	10	C	2	-	RD
----	---	---	----	---	---	---	----

VE SERIES:
VE = vacuum ejector

C VERSION:
C = compact

10 NOZZLE DIAMETER (mm):
10 = 1,0 mm
15 = 1,5 mm
20 = 2,0 mm
25 = 2,5 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

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 ejector is NC or NO; this means that, in order to switch the internal loop back to "OFF", it is necessary to activate the signal on the coil controlling it (green cable).

Accessories

Connectors with crimped cable
 for Mod. VEC-10 and VEC-15
 Mod. **121-803**
121-806
121-810
121-830



Connectors DIN 43650 pin spacing 8 mm
 for Mod. VEC-20 and VEC-25
 Mod. **126-550-1**
126-800
126-701

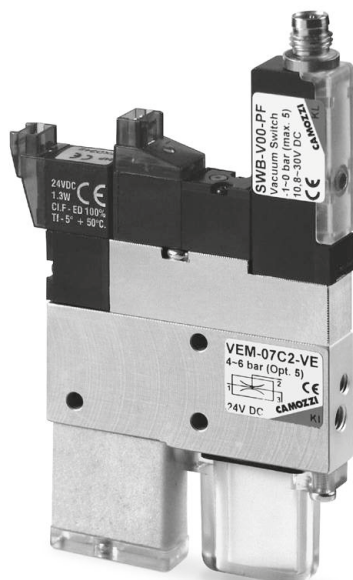


Circular M8 4-pole connectors, Female
 With PU sheathing, non shielded cable
 Protection class: IP65
 Mod. **CS-DF04EG-E200**
CS-DF04EG-E500
CS-DR04EG-E200
CS-DR04EG-E500



Series VEM compact ejectors

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



CODING EXAMPLE

VE	M	-	05	C	2	-	VE
----	---	---	----	---	---	---	----

VE SERIES:
VE = vacuum ejector

M VERSION:
M = compact, mini

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

Accessories

Connectors with crimped cable

Mod. 121-803
121-806
121-810



Circular M8 4-pole connectors, Female

With PU sheathing, non shielded cable
Protection class: IP65

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



Series NPF flexible suction pad mountings

The vulcanisation provides flexibility in all directions
Thread G1/4



CODING EXAMPLE

NPF	-	FM	-	1/4	-	M10 X 1,25
-----	---	----	---	-----	---	------------

NPF	SERIES: NPF = flexible suction pad mountings
------------	---

FM	THREAD VERSION: FM = G1 Female / G2 Male
-----------	---

1/4	FEMALE THREAD G1: 1/4 = G1/4
------------	---------------------------------

M10x1,25	MALE THREAD G2: M10x1,25 = M10x1,25 1/4 = G1/4
-----------------	--

Series NPM and NPR (non rotating) spring plungers

The 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

NPM	-	FM	-	1/4	-	75
-----	---	----	---	-----	---	----

NPM	SERIES: NPM = spring plunger NPR = spring plunger - non-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
-----------	--

Series VNV check valves

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 1/2 = G1/2
-----------	--

Series FVD inline vacuum filters

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



CODING EXAMPLE

FVD	-	6/4	-	50
-----	---	-----	---	----

FVD SERIES:
FVD = inline filter

6/4 CONNECTIONS:
6/4 = tube 6
8/6 = tube 8

50 FILTER ELEMENT:
50 = 50 µm

Series FVT vacuum cup filters

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

Accessories

Mounting foot bracket

The mod. **FVT-FF-1/8-80-B** is used on cup filters with ports G1/8, G1/4, G3/8 and G1/2.

The mod. **FVT-FF-3/4-80-B** is used on cup filters with ports G3/4.



*Camozzi
in the world*

Camozzi spa
Società Unipersonale
Via Eritrea, 20/I
25126 Brescia
Italy
Tel. +39 030/37921
Fax +39 030/2400430
info@camozzi.com
www.camozzi.com

Camozzi Neumatica S.A.
Prof. Dr. Pedro Chutro 3048
1437 Buenos Aires
Argentina
Tel. +54 11/49110816
Fax +54 11/49124191
info@camozzi.com.ar
www.camozzi.com.ar

Camozzi GmbH Pneumatic
Löfflerweg 18
A-6060 Hall in Tirol
Austria
Tel. +43 5223/52888-0
Fax +43 5223/52888-500
info@camozzi.at
www.camozzi.at

Camozzi do Brasil Ltda.
Rua Estácio de Sá, 1042
13080-010 Campinas SP
Brazil
Tel. +55 19/21374500
Fax +55 19/21374530
sac@camozzi.com.br
www.camozzi.com.br

Camozzi Pneumatic
64 Perekhodnaya str., 1st floor
Minsk - 220070
Byelorussia
Tel. +375 17/3961170 (71)
Fax +375 17/3961170 (71)
info@camozzi.by
www.camozzi.by

**Shanghai Camozzi Pneumatic
Control Components Co. Ltd.**
717, Shuang Dan Road, Malu Town,
201801 Jiading Ind. District Shanghai
China
Tel. +86 21/65363650 - 59100999
Fax +86 21/59100333
info@camozzi.com.cn
www.camozzi.com.cn

**Shanghai Camozzi Automation
Control Co. Ltd.**
717, Shuang Dan Road,
Malu Town
201801 Jiading Ind. District
Shanghai
China
Tel. +86 21/59100999
Fax +86 21/59100333
info@camozzi.com.cn
www.camozzi.com.cn

Camozzi ApS
Metalvej 7 F
4000 Roskilde
Denmark
Tel. +45 46/750202
Fax +45 46/750203
info@camozzi.dk
www.camozzi.dk

Camozzi Automation OÜ
Osmussaare 8-B204
13811 Tallinn
Estonia
Tel. +372 6119055
Fax +372 6119055
info@camozzi.ee
www.camozzi.ee

Camozzi Pneumatique Sarl
5, Rue Louis Gattefossé
Parc de la Bandonnière
69800 Saint Priest
France
Tel. +33 (0)478/213408
Fax +33 (0)472/280136
info@camozzi.fr
www.camozzi.fr

Camozzi GmbH Pneumatic
Porschestraße 1
D-73095 Albershausen
Germany
Tel. +49 7161/91010-0
Fax +49 7161/91010-99
info@camozzi.de
www.camozzi.de

Camozzi India Private Limited
No D-44 Phase II Ext.,
Hosiery Complex
Noida - 201 305
Uttar Pradesh
India
Tel. +91 120/4055252
Fax +91 120/4055200
info@camozzi-india.com
www.camozzi.in

**Camozzi Pneumatic
Kazakhstan LLP**
Shevchenko/Radostovets,
165b/72g, off. 615
050009 Almaty
Kazakhstan
Tel. +7 727/3335334 - 3236250
Fax +7 727/2377716 (17)
info@camozzi.kz
www.camozzi.kz

Camozzi Malaysia SDN. BHD.
30 & 32, Jalan Industri USJ 1/3
Taman Perindustrian USJ 1
47600 Subang Jaya
Selangor
Malaysia
Tel. +60 3/80238400
Fax +60 3/80235626
cammal@camozzi.com.my
www.camozzi.com.my

**Camozzi Neumatica de Mexico
S.A. de C.V.**
Lago Tanganica 707
Col. Ocho Cedros 2ª sección
50170 Toluca
México
Tel. +52 722/2707880 - 2126283
Fax +52 722/2707860
camozzi@camozzi.com.mx
www.camozzi.com.mx

Camozzi Pneumatic Ltd.
Floor 14, Leningradskaya Street,
1-A Himki, Moscow Region
141400 Moskau
Russian Federation
Tel. +7 495/7354961
Fax +7 495/7354961
info@camozzi.ru
www.camozzi.ru

Camozzi Pneumatik AB
Box 9214
Bronsyxegatan 7
20039 Malmö
Sweden
Tel. +46 40/6005800
Fax +46 40/6005899
info@camozzi.se
www.camozzi.se

Camozzi Benelux B.V.
De Vijf Boeken 1 A
2911 BL Nieuwerkerk a/d IJssel
The Netherlands
Tel. +31 180/316677
Fax +31 180/316616
info@camozzi.nl
www.camozzi.nl

LLC Camozzi
Kirilovskaya Str, 1-3, section "D"
Kiev - 04080
Ukraine
Tel. +38 044/5369520
Fax +38 044/5369520
info@camozzi.ua
www.camozzi.ua

Camozzi Pneumatics Ltd.
The Fluid Power Centre
Watling Street
Nuneaton, Warwickshire
CV11 6BQ
United Kingdom
Tel. +44 (0)24/76374114
Fax +44 (0)24/76347520
info@camozzi.co.uk
www.camozzi.co.uk

Camozzi Pneumatics Inc.
Street address:
2160 Redbud Boulevard, Suite 101
McKinney, TX 75069-8252
Remittances:
P.O. Box 678518
Dallas, TX 75267-8518
USA
Tel. +1 972/5488885
Fax +1 972/5482110
info@camozzi-usa.com
www.camozzi-usa.com

Camozzi Venezuela S.A.
Calle 146 con Av. 62
N°146-180
P.O. Box 529
Zona Industrial Maracaibo
Edo. Zulia
Venezuela
Tel. +58 261/7360821
Fax +58 261/7360401
info@camozzi.com.ve
www.camozzi.com.ve

**Camozzi R.O.
in Hochiminh City**
6th Floor, Master Building,
155 Hai Ba Trung St.,
Ward 6, District 3
Hochiminh City
Vietnam
Tel. +84 8/54477588
Fax +84 8/54477877
bhthien@camozzi.com.vn
www.camozzi.com.vn

*Camozzi
distributors
in the world*

Europe

ZULEX d.o.o.

Safeta Zajke 115b
Sarajevo
Bosnia-Herzegovina
Tel. +387 33/776580
Fax +387 33/776583
zulex@bih.net.ba
www.zulex.com.ba

L.D. GmbH

Zar Samuil Str. 116
1202 Sofia
Bulgary
Tel. +359 2/9269011
Fax +359 2/9269025
camozzi@ld-gmbh.com
www.ld-gmbh.com

Bibus Zagreb d.o.o.

Anina 91
HR 10000 Zagreb
Croatia
Tel. +385 1/3818004 - 3818006
Fax +385 1/3818005
bibus@bibus.hr
www.bibus.hr

TS Hydropower Ltd.

Industrial Area N°64
Aglanzia 21-03
Nicosia
Cyprus
Tel. +357 22/332085
Fax +357 22/338608
tshydro@cytanet.com.cy

Tech-Con Czech Republic s.r.o.

Ve žlíbku 1800 - Horní Počernice
Prague - 19300
Czech Republic
Tel. +420 277/004 705 - 706
Fax +420 277/004 707
info.cz@tech-congroup.com
www.tech-con.cz

AVS-Yhtiöt Oy

Rusthollarinkatu 8
02270 Espoo
Finland
Tel. +358 10/6137100
Fax +358 10/6137701
info@avs-yhtiot.fi/
www.avs-yhtiot.fi/

Technomatic control s.a.

Esopou Street
Kalohori
570 09 Thessaloniki
Greece
Tel. +30 2310/778730
Fax +30 2310/778732
info@technomatic.gr
www.technomatic.gr

Tech-Con Hungária Kft

Véső u. 9-11
(Entrance Süllő u. 8.)
1133 Budapest
Hungary
Tel. +36 1/412 4161
Fax +36 1/412 4171
tech-con@tech-con.hu
www.tech-con.hu

Loft & Raftæki

Hjallabrekka 1
200 Kópavogur
Iceland
Tel. +354 564/3000
Fax +354 564/0030
gummi@loft.is
www.loft.is

Hidroteka Engineering Services

Chemijos 29E
LT-51333 Kaunas
Lithuania
Tel. +370 37/452969
Fax +370 37/760500
hidroteka@hidroteka.lt
www.hidroteka.lt

Rayair Automation Ltd.

KW23G - Corradino Ind. Estate
Paola, PLA3000
Paola, Pla 08
Malta
Tel. +356 21/672497
Fax +356 21/805181
sales@rayair-automation.com
www.rayair-automation.com

Bibus Menos Sp. z o.o.

ul. Spadochroniarzy 18
80-298 Gdańsk
Poland
Tel. +48 58/6609570
Fax +48 58/6617132
info@bibusmenos.pl
www.bibusmenos.pl

Teclena - Automatizacão, Estudos e Representações, S.A.

Rua Dos Camponeses, n° 390
Zona Industrial do Vale Sepal
2400-316 Leiria
Portugal
Tel. +351 244/860980
Fax +351 244/812832
geral@teclena.pt
www.teclena.pt

Experts d.o.o.

Mitropolit Teodosij Gologanov, 149
MK-1000 Skopje
Rep. of Macedonia
Tel. +389 2/3081970
Fax +389 2/3084871
experts@t-home.mk
www.experts.com.mk

Tech-Con Industry Srl

Calea Crângasi N°60
Sector 6 , 060346 Bucharest
Romania
Tel. +40 21/2219640
Fax +40 21/2219766
paul.stoica@tech-congroup.com
www.tech-con.ro

Tech-Con d.o.o. Beograd

Cara Dušana 205a
11080 Zemun - Belgrade
Serbia
Tel. +381 11/4142790
Fax +381 11/3166760
office@tech-con.rs
www.tech-con.rs

STAF Automation s.r.o.

Kostiviarska 4944/5
974 01 Banská Bystrica
Slovakia
Tel. +421 48/4722777
Fax +421 48/4722755
staf@staf.sk
www.staf.sk/

Kovimex d.o.o.

Podskrajnik 60,
SI-1380 Cerknica
Slovenia
Tel. +386 1/7096430
Fax +386 1/7051930
kovimex@kovimex.si

Esperia S.A.

Arangutxi, 13
Poligono Industrial De Jundiz
01015 Vitoria
Spain
Tel. +34 945/290105
Fax +34 945/290356
comercial@esperia.es
www.esperia.es

Bibus AG

Allmendstrasse 26
CH-8320 Fehraltorf
Switzerland
Tel. +41 44/8775011
Fax +41 44/8775019
info.bag@bibus.ch
www.bibus.ch

Hidrel Hidrolik Elemanlar Sanayi Ve Ticaret A.S.

Perçemli Sokak, No 11 Tünel Mevki
80000 Karakoy - Istanbul
Turkey
Tel. +90 212/2517318 - 2494881
Fax +90 212/2920850
hidrel@superonline.com

>>

*Camozzi
distributors
in the world*

America

Marco Industrial spa
Los Gobellinos # 2584 - Renca
Santiago
Chile
Tel. +56 2/7824400
Fax +56 2/6464623
marcoindustrial@marco.cl
www.marco.cl

Euroindustrial Ltda
Carrera 25A # 4B-64
Bogotá
Colombia
Tel. +57 1/5606140
Fax +57 1/5609576
www.euro-industrial.net

Eurotécnica de Costa Rica AYM, S.A.
150 m oeste del cruce de Llorente,
hacia Epa Tibás
Costa Rica
Tel. +506 2241/4242 - 4230
Fax +506 2241/4272
eurotecnica@eurotecnicacr.com
www.eurotecnicacr.com

LT Industrial, EIRL
Ave. Charles Summer #53, suite 24B
Plaza Charles Summer
Santo Domingo
Dominican Republic
Tel. +1809-623-5156
Fax +1829-956-7205
info@ltindustrialrd.com

Fluidica Cia. Ltda.
Abelardo Moncayo Oe4-08 y Av. América
Quito, Pichincha
Ecuador
Tel. +593 2/2440848 - 2/5102004
Fax +593 2/2440848
info@fluidica-ec.com
www.fluidica-ec.com

Aplitec S.A. de C.V.
75 Av. Nte,
Residencial Escalón Norte II
Pje KL #3-C
San Salvador
El Salvador
Tel. +503 2557/2666
Fax +503 2557/2652
info@aplitecsv.com
www.aplitecsv.com

Isotex de Panamá S.A.
Plaza Conquistador Local #5
Panama City
Panamá
Tel. +507 217/0050 - 217-0106
Fax +507 217-0049
gerencia@isotexpanama.com
info@isotexpanama.com

Eicepak S.A.C.
Av. Los Cipreses N° 484 Los Ficus
Santa Anita - Lima
Perú
Tel. +51 1/3628484 - 3627127
- 3628698
Fax +51 1/3625602
eicepak@eicepak.com
www.eicepak.com

Cocles S.A.
BVAR Artigas 4543 P.O. Box 11800
Montevideo
Uruguay
Tel. +598 2/2006428 - 2090446
Fax +598 2/206428
cocles@adinet.com.uy
www.cocles.com.uy

Middle East

Compressed Air Technology Co.Saa
83 - El Sabteya Str.
21211 Sabteya ET
Kairo
Egypt
Tel. +20 2/25766266 - 25774400
Fax +20 2/25750113
elhaggar@intouch.com

E. Yeruham & Comp. Ltd.
34 Hahofer Street
P.O. Box 11884 Holon
58117 Holon
Israel
Tel. +972 3/5567322
Fax +972 3/5596616
office@ayeruham.com
www.ayeruham.com

Raymond Feghali Co.
For Trade & Industry SARL
Naher El-Mott Highway, Zalka
P.O. BOX 90-723 Jdeideh
Lebanon
Tel. +961 1/893176 - 894545
Fax +961 1/879500
RTF@raymondfehalico.com
www.raymondfehalico.com

Kalbony Cousins Co.
P.O. Box 211751
Amman 11121
Jordan
Tel. +962 6/4647372
Fax +962 6/4649848
kalbony@kalbony.jo

Techno-Line Trading & Services WLL
Ware House 05, Building 2189
Road 1529, Block 115
Hidd
Kingdom of Bahrain
Tel. +973 17783906
Fax +973 17786906
techline@batelco.com.bh

Al - Maram General Trading Co.
Shuwaikh Indust. Area Plot 55-60
Shop No. 9, Khalifa Al-Jassim Street
Behind Safety international Shuwaikh
Kuwait
Tel./Fax +965 24828108
almaramkuwait@gmail.com

Al-Hawaiya for Industrial Solutions
Establishment. (ALHA)
Kilo - 3, Makkah Road
P.O. Box 11429
Jeddah 21453
Saudi Arabia
Tel. +966 2/6885524
Fax +966 2/6885061
info@alha.com.sa
www.alha.com.sa

Ohaara Data Engineering
Surian Djadideh Zouhour Street
4410 Aleppo
Syria
Tel. +963 21/2273227
Fax +963 21/2273281
ohaara_ozla@yahoo.com

I.M.O.
Industrial Machine Trd. Co. L.L.C.
P.O. Box 20376
Sharjah
United Arab Emirates
Tel. +971 6/5437991
Fax +971 6/5437994
imo@eim.ae

Asia

PT. Golden Archy Sakti
Kompleks Prima Centre Blok B2 No.2
Jl.Pool PPD - Pesing Poglar No.11,
Kedaung Kali Angke - Cengkareng,
Jakarta Barat 11710
Indonesia
Tel. +62 21/54377888
Fax +62 21/54377089
sales@archy.co.id
www.archy.co.id

Seika Corporation
Aqua Dojima East Bldg.
16F, 4-4, 1-Chome, Dojimahama,
Kita-Ku Osaka
Japan
Tel. +81 6/63453176
Fax +81 6/63443584
kuronakat@jp.seika.com

Exceltec Automation Inc.
608-G, EL-AL Building,
Quezon Avenue, Tatalon
Quezon City, 1113
Philippines
Tel. +632/416 1143 - 416 1141
- 731 9015
Fax +632/712 1672
sales.manila@exltec.com

Exceltec Enviro Pte Ltd
Block 3025 Ubi Road 3
03-141
408653
Singapore
Tel. +65 67436083
Fax +65 67439286
sales@exltec.com

Tae-Seung System
9, Nowon-ro, 9-gil, Buk-gu,
702-815 - Daegu
South Korea
Tel. +82 53/2137212
Fax +82 53/3535997
tss@ucikorea.com
www.khic.co.kr

Savikma Automation & Engineering
Services (Pvt) Ltd.
22, Wattegedara Road
Maharagama
Sri Lanka
Tel. +94 115642164
Hot line +94 777800070
Fax +94 112844777
saes@sltnet.lk

Genn Dih Enterprises CO, Ltd.
No. 17, Lane 822, Sec. 2
Chung-Hsing Road, Ta-Li City
Taichung County
Taiwan
Tel. +886 4/24874219 - 24860626
Fax +886 4/24862824
yuchong@ms61.hinet.net

Pneumax Co. Ltd.
107/1 Chaloe Phrakiat R.9 Rd.,
Pravet - Bangkok 10250
Thailand
Tel. +66 2/7268000
Fax +66 2/7268260
import@pneumax.co.th
www.pneumax.co.th

Africa

Sarl.Si.Maaz.Co
36 Bd, Mellah Ali (ex: Marceau)
Oran
Algeria
Tel. +213 41/302791 - 303052
Fax +213 41/301921
mnaima_2@yahoo.fr

DISMATEC
Distribution de Matériels Techniques
N° RCCM-CI-ABJ-2010B1882
16 BP 236 ABIDJAN 16
Ivory Coast
Tel. +225 +21267091
Fax +225 +21262367
dismatec2002@yahoo.fr

FHP s.a. Flexibles Haute Pression
25 Rue Lt Puissesseau
Casablanca
Morocco
Tel. +212 22/301997
Fax +212 22/301913
fhpelidrissi@iam.net.ma

A.T.C. Automatisme
Avenue Habib Bourguiba
Centra Said - BP 25 2033
Megrine
Tunisia
Tel. +216 71/297328
Fax +216 71/429084
commercial@atc.com.tn
www.atc.automatisme.com

Hydramatics Control Equipment
15 Village Crescent,
Linbro Business Park,
Sandton Johannesburg 2065
South Africa
Tel. +2711/6081340 - 1 - 2
Fax +2786/5516311
mjones@hydramatics.co.za
www.hydramatics.co.za

Oceania

Griffiths Components Pty Ltd
605 Burwood Hwy
Knoxfield Victoria
Melbourne 3180
Australia
Tel. +61 3/9800 6500
Fax +61 3/9801 8553
enquiry@camozzi.com.au



Air that moves the world