Short form catalogue

release 8.8

CAMOZZI

Automation

Camozzi Automation 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

Product 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 8.8

Welcome to the world of Camozzi Automation

This short form catalogue features the complete range of Camozzi Automation products. Further details are 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 Automation.

CAMOZZI
Automation

General index

1 > Movement

Cylinders according standards

Compact cylinders

Stainless steel cylinders

Guided cylinders

Cylinders not according standards

Rotary cylinders

Grippers

Rodless cylinders

Proximity switches

Clamping elements and shock absorbers

Electrical actuation

Series 16, 24 and 25 minicylinders

Single-acting and double-acting CETOP RP52-P DIN/ISO 6432
Series 16: ø 8, 10, 12 mm. Series 24: ø 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) - CD08 (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 ø 20 - ø 25

100 STROKE:
Series 16 ø 8 ÷ ø 10: 10 - 250 mm; ø 12: 10 - 300 mm / Series 24 and 25 ø 16: 10 - 600 mm; ø 20 - ø 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	Ø	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


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**


Mod. **GK**

CODING EXAMPLE

40	M	2	L	160	A	0200	

40 — SERIES

M — VERSION:
M = standard, magnetic

2 — OPERATION:

	PNEUMATIC SYMBOLS *
2 = double-acting, front and rear cushions	CD09
3 = double-acting, no cushion	CD08
4 = double-acting, rear cushions	CD10
5 = double-acting, front cushion	CD11
6 = double-acting, through-rod, front and rear cushions	CD13
8 = double-acting, through-rod, no cushion	CD12

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**


Mod. **GK**

CODING EXAMPLE

41	M	2	P	160	A	0200	

41 SERIES

M VERSION:
M = standard magnetic

2 OPERATION:

	PNEUMATIC SYMBOLS *
2 = double-acting, front and rear cushions	CD09
3 = double-acting, no cushion	CD08
4 = double-acting, rear cushions	CD10
5 = double-acting, front cushion	CD11
6 = double-acting, through-rod, front and rear cushions	CD13
8 = double-acting, through-rod, no cushion	CD12

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
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 11


Mod. **GY**


Mod. **U**


Mod. **S**


Mod. **R**


Mod. **GKF**


Mod. **GA**


Mod. **ZC**


Mod. **C+L+S**


Mod. **D-E**


Mod. **GK**


Mod. **BF**


Mod. **F**


Mod. **B**


Mod. **H** and **C-H**


Mod. **C** and **C-H**


Mod. **G**


Mod. **L**


Mod. **80-62/8C**

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
8 = double-acting, through-rod, no cushion

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)
CD12

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 - ø 32, 40, 50, 63, 80, 100, 125 mm
Example of assembly with a valve on page 11



Mod. **GY**

Mod. **U**

Mod. **S**

Mod. **R**

Mod. **GKF**

Mod. **GA**

Mod. **ZC**

Mod. **C+L+S**

Mod. **D-E**

Mod. **GK**

Mod. **BF**


Mod. **F**

Mod. **B**

Mod. **H** and **C-H**

Mod. **C** and **C-H**

Mod. **G**

Mod. **L**

Mod. **80-62/8C**

CODING EXAMPLE

61	M	2	P	050	A	0200	

61 — SERIES

M — VERSION:
M = standard, magnetic - L = low friction, magnetic

2 — OPERATION:

	PNEUMATIC SYMBOLS *
1 = single-acting, front spring (ø 32 ± ø 100)	CS07
2 = double-acting, front and rear cushioned	CD09
3 = double-acting, no cushion	CD08
4 = double-acting, rear cushioned	CD10
5 = double-acting, front cushioned	CD11
6 = double-acting, through-rod, front and rear cushioned	CD13
7 = single-acting, through-rod	CS11
8 = double-acting, through-rod, no cushion	CD12

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 [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 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 ÷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	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 11


Mod. **GY**


Mod. **U**


Mod. **S**


Mod. **R**


Mod. **GKF**


Mod. **GA**


Mod. **ZC**


Mod. **C+L+S**


Mod. **D-E**


Mod. **GK**


Mod. **H** and **C-H**


Mod. **C** and **C-H**


Mod. **B**


Mod. **G**


Mod. **L**


Mod. **80-62/8C**

CODING EXAMPLE

62	M	2	P	050	A	0200	

62 — SERIES

M — VERSION:
M = standard, magnetic

2 — OPERATION:

	PNEUMATIC SYMBOLS *
2 = double-acting, front + rear cushion	CD09
3 = double-acting, no cushion	CD08
4 = double-acting, rear cushion	CD10
5 = double-acting, front cushion	CD11
6 = double-acting, through-rod, front + rear cushion	CD13
8 = double-acting, through-rod, no cushion	CD12

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

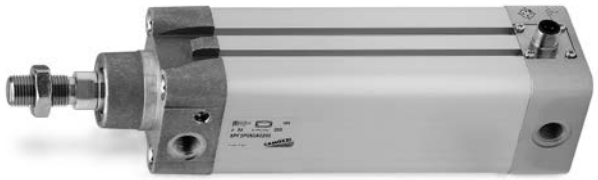
STANDARD STROKES

✖ = 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		✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖

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 11




Mod. **GY**


Mod. **U**


Mod. **S**


Mod. **R**


Mod. **GKF**


Mod. **GA**


Mod. **ZC**


Mod. **C+L+S**


Mod. **D-E**


Mod. **GK**


Mod. **BF**


Mod. **F**


Mod. **B**


Mod. **H** and **C-H**


Mod. **C** and **C-H**


Mod. **G**


Mod. **L**


Mod. **80-62/8C**

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	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖

Series 63 cylinders - Aluminium tube and profile

New

Single and double-acting, magnetic, cushioned.
Versions: standard, low friction, high and low temperatures. ø 32, 40, 50, 63, 80, 100, 125 mm
Example of assembly with a valve on page 11


Mod. **GY**


Mod. **U**


Mod. **S**


Mod. **R**


Mod. **GKF**


Mod. **GA**


Mod. **ZC**


Mod. **C+L+S**


Mod. **D-E**


Mod. **GK**


Mod. **BF**


Mod. **F**


Mod. **B**


Mod. **H** and **C-H**


Mod. **C** and **C-H**


Mod. **G**


Mod. **L**


Mod. **80-62/8C**


Mod. **F-63**


Mod. **FN**


Mod. **DC-63**

CODING EXAMPLE

63	M	P	2	C	050	A	0200				

63	SERIES	
M	VERSION: M = standard, magnetic - L = low friction, magnetic	
P	CONSTRUCTION: T = round tube - P = profile	
2	OPERATION: 1 = single-acting, front spring 2 = double-acting 6 = double-acting, through-rod 7 = single-acting, through-rod 9 = single-acting, rear spring	PNEUMATIC SYMBOL * CS07 CD08 - CD09 - CD10 - CD11 CD13 CS11 CS14
C	CUSHIONING: N = no cushioning C = cushioning on both sides F = front cushioning R = rear cushioning	 CD08 CD09/CD13 CD11 CD10
050	BORE: 032 = 32 mm - 040 = 40 mm - 050 = 50 mm - 063 = 63 mm - 080 = 80 mm - 100 = 100 mm - 125 = 125 mm	
A	CONSTRUCTIVE TYPE: A = standard with rod nut - RL = cylinder with rod lock - F = cylinder with centre trunnion	
0200	STROKES: 10 ÷ 2500 mm	
	TEMPERATURE RANGE: = standard - W = high temperatures (150°C) - Z = low temperatures (-40°C) - Y = low temperatures (-50°C)	
	RESISTANCE TO CORROSION: = standard (for further details see the Camozzi's catalogue) C1 = rod nut AISI 304 stainless steel, rod AISI 304 stainless steel (for further details see the Camozzi's catalogue)	
	ROD VARIATIONS: = standard - (_ _ _) = rod longer than _ _ _ mm - L = without rod seal (rear supply only) * - R = NBR rod seal - V = FKM rod seal G = dry and dusty environments (with brass rod scraper and chrome-plated stainless steel AISI 420B rod) * The possibility to order the cylinder without piston rod seal, further reduces the friction force.	
	Add EX to order the ATEX certified version.	

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

STANDARD STROKES

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

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

Examples of assembly Series 60, 61, 62, 6PF and 63

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, port G1/8
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 and 63
Mod. **PCV-62-K3** to connect Series 3 valves/solenoid valves, port G1/8
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


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

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 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	

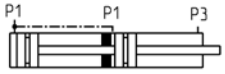
32	M	2	A	040	A	25/75	N

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	

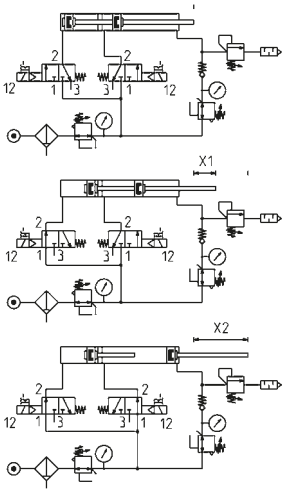
* = The complete list of cylinders pneumatic symbols is available at the end of this chapter

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 - ø 12, 16, 20, 25 mm
For cylinders DIN/ISO 6431 - ø 32, 40, 50, 63, 80, 100 mm

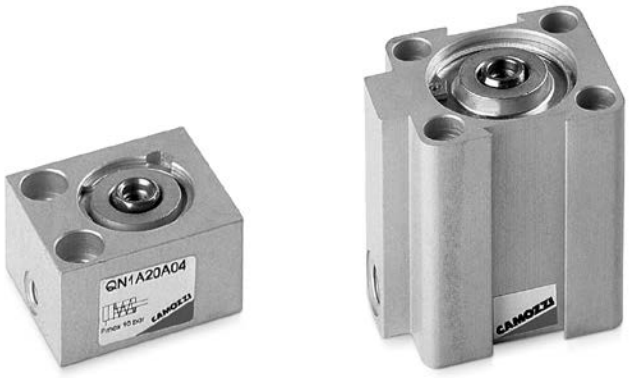
CODING EXAMPLE

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 = ø 12-16 mm (available only in the UT version with “U” self lubricating guide) 020 = 20 mm 025 = 25 mm 032 = 32 mm 040 = 40 mm 050 = 50 mm 063 = 63 mm 080 = 80 mm 100 = 100 mm
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



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

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

New version

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




Mod. **GY**


Mod. **U**


Mod. **GKF**


Mod. **GA**


Mod. **ZC**


Mod. **D-E**


Mod. **GK**


Mod. **I**


Mod. **B**


Mod. **G**


Mod. **L**


Mod. **C**


Mod. **DC**

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

■ = Double-acting female, male
✖ = Non-rotating
● = Single-acting female, male

Ø	5	10	15	20	25	30	40	50	60	80
12	■ ✖ ●	■ ✖ ●	■ ✖	■ ✖	■ ✖	■ ✖	■ ✖			
16	■ ✖ ●	■ ✖ ●	■ ✖ ●	■ ✖ ●	■ ✖ ●	■ ✖	■ ✖			
20	■ ✖ ●	■ ✖ ●	■ ✖ ●	■ ✖ ●	■ ✖ ●	■ ✖	■ ✖	■ ✖		
25	■ ✖ ●	■ ✖ ●	■ ✖ ●	■ ✖ ●	■ ✖ ●	■ ✖	■ ✖	■ ✖		
32	■ ✖ ●	■ ✖ ●	■ ✖ ●	■ ✖ ●	■ ✖ ●	■ ✖	■ ✖	■ ✖		
40	■ ✖ ●	■ ✖ ●	■ ✖ ●	■ ✖ ●	■ ✖ ●	■ ✖	■ ✖	■ ✖	■ ✖	■ ✖
50		■ ✖ ●	■ ✖ ●	■ ✖ ●	■ ✖ ●	■ ✖	■ ✖	■ ✖	■ ✖	■ ✖
63		■ ✖ ●	■ ✖ ●	■ ✖ ●	■ ✖ ●	■ ✖	■ ✖	■ ✖	■ ✖	■ ✖
80		■ ✖ ●	■ ✖ ●	■ ✖ ●	■ ✖ ●	■ ✖	■ ✖	■ ✖	■ ✖	■ ✖
100		■ ✖ ●	■ ✖ ●	■ ✖ ●	■ ✖ ●	■ ✖	■ ✖	■ ✖	■ ✖	■ ✖

Series 31 compact cylinders tandem and multi-position versions

New version

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

Tandem version

Mod. **31F2A...XN**

Multi-position version

Mod. **31F2A...X1/X2N**

CODING EXAMPLES

31	M	2	A	032	A	050	N	2

31	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	

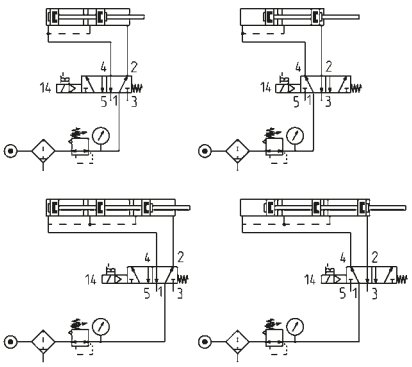
31	M	2	A	032	A	25/100	N

31	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	

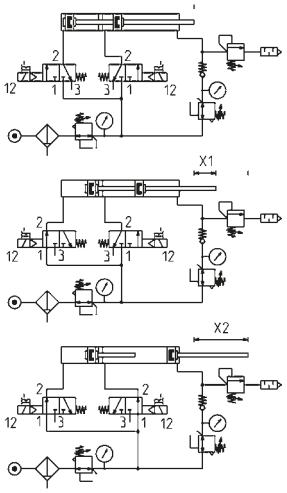
* = The complete list of cylinders pneumatic symbols is available at the end of this chapter

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



Mod. **B**


Mod. **D-E**


Mod. **C-H**


Mod. C**R**


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: ø 16, 20, 25 mm
Series 95: ø 25 mm, cushioned



Mod. **I**


Mod. **G-94/90**


Mod. **E**


Mod. **GA-94/90**


Mod. **B**


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
✖ = Double-acting

Series	Ø	10	25	40	50	80	100	125	160	200	250	300	320	400	500
94	**16**	● ✖	● ✖	● ✖	● ✖	✖	✖	✖	✖	✖					
94	**20**	● ✖	● ✖	● ✖	● ✖	✖	✖	✖	✖	✖	✖	✖			
94	**25**	● ✖	● ✖	● ✖	● ✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖
95	**25**	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖

Series 97 stainless steel cylinders

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


Mod. **B**


Mod. **I**


Mod. **C-H**


Mod. C**R**


Mod. **R**


Mod. **ZCR**


Mod. **G-90**


Mod. **GA-90**


Mod. **U-90**


Mod. **V-97**


Mod. **S-90**


Mod. **SR-90**

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

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 colums for QCTF - hardened steel C50 colums 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

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 ø 6, 10, 16 mm and strokes 5, 10, 15 mm
With super-rapid fitting ø 4 and M5 port

With non threaded piston rod

SIZES Super-rapid fitting incorporated		
Mod.	Ø	STROKE
14N1A06A05	6	5
14N1A06A10	6	10
14N1A06A15	6	15
14N1A10A05	10	5
14N1A10A10	10	10
14N1A10A15	10	15
14N1A16A05	16	5
14N1A16A10	16	10
14N1A16A15	16	15

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

With threaded piston rod

SIZES Super-rapid fitting incorporated		
Mod.	Ø	STROKE
14N1A06B05	6	5
14N1A06B10	6	10
14N1A06B15	6	15
14N1A10B05	10	5
14N1A10B10	10	10
14N1A10B15	10	15
14N1A16B05	16	5
14N1A16B10	16	10
14N1A16B15	16	15

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

CODING EXAMPLE

14	N	1	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 ø 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


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:

	PNEUMATIC SYMBOLS *
1 = single-acting, front spring	CS12
2 = double-acting, front and rear cushions	CD09
3 = double-acting, no cushion	CD08
4 = double-acting, rear cushions	CD10
5 = double-acting, front cushion	CD11
6 = double-acting, through-rod, front and rear cushions	CD13
7 = single-acting, through-rod, no cushions	CS13

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	VERSION: = cushioned 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 — SIZES:

001 = torque force 9 Nm	055 = torque force 597 Nm
003 = torque force 24 Nm	070 = torque force 825 Nm
005 = torque force 50 Nm	100 = torque force 1122 Nm
010 = torque force 100 Nm	150 = torque force 1655 Nm
012 = torque force 120 Nm	250 = torque force 2648 Nm
020 = torque force 200 Nm	400 = torque force 4800 Nm
035 = torque force 370 Nm	

1A — OPERATION:

	PNEUMATIC SYMBOLS *
1A = single-acting, minimum pressure of 4 bar	CD19 / CD21
1B = single-acting, minimum pressure of 5 bar	CD19 / CD21
1C = single-acting, minimum pressure of 5,5 bar	CD19 / CD21
1D = single-acting, minimum pressure of 6 bar	CD19 / CD21
2A = double-acting	CD17

A — ROTATION ANGLE:
A = 90°

F0300 — INTERFACE FOR FLANGE (ISO 5211):
F0300 = F03 flange and 9mm square holes
F0305 = F03 flange holes + F05 flange and 9mm square holes
F0400 = F04 flange and 11mm square holes
F0507 = F05 flange holes + F07 flange and 14mm square holes
F0705 = F07 flange holes + F05 flange and 17mm square holes
F0710 = F07 flange holes + F10 flange and 17mm square holes
F1007 = F10 flange holes + F07 flange and 22mm square holes
F1210 = F12 flange holes + F10 flange and 27mm square holes
F1400 = F14 flange and 36mm square holes
F1600 = F16 flange and 46mm square holes
F2516 = F25 flange + F16 flange and 55mm square holes

A — MATERIALS:
A = standard anodized
C = CNI Kanigen type nickel-plating
W = all FKM seals (130°C)

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: ø 10, 16, 20, 25, 32 mm

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

CODING EXAMPLE

CGA	-	20

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

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

Series CGSN 180° angular grippers

New version

Magnetic
Sizes: ø 16, 20, 25, 32 mm

Mod.
CGSN-16
CGSN-20
CGSN-25
CGSN-32

CODING EXAMPLE

CGSN	-	20

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

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

Series CGP parallel grippers

Magnetic
Sizes: ø 10, 16, 20, 25, 32 mm

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

CODING EXAMPLE

CGP	-	20

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

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

Accessories

Mounting brackets
Mod.
L-CGP-16
L-CGP-20
L-CGP-25
L-CGP-32

Mounting brackets
Mod.
C-CGP-16
C-CGP-20
C-CGP-25
C-CGP-32

Series CGPT self-centering parallel grippers with T-guide

New

Single and double acting, magnetic, self-centering
Bores: ø 16, 20, 25, 32, 40 mm

Mod.

CGPT-16	CGPT-20-NO	CGPT-32-NC
CGPT-16-NC	CGPT-25	CGPT-32-NO
CGPT-16-NO	CGPT-25-NC	CGPT-40
CGPT-20	CGPT-25-NO	CGPT-40-NC
CGPT-20-NC	CGPT-32	CGPT-40-NO

CODING EXAMPLE

CGPT	-	16	-	NC	-	W	EX

CGPT — SERIES

16 — BORES:
10 = ø 10 mm
16 = ø 16 mm
20 = ø 20 mm
25 = ø 25 mm
32 = ø 32 mm
40 = ø 40 mm

NC — FUNCTIONING: (PNEUMATIC SYMBOL *)
= double acting — PNZ1
NO = single acting, normally open — PNZ3
NC = single acting, normally closed — PNZ2

W — VERSION:
= standard
W = high temperatures (150 °C) - not magnetic

EX — Add EX to order the certified ATEX version

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

Series CGPS self-centering parallel grippers with double ball bearing guide

New

Single and double acting, magnetic, self-centering
Bores: ø 10, 16, 20, 25, 32 mm

Mod.

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

CODING EXAMPLE

CGPS	-	L	-	16	-	NO	-	W	EX

CGPS — SERIES

L — DESIGN TYPE:
L = Long finger
F = Flat finger

16 — BORES:
10 = ø 10 mm
16 = ø 16 mm
20 = ø 20 mm
25 = ø 25 mm
32 = ø 32 mm

NO — FUNCTIONING: (PNEUMATIC SYMBOL *)
= double acting — PNZ1
NO = single acting, normally open — PNZ3
NC = single acting, normally closed — PNZ2

W — VERSION:
= standard
W = high temperatures (150°C)

EX — Add EX to order the certified ATEX version

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

Series CGLN
wide opening parallel grippers

New version

Sizes: ø 10, 16, 20, 25, 32 mm

Mod.

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

CODING EXAMPLE

CGLN	-	20	-	040

CGLN	SERIES	PNEUMATIC SYMBOL * PNZ1
20	SIZES: 10 = ø 10 mm 16 = ø 16 mm 20 = ø 20 mm 25 = ø 25 mm 32 = ø 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

Mod.

CGC-050	**CGC-100**
CGC-064	**CGC-125**
CGC-080	

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

Series RPGA sprue grippers - Size 20 mm

New version

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 = ø 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 8, 12 mm

New version

Angular, not self-centering, single-acting, Normally Open (NO)
Models: Flat Finger, Short Finger, Flat Finger with sensor

Mod.
RPGB-08-A **RPGB-12-A**
RPGB-08-C **RPGB-12-C**
RPGB-08-D **RPGB-12-D**

CODING EXAMPLE

RPGB	-	12	-	A

RPGB	SERIES	PNEUMATIC SYMBOL * PNZ2
12	SIZE: 08 = ø 8 mm 12 = ø 12 mm	
A	TYPE OF CONSTRUCTION: A = Flat finger C = Short finger with holes for extra jaws D = Flat finger with sensor mounted (Mod. CSD-362)	

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

Accessories for Series RPGB

Series CSD magnetic proximity switches with 3-wire cable
Length cable 2 m
Mod. **CSD-332**

Series CSD magnetic proximity switches with male connector M8
Length cable 0,3 m
Mod.
CSD-362

Extension with connector M8, 3 Pin Male / Female
Non shielded
Mod.
CS-DW03HB-C250
CS-DW03HB-C500

Circular connectors M8, 3 Pin Female
With PU sheathing, non shielded cable
Protection class IP65
Mod.
CS-2
CS-5
CS-10

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

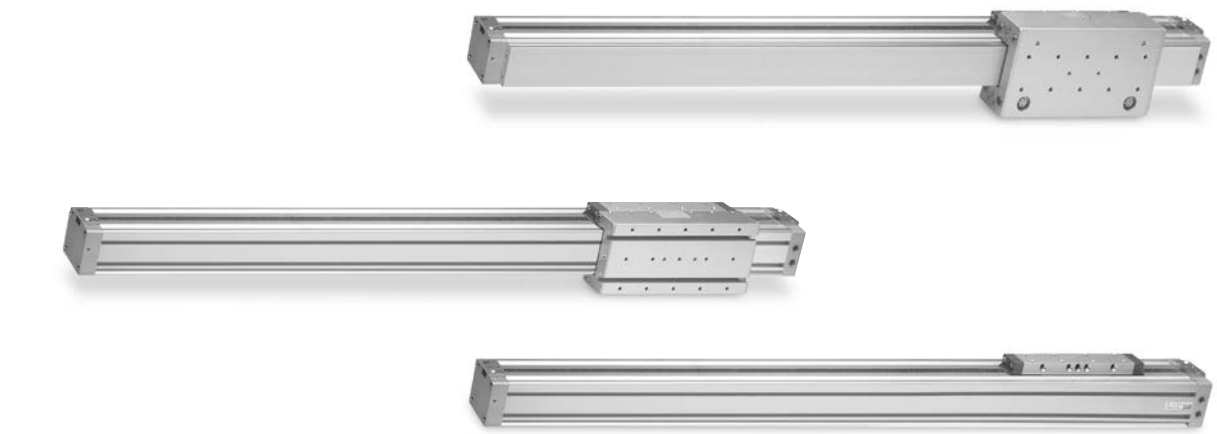
50	M	2	P	50	A	0500

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




Mod. **B-52**

Mod. **BA-52**

Mod. **BH** and **BL-52-32**

Mod. **CF-52**

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

Magnetic proximity switches

Reed - Magnetoresistive - Hall effect

Mod.
CST-220 **CSV-232**
CSV-220 **CST-332**
CST-220-5 **CSV-332**
CST-232 **CST-532**

Mod.
CST-250N **CST-362**
CSV-250 **CSV-362**
CST-262 **CST-562**
CSV-262

Mod.
CSH-223-2 **CSH-233-2**
CSH-223-5 **CSH-233-5**
CSH-221-2 **CSH-334-2**
CSH-221-5 **CSH-334-5**

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

Mod.
CSD-362

Mod.
CSB-D-220

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

Mod.
CSC-D-220

SERIES CST, CSV, CSH CODING EXAMPLE

CS	T	-	2	2	0	N	-	5

CS	SERIES
T	SLOT TYPE: T = T-slot - V = V-slot - H = H-slot
2	OPERATION: 2 = Reed NO 3 = Magnetoresistive 4 = Reed NC 5 = Hall effect
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 (CST/CSV-250N only): N = according to norm
5	LENGTH OF THE CABLE: = 2m (CST and CSV only) - 2 = 2m (CSH only) - 5 = 5m

SERIES CSB, CSC, CSD CODING EXAMPLE

CS	B	-	D	-	2	2	0	-	

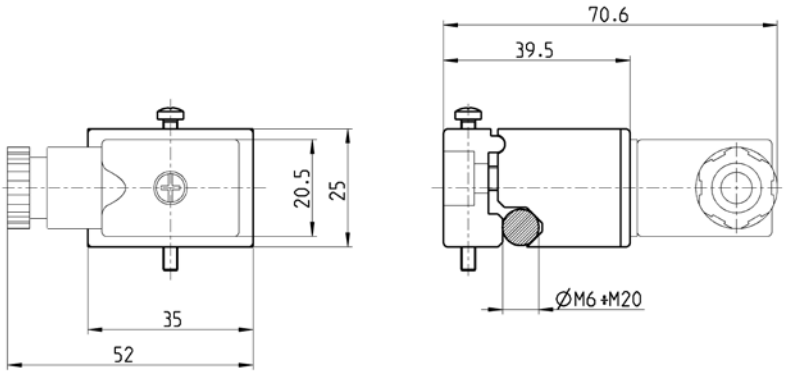
CS	SERIES
B	TYPE OF SLOT: B = B-slot - C = C-slot - D = D-slot
D	CABLE OUTPUT: D = straight - H = 90°
2	OPERATION: 2 = Reed NC (CSB, CSC only) - 3 = Magnetoresistive (CSD only)
2	CONNECTIONS: 2 = 2 wires (CSB, CSC only) - 3 = 3 wires (CSD only) - 6 = 3 wires with M8 connector (CSD only)
0	POWER SUPPLY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

Series CSN proximity switches

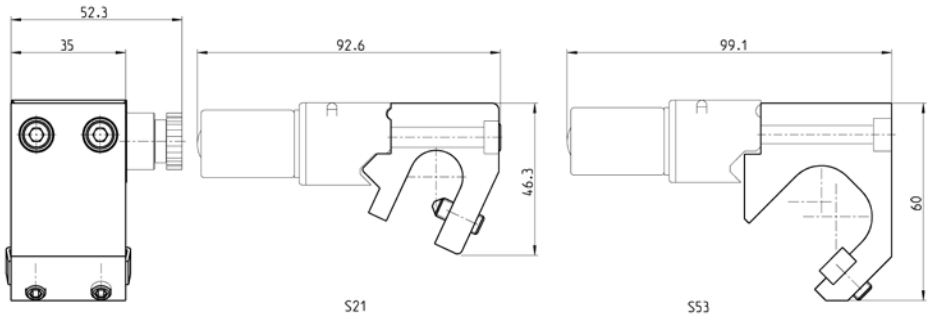
Reed switch

Switches Series CSN

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

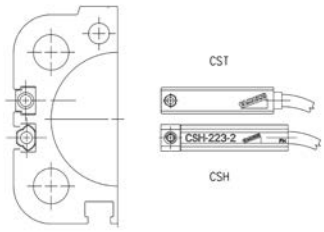


Mounting bracket for sensor Mod. CSN 2032-0
Mod. **S21** for cylinders Series 40 ø 160 and 200
Mod. **S53** for cylinders Series 41 ø 160 and 200

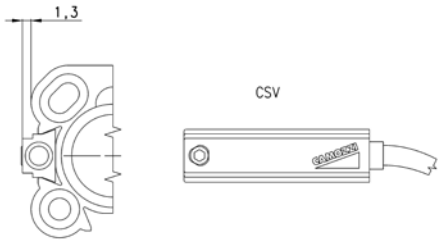


Fixing of proximity switches *

CST/CSH proximity switches can be directly mounted on the following cylinders:
Series 31 - 31R
Series 32 - 32R
Series 52
Series 61
Series 62 (CSH only)
Series 63 (CSH only)
Series 69
Series 6PF
Serie QC - QCBF - QCTF



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



ACCESSORIES

Extension with 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)

Three-wire 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
Series 45NHT or 45NHB
Mod. **S-CST-45N1**
S-CST-45N2

Slot cover profile
Supplied with 500 mm tube
Slot cover profile for cylinders:
Series 31 - 31 tandem and multi-position
Series 32 - 32 tandem and multi-position
Series QCT - QCB - QCBT - QCBF
Series 61, 62, 63
Series 69
Series 6E, 5E
Mod. **S-CST-500**

* Further information in the TABLE SHOWING THE USE OF CAMOZZI MAGNETIC PROXIMITY SWITCHES on page 39

TABLES FOR THE USE OF SENSORS

Table 1: mounting of sensors on cylinders

Series	Ø	CST - CSH	CSV	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		
	100	Direct mounting		
40	160	S-CST-28		S21
	200	S-CST-28		S21
	250			Direct mounting
	320			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		

Table 2: mounting of sensors on cylinders

Series	Ø	CST - CSH
61	32	Direct mounting
	40	Direct mounting
	50	Direct mounting
	63	Direct mounting
	80	Direct mounting
	100	Direct mounting
	125	Direct mounting
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)
63...P	32	Direct mounting (CSH only)
	40	Direct mounting (CSH only)
	50	Direct mounting (CSH only)
	63	Direct mounting (CSH only)
	80	Direct mounting (CSH only)
	100	Direct mounting (CSH only)
	125	Direct mounting (CSH only)
63...T	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
69	32	Direct mounting
	40	Direct mounting
	50	Direct mounting
	63	Direct mounting
	80	Direct mounting
	100	Direct mounting
	125	Direct mounting
6PF	50	Direct mounting
	63	Direct mounting
	80	Direct mounting
	100	Direct mounting
	125	Direct mounting
90	32	S-CST-06
	40	S-CST-07
	50	S-CST-08
	63	S-CST-09
	80	S-CST-10
	100	S-CST-11
	125	S-CST-12
94	16	S-CST-05
	20	S-CST-05
	25	S-CST-05
95	16	S-CST-05
	20	S-CST-05
	25	S-CST-06
97	32	S-CST-06
	40	S-CST-07
	50	S-CST-08
	63	S-CST-09

TABLES FOR THE USE OF SENSORS

Table 3: mounting of sensors on cylinders

Series	Ø	CST - CSH	CSV	CSC-D/CSC-H
QC	20	Direct mounting		
	25	Direct mounting		
	32	Direct mounting		
	40	Direct mounting		
	50	Direct mounting		
	63	Direct mounting		
QCBF	20	Direct mounting		
	25	Direct mounting		
	32	Direct mounting		
	40	Direct mounting		
QCTF	20	Direct mounting		
	25	Direct mounting		
	32	Direct mounting		
	40	Direct mounting		
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		
QX	10			Direct mounting
	16			Direct mounting
	20			Direct mounting
	25			Direct mounting
	32			Direct mounting
ST	20	Direct mounting		
	32	Direct mounting		
	40	Direct mounting		
	50	Direct mounting		

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

Series	Ø	CST - CSH	CSB-D/CSB-H	CSC-D/CSC-H	CSD-D / CSD-H
CGA	10		Direct mounting		
	16		Direct mounting		
	20		Direct mounting		
	25		Direct mounting		
	32		Direct mounting		
CGC	50		Direct mounting (CSB-D-220 only)		
	64		Direct mounting (CSB-D-220 only)		
	80		Direct mounting (CSB-D-220 only)		
	100		Direct mounting (CSB-D-220 only)		
	125		Direct mounting (CSB-D-220 only)		
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		
CGPS	10				Direct mounting
	16				Direct mounting
	20				Direct mounting
	25				Direct mounting
	32				Direct mounting
CGPT	16				Direct mounting
	20				Direct mounting
	25				Direct mounting
	32				Direct mounting
	40				Direct mounting
CGSN	16			Direct mounting	Direct mounting
	20			Direct mounting	Direct mounting
	25			Direct mounting	Direct mounting
	32			Direct mounting	Direct mounting
RPGB	8				Direct mounting
	12				Direct mounting
Electromechanical axis*					
5E	50	Direct mounting (CSH only)			
	65	Direct mounting (CSH only)			
	80	Direct mounting (CSH only)			
Electromechanical cylinders*					
6E	32	Direct mounting			
	40	Direct mounting			
	50	Direct mounting			
	63	Direct mounting			

* Further details about Series 5E electromechanical axis and Series 6E electromechanical cylinders can be found in the C_Electrics catalogue which is also available on the Camozzi website www.camozzi.com within the section Products & Solutions › C_Electrics

Series 43 hydrochecks

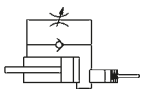
Bore ø 40 mm
Regulated thrust or return stroke
Skip-Stop function

CODING EXAMPLE

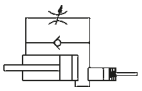
43	N	-	P	S	0	-	40	-	200

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)

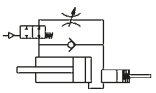
Pneumatic symbols and PART codes



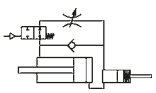
Mod. **43N-LT0-40-050**
43N-LT0-40-100
43N-LT0-40-150
43N-LT0-40-200
43N-PT0-40-050
43N-PT0-40-100
43N-PT0-40-150
43N-PT0-40-200



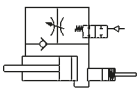
Mod. **43N-PS0-40-050**
43N-PS0-40-100
43N-PS0-40-150
43N-PS0-40-200



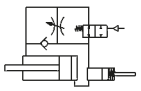
Mod. **43N-LTV-40-050**
43N-LTV-40-100
43N-LTV-40-150
43N-LTV-40-200
43N-PTV-40-050
43N-PTV-40-100
43N-PTV-40-150
43N-PTV-40-200



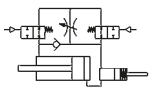
Mod. **43N-PSV-40-050**
43N-PSV-40-100
43N-PSV-40-150
43N-PSV-40-200



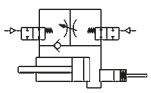
Mod. **43N-LTA-40-050**
43N-LTA-40-100
43N-LTA-40-150
43N-LTA-40-200
43N-PTA-40-050
43N-PTA-40-100
43N-PTA-40-150
43N-PTA-40-200



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

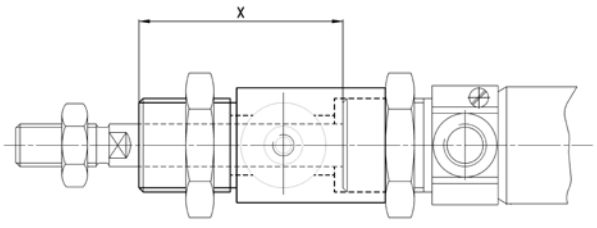
RLC	-	41	-	32

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

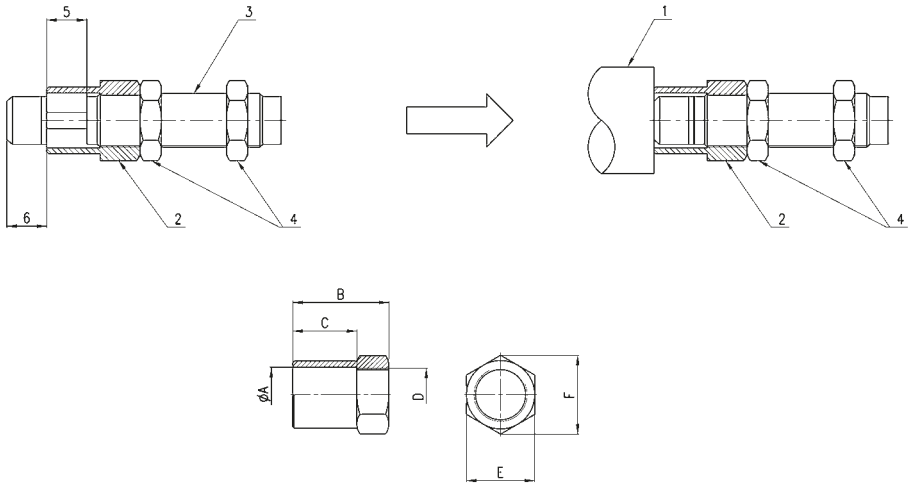
SA	-	2015	

SA	SERIES
2015	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 M25x 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

Series 6E electromechanical cylinders

New

ISO 15552
Sizes 32, 40, 50 and 63


Mod. **GY**


Mod. **U**


Mod. **S**


Mod. **R**


Mod. **GKF**


Mod. **GA**


Mod. **ZC**


Mod. **C+L+S**


Mod. **D-E**


Mod. **GK**


Mod. **B-6E**


Mod. **C** and **C-H**


Mod. **G**


Mod. **L**


Mod. **BG-6E**


Mod. **CM-6E**


Mod. **FM-6E**


Mod. **AM-6E**


Mod. **PM-6E**

CODING EXAMPLE

6E	032	BS	0200	P05	A	

6E	SERIES
032	SIZE: 032 = 32 mm 040 = 40 mm 050 = 50 mm 063 = 63 mm
BS	DESIGN: BS = recirculating ball screw
0200	STROKE: 100 ÷ 1200 mm
P05	SCREW PITCH: P05 = 5 mm P10 = 10 mm P16 = 16 mm (for size 40 only) P20 = 20 mm (for size 50 only) P25 = 25 mm (for size 63 only)
A	CONSTRUCTION: A = standard with rod nut
	VERSION: = standard (_ _ _) = extended piston rod _ _ _ mm

STANDARD STROKES

Size	100	200	300	400	500	600	700	800	900	1000	1100	1200
32	✖	✖	✖	✖	✖							
40	✖	✖	✖	✖	✖	✖	✖					
50	✖	✖	✖	✖	✖	✖		✖		✖		
63	✖	✖	✖	✖	✖			✖		✖		✖

Series 5E electromechanical axis

New

Sizes 50, 65, 80


Mod. **BGS-5E**


Mod. **BGA-5E**


Mod. **XY-S..-S..**


Mod. **XY-S..-P..**


Mod. **XY-S..-P..-T**


Mod. **XY-S..-6E**


Mod. **XY-S..-LL**


Mod. **XY-S..-LR**


Mod. **X-P..**


Mod. **XY-S..-45N**


Mod. **SIS-M**


Mod. **FR-5E**


Mod. **FRH-5E**


Mod. **FS-5E**


Mod. **PCV-5E-CS-M**


Mod. **PCV-5E-C6-M4Q**


Mod. **PCV-5E-C6-M4R**


Mod. **PCV-5E-C8-M**


Mod. **PS-5E**

CODING EXAMPLE

5E	S	050	TBL	0200	A	S	1

5E	SERIES
S	PROFILE: S = square section
050	FRAME SIZE: 050 = 50x50 mm 065 = 65x65 mm 080 = 80x80 mm
TBL	TRANSMISSION: TBL = toothed belt
0200	TOTAL STROKE [TS]: 0050 ÷ 4000 mm for size 050 0050 ÷ 6000 mm for sizes 065 and 080
A	VERSION: A = standard
S	TYPE OF SLIDER: S = standard
1	NUMBER OF SLIDERS: 1 = 1 slider

Series DRWB drivers for the control of electric actuation

New

Driver for Brushless motors,
sizes in power classes 100, 400 and 750 W

CODING EXAMPLE

DRWB	-	W01	-	2	-	D	-	E	-	A

DRWB	SERIES
W01	SIZE W: W01 = 100 W - W04 = 400 W - W07 = 750 W
2	SUPPLY: 2 = 220 V AC
D	COMMUNICATION: D = Digital I/O and Analog
E	FEEDBACK: E = incremental encoder 13 bit
A	VERSIONS: A = Standard

Series DRWS drivers for the control of electric actuation

New

Driver for Stepper motors,
one size/version

CODING EXAMPLE

DRWS	-	A05	-	8	-	D	-	0	-	A

DRWS	SERIES
A05	MAX SIZE A: A05 = 5 A
8	SUPPLY: 8 = 24V - 48V DC
D	COMMUNICATION: D = Digital I/O and Analog
0	FEEDBACK: 0 = no Feedback
A	VERSIONS: A = Standard

Series MTB motors for electric actuation

New

Brushless motors in power classes 100, 400 and 750 W



CODING EXAMPLE

MTB	-	010	-	2	-	0	-	E

MTB	SERIES
010	POWER: 010 = 100 W 040 = 400 W 075 = 750 W
2	SUPPLY: 2 = 220 V DC
0	BRAKE: 0 = without brake F = with brake
E	ENCODER: E = standard 13 bit

Series MTS motors for electric actuation

New

Stepper motors with Nema 23 or 24 fixing flange



CODING EXAMPLE

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

MTS	SERIES
23	MOTOR SIZE FLANGE CONNECTION: 23 = Nema 23 24 = Nema 24
18	RESOLUTION IN DEGREES PER REVOLUTION: 18 = 1.8° per step
060	TORQUE: 060 = 0.6 Nm with Nema 23 only 250 = 2.5 Nm with Nema 24 only
0	ELECTRICAL CONNECTION: 0 = connector
0	BRAKE: 0 = without brake
S	ENCODER VARIANTS: S = single shaft without encoder
C	MECHANICAL SHAFT VARIANTS: C = cylindrical shaft

Series GB planetary gearboxes

New

Available sizes: 40, 60 and 80

CODING EXAMPLE

GB	-	040	-	03	-	D	-	0100

GB	SERIES
040	SIZE: 040 = ø 40 mm 060 = ø 60 mm 080 = ø 80 mm
03	REDUCTION RATIO: 03 i = 3 05 i = 5 07 i = 7 10 i = 10
D	TYPE: D = straight A = angular
0100	PREPARATION OF THE MOTOR: 0100 = Brushless 100W (size 040 mm only) 0400 = Brushless 400W (size 060 mm only) 0750 = Brushless 750W (size 080 mm only) 0024 = Nema 24

Series CO motion transmission devices

New

Mod. COE: elastomer coupling with clamps
Mod. COS: elastomer coupling with expansion shaft
Mod. COT: self-centering locking-set

Mod.
COE-05-0800-0635-A
COE-05-0800-0800-A
COE-05-1000-0635-A
COE-05-1200-0800-A
COE-10-1000-1400-A
COE-10-1200-1400-A
COE-10-1500-0800-A
COE-20-1500-1900-A

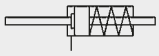
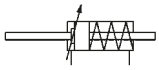
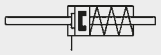
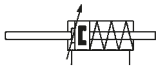
Mod.
COS-10-2000-1400-A
COS-10-2000-0800-A
COE-20-2600-2000-A
COE-60-3800-2500-A

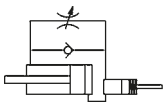
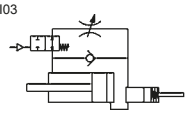
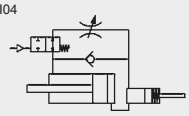
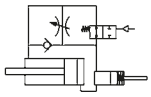
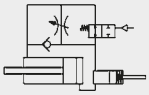
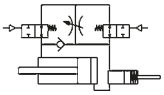
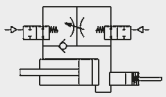
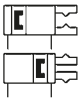
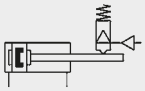
Mod.
COT-2000-1000
COT-2600-1400
COT-3800-2000

Pneumatic symbols for cylinders

Symbol	Type
CD01	Double-acting cylinder, fixed cushions
CD02	Double-acting cylinder, cushioned
CD03	Double-acting cylinder, adjustable rear cushion
CD04	Double-acting cylinder, adjustable front cushion
CD05	Double-acting cylinder, through-rod, fixed cushions
CD06	Double-acting cylinder, through-rod, adjustable front and rear cushion
CD07	Double-acting cylinder, magnetic
CD08	Double-acting cylinder, magnetic, fixed cushions
CD09	Double-acting cylinder, magnetic, adjustable cushions in both directions
CD10	Double-acting cylinder, magnetic, adjustable rear cushion
CD11	Double-acting cylinder, magnetic, adjustable front cushion
CD12	Double-acting cylinder, magnetic, through-rod, fixed cushions
CD13	Double-acting cylinder, magnetic, through-rod, adjustable cushions in both directions
CD14	Double-acting cylinder, magnetic, through-rod

Symbol	Type
CD15	Magnetic twin rod cylinders
CD16	Magnetic twin through-rod cylinders
CD17	Double-acting rotary cylinder
CD18	Double-acting rotary cylinder, magnetic
CD19	Single-acting rotary cylinder
CD2T	Magnetic tandem cylinder, two stages, fixed cushions single rear supply, sole front supply
CD3T	Magnetic tandem cylinder, three stages, fixed cushions single rear supply, sole front supply
CD4T	Magnetic tandem cylinder, four stages, fixed cushions single rear supply, sole front supply
CD5T	Magnetic tandem cylinder, two stages, fixed cushions, separated rear supplies, sole front supply
CD6T	Magnetic tandem cylinder, three stages, fixed cushions, single rear supplies, sole front supply
CD7T	Magnetic tandem cylinder, two stages, fixed cushions, single rear supplies, sole front supply
CD8T	Magnetic tandem cylinder, two stages, fixed cushions, separated rear and front supplies
CD9T	Non magnetic tandem cylinder, two stages, fixed cushions, separated rear and front supplies
CDPP	Magnetic multi-position cylinder, fixed cushions

Symbol	Type
CDSS 	Double-acting rodless cylinder, magnetic
CS01 	Single-acting cylinder, front spring
CS02 	Single-acting cylinder, front spring
CS03 	Single-acting cylinder, non cushioned
CS04 	Single-acting cylinder, through-rod
CS05 	Single-acting cylinder, through-rod, adjustable cushion
CS06 	Single-acting cylinder, magnetic
CS07 	Single-acting cylinder, front spring, adjustable rear cushion
CS08 	Single-acting cylinder, rear spring, magnetic
CS09 	Single-acting cylinder, magnetic, front spring
CS10 	Single-acting cylinder, through-rod
CS11 	Single-acting cylinder, through-rod, adjustable rear cushion
CS12 	Single-acting cylinder, front spring, adjustable rear cushion
CS13 	Single-acting cylinder, through-rod, adjustable rear cushion

Symbol	Type
CS14 	Single-acting, rear spring
HI01 	Hydrocheck, regulated rod thrust
HI02 	Hydrocheck, regulated rod return
HI03 	Hydrocheck, regulated rod thrust with stop valve
HI04 	Hydrocheck, regulated rod return with stop valve
HI05 	Hydrocheck, regulated rod thrust with skip valve
HI06 	Hydrocheck, regulated rod return with skip valve
HI07 	Hydrocheck, regulated rod thrust with skip and stop valve
HI08 	Hydrocheck, regulated rod return with skip and stop valve
PNZ1 	Double-acting magnetic gripper
PNZ2 	Single-acting, NC, magnetic gripper
PNZ3 	Single-acting, NO, magnetic gripper
RDLK 	Rod lock device

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

Includes News

Solenoid valves / pneumatic valves

Valve islands

Mechanical / manual valves

Logic valves

Automatic valves

Flow control valves

Pressure switches and vacuum switches

Silencers

Proportional technology

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 70

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 = ø 0,5 mm (working pressure 1 ÷ 7 bar) 6 = ø 0.5 mm (working pressure -1 ÷ 4 bar) 5 = ø 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 70

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 = ø 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)

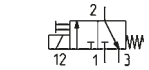
Body with threaded ports, 3/2-way NC and NO
Supplied with:
1x connector with flying leads Mod. 120-J803 (300mm)
Mod. **K8BC3403-D431N-N001B***
K8BC3503-D431N-N001B*
* = enter the required voltage
(see the CODING EXAMPLE)

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)

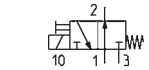
Body for sub-base, 3/2-way NC and NO
Supplied with:
1x connector with flying leads Mod. 120-J803 (300mm)
3x interface seals
2x screws M3x6 UNI 5931 (for M version)
or
2x screws M3x6 UNI 10227 (for P version)
Mod. **K8BC0419-D431N-*001B****
K8BC0519-D431N-*001B**
* = enter the type of screws
** = enter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

Series K directly operated solenoid valves - 10 mm

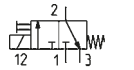
3/2-way, normally closed (NC) and normally open (NO)
The solenoid valves can be mounted on a single base (with M5 ports) as well as on manifolds (with M5 ports)
For detailed information about suitable accessories, see page 70



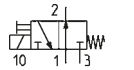
Mod. **K000-303-K13**
K000-303-K23
K000-303-K33



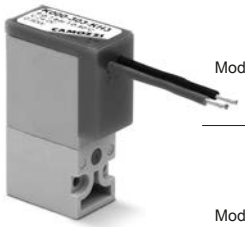
Mod. **K000-403-K13**
K000-403-K23
K000-403-K33

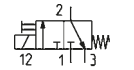


Mod. **K000-303-KB3**
K000-303-KC3
K000-303-KD3

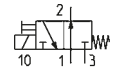


Mod. **K000-403-KB3**
K000-403-KC3
K000-403-KD3





Mod. **K000-303-KF3**
K000-303-KG3
K000-303-KH3



Mod. **K000-403-KF3**
K000-403-KG3
K000-403-KH3

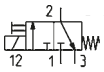
CODING EXAMPLE

K	0	00	-	3	0	3	-	K	2	3	

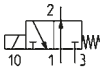
K	SERIES
0	BODY DESIGN: 0 = single sub-base (only M5) or interface 1 = manifold
00	NUMBER OF POSITIONS: 00 = interface 01 = single base (only M5) 02 ÷ 99 = manifold number of positions
3	NUMBER OF WAYS - FUNCTIONS: 0 = manifold or single base 3 = 3-way NC 4 = 3-way NO 5 = 3-way NC electric part revolved by 180° 6 = 3-way NO electric part revolved by 180°
0	PORTS: 0 = interface 2 = M5 side outlets
3	NOMINAL DIAMETER: 3 = ø 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 and KN High Flow directly operated solenoid valves - 10 mm

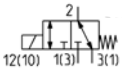
3/2-way - Normally Closed (NC) and Normally Open (NO)
3/2-way - Universal (UNI)



Mod. **KN000-303-K1***
KN000-303-F1*
KN000-305-F1*
KN000-306-F1*

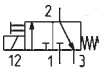


Mod. **KN000-403-F1***

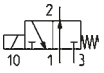


Mod. **KN000-706-F1***

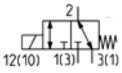
* add VOLTAGE - POWER CONSUMPTION (see CODING EXAMPLE)



Mod. **KN000-303-K1***
KN000-303-F1*
KN000-305-F1*
KN000-306-F1*



Mod. **KN000-403-F1***



Mod. **KN000-706-F1***

* add VOLTAGE - POWER CONSUMPTION (see CODING EXAMPLE)

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 4 = 3/2-way NO 7 = 3/2-way UNI
0	PORTS: 0 = single valve
3	NOMINAL DIAMETER / MAX PRESSURE: 3 = ø 0.65 mm 5 = ø 1.1 mm - max pressure 7 bar 6 = ø 1.1 mm - max pressure 3 bar
K	MATERIALS: F = PBT body, FKM poppet seal, FKM other seals K = PBT body, FKM poppet seal, NBR other seals
1	ELECTRICAL CONNECTION: 1 = 90° connection with protection and led B = in-line connection with protection and led
3	VOLTAGE - POWER CONSUMPTION: 2 = 12 V DC - 1.3/0.25 W 3 = 24 V DC - 1.3/0.25 W 5 = 5 V DC - 4/1 W 6 = 6 V DC - 4/1 W 7 = 12 V DC - 4/1 W 8 = 24 V DC - 4/1 W
	FIXING: = with screws for mounting on plastics M = with screws for mounting on metal

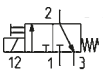
Accessories

Single sub-base
Note: use solenoid valves with mounting screws on metal interfaces
Mod. **KN01-02**

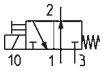
Connector Mod. 121-8..
Mod. **121-803**
121-806
121-810
121-830

Series W directly operated solenoid valves - 15 mm

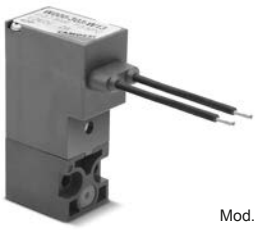
3/2-way, normally closed (NC) and normally open (NO). Monostable. The solenoid valves can be mounted on a single base (with M5 ports) as well as on manifolds (with M5 ports or cartridge ø 3 and 4)
For detailed information about suitable accessories, see page 70

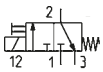


Mod. **W000-305-W23**
W000-303-W23
W000-305-W24
W000-303-W24

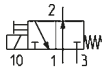


Mod. **W000-405-W23**
W000-403-W23
W000-405-W24
W000-403-W24





Mod. **W000-305-W13**
W000-303-W13



Mod. **W000-405-W13**
W000-403-W13

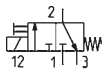
CODING EXAMPLE

W	0	00	-	3	0	3	-	W	2	3	

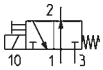
W	SERIES
0	BODY DESIGN: 0 = single sub-base (only M5) or interface 1 = single manifold 2 = double manifold
00	NUMBER OF POSITIONS: 00 = interface 01 = single base (M5 only) 02 ÷ 99 = manifold number of positions
3	NUMBER OF WAYS - FUNCTIONS: 0 = manifold or single sub-base 3 = 3-way NC - 4 = 3-way NO 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 ø 3 side 4 = tube ø 4 side 6 = M5 rear ports 7 = ø 3 tube rear ports 8 = ø 4 tube rear ports
3	NOMINAL DIAMETER - MAX PRESSURE: 1 = ø 0,8 (1W) 10 bar (NC) 24V only 3 = ø 1,5 (2W) 7 bar (NC) 5 bar (NO) 5 = ø 1,1 NC (2W) 10 bar (NC) ø 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: 2 = 12 V DC 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 ø 3 and 4)
For detailed information about suitable accessories, see page 70



Mod. **P000-301-P53**
P000-303-P53
P000-305-P53
P000-306-P53



Mod. **P000-405-P53**
P000-403-P53

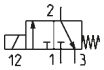
CODING EXAMPLE

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 = ø 3 tube side port 4 = ø 4 tube side port 6 = M5 rear ports 7 = ø 3 tube rear ports 8 = ø 4 tube rear ports
3	NOMINAL DIAMETER - MAX PRESSURE 1 = ø 0,8 (1W) 10 bar (NC) 24V only 3 = ø 1,5 (2W) 7 bar (NC) 5 bar (NO) 5 = ø 1,1 NC (2W) 10 bar (NC) ø 0,9 NO (2W) 10 bar (NO) 6 = ø 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 2 = 12 V DC 6 = 110V DC C = 48V 50/60 Hz 3 = 24V DC D = 110V 50/60 Hz 4 = 48V DC
	FIXING: = with screws for metal (standard) P = with screws for plastics

Series PL directly operated solenoid valves - 15 mm

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 ø 3 and 4)
For detailed information about suitable accessories, see page 70



Mod. **PL000-303-PL23**
PL000-503-PL23
PL000-306-PL23
PL000-506-PL23

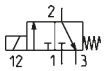
CODING EXAMPLE

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 = ø 3 tube side port 4 = ø 4 tube side port 6 = M5 rear ports 7 = ø 3 tube rear ports 8 = ø 4 tube rear ports
3	NOMINAL DIAMETER 3 = ø 1,5 6 = ø 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

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)
For detailed information about suitable accessories, see page 70



Mod. **PN000-301-P53**

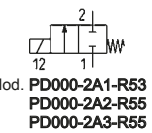
CODING EXAMPLE

PN	0	00	-	3	0	1	-	P	5	3	

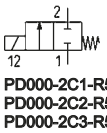
PN	SERIES
0	BODY DESIGN: 0 = single sub-base 1 = single manifold 2 = double sided manifold
00	NUMBER OF POSITIONS: 00 = interface 01 = single base (M5 only) 02 ÷ 99 = manifold number of positions
3	NUMBER OF WAYS - FUNCTIONS: 0 = manifold or single base 3 = 3-way NC
0	VALVE PORTS: 0 = interface (for single valve only) MANIFOLD PORTS (for Series W, P and PN): 2 = M5 side port 3 = ø 3 tube side port 4 = ø 4 tube side port 6 = M5 rear ports 7 = ø 3 tube rear ports 8 = ø 4 tube rear ports
1	NOMINAL DIAMETER - MAX PRESSURE 1 = ø 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

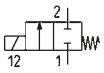
2/2-way
Normally closed (NC)
For detailed information about suitable accessories, see page 70



Mod. **PD000-2A1-R53**
PD000-2A2-R55
PD000-2A3-R55
PD000-2A4-R58
PD000-2A5-R58



Mod. **PD000-2C1-R53**
PD000-2C2-R55
PD000-2C3-R55
PD000-2C4-R58
PD000-2C5-R58



Mod. **PD000-2E1-R53**
PD000-2E2-R55
PD000-2E3-R55

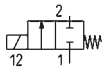
CODING EXAMPLE

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 70



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

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

CODING EXAMPLE

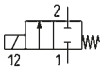
PDV	C0	1	22	-	B7	3	G	N	-	M	00	4A	C023

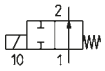
PDV	SERIES
C0	BODY DESIGN: 0 = body with interface for subbase
1	NUMBER OF WAYS - FUNCTIONS: 1 = 2/2-way NC
22	PNEUMATIC CONNECTIONS: 22 = PDV-type interface, 2-way
B7	NOMINAL DIAMETER: A7 = ø 0.8 mm B3 = ø 1.2 mm B7 = ø 1.6 mm C1 = ø 2.0 mm
3	SEAL MATERIAL: 3 = FKM 4 = EPDM 5 = FFKM
G	BODY MATERIAL: 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

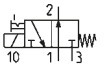
Series A directly operated solenoid valves - 22 mm

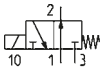
2/2-way, 3/2-way
Normally closed (NC) and normally open (NO). Monostable - bistable (with magnetic memory).
Ports: M5, G1/8. Cartridge ø 4

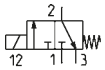

* = choose the most suitable solenoid (see the coding example)
Note: For the use of NO valves in line, use the coil model U771 or U7K1 or G771 or G7K1


Mod. **A321-0C2-***
A321-1C2-*
A321-1D2-*
A321-1E2-*

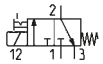

Mod. **A322-0C2-***
A322-1C2-*

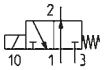

Mod. **A332-0C2-***
A332-1C2-*


Mod. **A333-0C2-***
A333-1C2-*

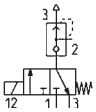

Mod. **A331-0C2-***
A331-1C2-*

* = 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

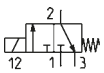

Mod. **AA31-0C2-***
AA31-CC2-*
AA31-0C3-*
AA31-CC3-*

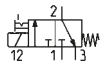

Mod. **AA33-0C2-***
AA33-CC2-*
AA33-0C3-*
AA33-CC3-*

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

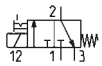

Mod. **A431-1C2-***

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

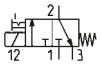

Mod. **A331-3C2-***


Mod. **A331-4C2-***

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


Mod. **A631-AC2-***

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


Mod. **A531-BC2-***

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

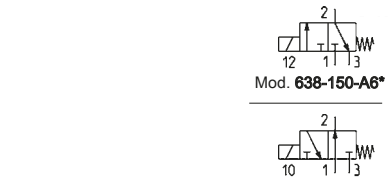
7 SOLENOID VOLTAGE:

		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	-	-	-

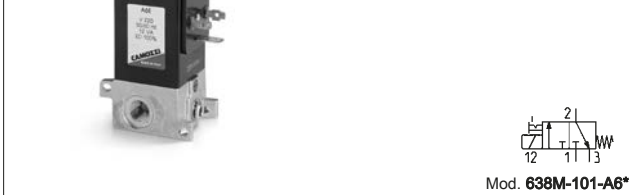
* = only for valves NO in-line
** = substitute 0 with letter or number at the beginning of the line

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 70

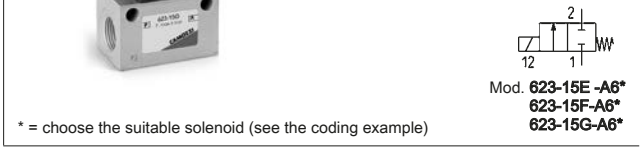


* = choose the suitable solenoid (see the coding example)



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

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



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

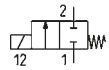
CODING EXAMPLE

6	3	8	M	-	105	-	A	6	B	

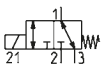
6	SERIES
3	NUMBER OF PORTS AND FUNCTIONS: 0 = interface 1 = 2 way NO 2 = 2 way NC 3 = 3 way NC 4 = 3 way NO
8	CONNECTION: 0 = interface 3 = G3/8 8 = G1/8 C = cartridge ø 4
M	M = manifold
105	TYPE OF BODY: 150 = threaded body 450 = base with rotatable interface 457 = base with fixed interface 101 = single 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

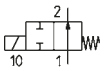
2/2-way, 3/2-way
Normally closed (NC) and normally open (NO)



Mod. **CFB-D21C-W1-***
CFB-D21F-W1-*
CFB-D22C-W1-*
CFB-D22F-W1-*
CFB-D22G-W1-*
CFB-D23J-R1-*
CFB-D24J-R1-*
CFB-D24M-R1-*

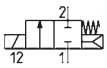


Mod. **CFB-D31A-W1-***
CFB-D31D-W1-*
CFB-D32A-W1-*
CFB-D32D-W1-*



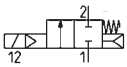
Mod. **CFB-D11A-W1-***
CFB-D12D-W1-*
CFB-D13J-W1-*

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



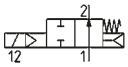
Mod. **CFB-B23L-W1-***
CFB-B24N-W1-*
CFB-B25P-W1-*
CFB-B26R-W1-*

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



Mod. **CFB-A23L-R1-***
CFB-A24N-R1-*
CFB-A25P-R1-*
CFB-A26R-R1-*
CFB-A27T-R1-*
CFB-A28X-R1-*
CFB-A29Z-R1-*

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



Mod. **CFB-A13L-R1-***
CFB-A14N-R1-*
CFB-A15P-R1-*
CFB-A16R-R1-*
CFB-A17T-R1-*
CFB-A18X-R1-*
CFB-A19Z-R1-*

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

CODING EXAMPLE

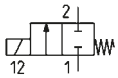
CFB	-	A	1	3	L	-	R	1	-	B7	E

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

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)

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

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)

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)

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)

Connectors DIN 43650, pin spacing 9,4 mm for Series P, PL, PN, PD and PDV
Mod. **125-601**
125-701
125-800

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)

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)

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)

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

Connectors DIN 43650 for Series 6
Protection class IP65
Mod. **124-800**
124-702
124-701
124-703

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)

* = see the MANIFOLD PORTS in the CODING EXAMPLE TABLE of the reference Series

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)

* = see the MANIFOLD PORTS in the CODING EXAMPLE TABLE of the reference Series

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)

* = see the MANIFOLD PORTS in the CODING EXAMPLE TABLE of the reference Series

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)

* = see the MANIFOLD PORTS in the CODING EXAMPLE TABLE of the reference Series

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

Single sub-base for Series P, PL and PN
Mod. **P001-02**

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**

Excluder tap for Series K
Supplied with:
1x excluder tap
1x interface seal
2x screws
Mod. **K000-TP**

Excluder tap for Series P, PL and PN
Supplied with:
1x excluder tap,
1x interface seal,
2x screws
Mod. **P000-TP**

Series 8 pneumatic operated cartridge valves

New

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

Mod. **810C5100-F132**
820C5100-G732
830C5100-K132

CODING EXAMPLE

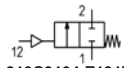
8	10	C5	1	00	-	F1	3	2

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

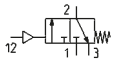
Series 8 pneumatically and electropneumatically operated valves

New

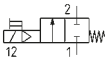
2/2-way - Normally Closed (NC), Normally Open (NO)
3/2-way - Normally Closed (NC), Normally Open (NO)



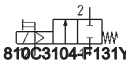
Mod. **810C3104-F131N-NPP**



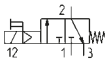
Mod. **810C3404-F131N-NPP**



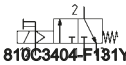
Mod. **810C3104-F131Y-N00***



Mod. **810C3104-F131Y-NPE***

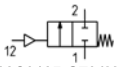


Mod. **810C3404-F131Y-N00***

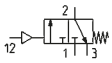


Mod. **810C3404-F131Y-NPE***

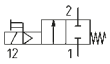
* please complete the code with ELECTRIC CONNECTION (option 2C or 2F) and VOLTAGE (see the CODING EXAMPLE).



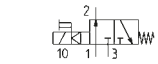
Mod. **820C3105-G731N-NPP**



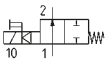
Mod. **820C3405-G731N-NPP**



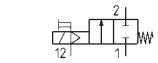
Mod. **820C3105-G731Y-N00***



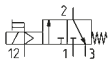
Mod. **820C3505-G731Y-N00***



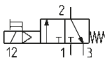
Mod. **820C3205-G731Y-N00***



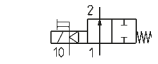
Mod. **820C3105-G731Y-NPE***



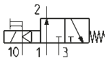
Mod. **820C3405-G731Y-NPE***



Mod. **820C3405-G731Y-N00***

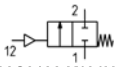


Mod. **820C3205-G731Y-NPE***

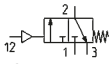


Mod. **820C3505-G731Y-NPE***

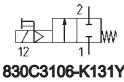
* please complete the code with ELECTRIC CONNECTION (option 3A, 4A o 7A) and VOLTAGE (see the CODING EXAMPLE).



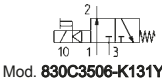
Mod. **830C3106-K131N-NPP**



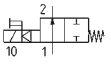
Mod. **830C3406-K131N-NPP**



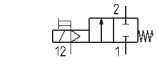
Mod. **830C3106-K131Y-N00***



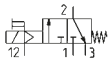
Mod. **830C3506-K131Y-N00***



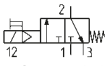
Mod. **830C3206-K131Y-N00***



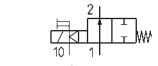
Mod. **830C3106-K131Y-NPE***



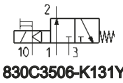
Mod. **830C3406-K131Y-NPE***



Mod. **830C3406-K131Y-N00***



Mod. **830C3206-K131Y-NPE***



Mod. **830C3506-K131Y-NPE***

* please complete the code with ELECTRIC CONNECTION (option 3A, 4A o 7A) and VOLTAGE (see the CODING EXAMPLE).

CODING EXAMPLE

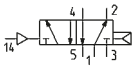
8	10	C3	4	04	-	F1	3	1	Y	-	N	00	2C	C015	

8	SERIES	
10	SIZE: 10 = Size 1 - 20 = Size 2 - 30 = Size 3	
C3	TYPE OF BODY: C3 = threaded body	
4	NUMBER OF WAYS - FUNCTIONS: 1 = 2/2-way NC - 2 = 2/2-way NO - 4 = 3/2-way NC - 5 = 3/2-way NO	
04	PNEUMATIC CONNECTIONS: 04 = G1/8 (Size 1) - 05 = G1/4 (Size 2) - 06 = G3/8 (Size 3)	
F1	NOMINAL DIAMETER: F1 = 5.0 mm (Size 1) - G7 = 6.6 mm (Size 2) - K1 = 9.0 mm (Size 3)	
3	SEAL MATERIAL: 3 = FKM	
1	BODY MATERIAL: 1 = aluminium	
Y	MANUAL OVERRIDE: N = not provided - Y = provided monostable	
N	MOUNTING ACCESSORIES: N = not provided	
00	OPTIONS: 00 = no option - PP = pneumatic piloting - PE = electropilot with external piloting	
2C	ELECTRICAL CONNECTION: 2C = connection type KN 90° + protection + led (Size 1) 2F = connection type KN 90° in line + protection + led (Size 1)	3A = connection DIN EN 175 301-803-C (8 mm) 4A = industry standard connection (9.4 mm) 7A = wires - length 300 mm (Size 2 - 3)
C015	VOLTAGE - POWER CONSUMPTION: C012 = 12V DC 1.3/0.25W (Size 1) C014 = 24V DC 1.3/0.25W (Size 1)	C020 = 12V DC 2W (Size 2 - 3) C023 = 24V DC 2W (Size 2 - 3) C025 = 48V DC 2W (Size 2 - 3)
	VERSION: = standard - OX1 = for use with oxygen (non volatile residual less than 550 mg/m³) - OX2 = for use with oxygen (non volatile residual less than 33 mg/m³)	

Series E valves and solenoid valves

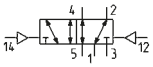
5/2-way monostable/bistable - 5/3-way CC CO CP
For individual or manifold assembly
Size: 10,5 mm

With outlets on the body



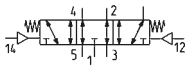
Mod. **E521-36**
E521-C36

With outlets on the body

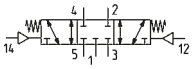


Mod. **E521-33**
E521-C33

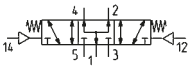
With outlets on the body



Mod. **E721-33**
E721-C33

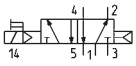


Mod. **E621-33**
E621-C33



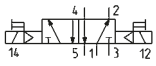
Mod. **E821-33**
E821-C33

With outlets on the body



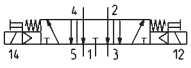
Mod. **E521-16-10-K10**

With outlets on the body

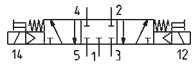


Mod. **E521-11-10-K10**

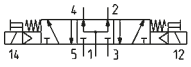
With outlets on the body



Mod. **E721-11-10-K10**

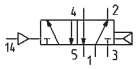


Mod. **E621-11-10-K10**



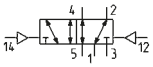
Mod. **E821-11-10-K10**

Body for sub-base



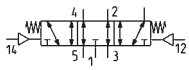
Mod. **E520-36**
E520-C36

Body for sub-base

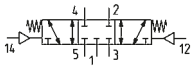


Mod. **E520-33**
E520-C33

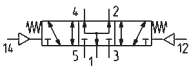
Body for sub-base



Mod. **E720-33**
E720-C33

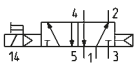


Mod. **E620-33**
E620-C33



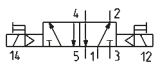
Mod. **E820-33**
E820-C33

Body for sub-base



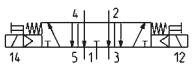
Mod. **E520-16-10-K10**

Body for sub-base

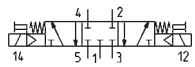


Mod. **E520-11-10-K10**

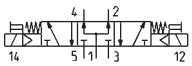
Body for sub-base



Mod. **E720-11-10-K10**



Mod. **E620-11-10-K10**



Mod. **E820-11-10-K10**

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.

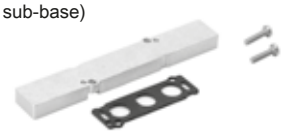
Accessories

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)



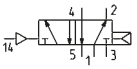
Intermediate plate for valves to provide a separate supply in 1
Base mounted valves
The following is supplied:
1x plate, 2x screws,
1x interface seal, 2x O-Ring
Mod. **PCP-E521**

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)

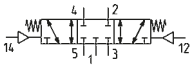
Series EN valves and solenoid valves

5/2-way, 5/3-way CC CO CP
With outlets on the body. For individual or manifold assembly
Size 16, 19 mm

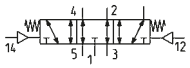


Mod. **EN531-36**
EN551-36

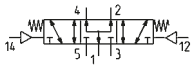
Mod. **EN531-33**
EN551-33



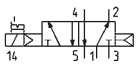
Mod. **EN631-33**
EN651-33



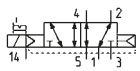
Mod. **EN731-33**
EN751-33



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

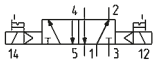


Mod. **EN531-16-P***
EN551-16-P*
EN531-16-PN*
EN551-16-PN*
EN531-16-W*
EN551-16-W*

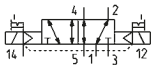


Mod. **EN531-16-P***
EN551-16-P*
EN531-E16-PN*
EN551-E16-PN*
EN531-E16-W*
EN551-E16-W*

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

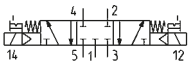


Mod. **EN531-11-P***
EN551-11-P*
EN531-11-PN*
EN551-11-PN*
EN531-11-W*
EN551-11-W*

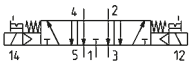


Mod. **EN531-E11-P***
EN551-E11-P*
EN531-E11-PN*
EN551-E11-PN*
EN531-E11-W*
EN551-E11-W*

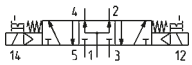
* = choose the most suitable solenoid (see the coding example)



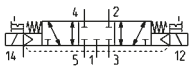
Mod. **EN631-11-***
EN651-11-*



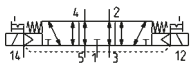
Mod. **EN731-11-***
EN751-11-*



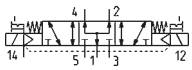
Mod. **EN831-11-***
EN851-11-*



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

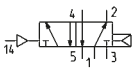


Mod. **EN731-E11-***
EN751-E11-*

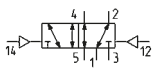


Mod. **EN831-E11-***
EN851-E11-*

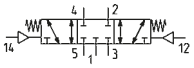
* = choose the suitable solenoid (see the coding example)



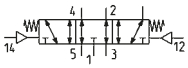
Mod. **EN530-36**
EN550-36



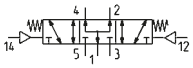
Mod. **EN530-33**
EN550-33



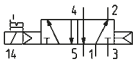
Mod. **EN630-33**
EN650-33



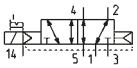
Mod. **EN730-33**
EN750-33



Mod. **EN830-33**
EN850-33

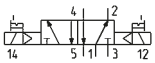


Mod. **EN530-16-P***
EN550-16-P*
EN530-16-PN*
EN550-16-PN*
EN530-16-W*
EN550-16-W*

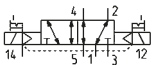


Mod. **EN530-16-P***
EN550-16-P*
EN530-E16-PN*
EN550-E16-PN*
EN530-E16-W*
EN550-E16-W*

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

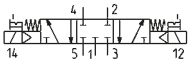


Mod. **EN530-11-P***
EN550-11-P*
EN530-11-PN*
EN550-11-PN*
EN530-11-W*
EN550-11-W*

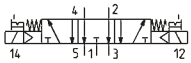


Mod. **EN530-E11-P***
EN550-E11-P*
EN530-E11-PN*
EN550-E11-PN*
EN530-E11-W*
EN550-E11-W*

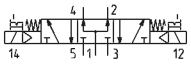
* = choose the most suitable solenoid (see the coding example)



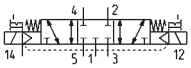
Mod. **EN630-11-***
EN650-11-*



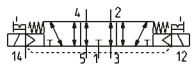
Mod. **EN730-11-***
EN750-11-*



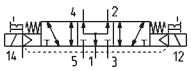
Mod. **EN830-11-***
EN850-11-*



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



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



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

* = 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)

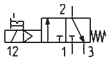
Connectors DIN 43650 pin spacing 8 mm
To be used in all DC valves with voltages from 6 to 110 V
Mod. **126-550-1** (cable 1000 mm)
126-800
126-701

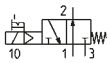
In-line connectors with moulded cable
Mod. **125-503-2** (cable 2000 mm)
125-503-5 (cable 5000 mm)
125-553-2 (cable 2000 mm)
125-553-5 (cable 5000 mm)

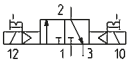
In-line connectors with moulded cable and bridge rectifier
Mod. **125-903-2** (cable 2000 mm)
125-903-5 (cable 5000 mm)

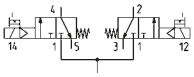
Series 3 valves and solenoid valves

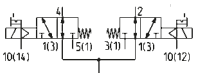
2x3/2-way, 3/2-way, 5/2-way, 5/3-way CC CO CP
Ports: G1/8, G1/4

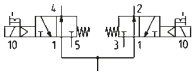

Mod. **338-015-02**
338L-015-02

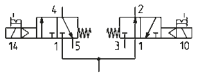

Mod. **348-015-02**
348L-015-02

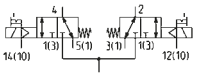

Mod. **338-011-02**
338L-011-02

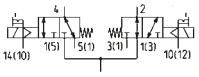

Mod. **338D-015-02**


Mod. **348D-E15-02**


Mod. **348D-015-02**

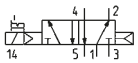

Mod. **398D-015-02**

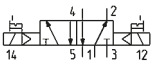

Mod. **338D-E15-02**


Mod. **398D-E15-02**

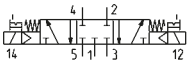

Mod. **358-015-02**

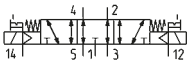

Mod. **358-E15-02**

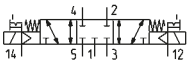

Mod. **358-016-02**

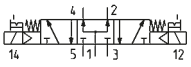

Mod. **358-011-02**

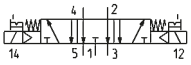

Mod. **358-E11-02**

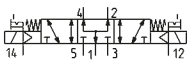

Mod. **368-011-02**

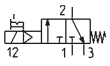

Mod. **378-E11-02**

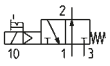

Mod. **368-E11-02**

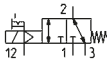

Mod. **388-011-02**

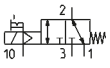

Mod. **378-011-02**

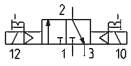

Mod. **388-E11-02**

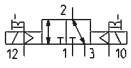

Mod. **334-015-02**

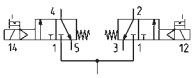

Mod. **344-015-02**

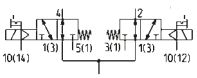

Mod. **334-E15-02**

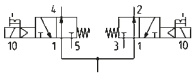

Mod. **344-E15-02**

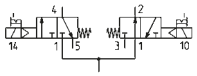

Mod. **334-011-02**

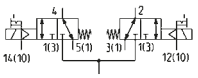

Mod. **334-E11-02**

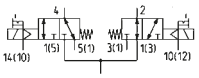

Mod. **334D-015-02**

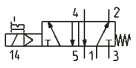

Mod. **344D-E15-02**

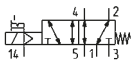

Mod. **344D-015-02**

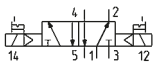

Mod. **394D-015-02**


Mod. **334D-E15-02**


Mod. **394D-E15-02**

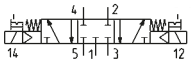

Mod. **354-015-02**


Mod. **354-E15-02**

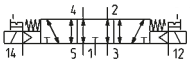


Mod. **354-011-02**

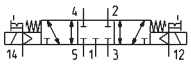
Mod. **354-E11-02**



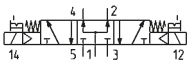
Mod. **364-011-02**



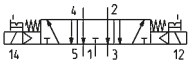
Mod. **374-E11-02**



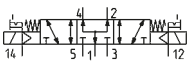
Mod. **364-E11-02**



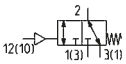
Mod. **384-011-02**



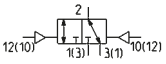
Mod. **374-011-02**



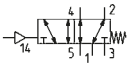
Mod. **384-E11-02**



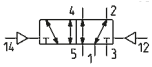
Mod. **338-035**
338L-035
334-035



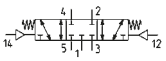
Mod. **338-033**
338L-033
334-033



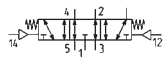
Mod. **358-035**
354-035



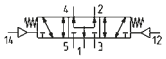
Mod. **358-033**
354-033



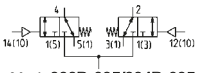
Mod. **368-033/364-033**



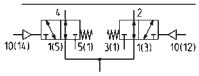
Mod. **378-033/374-033**



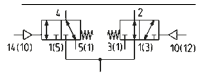
Mod. **388-033/384-033**



Mod. **338D-035/334D-035**



Mod. **348D-035/344D-035**



Mod. **398D-035/394D-035**

CODING EXAMPLE

3	3	8	D	-	015	-	02	-	U 7	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**
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	-	-	-

		U7**	G7**	A8**	H8**	G9**
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 50/60Hz	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

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

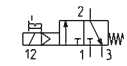
Separation diaphragm
For separation of channel: 1 - 3 - 5.
The following is supplied:
1x diaphragm
Mod. **CNVL-3H-TP** for Series 3, G1/8
CNVL-4H-TP for Series 3, G1/4

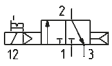
Blanking plug for TCNVL manifolds
The following is supplied:
1x blanking plug,
1x O-Ring
Mod. **TCNVL/3** for Series 3, G1/8
TCNVL/5 for Series 3, G1/4

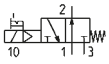
Blanking plate
Accessory for Series CNVL manifolds
The following is supplied:
2x fixing screws,
3x O-Rings
Mod. **CNVL/1**
CNVL/4

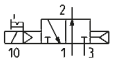
Series 4 valves and solenoid valves

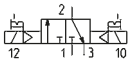
3/2-way, 5/2-way, 5/3-way CC CO
Ports: G1/8, G1/4, G1/2

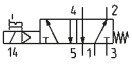

Mod. **438-015-22**

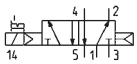

Mod. **438-016-22**

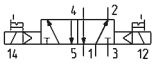

Mod. **448-015-22**

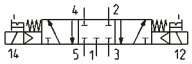

Mod. **448-016-22**

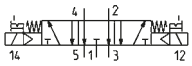

Mod. **438-011-22**

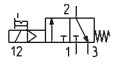

Mod. **458-015-22**

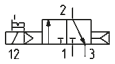

Mod. **458-016-22**

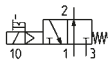

Mod. **458-011-22**

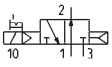

Mod. **468-011-22**

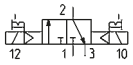

Mod. **478-011-22**

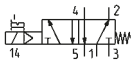

Mod. **434-015-22**

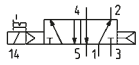

Mod. **434-016-22**

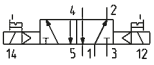

Mod. **444-015-22**

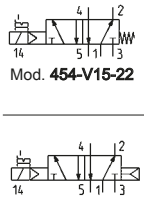

Mod. **444-016-22**


Mod. **434-011-22**

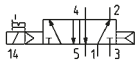

Mod. **454-015-22**


Mod. **454-016-22**

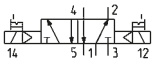

Mod. **454-011-22**



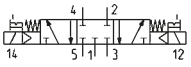
Mod. **454-V15-22**



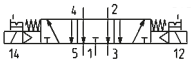
Mod. **454-V16-22**



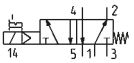
Mod. **454-V11-22**



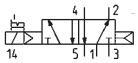
Mod. **464-011-22**



Mod. **474-011-22**

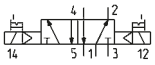


Mod. **452C-015-50-A6***



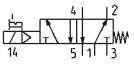
Mod. **452C-016-50-A6***

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

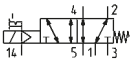


Mod. **452C-011-50-A6***

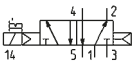
* = choose the most suitable solenoid
(see the coding example)



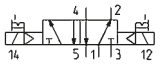
Mod. **452N-015-22**



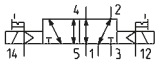
Mod. **452N-016-22**



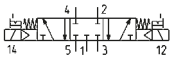
Mod. **452N-E15-22**



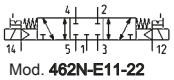
Mod. **452N-011-22**



Mod. **452N-E11-22**

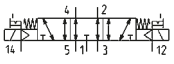


Mod. **462N-011-22**

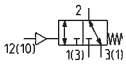


Mod. **462N-E11-22**

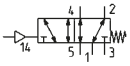
Mod. **472N-011-22**



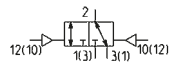
Mod. **472N-E11-22**



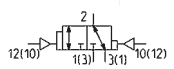
Mod. **438-35**



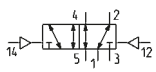
Mod. **458-35**



Mod. **438-33**

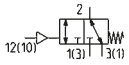


Mod. **438-34**

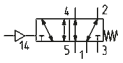


Mod. **458-33**

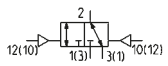
Mod. **458-34**



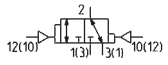
Mod. **434-35**



Mod. **454-35**

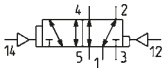


Mod. **434-33**

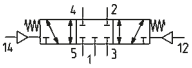


Mod. **434-34**

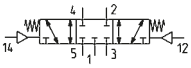
Mod. **454-33**



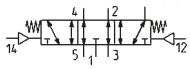
Mod. **454-34**



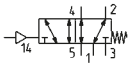
Mod. **468-33**



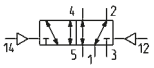
Mod. **484-33**



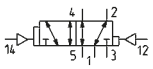
Mod. **474-33**



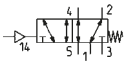
Mod. **452C-35**



Mod. **452C-33**



Mod. **452C-34**



Mod. **452N-35**

Mod. **452N-33**

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 - 2N = G1/2 (high flow)

015 ACTUATION:
011 = double solenoid (horizontal solenoids)
V11 = double solenoid (vertical solenoids) for G1/4 port only
E11 = double solenoid external servo-command
E15 = single solenoid external servo-command
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 (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**
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	-	-	-

		U7**	G7**	A8**	H8**	G9**
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 50/60Hz	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

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

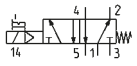
Blanking plate
The following is supplied:
2x fixing screws,
3x O-Rings
Mod. **CNVL/2** for Series 4, G1/8
CNVL/3 for Series 4, G1/8

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

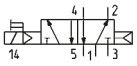
Series 9 valves and solenoid valves

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

* = size ISO

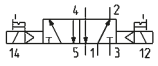


Mod. **95*-000-P15-23**

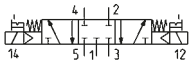


Mod. **95*-000-P16-23**

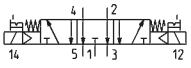
* = size ISO



Mod. **95*-000-P11-23**

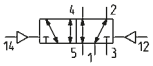


Mod. **96*-000-P11-23**



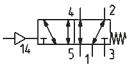
Mod. **97*-000-P11-23**

* = size ISO



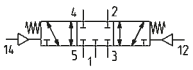
Mod. **95*-000-33**

Mod. **95*-000-34**

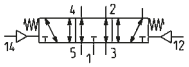


Mod. **95*-000-35**

* = size ISO



Mod. **96*-000-33**



Mod. **97*-000-33**

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**
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	-	-	
-						

		U7**	G7**	A8**	H8**	G9**
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 50/60Hz	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

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**

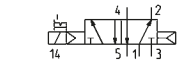
Mounting example
Separation tap lines 1 - 3 - 5
to be used with manifold
type 901-C1A and 902-C2A
Mod. **901-C1A/TP**
902-C2A/TP

Separation joint
To be used with manifold type 901N
1 - 3 - 5 closed
Mod. **901-N1A/T**

Separation joint
To be used with manifold type 901N
1 closed
Mod. **901-N1A/TP**

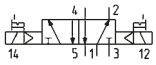
Series 7 valves and solenoid valves

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



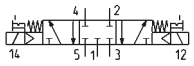
* = size ISO

Mod. **75*-000-P16-15-W20**

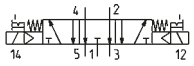


* = size ISO

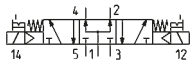
Mod. **75*-000-P11-15-W20**



Mod. **76*-000-P11-15-W20**

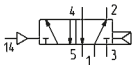


Mod. **77*-000-P11-15-W20**



* = size ISO

Mod. **78*-000-P11-15-W20**

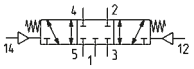


* = size ISO

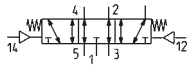
Mod. **75*-000-36**

* = size ISO

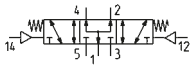
Mod. **75*-000-33**



Mod. **76*-000-33**



Mod. **77*-000-33**



* = size ISO

Mod. **78*-000-33**

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 (24V - 48V DC only) - 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

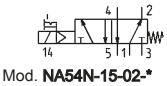
Diaphragm for subbase
with conveyed inlet and exhausts and side outlets
Mod. **701C-N1A-TP**
702C-N2A-TP

Excluder tap for subbase
The following is supplied:
1x seal,
2x screws
Mod. **701-TP**
702-TP

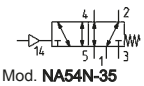
Interface between ISO 01 and ISO 02
The following is supplied:
1x tap S2610 3/8,
5x OR,
2x screws
Mod. **701C-702C-A**

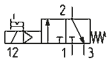
Series NA valves and solenoid valves

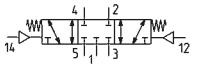
3/2, 5/2, 5/3 CC CO CP
With holes configured according NAMUR standards

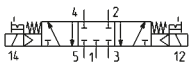

Mod. **NA54N-15-02-***

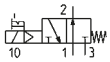

Mod. **NA54N-33**

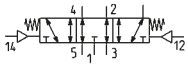

Mod. **NA54N-35**

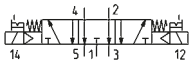

Mod. **NA34N-15-02-***

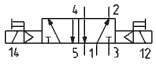

Mod. **NA64N-33**

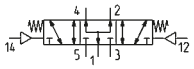

Mod. **NA64N-11-02-***

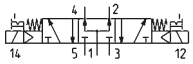

Mod. **NA44N-15-02-***

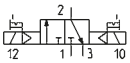

Mod. **NA74N-33**


Mod. **NA74N-11-02-***


Mod. **NA54N-11-02-***


Mod. **NA84N-33**


Mod. **NA84N-11-02-***


Mod. **NA34N-11-02-***

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

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
U77/ 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
G77/ 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, Multipole and Fieldbus

New versions

Plug-In system for Series 3 solenoid valves, G1/8 port.
Valve functions: 2x3/2, 5/2 and 5/3-way CO CC CP. Multipole with a 25-pin Sub-D connector
It can interface with all major serial communication protocols

The Multipole version of Series 3 Plug-In valve island can be easily installed thanks to the front position of the Sub-D connector.
The accessories of the new connection system to the Series CX serial nets enable to handle up a multipole valve island by means of a Sub-D connector or through a node integrated in the island.
The modularity of the electric and pneumatic parts allows to install up to a maximum of 22 solenoids on 22 valve positions.

The electric and pneumatic modules have 2- and 3-position modularity. To optimize the signals distribution, electric modules are available for monostable and bistable valves. The pneumatic modularity enables the creation of zones with differentiated pressure.
Manuals, instruction sheets and configuration files are available on the site http://catalogue.camozzi.com or by means of the QR code indicated on the lable of the product.

GENERAL DATA

PNEUMATIC SECTION	
Valve construction	spool type with seals
Valve functions	5/2 - 5/3 CC - 5/3 CO - 5/3 CP - 2x3/2 NO - 2x3/2 NC - 1 3/2 NO + 1 3/2 NC
Materials	AL body, stainless steel spool, NBR seals, technopolymer
Mounting	through-out holes in the manifold
Ports	valve = G1/8 - manifold = G3/8
Installation	in any position
Operating temperature	from 0°C to 60°C (with dry air at -20°C)
Nominal flow rate	Qn 700 Nl/min
Nominal diameter	7 mm
Fluid	Filtered air, class 7.4.4 according to ISO 8573-1-2010, without lubrication. If lubricated air is used, it is recommended to use ISO VG32 oil, and to never interrupt the lubrication.
ELECTRICAL SECTION - MULTIPOLE VERSION	
Max absorption	3 A
Type of connection	Multipole 25-pin male Sub-D
Supply voltage	24 V DC +/- 10%
Max number of solenoids	22 on 22 valve positions
Signalling	yellow LED
Duty cycle	ED 100%
Protection class	IP65
ELECTRICAL SECTION - FIELDBUS VERSION	
General characteristics	see the section about the Series CX multi-serial module on page 106
Max absorption	digital outputs/analogic inputs and outputs 3A digital/analogic inputs 3 A
Voltage tolerances	logic supply 24 V DC +/- 10% power supply 24 V DC +/- 10%

CODING EXAMPLE - MULTIPOLE VERSION

3	P	8	-	03A	-	BDACAC	-	2BC3MU2BMXU2B2M	-	G77

3	SERIES
P	TYPE: P = Plug-In
8	SIZE: 8 = 1/8
03A	CONNECTION: 000 = no connector/cable CONNECTOR WITH CABLE AXIAL OUTPUT: 03A = 3 m 05A = 5 m 10A = 10 m 15A = 15 m 20A = 20 m 25A = 25 m CONNECTOR WITH CABLE RADIAL OUTPUT: 03R = 3 m 05R = 5 m 10R = 10 m 15R = 15 m 20R = 20 m 25R = 25 m CONNECTOR WITHOUT CABLE: 4XA = 25 pin axial 4XR = 25 pin radial
BDACAC	CONFIGURATION OF SUBBASE: A = 2 positions with bistable board B = 3 positions with bistable board C = 2 positions with monostable board D = 3 positions with monostable board
2BC3MU2BMXU2B2M	VALVE FUNCTION: E = empty position M = 5/2 Monostable, internal servo-pilot supply B = 5/2 Bistable, internal servo-pilot supply C = 2 x 3/2 NC, internal servo-pilot supply A = 2 x 3/2 NO, internal servo-pilot supply G = 1 x 3/2 NC + 1 x 3/2 NO, internal servo-pilot supply H = 5/3 Closed Centres, internal servo-pilot supply K = 5/3 Exhaust Centres, internal servo-pilot supply N = 5/3 Pressure Centres, internal servo-pilot supply D = 5/2 Monostable, external servo-pilot supply Y = 5/2 Bistable, external servo-pilot supply Q = 2 x 3/2 NC, external servo-pilot supply R = 2 x 3/2 NO, external servo-pilot supply S = 1 x 3/2 NC + 1 x 3/2 NO, external servo-pilot supply V = 5/3 Closed Centres, external servo-pilot supply Z = 5/3 Exhaust Centres, external servo-pilot supply W = 5/3 Pressure Centres, external servo-pilot supply L = plate with closed free position X = supply plate and supplementary exhausts T = diaphragm on channels 1, 3, 5 U = diaphragm in supply 1 J = diaphragm exhausts 3 and 5
G77	SOLENOID MATERIAL: G = PA U = PET

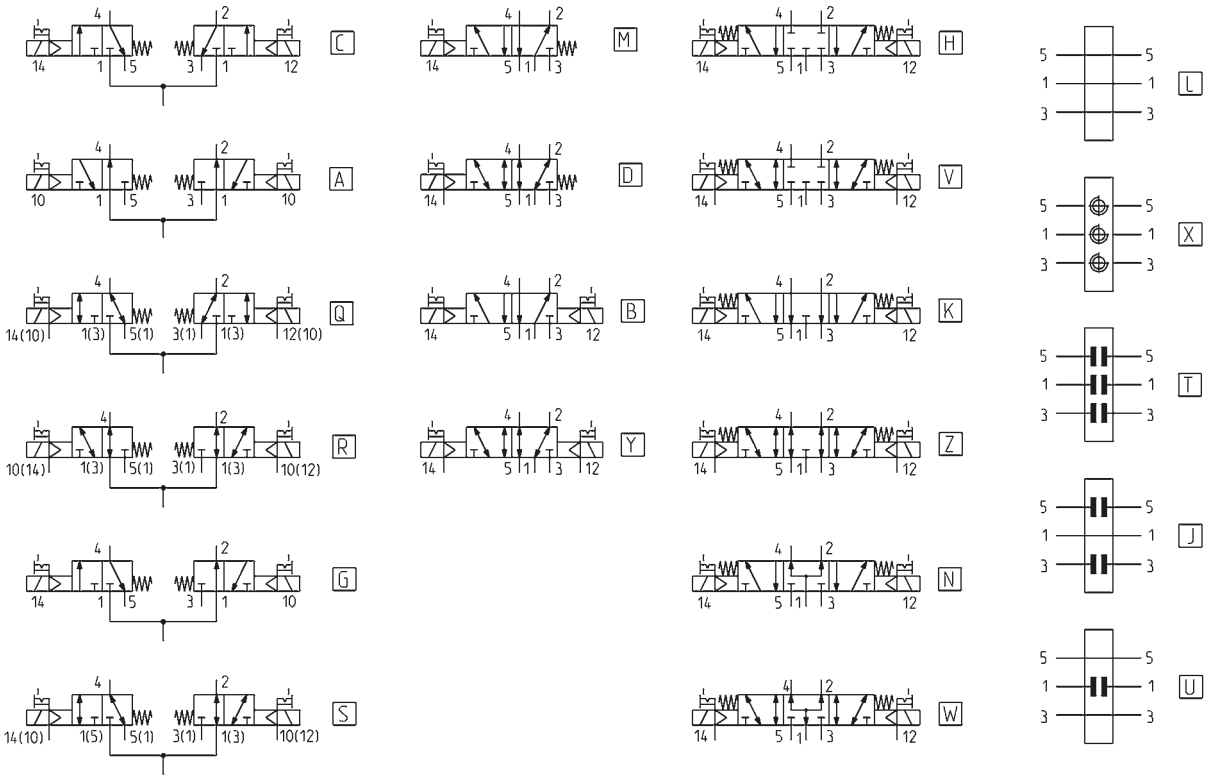
3P8-03R-ADCB-2B3MT2M3V-G77: valve island with 10 positions, radial connector and 3-meter cable.
Bases: the first with 2 bistables positions, the second with 3 monostable pos., the third with 2 monostable pos., the fourth with 3 bistable pos.
Valves: 2 bistable, 3 monostables, diafragm on channels 1,3,5, 2 monostables, 3 Closed Centres, 24 V Solenoids.

CODING EXAMPLE - FIELDBUS VERSION

3	S	8	-	01	-	2AQRS	-	BDACAC	-	2BC3MU2BMXU2B2M	-	G77

3	SERIES
S	CONNECTION: S = Fieldbus
8	SIZE: 8 = 1/8
01	PROTOCOL: 01 = PROFIBUS-DP 02 = DeviceNet 03 = CANopen 04 = EtherNet/IP 05 = EtherCAT 06 = PROFINET 99 = Expansion Module
2AQRS	INPUT / OUTPUT MODULES: 0 = no module A = 8 digital inputs M8 B = 4 digital inputs M8 C = 2 analog inputs 4-20 mA D = 2 analog inputs 0-10 V E = 1 analog input 4-20 mA + 1 input 0-10 V Q = 4 M12 duo digital outputs R = 2 analog outputs 4-20 mA T = 2 analog outputs 0-10 V U = 1 analog output 4-20 mA + 1 output 0-10 V V = 1 analog output 4-20 mA + 1 input 0-10 V Z = 1 analog output 4-20 mA + 1 input 4-20 mA K = 1 analog output 0-10 V + 1 input 0-10 V Y = 1 analog output 0-10 V + 1 input 4-20 mA S = Initial subnet module
BDACAC	CONFIGURATION OF SUBBASE: A = 2 positions with bistable board B = 3 positions with bistable board C = 2 positions with monostable board D = 3 positions with monostable board
2BC3MU2BMXU2B2M	VALVE FUNCTION: E = empty position M = 5/2 Monostable, internal servo-pilot supply B = 5/2 Bistable, internal servo-pilot supply C = 2 x 3/2 NC, internal servo-pilot supply A = 2 x 3/2 NO, internal servo-pilot supply G = 1 x 3/2 NC + 1 x 3/2 NO, internal servo-pilot supply H = 5/3 Closed Centres, internal servo-pilot supply K = 5/3 Exhaust Centres, internal servo-pilot supply N = 5/3 Pressure Centres, internal servo-pilot supply D = 5/2 Monostable, external servo-pilot supply Y = 5/2 Bistable, external servo-pilot supply Q = 2 x 3/2 NC, external servo-pilot supply R = 2 x 3/2 NO, external servo-pilot supply S = 1 x 3/2 NC + 1 x 3/2 NO, external servo-pilot supply V = 5/3 Closed Centres, external servo-pilot supply Z = 5/3 Exhaust Centres, external servo-pilot supply W = 5/3 Pressure Centres, external servo-pilot supply L = plate with closed free position X = supply plate and supplementary exhausts T = diaphragm on channels 1, 3, 5 U = diaphragm in supply 1 J = diaphragm exhausts 3 and 5
G77	SOLENOID MATERIAL: G = PA U = PET

FUNCTIONS OF SOLENOID VALVES SERIES 3

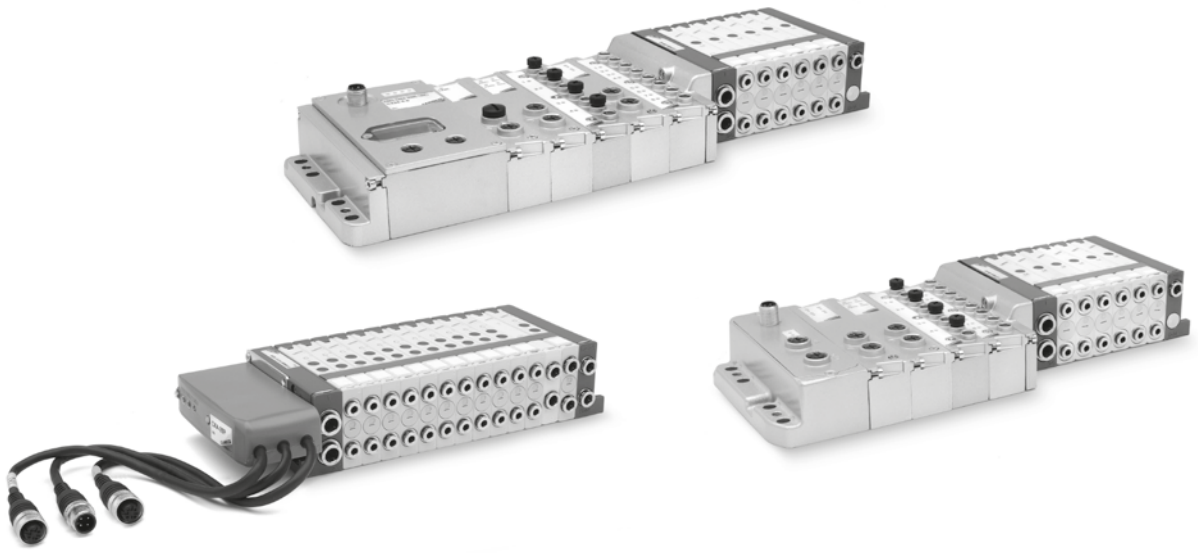


Mod.	Function	Actuation/return	Servo-pilot	Working pressure (bar)	Pilot pressure (bar)	Code
338D-015-02	2 x 3/2 NC	solenoid/spring	internal	2,5 ÷ 10	-	**C**
348D-015-02	2 x 3/2 NO	solenoid/spring	internal	2,5 ÷ 10	-	**A**
398D-015-02	1 x 3/2 NC + 1 x 3/2 NO	solenoid/spring	internal	2,5 ÷ 10	-	**G**
358-015-02	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**

Series F valve islands, Multipole and Fieldbus

New version

Multipole integrated electrical connection (PNP)
Valve functions: 2x2/2, 2x3/2, 5/2, 5/3 CC
It can interface with all major serial communication protocols



The Multipole version of Series F valve island can be easily integrated with the accessories of the new Series CX multiserial module, thus connecting to the different serial nets provided. It is also possible to manage a standard multipole island by means of a Sub-D adapter or through an integrated node in the island. The typical Series F single modularity allows the installation of up to 24 solenoids on 24 valve positions, even in the Fieldbus version. The use of technopolymer in this Series has allowed to realize a valve island which is characterized by small dimensions, high flow and reduced weight.

The reduced dimensions, its flexibility during the assembly as well as the wide range of valve functions make Series F a highly innovative product which is suitable for several application requirements.
Usable silencers (Mod. 2939).
Manuals, instruction sheets and configuration files are available on the site http://catalogue.camozzi.com or by means of the QR code indicated on the lable of the product.

GENERAL CHARACTERISTICS

PNEUMATIC SECTION	
Valve construction	spool with seals
Valve functions	5/2 monostable and bistable - 5/3 CC - 2x2/2 NO2x2/2 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 ø4; ø6 Inlets 2 and 4, size 2 (14 mm) = tube ø4; ø6; ø8 Supply 1, size 1 and 2 = tube ø8; ø10 Servo pilot 12/14, size 1 and 2 = tube ø6 Exhausts 3/5, size 1 and 2 = tube ø8; ø10 Exhausts 82/84, size 1 and 2 = tube ø6
Temperature	0 ÷ 50°C
Air specifications	Filtered compressed air, non lubricated, class 6.4.4 according to ISO 8573-1:2010 standard. If lubrication is necessary, please use only oils with maximum viscosity of 32 Cst and the version with external servo-pilot supply. The servo-pilot supply air quality class must be 6.4.4 according to ISO 8573-1:2010 standard.
Valve sizes	12 mm - 14 mm
Working pressure	- 0,9 ÷ 10 bar
Pilot pressure	3 ÷ 7 bar - 4.5 ÷ 7 bar (with working pressure exceeding 6 bar for the versions 2x2/2 and 2x3/2)
Flow rate	250 Nl/min (12 mm) - 500 Nl/min (14 mm)
Mounting position	any position
Duty cycle	ED 100%
Protection class (according to EN 60529)	IP40
ELECTRICAL SECTION - MULTIPOLE VERSION	
Supply voltage	24 V DC +/- 10%
Max number of solenoids	24
Max number of valve functions	24 (monostable)
Type of Sub-D connection	Sub-D 25 pin
Max absorption	0.8 A
ELECTRICAL SECTION - FIELDBUS VERSION	
General characteristics	see the section about the Series CX multi-serial module on page 106
Max absorption	digital outputs / analogic outputs and inputs 3 A - digital/analogic inputs 3 A
Supply voltage	logic supply 24 V DC +/- 10% - power supply 24 V DC +/- 10%
Max number of operable coils	24 on 24 valve functions (monostable)

CODING EXAMPLE - MULTIPOLE VERSION

F	P	2	R	M	T	A	-	MB2CMUL2B	-	2QR3SLQR

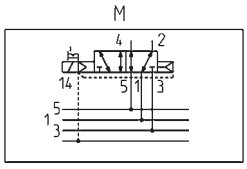
F	SERIES
P	TYPE: P = pneumatic A = accessories
2	SIZE: 1 = 12 mm 2 = 14 mm
R	MANUAL OVERRIDE: P = pressure actuation control R = actuation control with push & turn device
M	ELECTRICAL CONNECTION: M = multipole
T	CARTRIDGES FOR LEFT TERMINAL: S = tube Ø 8 T = tube Ø 10 Note: the cartdriges for the right terminal are for tube Ø 6.
A	SERVO-PILOT SUPPLY: A = internal B = external
MB2CMUL2B	SOLENOID VALVES AND ADDITIONAL PLATES *: M = 5/2 monostable D = 5/2 monostable with bistable electric board B = 5/2 bistable C = 2x3/2 NC A = 2x3/2 NO G = 3/2 NC + 3/2 NO E = 2x2/2 NC F = 2x2/2 NO I = 2/2 NC + 2/2 NO V = 5/3 CC L = free position with passing electric board W = free position with bistable electric board Z = free position with monostable electric board X = supplementary supply and exhaust T = separated supply and exhaust U = separated supply, supplementary exhaust K = supplementary supply, separated exhaust
2QR3SLQR	CARTRIDGES FOR SOLENOID VALVES AND ADDITIONAL PLATES *: Q = tube Ø 4 R = tube Ø 6 S = tube Ø 8 (not for Size 1) L = free position (no cartridges) W = free position with bistable electric board (no cartridges) Z = free position with monostable electric board (no cartridges)
	* in case of identical and consecutive codes, in the choices “SOLENOID VALVES AND ADDITIONAL PLATES” and “CARTRIDGES FOR SOLENOID VALVES AND ADDITIONAL PLATES”, replace the letters with the number. With the choice “CARTRIDGES FOR SOLENOID VALVES AND ADDITIONAL PLATES” both of the following connections are defined: 2 and 4; 1 and 3/5. Examples: FP2RMTA-MBCCMULMMMBB-QQRSSLRRRQRR FP2RMTA-MB2CMUL3M2B-2QR2SL3RQ2R

CODING EXAMPLE - FIELDBUS VERSION

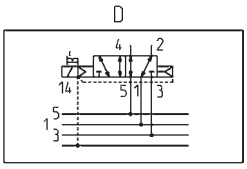
F	P	2	R	01	T	A	-	ABCR	-	MB2CMUL2B	-	2QR3SLQR

F	SERIES
P	TYPE: P = pneumatic A = accessories
2	SIZE: 1 = 12 mm 2 = 14 mm
R	MANUAL OVERRIDE: P = pressure actuation control R = actuation control with push & turn device
01	PROTOCOL: 01 = PROFIBUS-DP 02 = DeviceNet 03 = CANopen 04 = EtherNet/IP 05 = EtherCAT 06 = PROFINET 99 = Expansion Module
T	CARTRIDGES FOR PNEUMATIC/ELECTRICAL TERMINAL: S = tube Ø 8 T = tube Ø 10 Note: the cartdriges for the right terminal are for tube Ø 6.
A	SERVO-PILOT SUPPLY: A = internal B = external
ABCR	INPUT / OUTPUT MODULES: 0 = no module A = 8 digital inputs M8 B = 4 digital inputs M8 C = 2 analog inputs 4-20 mA D = 2 analog inputs 0-10 V E = 1 analog input 4-20 mA + 1 input 0-10 V Q = 4 M12 duo digital outputs R = 2 analog outputs 4-20 mA T = 2 analog outputs 0-10 V U = 1 analog output 4-20 mA + 1 output 0-10 V V = 1 analog output 4-20 mA + 1 input 0-10 V Z = 1 analog output 4-20 mA + 1 input 4-20 mA K = 1 analog output 0-10 V + 1 input 0-10 V Y = 1 analog output 0-10 V + 1 input 4-20 mA S = Initial subnet module
MB2CMUL2B	SOLENOID VALVES AND ADDITIONAL PLATES: M = 5/2 monostable D = 5/2 monostable with bistable electric board B = 5/2 bistable C = 2x3/2 NC A = 2x3/2 NO G = 3/2 NC + 3/2 NO E = 2x2/2 NC F = 2x2/2 NO I = 2/2 NC + 2/2 NO V = 5/3 CC L = free position with passing electric board W = free position with bistable electric board Z = free position with monostable electric board X = supplementary supply and exhaust T = separated supply and exhaust U = separated supply, supplementary exhaust K = supplementary supply, separated exhaust
2QR3SLQR	CARTRIDGES FOR SOLENOID VALVES AND ADDITIONAL PLATES: Q = tube Ø 4 R = tube Ø 6 S = tube Ø 8 (not for Size 1) L = free position (no cartridges) W = free position with bistable electric board (no cartridges) Z = free position with monostable electric board (no cartridges)

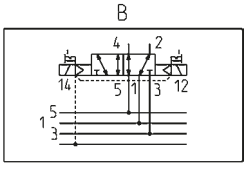
AVAILABLE FUNCTIONS - SOLENOID VALVES SYMBOLS for FP..R - manual override WITH push&turn device



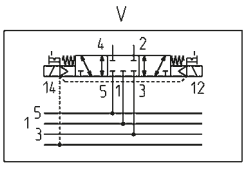
M = 5/2, monostable



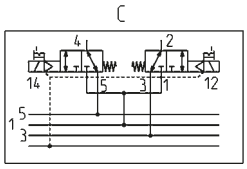
D = 5/2, monostable with bistable board



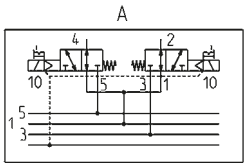
B = 5/2, bistable



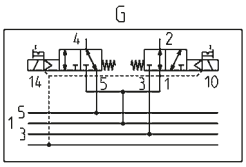
V = 5/3, Centres Closed



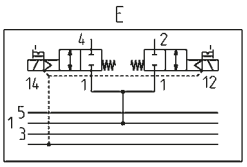
C = 2x3/2 NC



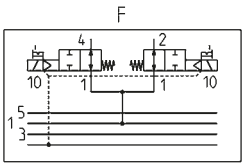
A = 2x3/2 NO



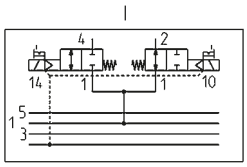
G = 1x3/2 NC +1x3/2 NO



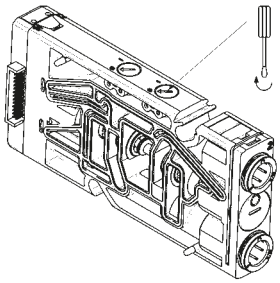
E = 2x2/2 NC



F = 2x2/2 NO

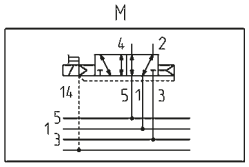


I = 1x2/2 NC + 1x2/2 NO

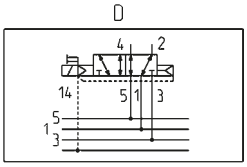


Manual override, version R :
pressure actuation control with PUSH & TURN device.

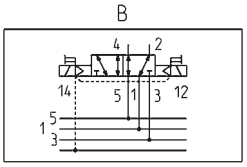
AVAILABLE FUNCTIONS - SOLENOID VALVES SYMBOLS for FP..P - manual override WITHOUT push&turn device



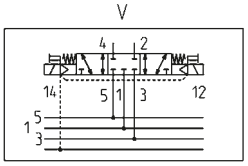
M = 5/2, monostable



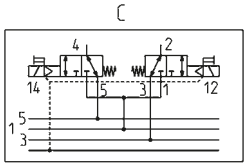
D = 5/2, monostable with bistable board



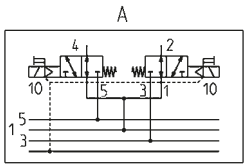
B = 5/2, bistable



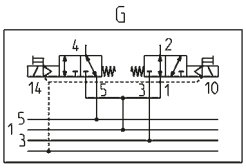
V = 5/3, Centres Closed



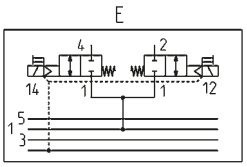
C = 2x3/2 NC



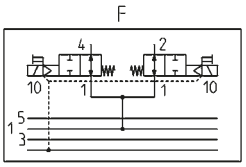
A = 2x3/2 NO



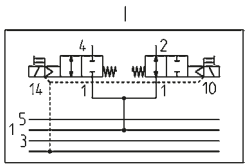
G = 1x3/2 NC +1x3/2 NO



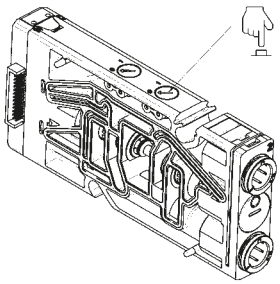
E = 2x2/2 NC



F = 2x2/2 NO



I = 1x2/2 NC + 1x2/2 NO



Manual override, version P :
pressure actuation control without PUSH & TURN device (PUSH only).

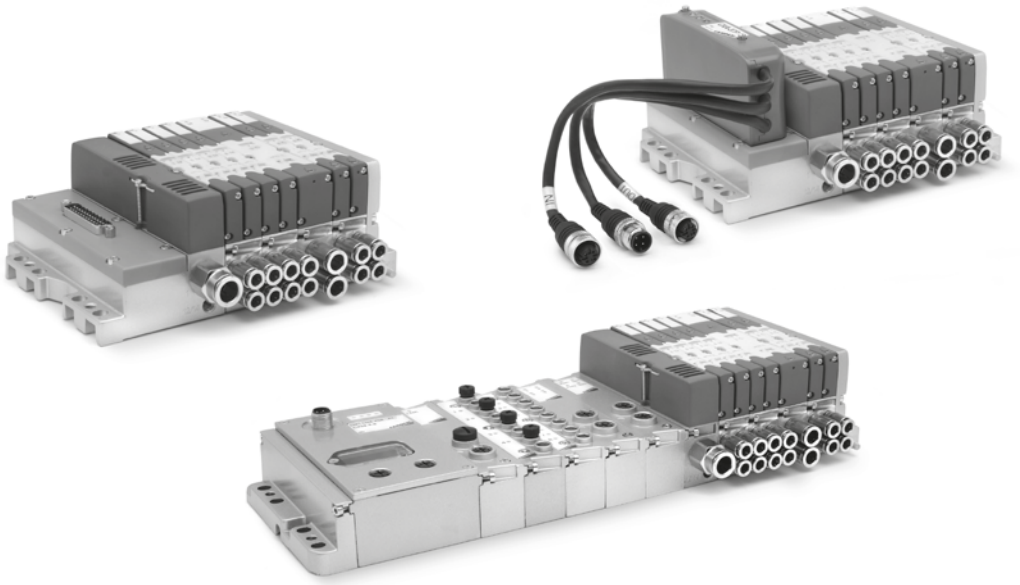
CODING EXAMPLES of SINGLE VALVE (spare part) and TERMINALS (accessories)

CODING EXAMPLE OF A SINGLE SOLENOID VALVE		CODING EXAMPLE OF INTERMEDIATE PLATES	
FP2V-MQR		FP2V-WQ	
F	Series	F	Series
P	Type: P = pneumatic	P	Type: P = pneumatic
2	Size: 1 = 12 mm 2 = 14 mm	2	Size: 1 = 12 mm 2 = 14 mm
V	Solenoid valve or additional plate	V	Solenoid valve or additional plate
-		-	
M	Type of function: M = 5/2 monostable D = 5/2 monostable with bistable board B = 5/2 bistable C = 2 x 3/2 NC A = 2 x 3/2 NO G = 3/2 NC + 3/2 NO E = 2 x 2/2 NC F = 2 x 2/2 NO I = 2/2 NC + 2/2 NO V = 5/3 CC	W	Type of function: 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 and supplementary exhaust K = supplementary power supply and separated exhaust
Q	Cartridges for solenoid valves: Q = Ø4 R = Ø6 S = Ø8 (not for Size 1)	Q	Cartridges for plates: Q = Ø4 R = Ø6 S = Ø8 (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)
R	Type of manual override: R = push and turn (bistable) P = pressure (monostable)		
CODING EXAMPLE OF A LEFT TERMINAL		CODING EXAMPLE OF A RIGHT TERMINAL	
FA2T-S		FA2T-AR	
F	Series	F	Series
A	Accessory	A	Accessory
2	Size: 1 = 12 mm 2 = 14 mm	2	Size: 1 = 12 mm 2 = 14 mm
T	Type of accessory: T = terminal	T	Type of accessory: T = terminal
-		-	
S	Cartridges: = no cartridge S = Ø8 T = Ø10	A	Type of servo-pilot: A = internal B = external
		R	Cartridges: R = Ø6

Series HN valve islands, Multipole and Fieldbus

New version

Multipole connection with 25 or 37 pins
Serial connection with the most common communication protocols
Valve functions: 2x2/2; 2x3/2; 5/2; 5/3 CC



Thanks to the large range of options available, the Series HN valve islands represent an excellent solution for different applications, particularly in automation systems. Small dimensions, high flow, pneumatic and electric modularity, electric connections on boards, possibility to interface with the multi-serial node Series CX, optimization of the signal distribution thanks to subbases for monostable and bistable solenoid valves are only some of the features that make this series a particularly innovative product.
Manuals, instruction sheets and configuration files are available on the site http://catalogue.camozzi.com or by means of the QR code indicated on the lable of the product.

GENERAL DATA

PNEUMATIC SECTION	
Valve construction	spool type with seals
Valve functions	5/2 monostable and bistable - 5/3 CC - 2 x 2/2 NO - 2 x 2/2 NC - 1 x 2/2 NC+ 1 x NO - 2 x 3/2 NC - 2 x 3/2 NO 1 x 3/2 NC+ 1 x 3/2 NO
Materials	spool in aluminium, spool seals in HNBR, other seals in NBR, cartridges in brass, body and end covers in technopolymer, subbases in aluminium
Connections	Inlets 2 and 4, size 10,5 mm: M7, tube ø 4, tube ø 6 Inlets 2 and 4, size 21 mm: G1/8, tube ø 6, tube ø 8 Supply 1: G1/4, tube ø 8, tube ø 10 Supply 12/14: M7 Exhausts 3 and 5: G1/4 or with integrated silencer Exhausts 82/84: M7
Temperature	0 ÷ 50°C
Air specifications	Filtered compressed air, non lubricated, class 6.4.4 according to ISO 8573-1:2010. If lubrication is necessary, please only use oils with maximum viscosity of 32 Cst and the version with external servo-pilot supply. The servo-pilot supply air quality class must be 6.4.4 according to ISO 8573-1:2010 (do not lubricate).
Valve sizes	10.5mm (2 valves for each subbase) - 21mm (1 valve for each subbase)
Working pressure	- 0,9 ÷ 10 bar
Pilot pressure	3 ÷ 7 bar - 4.5 ÷ 7 bar (with working pressure exceeding 6 bar for the versions 2x2/2 and 2x3/2)
Flow rate	400 Nl/min (10.5 mm) - 700 Nl/min (21 mm)
Mounting position	any position
Protection class	IP 65
ELECTRICAL SECTION - MULTIPOLE VERSION	
Type of Sub-D connector	25 or 37 pins
Max. absorption	0.8 A (with Sub-D connector 25 pins) - 1 A (with Sub-D connector 37 pins)
Supply voltage	24 V DC +/- 10%
Max. number of coils to operate	24 on 20 valve positions (with Sub-D connector 25 pins) - 32 on 28 valve positions (with Sub-D connector 37 pins)
Valve signalling	yellow led
ELECTRICAL SECTION - FIELDBUS VERSION	
General data	see the section about the Series CX multi-serial module on page 106
Max absorption	digital outputs / analog outputs and inputs 3A - digital/analog inputs 3A
Supply voltage	logic supply 24 V DC +/- 10% - power supply 24 V DC +/- 10%
Max. number of coils to operate	32 on 28 valve positions

CODING EXAMPLE - MULTIPOLE VERSION

HN	5	M	-	03A	-	2Q4AZ2A	-	2B8M4C	-	A

HN	SERIES		
5	SIZE: 1 = 10.5 2 = 21 5 = Mixed		
M	ELECTRICAL CONNECTION: M = Multipole 25 pin PNP N = Multipole 25 pin NPN H = Multipole 37 pin PNP L = Multipole 37 pin NPN		
03A	CONNECTION: 000 = without connector/cable	CONNECTOR WITH CABLE AXIAL OUTPUT: 03A = 3m 05A = 5m 10A = 10m 15A = 15m 20A = 20m 25A = 25m CONNECTOR WITH CABLE RADIAL OUTPUT: 03R = 3m 05R = 5m 10R = 10m 15R = 15m 20R = 20m 25R = 25m	CONNECTOR WITHOUT CABLE: 4XA = 25 pins axial 4XR = 25 pins radial 9XA = 37 pins axial 9XR = 37 pins radial
2Q4AZ2A	SUBBASES FOR 2 SOLENOID VALVES SIZE 1 (*): A (AZ) = M7 threads B (BZ) = 4 fittings for tube Ø4 C (CZ) = 4 fittings for tube Ø6 D (DZ) = channel 1, 3, 5 closed; M7 threads E (EZ) = channel 1, 3, 5 closed; cartridges tube Ø4 F (FZ) = channel 1, 3, 5 closed; cartridges tube Ø6 G (GZ) = channel 3, 5 closed; M7 threads H (HZ) = channel 3, 5 closed; cartridges tube Ø4 I (IZ) = channel 3, 5 closed; cartridges tube Ø6 L (LZ) = channel 1 closed; M7 threads M (MZ) = channel 1 closed; cartridges tube Ø4 N (NZ) = channel 1 closed; cartridges tube Ø6 (*) Subbases with “Z” at the end of their code are used with monostable solenoid valves FOR SOLENOID VALVES SIZE 2: Q = G 1/8 threads R = cartridges for tube Ø6 S = cartridges for tube Ø8	SUBBASES FOR PNEUMATIC SUPPLY: X = supplementary supply and exhaust Y = supplementary supply and exhaust with integrated silencer W = supply from the exhausts FOR ELECTRICAL SUPPLY: K = separation of electrical supply	SEALS: T = diaphragm on channels 1, 3, 5 U = diaphragm on channel 1 V = diaphragm on channels 3, 5
2B8M4C	SOLENOID VALVES Size 1 and 2: 0 = island without solenoid valves M = 5/2 Monostable B = 5/2 Bistable V = 5/3 Centres Closed C = 2 x 3/2 NC A = 2 x 3/2 NO G = 1 x 3/2 NC + 1 x 3/2 NO E = 2 x 2/2 NC F = 2 x 2/2 NO I = 1 x 2/2 NC + 1 x 2/2 NO L = free position	SOLENOID VALVE + PRESSURE REGULATOR on channel 1 (size 2 only): N = 5/2 Monostable P = 5/2 Bistable Q = 5/3 Centres Closed R = 2 x 3/2 NC S = 2 x 3/2 NO T = 1 x 3/2 NC + 1 x 3/2 NO U = 2 x 2/2 NC X = 2 x 2/2 NO Y = 1 x 2/2 NC + 1 x 2/2 NO	
A	THREADED TERMINAL PLATES: A = 1, 12/14 in common 3/5, 82/84 threaded ports B = 1, 12/14 separated 3/5, 82/84 threaded ports C = 1, 12/14 in common 3/5, 82/84 with integrated silencer D = 1, 12/14 separated 3/5, 82/84 with integrated silencer	TERMINAL PLATES with FITTINGS FOR TUBE Ø 8 on PORT 1: E = 1, 12/14 in common 3/5, 82/84 conveyable F = 1, 12/14 separated 3/5, 82/84 conveyable G = 1, 12/14 in common 3/5, 82/84 with integrated silencer H = 1, 12/14 separated 3/5, 82/84 with integrated silencer	TERMINAL PLATES with FITTINGS FOR TUBE Ø 10 on PORT 1: I = 1, 12/14 in common 3/5, 82/84 conveyable L = 1, 12/14 separated 3/5, 82/84 conveyable M = 1, 12/14 in common 3/5, 82/84 with integrated silencer N = 1, 12/14 separated 3/5, 82/84 with integrated silencer

In presence of identical consequent codes both for the subbases as for the valves you need to substitute the letter with the number.
Ex: HN5M-03A-ABCS-MMCCBBB-A is converted to HN5M-03A-ABCS-2M2C3B-A.

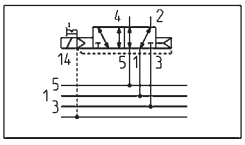
CODING EXAMPLE - FIELDBUS VERSION

HN	5	01	-	ABCD	-	2Q4AZ2A	-	2B8M4C	-	A

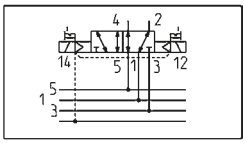
HN	SERIES		
5	SIZE: 1 = 10.5 2 = 21 5 = Mixed		
01	PROTOCOL: 01 = PROFIBUS-DP 02 = DeviceNet 03 = CANopen 04 = EtherNet/IP 05 = EtherCAT 06 = PROFINET 99 = Expansion module		
ABCD	INPUT / OUTPUT MODULES: 0 = no module	INPUT / OUTPUT MODULES: A = 8 Digital Inputs M8 B = 4 Digital Inputs M8 C = 2 Analog Inputs 4-20mA D = 2 Analog Inputs 0-10V E = 1 Analog Input 4-20mA + 1 Input 0-10V Q = 4 Digital Outputs M12 duo R = 2 Analog Outputs 4-20mA T = 2 Analog Outputs 0-10V U = 1 Analog Output 4-20mA + 1 Output 0-10V V = 1 Analog Output 4-20mA + 1 Input 0-10V Z = 1 Analog Output 4-20mA + 1 Input 4-20mA K = 1 Analog Output 0-10V + 1 Input 0-10V Y = 1 Analog Output 0-10V + 1 Input 4-20mA	INPUT / OUTPUT MODULES: S = Initial subnet module
2Q4AZ2A	SUBBASES FOR 2 SOLENOID VALVES SIZE 1 (*): A (AZ) = M7 threads B (BZ) = 4 fittings for tube Ø4 C (CZ) = 4 fittings for tube Ø6 D (DZ) = channel 1, 3, 5 closed; M7 threads E (EZ) = channel 1, 3, 5 closed; cartridges tube Ø4 F (FZ) = channel 1, 3, 5 closed; cartridges tube Ø6 G (GZ) = channel 3, 5 closed; M7 threads H (HZ) = channel 3, 5 closed; cartridges tube Ø4 I (IZ) = channel 3, 5 closed; cartridges tube Ø6 L (LZ) = channel 1 closed; M7 threads M (MZ) = channel 1 closed; cartridges tube Ø4 N (NZ) = channel 1 closed; cartridges tube Ø6 (*) Subbases with "Z" at the end of their code are used with monostable solenoid valves FOR SOLENOID VALVES SIZE 2: Q = G 1/8 threads R = cartridges for tube Ø6 S = cartridges for tube Ø8	SUBBASES FOR PNEUMATIC SUPPLY: X = supplementary supply and exhaust Y = supplementary supply and exhaust with integrated silencer W = supply from the exhausts FOR ELECTRICAL SUPPLY: K = separation of electrical supply	SEALS: T = diaphragm on channels 1, 3, 5 U = diaphragm seal on channel 1 V = diaphragm seal on channels 3, 5
2B8M4C	SOLENOID VALVES Size 1 and 2: 0 = island without solenoid valves M = 5/2 Monostable B = 5/2 Bistable V = 5/3 Centres Closed C = 2 x 3/2 NC A = 2 x 3/2 NO G = 1 x 3/2 NC + 1 x 3/2 NO E = 2 x 2/2 NC F = 2 x 2/2 NO I = 1 x 2/2 NC + 1 x 2/2 NO L = free position	SOLENOID VALVE + PRESSURE REGULATOR on channel 1 (size 2 only): N = 5/2 Monostable P = 5/2 Bistable Q = 5/3 Centres Closed R = 2 x 3/2 NC S = 2 x 3/2 NO T = 1 x 3/2 NC + 1 x 3/2 NO U = 2 x 2/2 NC X = 2 x 2/2 NO Y = 1 x 2/2 NC + 1 x 2/2 NO	
A	THREADED TERMINAL PLATES: A = 1, 12/14 in common 3/5, 82/84 threaded ports B = 1, 12/14 separated 3/5, 82/84 threaded ports C = 1, 12/14 in common 3/5, 82/84 with integrated silencer D = 1, 12/14 separated 3/5, 82/84 with integrated silencer	TERMINAL PLATES with CARTRIDGES Ø 8: E = 1, 12/14 in common 3/5, 82/84 conveyable F = 1, 12/14 separated 3/5, 82/84 conveyable G = 1, 12/14 in common 3/5, 82/84 with integrated silencer H = 1, 12/14 separated 3/5, 82/84 with integrated silencer	TERMINAL PLATES with CARTRIDGES Ø 10: I = 1, 12/14 in common 3/5, 82/84 conveyable L = 1, 12/14 separated 3/5, 82/84 conveyable M = 1, 12/14 in common 3/5, 82/84 with integrated silencer N = 1, 12/14 separated 3/5, 82/84 with integrated silencer

X, Y and K sub-bases will be equipped with threads or cartridges of the same size of port 1, see the choice "Type of terminal plates". In presence of identical consequent codes both for sub-bases and for valves, you need to substitute the letter with the number.
Ex: HN501-ABCD-ABCS-MMCCBBB-A is converted to HN501- ABCD-ABCS-2M2C3B-A.

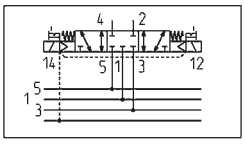
AVAILABLE FUNCTION - SYMBOLS FOR SOLENOID VALVES



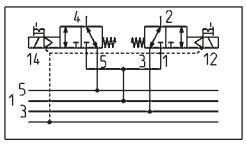
M = 5/2-way, Monostable



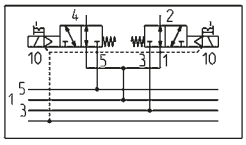
B = 5/2-way, Bistable



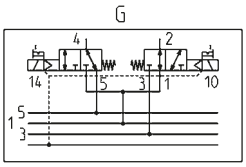
V = 5/3-way Centres Closed



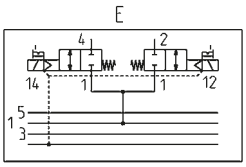
C = 2 x 3/2-way NC



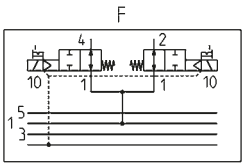
A = 2 x 3/2-way NO



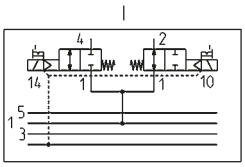
G = 1 x 3/2-way NC + 1 x 3/2-way NO



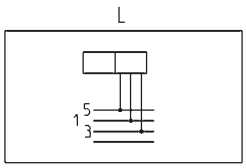
E = 2 x 2/2-way NC



F = 2 x 2/2-way NO

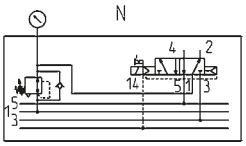


I = 1 x 2/2-way NC + 1 x 2/2-way NO

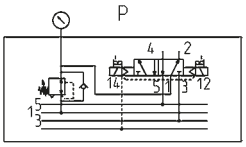


L = free position

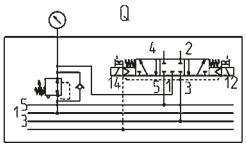
AVAILABLE FUNCTIONS - SYMBOLS FOR SOLENOID VALVES WITH PRESSURE REGULATOR



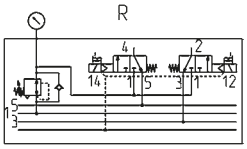
N = 5/2-way, Monostable



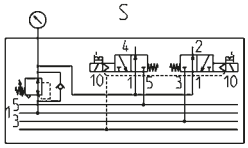
P = 5/2-way, Bistable



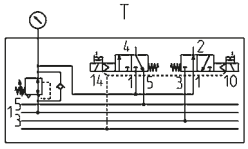
Q = 5/3-way Centres Closed



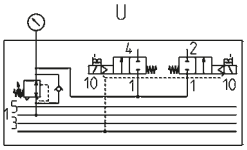
R = 2 x 3/2-way NC



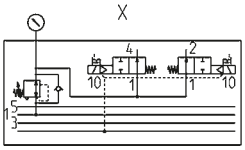
S = 2 x 3/2-way NO



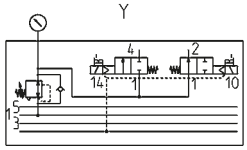
T = 1 x 3/2-way NC + 1 x 3/2-way NO



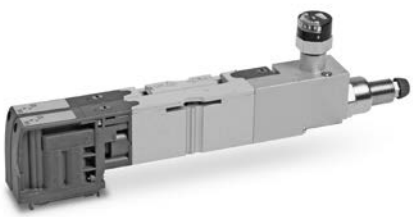
U = 2 x 2/2-way NC



X = 2 x 2/2-way NO



Y = 1 x 2/2-way NC + 1 x 2/2-way NO



It can be assembled on subbase size 21 only.

AVAILABLE FUNCTIONS - SUBBASE TYPES

Through-subbase s. 10.5
A=M7, B=Ø4, C=Ø6 [*]

Diaphragm lines 1, 3 5
D=M7, E=Ø4, F=Ø6 [*]

Diaphragm line 1
L=M7, M=Ø4, N=Ø6 [*]

Diaphragm lines 3, 5
G=M7, H=Ø4, I=Ø6 [*]

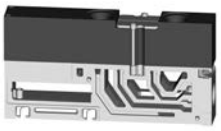
Through-subbase s. 21
Q = 1/8, R = Ø6, S = Ø8

X = supplementary supply and exhaust

K = interm. plate to sep. elec. and suppl. supply

Y = supplem. supply + exhaust with silencer

Z = electro-pneum. interface for HP...F/G/R



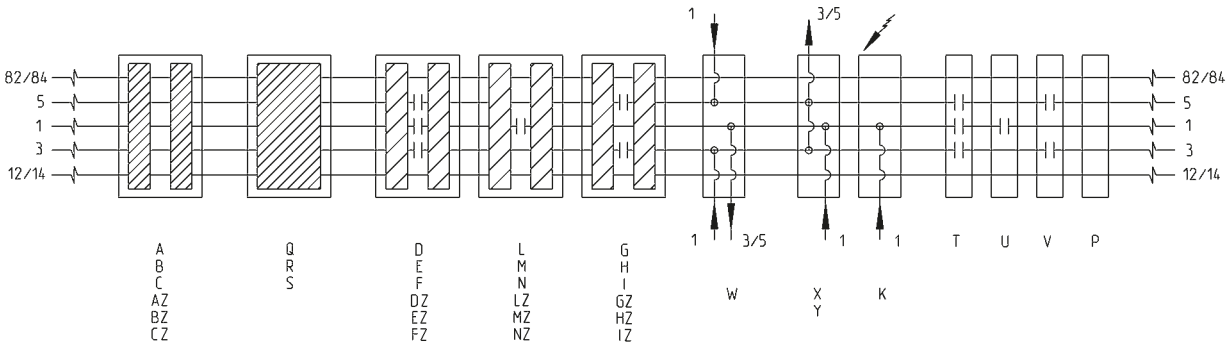
W = plate for supply from exhausts

U = Diaphragm seal - Line 1

V = Diaphragm seal - Lines 3, 5

P = Through seal

T = Diaphragm seal - Lines 1, 3, 5



[*] The subbases A, B, C, D, E, F, G, H, I, L, M, N are available also with a board to be used with monostable solenoid valves.
To order this version it is necessary to add Z at the end of the code of the standard subbase. Example: AZ instead of A.
For further details we suggest you to see the coding example.

CODING EXAMPLE OF MULTIPOLE AND FIELDBUS INTERFACES - Accessories

HN	A	0	M	-	A

HN	SERIES
A	TYPE: A = Accessory
0	SIZE: 0 = not defined
M	ELECTRICAL CONNECTION: M = 25 pin PNP Multipole N = 25 pin NPN Multipole H = 37 pin PNP Multipole L = 37 pin NPN Multipole I = HN interface with Series CX
A	TERMINALS: A = 1, 12/14 in common - 3/5, 82/84 with thread B = 1, 12/14 separated - 3/5, 82/84 with thread C = 1, 12/14 in common - 3/5, 82/84 with silencer D = 1, 12/14 separated - 3/5, 82/84 with silencer NOTE: The Right Terminal is supplied with seals and fixing screws and available as accessory with the commercial code HA0T-H

Detailed descriptions of the available accessories can be found in the valve island catalogue

CODING EXAMPLE OF SINGLE VALVE (Spare part)

H	P	1	V	-	M

H	SERIES	
P	TYPE: P = pneumatic	
1	SIZE: 1 = 10.5 2 = 21	
V	TYPE OF ACCESSORY: V = Solenoid valve	
M	SOLENOID VALVE: M = 5/2 Monostable B = 5/2 Bistable V = 5/3 Centres Closed C = 2 x 3/2 NC A = 2 x 3/2 NO G = 1 x 3/2 NC + 1 x 3/2 NO E = 2 x 2/2 NC F = 2 x 2/2 NO I = 1 x 2/2 NC + 1 x 2/2 NO L = free position	SOLENOID VALVE + REGULATOR + SUBBASE N = 5/2 Monostable P = 5/2 Bistable Q = 5/3 Centres Closed R = 2 x 3/2 NC S = 2 x 3/2 NO T = 1 x 3/2 NC + 1 x 3/2 NO U = 2 x 2/2 NC X = 2 x 2/2 NO Y = 1 x 2/2 NC + 1 x 2/2 NO

Detailed descriptions of the available accessories can be found in the valve island catalogue

CODING EXAMPLE OF SUBBASES - Accessories

H	A	1	R	-	A

H	SERIES	
A	TYPE: A = accessories	
1	SIZE: 0 = for X-Y-K-T-U-V-Z 1 = 10.5 2 = 21	
R	TYPE OF ACCESSORY: R = subbase for multipole connection G = seal W = subbase without electronic board (option valid only for position 2a) See the components list in the valve island catalogue	
A	SUBBASE: A = through - M7 threads AZ = through - M7 threads, monostable D = channel 1, 3, 5 closed - M7 threads DZ = channel 1, 3, 5 closed - M7 threads, monostable G = channel 3, 5 closed - M7 threads GZ = channel 3, 5 closed - M7 threads, monostable Q = through - G1/8 threads X = supplementary supply and exhaust Y = supplementary supply and exhaust with integrated silencer W = supply from the exhausts K = separation of electrical supply and supplementary pneumatic supply	SEAL: T = diaphragm seal for the closure of channels 1, 3, 5 U = diaphragm seal for the closure of channel 1 V = diaphragm seal for the closure of channels 3, 5 P = through

NOTE: subbases are always supplied without connection fittings
Detailed descriptions of the available accessories can be found in the components list on the valve island catalogue

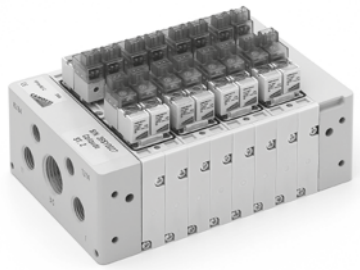
Series Y valve islands, Individual, Multipole and Fieldbus

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

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.

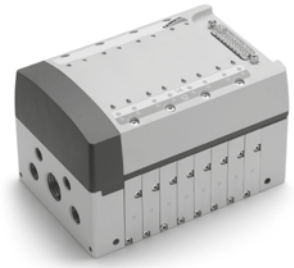
Valve islands with individual electrical connection



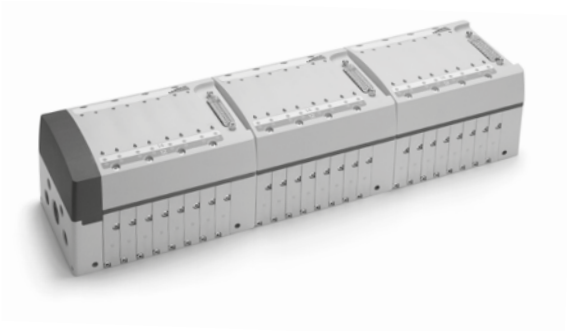
Multipole version YP1M

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.

Valve islands with Multipole electrical connection



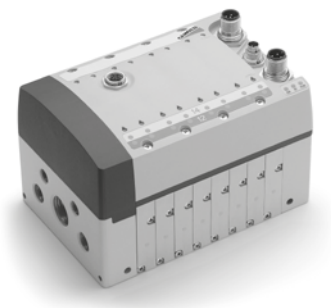
Multipole connection is possible



Fieldbus version YP1P - YP1D - YP1C

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 accomodate 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 electrical Fieldbus connection initial module



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

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

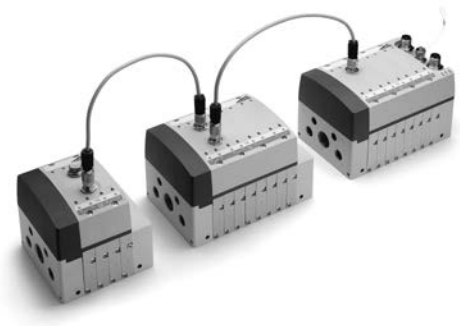
Valve islands with Fieldbus connection (expansion module 2 positions for single assembly)

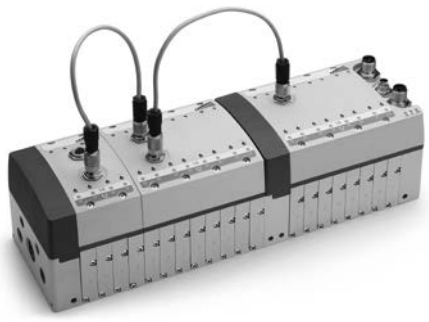
Valve islands with Fieldbus connection (expansion module 8 positions for combined assembly)

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

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

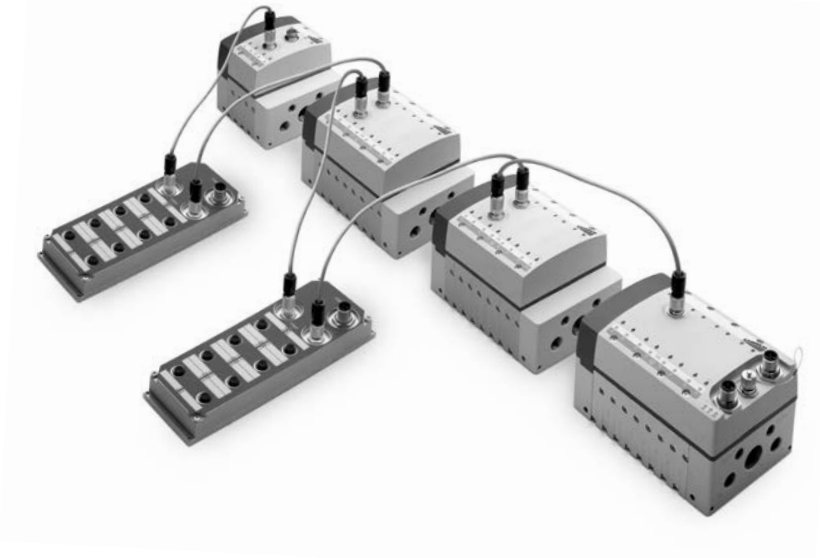
Possibility of Fieldbus connection



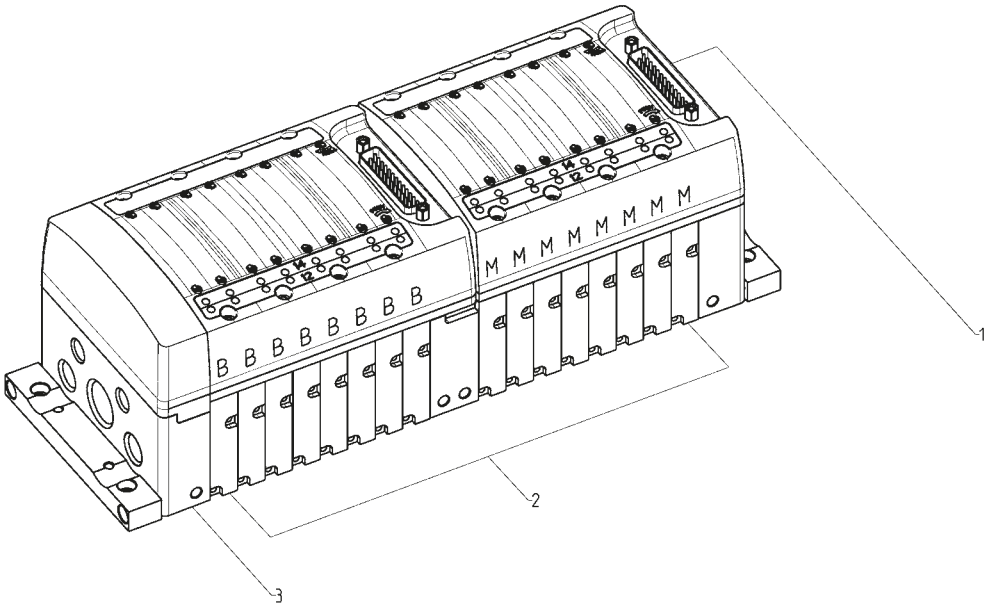


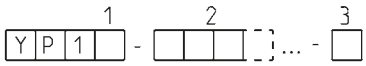
Electrical digital input module ME-1600 DL

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



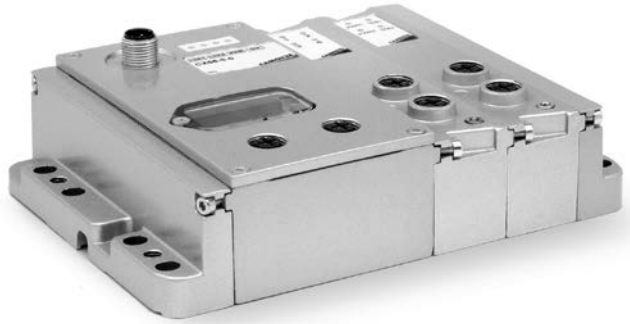


(1) Code	Type of electrical connection	(2) Code	Type of valve	(3) Code	Type of terminal plates
K	Individual		-		-
M	Multipole (PNP)		-		-
P	Profibus-Dp		-		-
D	DeviceNet		-		-
C	CANopen		-		-
E	Expansion		-		-
	-	**M**	5/2 Monostable		-
	-	**B**	5/2 Bistable		-
	-	**V**	5/3 CC		-
	-	**I**	2 x 2/2 1 NO + 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 CX multi-serial module

New

Interface with: PROFIBUS, CANopen, DeviceNet, EtherNet/IP, PROFINET, EtherCAT
Compatible with all Camozzi valve islands



The Series CX serial module, with IP65 protection class, interface with all major serial communication protocols as well as the new generation EtherCAT, EtherNet/IP and PROFINET protocols.
The highly resistant aluminium structure makes it suitable for mountings even in hard application conditions.
This serial module can be coupled with electric input and output modules and is able to handle up to a maximum of 1024 I/O. Its interface modules enable direct connection to Series F, HN and 3 valve islands.
Through a subnet the connection system can be extended to remote valve islands.
Manuals, instruction sheets and configuration files are available on the site http://catalogue.camozzi.com or by means of the QR code indicated on the lable of the product

GENERAL DATA

Number of digital output	1024
Number of digital input	1024
Maximum input absorption	1,5 A
Maximum output absorption	3 A
Logical supply voltage *	24 V DC +/-10%
Power supply voltage *	24 V DC +/-10%
Protection	overload and reverse polarity
Protection class	IP65
Conform with standards	EN-61326-1 EN-61010-1
Operating temperature	0 ÷ 50°C
Material	Aluminium

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

CODING EXAMPLE

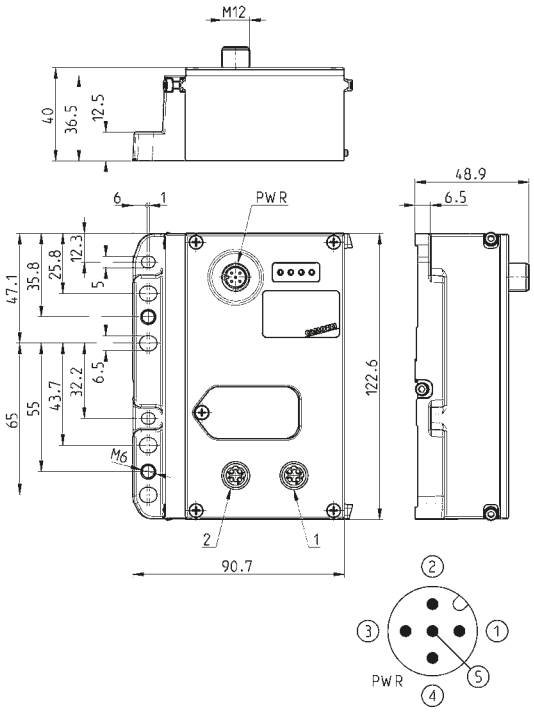
CX	05	-	2AC	-	QT2S

CX	SERIES
05	PROTOCOL: 01 = PROFIBUS 02 = DeviceNet 03 = CANopen 04 = EtherNet/IP 05 = EtherCAT 06 = PROFINET 99 = Expansion Module
2AC	INPUTS: 0 = no module nA = 8 digital inputs M8 nB = 4 digital inputs M8 nC = 2 IN 4-20 mA nD = 2 IN 0-10 V nE = 1 IN 4-20 mA + 1 IN 0-10 V
QT2S	OUTPUTS: 0 = no module nQ = 4 M12 duo digital outputs nR = 2 OUT 4-20 mA nT = 2 OUT 0-10 V nU = 1 OUT 4-20 mA + 1 OUT 0-10 V nV = 1 OUT 4-20 mA + 1 IN 0-10 V nZ = 1 OUT 4-20 mA + 1 IN 4-20 mA nK = 1 OUT 0-10 V + 1 IN 0-10 V nY = 1 OUT 0-10 V + 1 IN 4-20 mA nS = initial subnet module

Fieldbus protocols - Technical data

Protocol	Max nr of nodes defined by the protocol	Communication speed defined by the protocol	Max number of I/O	LED 1 Yellow-Green	LED 2 Yellow-Green	LED 3 Red-Green	LED 4 Red
PROFIBUS	32/127	9,6 kBit/s per 1000 m 12 Mbit/s per < 100 m	1024 Input 1024 Output	absent	Green RUN	Red DIA	Red BF
CANopen	127	125 kBit/s 500 m 1 Mbit/s per 4 m	1024 Input 1024 Output	absent	Green IO	Red DIA	Red BF
DeviceNet	64	125 kBit/s 500 m 500 kbit/s per 100 m	1024 Input 1024 Output	absent	Green RUN	Red NS	Red MF
PROFINET	unlimited	100 Mbit/s per 100 m	1024 Input 1024 Output	Yellow LNK1	Yellow LNK2	Green PWR	Red DIA
EtherNet/IP	unlimited	100 Mbit/s per 100 m	1024 Input 1024 Output	Yellow LNK1	Yellow LNK2	Green PWR	Red DIA
EtherCAT	unlimited	100 Mbit/s per 100 m	1024 Input 1024 Output	Yellow LNK1	Yellow LNK2	Green PWR	Red DIA

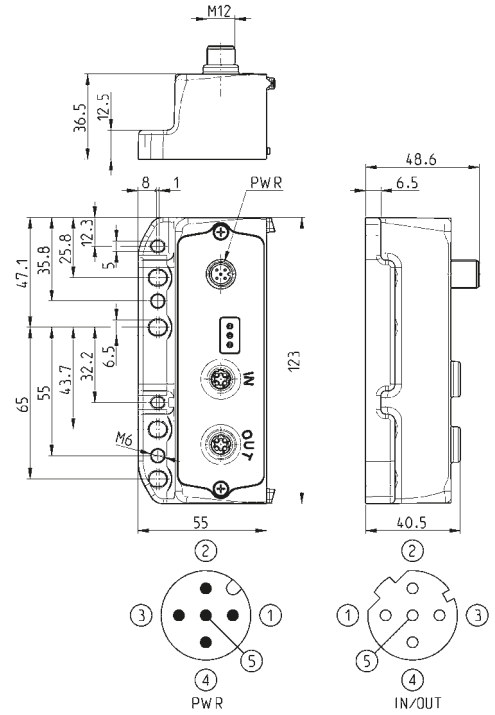
CPU Module - pin configuration



Mod.	Coding reference	Fieldbus Protocol	2	1	Bus-IN connector	Bus-OUT connector
CX01-0-0	01	PROFIBUS	Bus-IN	Bus-OUT	M12 B 5 pin male	M12 B 5 pin female
CX02-0-0	02	DeviceNet	Bus-IN	Bus-OUT	M12 A 5 pin male	M12 A 5 pin female
CX03-0-0	03	CANopen	Bus-IN	Bus-OUT	M12 A 5 pin male	M12 A 5 pin female
CX04-0-0	04	EtherNet/IP	Bus-OUT	Bus-IN	M12 D 5 pin female	M12 D 5 pin female
CX05-0-0	05	EtherCAT	Bus-OUT	Bus-IN	M12 D 5 pin female	M12 D 5 pin female
CX06-0-0	06	PROFINET	Bus-OUT	Bus-IN	M12 D 5 pin female	M12 D 5 pin female

Expansion Module - pin configuration

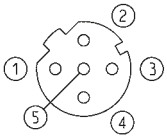
Note: to connect the Expansion with the subnet, we recommend the use of cables Mod. CS-SB04HB-... or CS-SC04HB-...



Mod.	Coding reference	Fieldbus Protocol	Bus-IN and Bus-OUT connector
CX99-0-0	99	Subnet expansion	M12 D 5 pin female

Initial subnet module Mod. ME3-0000-SL

This module can be connected only in presence of a CPU or Expansion module and can be mixed with other either digital or analog Input and Output devices.
Every subnet can have an extension of maximum 100 metres, with a maximum of 8 interruptions. Up to maximum 5 initial modules can be connected, one aside another or along the subnet in order to create a tree structure, in series or both, in order to optimize the length of the cables and the topology of the subnet in different applications. The module is equipped with the Bus-OUT connection only of subnet type M12 D 5 pin female.

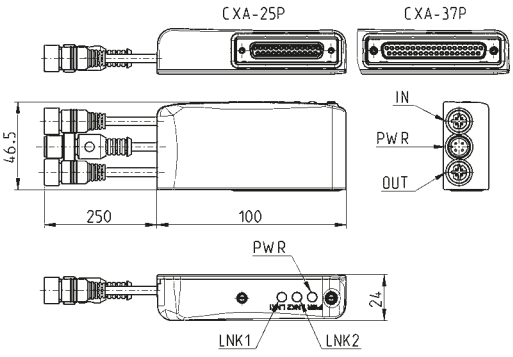


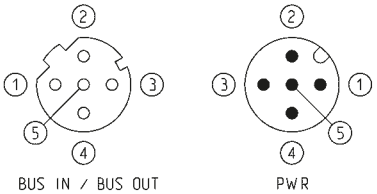
Mod.	Coding reference	Bus-OUT connection	Max number of modules for subnet	Max extension of subnet per module
ME3-0000-SL	S	M12D 5 pin female	5	100 m

Sub-D adaptor module 25 and 37 pin Mod. CXA-25P and CXA-37P

Led 1 = Yellow LNK1
Led 2 = Yellow LNK2
Led 3 = Green PWR, supply present and OK

It is an Expansion module of the subnet and can be connected to all valve islands with Sub-D 25 pin connection (Series F, HN and 3) or 37 pin connection (Series HN). It has its own M12A 4 pin male connection for the supply of the valves connected, distinguishing both logic supply and power supply and two M12 D 5 pin female connections for the Bus-IN and Bus-OUT of the subnet. The subnet can have a length of maximum 100 metres. The 25 pin adaptor module manages a fixed number of 24 digital outputs, while the 37 pin adaptor module manages a fixed number of 32 digital outputs. In both cases, every output can provide a maximum of 3 W to 24 V DC, with PWM outputs for which it is possible to set the working frequency value.





Mod.	Interface	Digital Outs	Bus-IN connection	Bus-OUT connection	PWR connection	Supply	Power for every Output
CXA-25P	Sub-D 25 pin	24	M12D 5 pin female	M12D 5 pin female	M12A 4 pin male	24 V DC	3 W
CXA-37P	Sub-D 37 pin	32	M12D 5 pin female	M12D 5 pin female	M12A 4 pin male	24 V DC	3 W

Connectors and accessories for valve islands

Straight Sub-D 25-pole female connector for Series 3 Plug-In, Y Multipole and F
Mod.
G3X-3 **G4X-10**
G3X-5 **G4X-15**
G3X-10 **G4X-20**
G3X-15 **G4X-25**
G3X-20
G3X-25
G4X-3
G4X-5

Angular Sub-D 25-pole female connector for Series 3 Plug-In, Y Multipole and F
Mod.
G3X1-3 **G4X1-10**
G3X1-5 **G4X1-15**
G3X1-10 **G4X1-20**
G3X1-15 **G4X1-25**
G3X1-20
G3X1-25
G4X1-3
G4X1-5

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

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

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

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

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

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

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

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

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

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

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)

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

Expansion cable for Series Y and HN
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, HN and CX)
Mod.
CS-DW03HB-C250
CS-DW03HB-C500

Cable with straight connectors For PROFINET, EtherCAT, EtherNet/IP and subnet
Mod.
CS-SB04HB-D100
CS-SB04HB-D500
CS-SB04HB-DA00

Cable with 90° angular connectors For PROFINET, EtherCAT, EtherNet/IP and subnet
Mod.
CS-SC04HB-D100
CS-SC04HB-D500
CS-SC04HB-DA00

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

Adaptor and panel mount for Ethernet RJ45 to M12 D networks For PROFINET, EtherCAT, EtherNet/IP
Mod.
CS-SE04HB-F050

25M-25F Sub-D adaptor
For Series Y valve islands with CXA-25P
Mod.
G2X-G2W

Blanking plug for Series 3 Fieldbus, HN and CX Modules
Mod.
CS-DFTP
CS-LFTP

Subnet terminating resistor
Mod.
CS-SU04H0

Male wiring connector for Bus-IN and Bus-OUT.
For PROFINET, EtherCAT, EtherNet/IP and for the subnet
Mod. **CS-SM04H0**

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

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 HN
Mod.
CS-AA05EC

Series 2 mechanically operated minivalves

3/2-way
Ports: M5. Cartridge ø 4

Mod. **234-945**
235-945

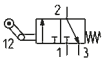
Mod. **244-945**
245-945

Mod. **234-985**
235-985

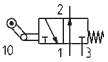
Mod. **244-985**
245-985

Mod. **234-955**
235-955

Mod. **244-955**
245-955



Mod. **234-965**
235-965



Mod. **244-965**
245-965

CODING EXAMPLE

2	3	4	-	94	5

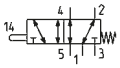
2	SERIES
3	FUNCTION: 3 = 3/2-way NC 4 = 3/2-way NO
4	PORTS: 4 = cartridge ø 4 5 = M5
94	ACTUATION: 94 = plunger 95 = lever/roller 96 = unidirectional lever 98 = plunger, panel mounting
5	RESETTING: 5= spring return

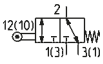
Series 1 and 3 mechanically operated valves

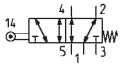
Series 1: 3/2-way, 5/2-way. Ports: G1/8, G1/4
Series 3: 3/2-way, 5/2-way. Ports: G1/8

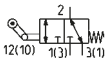


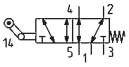
Mod. **338-945**



Mod. **358-945**



Mod. **338-955**



Mod. **358-955**



Mod. **338-965**

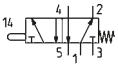


Mod. **358-965**



Mod. **138-945**

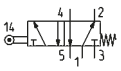


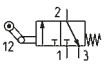
Mod. **148-945**



Mod. **158-945**



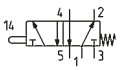
Mod. **138-955**



Mod. **158-955**



Mod. **138-965**

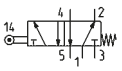


Mod. **134-945**



Mod. **154-945**



Mod. **134-955**



Mod. **154-955**

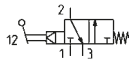
CODING EXAMPLE

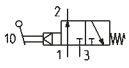
3	3	8	-	94	5

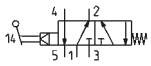
3	SERIES: 1 3
3	FUNCTION: 3 = 3/2 ways NC 4 = 3/2 ways NO (only Series 1) 5 = 5/2 ways
8	PORTS: 8 = G1/8 4 = G1/4 (only Series 1)
94	ACTUATION: 94 = plunger 95 = lever/roller 96 = unidirectional roller
5	RESETTING: 5 = spring return

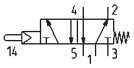
Series 3 and 4 mechanically operated sensor valves

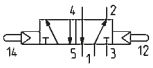
3/2-way, 5/2-way
Ports: G1/8, G1/4

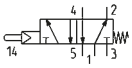


Mod. **338-D15-9A5**

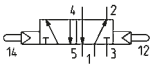


Mod. **348-D15-9A5**

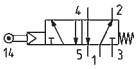


Mod. **358-D15-9A5**

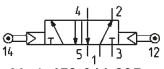


Mod. **458-015-194**

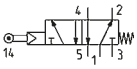


Mod. **458-011-294**

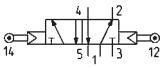


Mod. **454-015-194**



Mod. **454-011-294**



Mod. **458-015-195**



Mod. **458-011-295**



Mod. **454-015-195**



Mod. **454-011-295**

CODING EXAMPLE

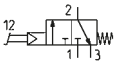
3	3	8	-	D15	-	9A5

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

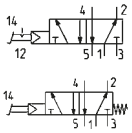
Series 3: G1/4, 5/2-way, normally closed (NC) and normally open (NO)
Series 2: M5, 4/2 tube, 3/2-way, normally closed (NC)

Pneumatic foot operated pedal Series 2



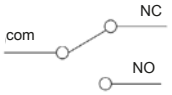
Mod. **234-925**
235-925

Pneumatic foot operated pedal Series 3



Mod. **354N-925**

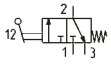
Electrical foot operated pedal Series 3



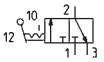
Mod. **3E2-925**

Series 2 manually operated console minivalves

3/2-way, 5/3-way CC CO CP
Ports: M5. Cartridge ø 4



Mod. **234-905**
235-905



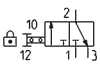
Mod. **234-990**
235-990

Mod. **234-895**
235-895

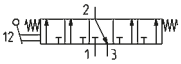
Mod. **234-975**
235-975

Mod. **234-972**
235-972

Mod. **284-870**
285-870

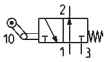


Mod. **234-904**
235-904



Mod. **234-9054**
235-9054

Mod. **234-000**
235-000



Mod. **284-000**
285-000

Panel hole adaptor ø 30
Supplied with:
2x reduction rings

Mod. **200-2230**

End cover

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

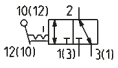
CODING EXAMPLE

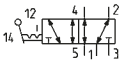
2	3	4	-	97	5

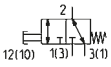
2	SERIES
3	FUNCTION: 3 = 3/2-way NC 4 = 3/2-way NO 8 = 5/3-way CO (function realized with 2x 3/2-way NC valves)
4	PORTS: 4 = cartridge ø 4 5 = M5
97	MODE OF OPERATION: 87 = 3 position selector 89 = push button 97 = palm switch 90 = joystick 99 = 2 position selector 92 = pedal 904 = key
5	RESETTING: 5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

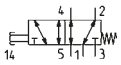
Series 1, 3, 4 and VMS manually operated valves

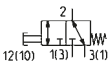
Series 1, 3 and 4: 3/2-way, 5/2-way, 5/3-way CC CO CP. Ports G1/8, G1/4
Series VMS: 3/2-way. Ports M5, G1/8, G1/4, G3/8, G1/2 and G3/4

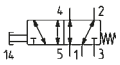


Mod. **338-990**

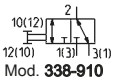


Mod. **358-990**

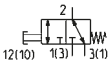


Mod. **338-895** Black
338-896 Green
338-897 Red

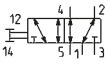


Mod. **358-895** Black
358-896 Green
358-897 Red

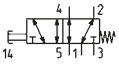


Mod. **338-975** Black
338-976 Green
338-977 Red

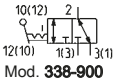


Mod. **358-975** Black
358-976 Green
358-977 Red

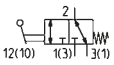


Mod. **338-910**

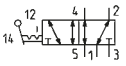

Mod. **338-915**

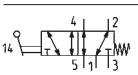


Mod. **358-910**

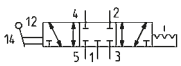

Mod. **358-915**

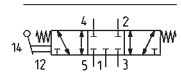


Mod. **338-900**

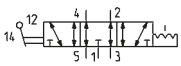

Mod. **338-905**

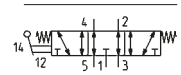


Mod. **358-900**

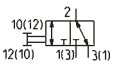

Mod. **358-905**

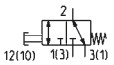


Mod. **368-900**

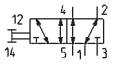

Mod. **368-905**

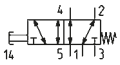


Mod. **378-900**

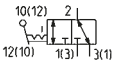

Mod. **378-905**

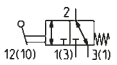

Mod. **434-910**

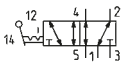

Mod. **434-915**

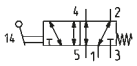

Mod. **454-910**

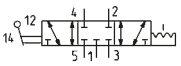

Mod. **454-915**

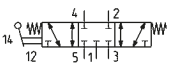

Mod. **434-900**

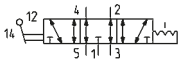

Mod. **434-905**

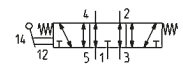

Mod. **454-900**


Mod. **454-905**


Mod. **464-900**


Mod. **464-905**

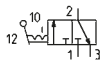

Mod. **474-900**

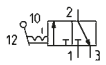

Mod. **474-905**

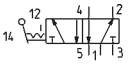

Mod. **VMS-105-M5**
VMS-112-1/2
VMS-114-1/4
VMS-118-1/8
VMS-134-3/4
VMS-138-3/8

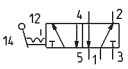

Mod. **138-935**


Mod. **134-935**


Mod. **138-900**


Mod. **134-900**


Mod. **158-900**


Mod. **154-900**

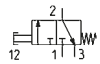
CODING EXAMPLE

3	3	8	-	900

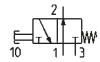
3	SERIES: 1 3 4
5	FUNCTION: 3 = 3/2-way NC 5 = 5/2-way 6 = 5/3-way CC 7 = 5/3-way CO
8	PORTS: 8 = G1/8 4 = G1/4
900	RESETTING: 895 = pushbutton, monostable, black 896 = pushbutton, monostable, green 897 = pushbutton, monostable, red 900 = lever, bistable 905 = lever, monostable 910 = knob, bistable 915 = 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

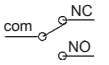
Handle with incorporated micro valve 3/2, normally closed (NC) and normally open (NO)
Handle with incorporated micro switch



Mod. **234-885**



Mod. **244-885**



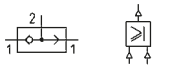
Mod. **234-88E**

Series 2L basic logic valves

Cartridge ø 4 mm
or - and - yes - not - memory

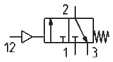
Basic logic valves AND / OR

Mod. **2LD-SB4-B (AND)**

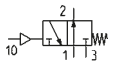


Mod. **2LR-SB4-B (OR)**

Basic logic valves YES / NOT

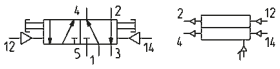


Mod. **2LS-SB4-B (YES)**



Mod. **2LT-SB4-B (NOT)**

Basic logic valves “Memory”

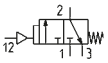


Mod. **2LM-SB4-B (MEMORY)**

Right-angled bracket

Mod. **2LQ-8A**

Pneumatically operated 3/2 NC amplifier valve - G1/8 ports



Mod. **2LA-AM**

Sender and receiver sensor Series 2L - M5 ports

Mod. **2LB-SR (RECEIVER)**

Mod. **2LB-SE (SENDER)**

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

Circuit selector Mod. SCS
Ports: G1/8

Mod. **SCS 668-06**

Series VNR unidirectional valves
Ports: M5, G1/8, G1/4, G3/8, G1/2, G3/4, G1

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
Ports: M5, G1/8, cartridge ø4

Mod. **VSO 425-M5**

Series VSO quick exhaust valves
Ports: M5, G1/8, cartridge ø4

Mod. **VSO 426-04**

Series VSC quick exhaust valves
Ports: G1/8, G1/4, G1/2

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

Valves with adjustable exhaust Mod. VMR
Ports: G1/8

Mod. **VMR 1/8-B10**

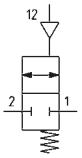
Series VBO and VBU blocking valves

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

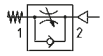
CODING EXAMPLE

VB	U		1/8

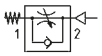
VB	SERIES
U	VERSIONS: U = unidirectional O = bidirectional
1/8	PORTS: 1/8 = G1/8 1/4 = G1/4 3/8 = G3/8 1/2 = G1/2

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



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

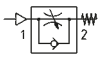
Types

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

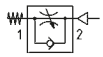


Mod. **SVU 602-M5**
SVU 604-1/8
SVU 606-1/4

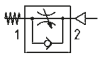
Mod. **MVU 702-M5**
MVU 704-1/8
MVU 706-1/4

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

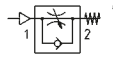
Mod. **MCO 702-M5**
MCO 704-1/8
MCO 706-1/4



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 = ø 1,5 max 04 = ø 2 max 06 = ø 4 max 08 = ø 7 max 10 = ø 12 max
M5	PORTS: M5 = M5 1/8 = G1/8 1/4 = G1/4 3/8 = G3/8 1/2 = G1/2

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

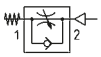
Series PSCU, PMCU, PSVU, PMVU, PSCO and PMCO flow control valves

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)

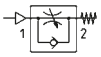
Mod. **PSCU 602-M5-4**
PSCU 602-M5-6
PSCU 604-1/8-4
PSCU 604-1/8-6
PSCU 604-1/8-8
PSCU 606-1/4-6
PSCU 606-1/4-8
PSCU 606-1/4-10
PSCU 608-3/8-10
PSCU 608-3/8-12

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

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



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



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

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

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

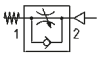
CODING EXAMPLE

P	M	CU		7	04	-	1/8	-	4

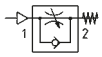
P	SERIES
M	ACTUATION: M = Manual S = Screwdriver
CU	ASSEMBLY: CU = on cylinders unidirectional VU = on valves unidirectional CO = bidirectional
7	VERSIONS: 6 = needle (screwdriver operated) 7 = needle (manual operated)
04	NOMINAL DIAMETER: 02 = ø 1.5 MAX 04 = ø 2 MAX 06 = ø 4 MAX 08 = ø 7 MAX
1/8	PORTS: 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 ø 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	ø 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 = ø 4 mm
6 = ø 6 mm
8 = ø 8 mm
10 = ø 10 mm

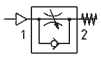
Series GSCU, GMCU, GSVU, GMVU, GSCO and GMCO flow control valves

Unidirectional and bidirectional banjo flow control regulators
Nominal diameters 1,5 - 3,5 - 5 mm
Ports M5, G1/8, G1/4

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

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

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



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

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

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

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 = ø 1.5 mm max (for ports M5) ø 2 mm max (for ports 1/8 only) 3 = ø 3 mm max (for ports 1/8 only) 4 = ø 4 mm max (for ports 1/4 only) 6 = ø 6 mm max (for ports 1/4 only) 7 = ø 7 mm max (for ports 3/8, 1/2 only)
1/8	PORTS: M5 1/8 1/4 3/8 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

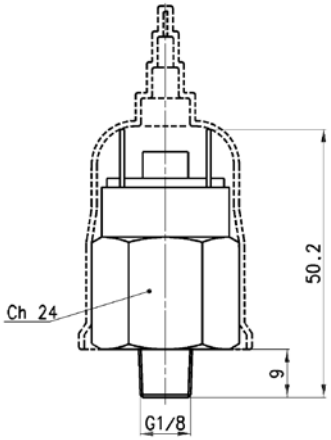
Series PM adjustable-diaphragm pressure switches
Normally closed (NC) or normally open (NO)
Ports G1/8

Mod. **PM11-NC**

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

Mod. **PM11-NA**

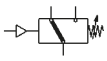
NO = The pressure switch closes an electric contact when it reaches the fixed pressure



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

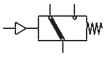
Mod. **PM681-1**
PM681-3

Series PM pressure switch with exchange contacts



Mod. **PM11-SC**

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



Mod. **TRP-8**

The pressure indicator Mod. 2950-M5 is passive element (no spring, red colour)
It is useful for detecting pressure manually without having to remove the connections

Mod. **2950 M5**

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

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

Series SWDN electronic vacuum/pressure switches

With digital display
High precision, easy to use

Mod.
SWDN-V01-P3-2
SWDN-V01-P4-2
SWDN-V01-P4-M
SWDN-P10-P3-2
SWDN-P10-P4-2
SWDN-P10-P4-M

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

Accessories

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 SWCN electronic vacuum/pressure switches

With digital display
High precision, easy to use

Mod.
SWCN-V01-P3-2
SWCN-V01-P4-2
SWCN-V01-P4-M
SWCN-P10-P3-2
SWCN-P10-P4-2
SWCN-P10-P4-M

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
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)

Mounting bracket
Supplied with:
- 4 fixing screws M4x5 ISO 724 (fine pitch)
- 1 fixing bracket for surface mounting
- 1 fixing bracket for wall mounting

Mod. **SWCN-B**

Panel mounting set
Supplied with:
- 1 pressure switch holder
- 2 panel mounting brackets

Mod. **SWCN-F**

Panel mounting set + transparent cover
Supplied with:
- 1 pressure switch holder
- 2 panel mounting brackets
- 1 transparent cover

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 M5**
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

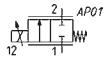
Mod. **2905 1/8**
2905 1/4
2905 3/8

Series AP directly operated proportional valves

New models

2/2-way proportional valves
Normally closed (NC). Sizes: 16, 22 mm
Bodies with rear and lower flanges

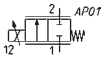
Size 16 mm



Mod. **AP-6210-DR2-GP***
AP-6210-FR2-GP*
AP-6210-HR2-GP*
AP-6210-LR2-GP*
AP-6210-DW2-GP*OX2
AP-6210-FW2-GP*OX2
AP-6210-HW2-GP*OX2
AP-6210-LW2-GP*OX2

* = choose the desired voltage

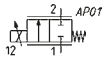
Size 16 mm with lower flanges



Mod. **AP-6215-DR2-GP***
AP-6215-FR2-GP*
AP-6215-HR2-GP*
AP-6215-LR2-GP*
AP-6215-DW2-GP*OX2
AP-6215-FW2-GP*OX2
AP-6215-HW2-GP*OX2
AP-6215-LW2-GP*OX2

* = choose the desired voltage

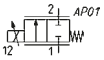
Size 16 mm with rear flanges



Mod. **AP-6214-DR2-GP***
AP-6214-FR2-GP*
AP-6214-HR2-GP*
AP-6214-LR2-GP*
AP-6214-DW2-GP*OX2
AP-6214-FW2-GP*OX2
AP-6214-HW2-GP*OX2
AP-6214-LW2-GP*OX2

* = choose the desired voltage

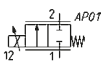
Size 22 mm



Mod. **AP-7211-FR2-U7***
AP-7211-HR2-U7*
AP-7211-LR2-U7*
AP-7211-NR2-U7*
AP-7211-QR2-U7*
AP-7211-FW2-U7*OX2
AP-7211-HW2-U7*OX2
AP-7211-LW2-U7*OX2
AP-7211-NW2-U7*OX2
AP-7211-QW2-U7*OX2

* = choose the desired voltage

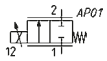
Size 22 mm with lower flanges



Mod. **AP-7215-FR2-U7***
AP-7215-HR2-U7*
AP-7215-LR2-U7*
AP-7215-NR2-U7*
AP-7215-QR2-U7*
AP-7215-FW2-U7*OX2
AP-7215-HW2-U7*OX2
AP-7215-LW2-U7*OX2
AP-7215-NW2-U7*OX2
AP-7215-QW2-U7*OX2

* = choose the desired voltage

Size 16 mm with body in PVDF



Mod. **AP-621L-DR3-GP***
AP-621L-FR3-GP*
AP-621L-HR3-GP*
AP-621L-LR3-GP*
AP-621L-DW3-U7*OX2
AP-621L-FW3-U7*OX2
AP-621L-HW3-U7*OX2
AP-621L-LW3-U7*OX2

* = choose the desired voltage

CODING EXAMPLE

AP	-	7	2	1	1	-	L	R	2	-	U	7	11	OX2

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 (size 16 mm only) 1 = G1/8 (size 22 mm only) L = male hose adaptor (for body in PVDF only, size 16 mm) 4 = with rear flange 5 = with lower flange
L	NOMINAL DIAMETER: D = 0.8 mm (for size 16 mm only) L = 1.6 mm F = 1 mm N = 2 mm (for size 22 mm only) H = 1.2 mm Q = 2.4 mm (for size 22 mm only)
R	SEALS MATERIAL: R = NBR - W = FKM
2	BODY MATERIAL: 2 = OT - 3 = PVDF (for size 16 mm only)
U	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)
OX2	VERSION: OX2 = version with ASTM G93-03 Certification Level B (FKM seals only) = non-certified NBR version

Connectors for Series AP directly operated proportional valves

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 *

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

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

Connectors DIN 43650
Mod. **124-800**

Series CP directly operated proportional solenoid valves

New models

2/2 NC proportional valves
Sizes: 16 and 20 mm

Size 16 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

Size 20 mm

Mod. **CP-C721-MW2-072**
CP-C721-MW2-074
CP-C721-MW2-076
CP-C721-PW2-072
CP-C721-PW2-074
CP-C721-PW2-076

CODING EXAMPLE

CP	-	C	6	2	1	-	G	W	2	-	0	P	3

CP	SERIES
C	PORTS: C = cartridge S = subbase
6	BODY SIZE: 6 = 16 mm 7 = 20 mm
2	NUMBER OF PORTS: 2 = 2-way
1	FUNCTION: 1 = NC
G	ORIFICE DIAMETRES: F = 1 mm G = 1.5 mm N = 2 mm M = 3 mm P = 3.5 mm
W	GASKETS MATERIAL: W = FKM
2	BODY MATERIAL: 2 = brass
0	OVERMOULDING MATERIAL OF COIL: 0 = cartridge
P	DIMENSIONS OF THE COIL: P = ø 16 7 = ø 20
5	VOLTAGE: 1 = 6 V DC 3.1 W (size 16 mm only) 5 = 11 V DC 3.1 W (size 16 mm only) 3 = 24 V DC 3.1 W (size 16 mm only) 6 = 6 V DC 4.3 W (size 20 mm only) 2 = 12 V DC 4.3 W (size 20 mm only) 4 = 24 V DC 4.3 W (size 20 mm only) 7 = 6 V 4.8 W (only ø 3.5, size 20 mm) 8 = 12 V 4.8 W (only ø 3.5, size 20 mm) 9 = 24 V 4.8 W (only ø 3.5, size 20 mm)

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 digital proportional servo valves

3/3-way directly operated servo valves for the flow (LRWD2), pressure (LRPD2) and position (LRXD2) control

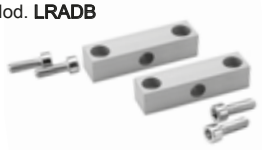
CODING EXAMPLE

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 - X = position control	
D	ELECTRONICS: D = digital	
2	MODEL: 2 = compact DIN-RAIL	
3	FUNCTION: 3 = 3/3-way	
4	NOMINAL DIAMETER: 4 = 4 mm - 6 = 6 mm	
1	COMMAND SIGNAL (Setpoint): 1 = +/- 10 V - 2 = 0-10 V - 4 = 4-20 mA	
A	INPUT SIGNAL: 2 = 0 - 10 V (LRPD2 and LRXD2 only) 4 = 0 - 5V (LRPD2 and LRXD2 only) 5 = 4 - 20mA (LRPD2 and LRXD2 only)	A = internal encoder (LRWD2 only) B = 1 bar (internal sensor - LRPD2 only) D = 10 bar (internal sensor - LRPD2 only) E = 250 mbar (internal sensor - LRPD2 only) F = +1/-1 bar (internal sensor - LRPD2 only)
00	CABLE LENGTH: 00 = no cable	2F = straight cable of 2 m 2R = 90° cable of 2 m 5F = straight cable of 5 m 5R = 90° cable of 5 mLRWD2

Accessories

Fixing foot
Supplied with:
2x feet
4x screws
Mod. **LRADB**



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**

Electrical tee box
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)

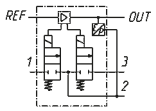
Cable with straight female connector M12 8 poles
For electrical supply and commands
Mod. **CS-LF08HB-C200** (cable 2 m)
CS-LF08HB-C500 (cable 5 m)

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)

USB to Micro USB cable
For the hardware configuration of the Camozzi products
Mod. **G11W-G12W-2** (cable 2 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

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

Accessories

Rapid clamp kit Mod. MX2-...
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
Mod.
MX2-X
MX2-Z

Rapid clamp kit with wall fixing brackets for Series MX - size 2
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
Mod.
MX2-Y

Terminal flanges (IN/OUT)
The kit is supplied with: 1 flange INLET side, 1 flange OUTLET side
Materials: painted aluminium flanges
Mod.
MX2-3/8-FL
MX2-1/2-FL
MX2-3/4-FL

Rapid clamps kit + flanges
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

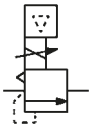
Rapid clamps kit with wall fixing brackets + flanges
The kit is supplied with:
MX2-3/8-KK 1x MX2-3/8-FL + 2x MX2-Y
MX2-1/2-KK 1x MX2-1/2-FL + 2x MX2-Y
MX2-3/4-KK 1x MX2-3/4-FL + 2x MX2-Y

Block for pressure gauge fixing
The kit is supplied with:
1 block, 1 grain, 2 screws, 1 seal
Mod.
MX2-R26-P

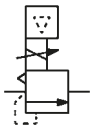
O-ring for assembly
Mod.
160-39-11/19
(Joint torique OR 3125)

Series ER100 and ER200 digital electro-pneumatic regulators

Series ER100 ports: G1/4
Series ER200 ports: G1/4, G3/8



Mod. **ER104-50AP**
ER104-50SP
ER104-52AP
ER104-52SP
ER104-5PSP
ER 104-90AP
ER104-90SP
ER104-92AP
ER104-92SP
ER104-9PSP



Mod. **ER238-50AP**
ER238-50SP
ER238-52AP
ER238-52SP
ER238-5PSP
ER238-90AP
ER238-90SP
ER238-92AP
ER238-92SP
ER238-9PSP

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

Bracket for Series ER100
floor installation
Mod. **ER1-B1**

Bracket for Series ER100
wall installation
Mod. **ER1-B2**

Bracket for Series ER200
floor installation
Mod. **ER2-B1**

Bracket for Series ER200
wall installation
Mod. **ER2-B2**

Cable and connector
for Series ER200 regulator
with analog Input
Mod. **G8X1-1**
G8X1-3

Cable and connector
for Series ER200 regulator
with parallel Input
Mod. **G8X2-1**
G8X2-3

3 > Treatment

Series MX Modular FRL Units

Series MC Modular FRL Units

Series MD Modular FRL Units

FRL Units

Pressure regulators

Accessories for the air treatment

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

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

FC01 =
Absorption function
without cup hole

CODING EXAMPLE

MX	2	-	3/8	-	FCA	-	LH

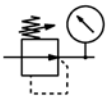
MX	SERIES
2	SIZE: 2 = G3/8 - G1/2 - G3/4 3 = G3/4 - G1
3/8	PORT: 3/8 = G3/8 1/2 = G1/2 3/4 = G3/4 1 = G1
FCA	ACTIVATED CARBON FILTER
LH	FLOW DIRECTION: = from left to right (standard) LH = from right to left

Series MX pressure regulators

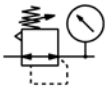
MX2 ports: G3/8, G1/2, G3/4 - MX3 ports: G3/4, G1
Manifold ports: G1/2 (MX2 only)
Modular. Available with built-in pressure gauges or ports for gauges

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

LU01 = lubricator

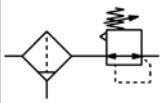
CODING EXAMPLE

MX	2	-	3/8	-	L	00	-	LH

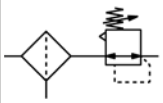
MX	SERIES
2	SIZE: 2 = G3/8 - G1/2 - G3/4 3 = G3/4 - G1
3/8	PORT: 1/2 = G1/2 3/4 = G3/4 1 = G1
L	LUBRICATOR
00	DESIGN TYPE: 00 = atomized oil
LH	FLOW DIRECTION: = from left to right (standard) LH = from right to left

Series MX filter-regulators

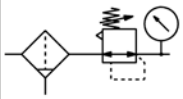
MX2 ports: G3/8, G1/2, G3/4 - MX3 ports: G3/4, G1
Modular
Bowl with technopolymer cover and bayonet-type mounting



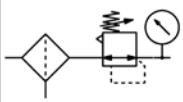
FR01 = filter-regulator with relieving and manual drain



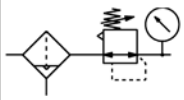
FR02 = filter-regulator with relieving and without drain



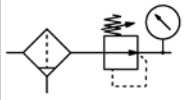
FR03 = filter-regulator with relieving, manual drain and pressure gauge



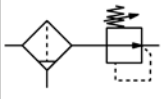
FR04 = filter-regulator with relieving, without drain and with pressure gauge



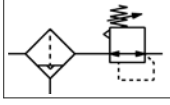
FR05 = filter-regulator with relieving, automatic drain and pressure gauge



FR10 = filter-regulator with manual drain, without relieving and with pressure gauge



FR11 = filter-regulator with manual drain and without relieving



FR18 = filter-regulator with relieving and automatic drain

CODING EXAMPLE

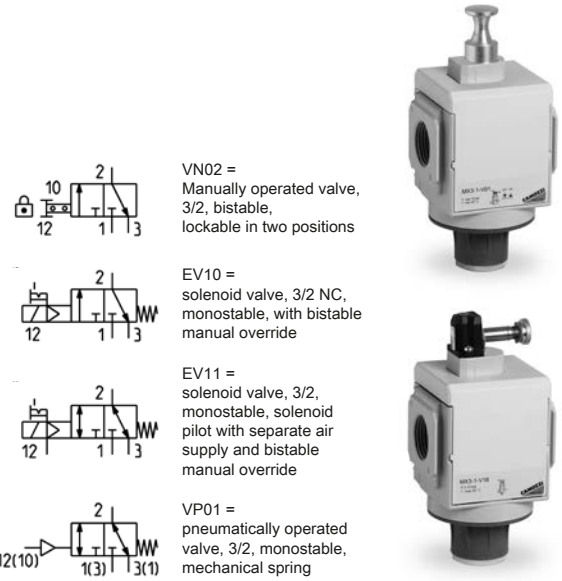
MX	2	-	3/8	-	FR	0	0	0	4	-	LH

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

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

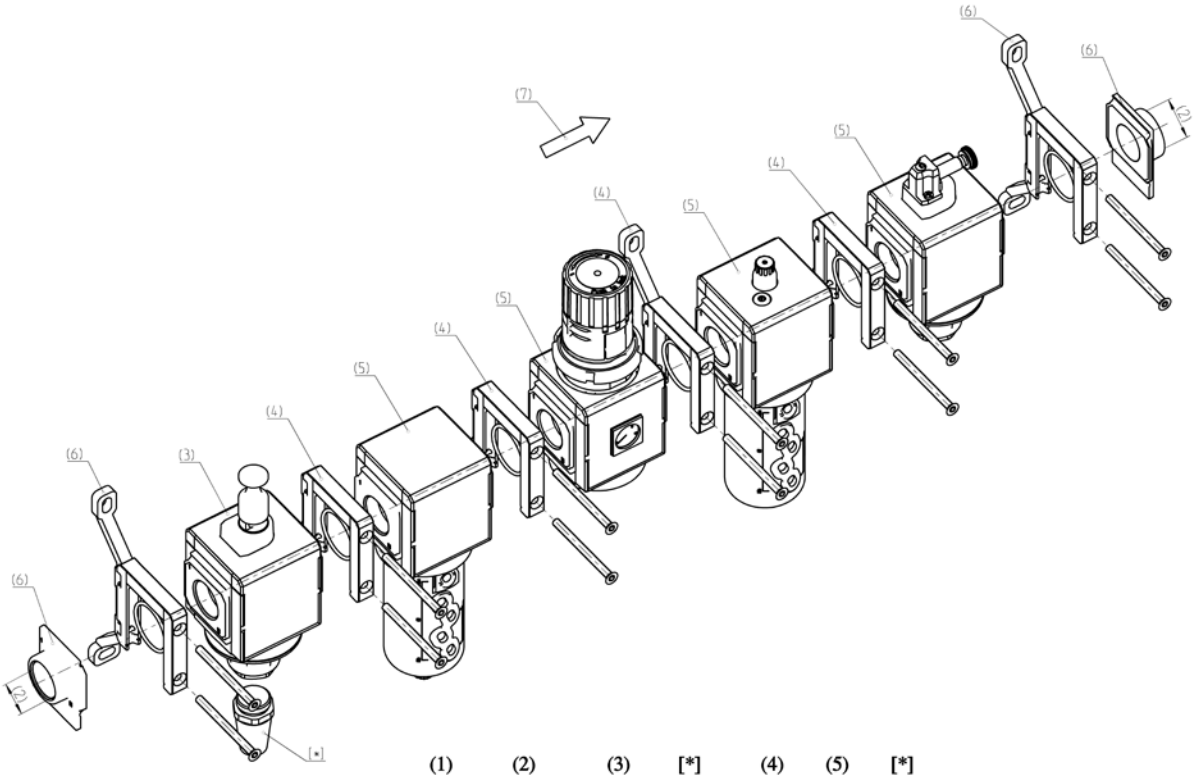
MX	2	-	1/2	-	B	00	-	LH

MX	SERIES
2	SIZE: 2 = G1/2 - 3 = G1
1/2	PORT: 1/2 = G1/2 - 1 = G1
B	TAKE-OFF BLOCK
00	DESIGN TYPE: 00 = without no return valve [VNR] (standard) 01 = with no return valve [VNR] 02 = without no return valve [VNR], with double O-ring seat
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



Configuration of the assembled group in the drawing below:
MX2-3/8-V01+A32XF00XR004YL00XV16-KK

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

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

PR01 =
regulator
without relieving

PR02 =
regulator
with relieving

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

LU01 =
lubricator

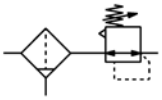
CODING EXAMPLE

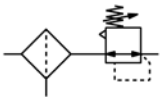
MC	2	02	-	L	00

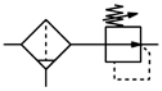
MC	SERIES
2	SIZE: 1 = G1/4 2 = G3/8 - G1/2
02	PORTS: 04 = G1/4 38 = G3/8 02 = G1/2
L	LUBRICATOR
00	DESIGN TYPE: 00 = atomized oil

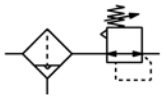
Series MC filter-regulators

Ports G1/4, G3/8 and G1/2
Modular
Metal bowl and bayonet-type mounting


FR01 =
filter-regulator
with relieving
and manual drain


FR02 =
FR with relieving
and without drain


FR11 =
FR with manual drain
and wiithout relieving


FR18 =
FR with relieving
and automatic drain

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

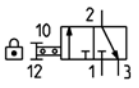
0 DRAINING OF CONDENSATE *:
0 = manual semiautomatic, self-relieving
1 = manual semiautomatic, non relieving
3 = automatic, self-relieving (only for G3/8 and G1/2)
4 = depressurisation, self-relieving (only G1/4)
5 = depressurisation, protected, self-relieving
8 = no drain, port G1/8, self-relieving

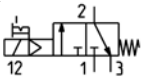
4 WORKING PRESSURE
= 0,5 ÷ 10
2 = 0 ÷ 2 (only G1/4)
4 = 0 ÷ 4
7 = 0,5 ÷ 7 (only G1/4)

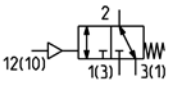
* = Further details about condensate drains are available at the end of this chapter

Series MC lockable isolation 3/2-way valves

Electropneumatic, pneumatic and manual version
Ports G1/4, G3/8 and G1/2
Modular


VN02 =
manually operated valve,
3/2, bistable,
lockable in two positions


EV10 =
solenoid valve,
3/2 NC, monostable,
with bistable manual
override


VP01 =
pneumatically operated
valve, 3/2, monostable,
mechanical spring

CODING EXAMPLE

MC	2	02	-	V	16

MC SERIES

2 SIZE:
1 = G1/4
2 = G3/8 - G1/2

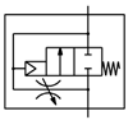
02 PORTS:
04 = G1/4
38 = G3/8
02 = G1/2

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

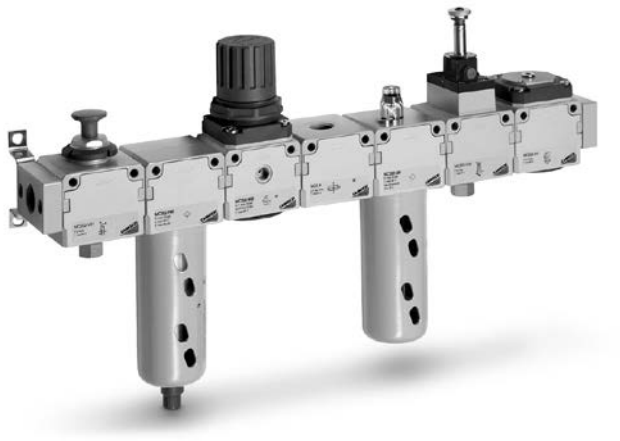
CODING EXAMPLE

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

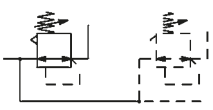
5 FILTERING ELEMENT:
5 = 5 µm (standard)
25 = 25 µm (upon request)

FL VERSION:
FL = with terminal flanges (without brackets)

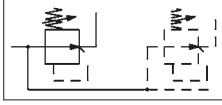
LEGEND:
D = Filter-regulator 0.5-10 bar, semi-automatic-manual drain with relieving, filtering element 5 µm or 25 µm
L = Lubricator
V01 = 3/2-way manually operated valve
F = Filter 5 µm or 25 µm
R = Regulator 0.5-10 bar with relieving
V16 = 3/2-way electropneumatically operated valve
AV = Soft start 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



FR19 =
Manifold regulator
with relieving
without pressure gauge



FR21 =
Manifold regulator
without relieving
without pressure gauge

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 MD filters

New

Ports with interchangeable cartridges: threaded (1/8, 1/4, 3/8) or integrated with super-rapid fitting for tube with ø 6, 8 and 10 mm. Modular assembly
Bowl with technopolymer cover and bayonet-type mounting

FT01 =
filter without drain
with threaded port

FT02 =
filter with semiautomatic
manual drain

FT03 =
filter with automatic
or depressuring drain

CODING EXAMPLE

MD	1	-	F	0	0	0	-	1/8

MD	SERIES
1	DIMENSION: 1 = 42 mm
F	FILTER
0	FILTERING ELEMENT: 0 = 25 µm 1 = 5 µm
0	CONDENSATE DRAIN *: 0 = semiautomatic-manual drain 5 = automatic drain, protected depressurisation 8 = direct G1/8 exhaust
0	VISUAL BLOCKAGE INDICATOR: 0 = not present 1 = present
1/8	PORTS (IN - OUT)*: = without cartridges 1/8 = G1/8 1/4 = G1/4 3/8 = G3/8 6 = tube ø 6 8 = tube ø 8 10 = tube ø 10

* NOTE: if the inlet (IN) cartridge is di erent from the outlet (OUT) cartridge, both dimensions shall be indicated.
Example: MD1-F000-1/4-10

* = Further details about condensate drains are available at the end of this chapter

Series MD coalescing filters

New

Ports with interchangeable cartridges: threaded (1/8, 1/4, 3/8) or integrated with super-rapid fitting for tube with ø 6, 8 and 10 mm. Modular assembly
Bowl with technopolymer cover and bayonet-type mounting

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

MD	1	-	FC	0	0	0	-	1/8

MD	SERIES
1	DIMENSION: 1 = 42 mm
FC	COALESCING FILTER
0	FILTERING ELEMENT: 0 = 0,01 µm 1 = 1 µm
0	CONDENSATE DRAIN *: 0 = semiautomatic-manual drain 5 = automatic drain, protected depressurisation 8 = direct G1/8 exhaust
0	VISUAL BLOCKAGE INDICATOR: 0 = not present 1 = present
1/8	PORTS (IN - OUT)*: = without cartridges 1/8 = G1/8 1/4 = G1/4 3/8 = G3/8 6 = tube ø 6 8 = tube ø 8 10 = tube ø 10

* NOTE: if the inlet (IN) cartridge is di erent from the outlet (OUT) cartridge, both dimensions shall be indicated.
Example: MD1-FC000-1/4-10

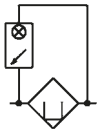
* = Further details about condensate drains are available at the end of this chapter

Series MD activated carbon filters

New

Ports with interchangeable cartridges: threaded (1/8, 1/4, 3/8) or integrated with super-rapid fitting for tube with ø 6, 8 and 10 mm. Modular assembly
Bowl with technopolymer cover and bayonet-type mounting

FC01 = activated carbon filter



FC02 = activated carbon filter with visual blockage indicator

CODING EXAMPLE

MD	1	-	FCA	0	-	1/8

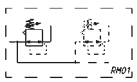
MD	SERIES
1	DIMENSION: 1 = 42 mm
FCA	ACTIVATED CARBON FILTER
0	VISUAL BLOCKAGE INDICATOR: 0 = not present 1 = present
1/8	PORTS (IN - OUT)*: = without cartridges 1/8 = G1/8 1/4 = G1/4 3/8 = G3/8 6 = tube ø 6 8 = tube ø 8 10 = tube ø 10

* NOTE: if the inlet (IN) cartridge is different from the outlet (OUT) cartridge, both dimensions shall be indicated.
Example: MD1-FCA1-1/4-10

Series MD pressure regulators

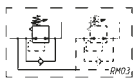
New

Ports with interchangeable cartridges: threaded (1/8, 1/4, 3/8) or integrated with super-rapid fitting for tube with ø 6, 8 and 10 mm
Versions: single, combined with other functions, Manifold

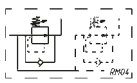


RM01 = manifold regulator with relieving

RM02 = manifold regulator without relieving



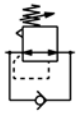
RM03 = manifold regulator with relieving and by-pass valve



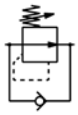
RM04 = manifold regulator without relieving, with by-pass valve

PR01 = regulator without relieving

PR02 = regulator with relieving



PR03 = regulator with relieving and by-pass valve



PR04 = regulator without relieving, with by-pass valve

CODING EXAMPLE

MD	1	-	R	T	0	0	-	1/4	-	■	-	●

MD	SERIES
1	DIMENSION: 1 = 42 mm
R	TYPER OF REGULATOR: R = pressure regulator - M = Manifold pressure regulator
T	OPERATING PRESSURE (1 bar = 14,5 psi): 0 = 0.5 ÷ 10 bar 2 = 0 ÷ 2 bar 4 = 0 ÷ 4 bar 7 = 0.5 ÷ 7 bar T = calibrated ** B = locked **
0	DESIGN TYPE: 0 = with relieving - 1 = without relieving 2 = with relieving and by-pass valve - 3 = without relieving, with by-pass valve
0	PRESSURE GAUGE: 0 = without pressure gauge (with 1/8 port)
1/4	PORTS (IN - OUT)*: = without cartridges 1/8 = G1/8 1/4 = G1/4 3/8 = G3/8 6 = tube ø 6 8 = tube ø 8 10 = tube ø 10

* NOTE: if the inlet (IN) cartridge is different from the outlet (OUT) cartridge, both dimensions shall be indicated.
Example: MD1-R020-1/4-10

** NOTE: IF THE REGULATOR IS CALIBRATED OR LOCKED, AFTER THE PORTS ADD THE INLET PRESSURE "■" AND THE OUTLET PRESSURE "●"

INLET PRESSURE: ■ = enter the SUPPLY pressure value

OUTLET PRESSURE: ● = enter the OUTLET pressure value for the LOCKED regulator or the maximum value of the ADJUSTABLE pressure for the CALIBRATED regulator.

Example of a calibrated regulator with Inlet Pressure = 6.3 bar and Outlet Pressure = 4.5 bar.
Complete part number: MD1-RT00-1/4-6.3-4.5

Series MD lubricators

New

Ports with interchangeable cartridges: threaded (1/8, 1/4, 3/8) or integrated with super-rapid fitting for tube with ø 6, 8 and 10 mm. Modular assembly
Bowl with technopolymer cover and bayonet-type mounting

LU01 = lubricator

CODING EXAMPLE

MD	1	-	L	0	0	-	1/8

MD SERIES

1 DIMENSION:
1 = 42 mm

L LUBRICATOR

00 DESIGN TYPE:
00 = oil mist with refill valve
10 = oil mist without refill valve

1/8 PORTS (IN - OUT)*:
= without ports
1/8 = G1/8
1/4 = G1/4
3/8 = G3/8
6 = tube ø 6
8 = tube ø 8
10 = tube ø 10

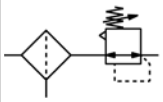
* NOTE: if the inlet (IN) cartridge is different from the outlet (OUT) cartridge, both dimensions shall be indicated.
Example: MD1-L00-1/4-1/8

Series MD pressure filter-regulators

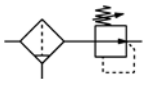
New

Ports with interchangeable cartridges: threaded (1/8, 1/4, 3/8) or integrated with super-rapid fitting for tube with ø 6, 8 and 10 mm. Modular assembly
Bowl with technopolymer cover and bayonet-type mounting

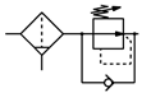
FR01 = filter-regulator with relieving and semi-automatic manual drain



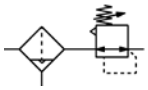
FR02 = filter-regulator with relieving and direct G1/8 exhaust



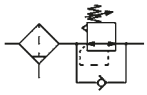
FR11 = filter-regulator without relieving, with semi-automatic manual drain



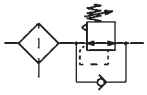
FR13 = filter-regulator without relieving, with by-pass valve and semi-automatic manual drain



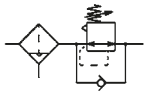
FR18 = filter-regulator with relieving and automatic/depressuring drain



FR24 = filter-regulator with relieving, by-pass valve and semi-automatic manual drain



FR25 = filter-regulator with relieving, by-pass valve and direct G1/8 exhaust



FR26 = filter-regulator with relieving, by-pass valve and automatic/depressuring drain

CODING EXAMPLE

MD	1	-	FR	0	0	0	0	-	1/8

MD SERIES

1 DIMENSION:
1 = 42 mm

FR FILTER-REGULATOR

0 FILTERING ELEMENT AND DESIGN TYPE:
0 = 25 µm with relieving
1 = 5 µm with relieving
2 = 25 µm without relieving *
3 = 5 µm without relieving *
4 = 25 µm with relieving and by-pass valve
5 = 5 µm with relieving and by-pass valve
6 = 25 µm without relieving, with by-pass valve *
7 = 5 µm without relieving, with by-pass valve *
* this option is available with semiautomatic-manual drain only

0 CONDENSATE DRAIN:
0 = semiautomatic-manual drain
5 = automatic drain, protected depressurisation
8 = direct G1/8 exhaust

0 OPERATING PRESSURE (1 bar = 14,5 psi):
0 = 0.5 ÷ 10 bar
2 = 0 ÷ 2 bar
4 = 0 ÷ 4 bar
7 = 0.5 ÷ 7 bar

0 PRESSURE GAUGE:
0 = without pressure gauge (with 1/8 port)

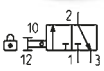
1/8 PORTS (IN - OUT)*:
= without cartridges
1/8 = G1/8
1/4 = G1/4
3/8 = G3/8
6 = tube ø 6
8 = tube ø 8
10 = tube ø 10

* NOTE: if the inlet (IN) cartridge is different from the outlet (OUT) cartridge, both dimensions shall be indicated.
Example: MD1-FR0000-1/4-1/8

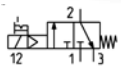
Series MD lockable isolation 3/2-way valves

New

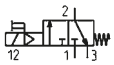
Ports with interchangeable cartridges: threaded (1/8, 1/4, 3/8) or integrated with super-rapid fitting for tube with ø 6, 8 and 10 mm. Modular. Manual, electro-pneumatic, servo-pilot and pneumatic control



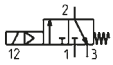
VN27 =
valve with lockable manual control



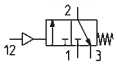
EV10 =
valve with electro-pneumatic control, bistable manual override, lever type



EV54 =
valve with electro-pneumatic control, monostable manual override



EV55 =
valve with electro-pneumatic control without manual override



YES1 =
valve with pneumatic control

CODING EXAMPLE

MD	1	-	V	01	-	1/8

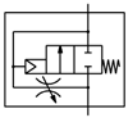
MD	SERIES
1	DIMENSION: 1 = 42 mm
V	3/2-WAY VALVE
01	DESIGN TYPE: 01 = lockable manual control 16 = electro-pneumatic control, Push & Turn manual override 16IL = electro-pneumatic control, bistable manual override, lever type 16IM = electro-pneumatic control, monostable manual override 16IT = electro-pneumatic control without manual override 36 = pneumatic control
1/8	PORTS (IN - OUT) *: = without cartridges 1/8 = G1/8 - 1/4 = G1/4 - 3/8 = G3/8 6 = tube ø 6 - 8 = tube ø 8 - 10 = tube ø 10

* NOTE: if the inlet (IN) cartridge is different from the outlet (OUT) cartridge, both dimensions shall be indicated. Example: MD1-V01-1/4-1/8

Series MD soft start valves

New

Ports with interchangeable cartridges: threaded (1/8, 1/4, 3/8) or integrated with super-rapid fitting for tube with Ø 6, 8 and 10 mm. Modular assembly



AVP1 =
soft start valve

CODING EXAMPLE

MD	1	-	AV	-	1/8

MD	SERIES
1	DIMENSION: 1 = 42 mm
AV	SOFT START VALVE
1/8	PORTS (IN - OUT) *: = without cartridges - 1/8 = G1/8 - 1/4 = G1/4 - 3/8 = G3/8 6 = tube ø 6 - 8 = tube ø 8 - 10 = tube ø 10

* NOTE: if the inlet (IN) cartridge is different from the outlet (OUT) cartridge, both dimensions shall be indicated. Example: MD1-AV-1/4-1/8

Series MD take-off blocks

New

Module with interchangeable cartridges: threaded (1/8, 1/4, 3/8) or integrated with super-rapid fitting for tube with Ø 6, 8 and 10 mm (5-way version). Intermediate joining cartridge (3-way version)

BL01 =
take-off block

CODING EXAMPLE

MD	1	-	B	00	-	1/8

MD	SERIES
1	DIMENSION: 1 = 42 mm
B	TAKE-OFF BLOCK
00	DESIGN TYPE: 00 = standard derivation
1/8	PORTS (IN - OUT) *: = without cartridges - 1/8 = G1/8 - 1/4 = G1/4 - 3/8 = G3/8 6 = tube ø 6 - 8 = tube ø 8 - 10 = tube ø 10

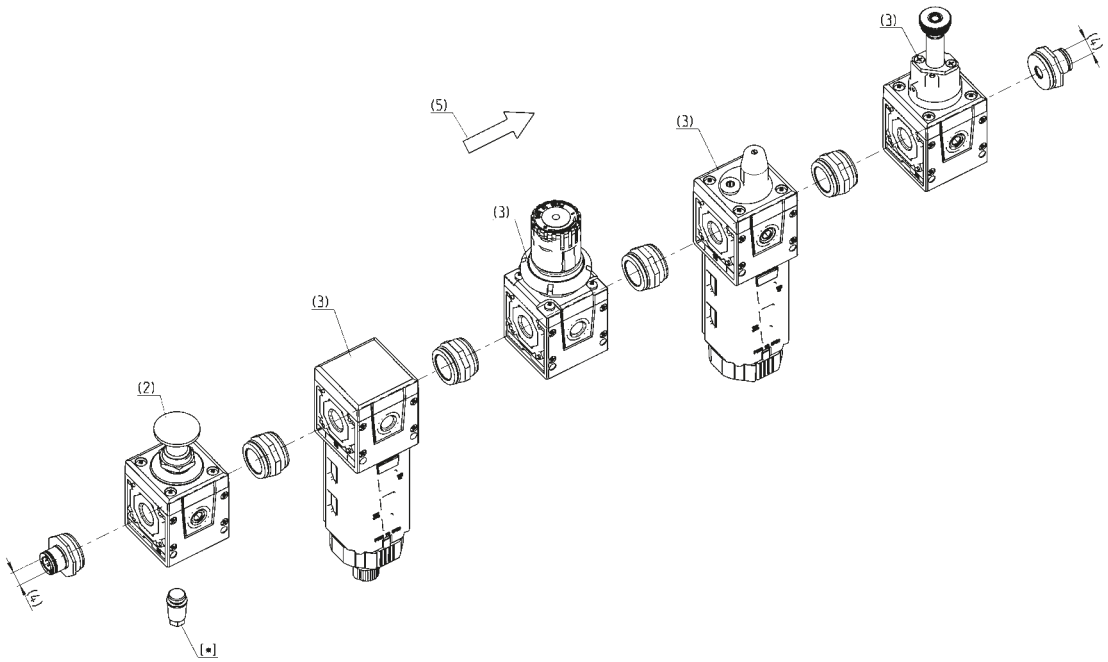
* NOTE: if the inlet (IN) cartridge is different from the outlet (OUT) cartridge, both dimensions shall be indicated. Example: MD1-B00-3/8-10

Series MD assembled FRL

New

Ports with interchangeable cartridges: threaded (1/8, 1/4, 3/8)
or integrated with super-rapid fitting for tube with ø 6, 8 and 10 mm
Modular assembly

Configuration of Series MD assembled groups



	(1)		(2)	[*]	(3)	[*]		
MD	1	-	V01	+A26	F000			
					R004			
nx					L00			
					V16		- 8	(4)
							-	(5)

Configuration of the assembled group in the drawing below:
MD1-V01+A26F000R000L00V16-8

CONFIGURATOR OF SERIES MD ASSEMBLED GROUPS

MD	1	-	V01	F000	R004	L00	V16	-	8	-	LH

MD		SERIES
1	(1)	DIMENSION: 1 = 42 mm
-		
V01	(2)	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
	[*]	The following ACCESSORIES can be added after every single module: REGULATOR, FILTER-REGULATOR AND MANIFOLD REGULATOR +A01 = M043-P04 (pressure gauge) +A02 = M043-P06 (pressure gauge) +A03 = M043-P10 (pressure gauge) +A04 = M043-P12 (pressure gauge) +A05 = SWCN-P10-P3-2 (pressure switch) +A06 = SWCN-P10-P4-2 (pressure switch) +A07 = SWCN-P10-P4-M (pressure switch) +A08 = PG010-PB-1/8 (pressure gauge) LOCKABLE ISOLATION VALVE ...V01 / V16 / V36 +A25 = 2901 1/8 (silencier) +A26 = 2921 1/8 (silencier) - recommended choice +A27 = 2931 1/8 (silencier) +A28 = 2938 1/8 (silencier) +A01 = M043-P04 (pressure gauge) +A02 = M043-P06 (pressure gauge) +A03 = M043-P10 (pressure gauge) +A04 = M043-P12 (pressure gauge) +A05 = SWCN-P10-P3-2 (pressure switch) +A06 = SWCN-P10-P4-2 (pressure switch) +A07 = SWCN-P10-P4-M (pressure switch) +A08 = PG010-PB-1/8 (pressure gauge) LOCKABLE ISOLATION VALVE...V16 +A35 = U7H (coils 12V DC) +A36 = U77 (coils 24V DC) +A37 = U79 (coils 48V DC) +A38 = U7K (coils 110V AC) +A39 = U7J (coils 230V AC) +A40 = G7H (coils 12V DC) +A41 = G77 (coils 24V DC) +A42 = G79 (coils 48V DC) +A43 = G7K (coils 110V AC) +A44 = G7J (coils 230V AC) SOFT START VALVE AND 5-WAY TAKE-OFF BLOCK +A15 = PM11-NC (pressure switch mounted on top) +A16 = PM11-NA (pressure switch mounted on top) +A17 = PM681-1 (pressure switch mounted on top) +A18 = PM681-3 (pressure switch mounted on top) +A19 = PM11-SC + S2520 1/8-1/4 (pressure switch with fitting mounted on top) +A05 = SWCN-P10-P3-2 (front mounted pressure switch) +A06 = SWCN-P10-P4-2 (front mounted pressure switch) +A07 = SWCN-P10-P4-M (front mounted pressure switch) +A08 = PG010-PB-1/8 (front mounted pressure switch) INTERMEDIATE JOINING CARTRIDGE WITH DERIVATION (MD1-B) +A17 = PM681-1 (pressure switch mounted on top) +A18 = PM681-3 (pressure switch mounted on top)
F000	(3)	see MODULE (2) + [*]
R004	(3)	see MODULE (2) + [*]
L00	(3)	see MODULE (2) + [*]
V16	(3)	see MODULE (2) + [*]
-		
8	(4)	PORTS (IN - OUT)**: = without cartridges 1/8 = G1/8 1/4 = G1/4 3/8 = G3/8 6 = tube ø 6 8 = tube ø 8 10 = tube ø 10
-		
LH	(5)	FLOW DIRECTION: = from left to right (standard) LH = from right to left

nx = the combination “(3) + (*)” can be repeated an odd (“n”) number of times
** NOTE: if the inlet (IN) cartridge is different from the outlet (OUT) cartridge, both dimensions shall be indicated. Example: MD1-V01F000R004-3/8-8

Series N filters and coalescing filters

New version

Ports G1/8, G1/4

Available with transparent PA12 bowl or nickel-plated brass bowl for the small version (N1)

FT01 = filter without drain with threaded port

FA01 = coalescing filter without drain with threaded port

FT02 = filter with semiautomatic manual drain

FA02 = coalescing filter with semi-automatic manual drain

CODING EXAMPLE

N	2	04	-	F	0	0	-	

N SERIES

2 SIZE:
1 = small bowl (11 cm³)
2 = normal bowl (28 cm³)

04 PORTS:
08 = G1/8
04 = G1/4

F FILTER

0 FILTERING ELEMENT:
0 = 25µm (standard)
1 = 5µm
B = 0.01µm

0 TYPE OF CONDENSATE DRAIN*:
0 = manual - semiautomatic drain
4 = depressurisation - only normal bowl (2)
5 = depressurisation, protected - only normal bowl (2)
8 = no drain, port G1/8

BOWL MATERIAL:
= transparent PA12 (standard)
TM = nickel-plated brass (only in the small size with semi-automatic manual drain or without drain)

* = 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

CODING EXAMPLE

N	12	04	-	R	T	0	-	■	-	●

N SERIES

12 SIZE:
12

04 PORTS:
08 = G1/8
04 = G1/4

R REGULATOR

T OPERATING PRESSURE:
0 = 0.5 ÷ 10 bar (standard)
1 = 0 ÷ 4 bar
2 = 0 ÷ 2 bar
7 = 0.5 ÷ 7 bar
T = calibrated *
B = locked *

0 DESIGN TYPE:
0 = self-relieving
1 = non-relieving

* NOTE: IF THE REGULATOR IS CALIBRATED OR LOCKED, AFTER THE DESIGN TYPE ADD THE INLET PRESSURE "■" AND THE OUTLET PRESSURE "●"
INLET PRESSURE:
■ = enter the SUPPLY pressure value
OUTLET PRESSURE:
● = enter the OUTLET pressure value for the LOCKED regulator or the maximum value of the ADJUSTABLE pressure for the CALIBRATED regulator

Example of a calibrated regulator with Inlet Pressure = 6.3 bar and Outlet Pressure = 4.5 bar
Complete part number: N1204-RT0-6.3-4.5

Series N lubricators

New version

Ports G1/8, G1/4
Available with transparent PA12 bowl or nickel-plated brass bowl for the small version (N1)

LU01 =
lubricator

CODING EXAMPLE

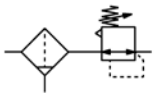
N	2	04	-	L	00	-	

N	SERIES
2	SIZE: 1 = small bowl (26 cm³) 2 = normal bowl (37 cm³)
04	PORTS: 08 = G1/8 04 = G1/4
L	LUBRICATOR
00	DESIGN TYPE: 00 = atomized oil
	BOWL MATERIAL: = transparent PA12 (standard) TM = nickel-plated brass (only in the small size)

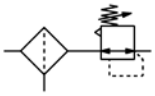
Series N filter-regulators

New version

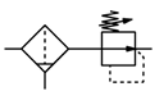
Ports G1/8, G1/4
Available with transparent PA12 bowl or nickel-plated brass bowl for the small version (N1)



FR01 =
filter-regulator
with relieving and
manual drain



FR02 =
FR with
relieving and
without drain



FR11 =
FR with
manual drain and
without relieving

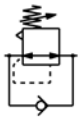
CODING EXAMPLE

N	2	04	-	D	0	0	-	4	-	

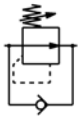
N	SERIES
2	SIZE: 1 = small bowl (11 cm³) 2 = normal bowl (28 cm³)
04	PORTS: 08 = G1/8 04 = G1/4
D	FILTER-REGULATOR
0	FILTERING ELEMENT: 0 = 25µm (standard) 1 = 5µm
0	DRAINING OF CONDENSATE AND DESIGN TYPE: 0 = semi-automatic manual drain with self-relieving 1 = semi-automatic manual drain without relieving 4 = depressurisation with self-relieving (with normal bowl only) 5 = protected depressurisation with self-relieving (with normal bowl only) 8 = no drain (direct port 1/8), with self-relieving
4	OPERATING PRESSURE: = 0,5 ÷ 10 bar (standard) 2 = 0 ÷ 2 bar 4 = 0 ÷ 4 bar 7 = 0,5 ÷ 7 bar
	BOWL MATERIAL: = transparent PA12 (standard) TM = nickel-plated brass (only in the small size with semi-automatic manual drain or without drain)

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



PR04 = Regulator without relieving and with by-pass valve

Mod.
CLR 1/8-4
CLR 1/8-6
CLR 1/8-8
CLR 1/4-6
CLR 1/4-8

Mod.
CLR 1/8
CLR 1/4

CODING EXAMPLE

CL	R		1/8	-	01	-	4

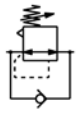
CL	SERIES
R	REGULATOR
1/8	PORTS: 1/8 = G1/8 - 1/4 = G1/4
	DESIGN TYPE: = with relieving 01 = without relieving
4	TUBE: = without banjo 4 = ø 4 mm (G1/8 only) 6 = ø 6 mm 8 = ø 8 mm

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 avalaible on request

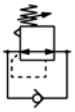
CODING EXAMPLE

M	0	04	-	R	T	0	-	■	-	●

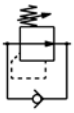
M	SERIES
0	SIZE
04	PORTS: 08 = G1/8 - 04 = G1/4
R	REGULATOR
T	OPERATING PRESSURE: 0 = 0.5 ÷ 10 bar (standard) 1 = 0 ÷ 4 bar 2 = 0 ÷ 2 bar 7 = 0.5 ÷ 7 bar T = calibrated * B = locked *
0	DESIGN TYPE: 0 = self relieving 1 = non relieving 5 = precise setting
	REGULATION TYPE: = without high relief flow (standard) VS = high relief flow
	* NOTE: IF THE REGULATOR IS CALIBRATED OR LOCKED, AFTER THE REGULATION TYPE ADD THE INLET PRESSURE "■" AND THE OUTLET PRESSURE "●" INLET PRESSURE: ■ = enter the SUPPLY pressure value OUTLET PRESSURE: ● = enter the OUTLET pressure value for the LOCKED regulator or the maximum value of the ADJUSTABLE pressure for the CALIBRATED regulator Example of a calibrated regulator with Inlet Pressure = 6.3 bar and Outlet Pressure = 4.5 bar Complete part number: M04-RT0-6.3-4.5

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

Series PR precision regulators with manual override

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)

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

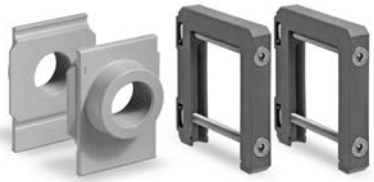
The kit is supplied with:
- 1 flange INLET side
- 1 flange OUTLET side

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, 1/2
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
For 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
For 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
For 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

Pressure gauges with radial connection

Mod.
M043-R06
M043-R12
M053-R12
M063-R12

Pressure gauges with rear connection

Mod.
M043-P02,5
M043-P04
M043-P06
M043-P10
M043-P12
M053-P04
M053-P06
M053-P10
M053-P12
M063-P04
M063-P06
M063-P12

Pressure gauges for panel mounting

Mod.
M043-F04
M043-F06
M043-F10
M043-F12
M063-F12

Series PG digital pressure gauges

Possibility of a direct mounting
with rear or panel connection

Series PG digital pressure gauges - battery-powered

Mod.
PG010-PB-1/8
PG001-VB-1/8
PG010-PB-1/4
PG001-VB-1/4

Series PG digital pressure gauges - with cable

Mod.
PG010-PB-1/8-2
PG001-VB-1/8-2
PG010-PB-1/4-M
PG001-VB-1/4-M

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 for Series PG

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

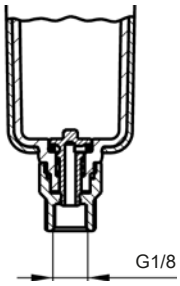
Functioning condensate drains Filtering elements

Semi-automatic manual drain; Automatic drain;
Depressurisation drain; Depressurisation drain, protected
Port 1/8 (without drain)

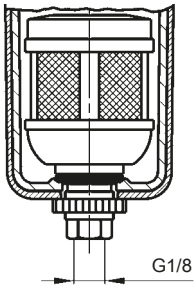
Functioning condensate drains for Series MX, MC and N

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.

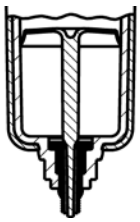
To avoid the discharge of condensate, the operator mechanism should be turned clockwise to completely close the drain.



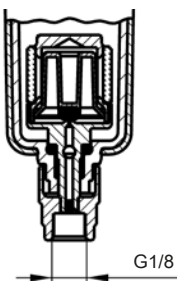
Automatic drain (Type: 3)
Functioning: the presence of liquid inside the bowl raises the float, thus opening the exhaust valve.



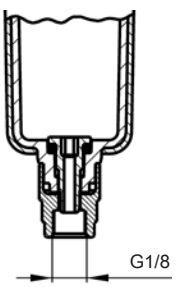
Depressurisation drain (Type: 4)
Functioning: each time air is required from the inlet, a slight difference of pressure is created between the upper part and lower part of the drain that rises, thus opening the exhaust valve.



Depressurisation drain (Type 5)
Solution similar to the Type 4 but requiring a ΔP = 1 bar. Functioning: this version has a filtering element which prevents any impurities from clocking 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 Ã¸3 mm and a threaded port G1/8.



4 > Connection

Super-rapid fittings

Rapid fittings

Universal fittings

Fittings accessories

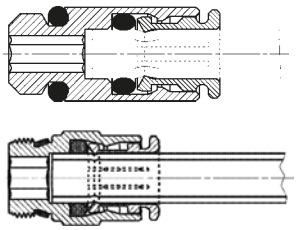
Quick-release couplings

Tubing, spirals and accessories

Series 6000
super-rapid fittings for plastic tubes

New models

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.
The “Stop Fitting” model is available with a self-retaining device which interrupts the air flow when the tube is disconnected and restores it when reconnected.

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.
S6510 4-1/8-LF
S6510 6-1/8-LF

Male Connector ***Sprint®***
with self-retaining device

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
^ = this model can be used on Series Y valve islands

Metric-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-M6
6512 6-1/8
6512 6-1/4
6512 8-1/8
6512 8-1/4
6512 8-3/8

Metric-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

Metric-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

Metric 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

Metric-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

Metric 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®***

Mod. Micro
6621 3-M3
6621 3-M5

Complete Metric Adjustable Single Banjo

Mod.
6501 4-M5

Metric Fix Male Elbow

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

Swivel Male Tee ***Sprint®***

Mod. Micro
6432 3-M3°
6432 3-M5*

° = with gasket
* = with O-Ring

Metric 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

Metric-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 Metric 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 Metric-BSP Swivel Male Tee

Mod. Micro
6452 3-M3°
6452 3-M5*

° = with gasket
* = with O-Ring

Metric 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°

* = Metric 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 6-1/8***
6610 4-M6° **6610 6-1/4***
6610 4-1/8* **6610 8-1/8***
6610 5-M5• **6610 8-1/4***
6610 5-M6° **6610 8-3/8***
6610 5-1/8* **6610 10- 1/4****
6610 6-M5• **6610 10- 3/8****
6610 6-M6° **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

Metric 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
6580 16

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 for both metallic and synthetic seat

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 10-12
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

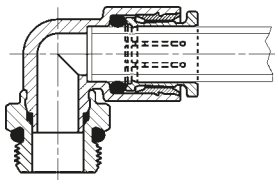
The set includes keys to disconnect tubes with diameters between 4 and 12 mm

Series 7000
super-rapid Compact fittings in technopolymer

New models

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.
The new “Stop Fitting” model is available with a self-retaining device which interrupts the air flow when the tube is disconnected and restores it when reconnected.



Mod.
7522 4-M5
7522 4-M7
7522 4-1/8
7522 4-1/4
7522 6-M5
7522 6-M7
7522 6-1/8
7522 6-1/4
7522 8-1/8
7522 8-1/4
7522 8-3/8
7522 10-1/4
7522 10-3/8
7522 10-1/2
7522 12-1/4
7522 12-3/8
7522 12-1/2
7522 16-1/2
7522 16-3/4

Metric-BSP Male Swivel Elbow

Mod.
7522 4-1/8-LF
7522 6-1/8-LF

Metric-BSP Male Swivel Elbow
with self-retaining device

Mod.
7526 4-1/8
7526 6-1/8
7526 6-1/4
7526 8-1/8
7526 8-1/4

Long BSP Male Swivel Elbow

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*

Lateral BSP
Swivel Male Tee

* = model without mounting holes

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

BSP Swivel Male Tee

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

BSP Swivel Male Multi Tee Reducer

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

BSP Swivel Male Y

Mod.
7572 4-1/8
7572 4-1/4
7572 6-1/8
7572 6-1/4

BSP Male Double Y

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

Complete BSP Swivel Single Banjo

Mod.
7652 4-1/8
7652 6-1/8
7652 6-1/4
7652 8-1/8
7652 8-1/4
7652 10-1/4
7652 10-3/8

Complete BSP Swivel Double Banjo

Mod.
7610 4-1/8
7610 6-1/8
7610 6-1/4
7610 8-1/8
7610 8-1/4
7610 10-1/4
7610 10-3/8
7610 12-3/8

Single Banjo
Assembled with Mod. 7632 02, 7632 03

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

Double Banjo
Assembled with Mod. 7632 02, 7632 03

Mod.
7632 02-1/8
7632 02-1/4
7632 02-3/8

Double Banjo Stem
Assembled with Mod. 7610, 7640

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

Reduced Double Y

Mod.
7950 4
7950 6
7950 8
7950 10
7950 12

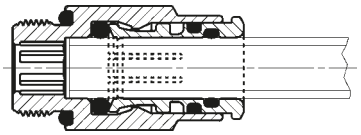
Plastic Junction

Series 8000
dual seal super-rapid fittings

New models

Tube external diameters: 4, 6, 8, 10, 12 mm
Fittings threads: BSP (G1/8, G1/4, G3/8, G1/2)

With its vast experience in manufacturing push-in connections for the pneumatics industry and its indepth research into fluid power systems,
Camozzi has developed Series 8000 super-rapid fitting evolving from Series 6000, which has been which has been extensively tested in the pneumatic sector.
A patented additional seal provides a double tight on the tube, thus ensuring a highly reliable connection and avoiding any possible leakage that may occur.
Connection and disconnection of the tube can be repeated several times without the use of proper tools and without compromising the performance of the fitting ot the sealing on the tube.
The NBR seals are standard and can be easily replaced with FKM and EDM seals.



Mod.
8512 4-1/8
8512 6-1/8
8512 6-1/4
8512 8-1/8
8512 8-1/4
8512 10-1/4
8512 10-3/8
8512 12-3/8
8512 12-1/2

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
8522 12-3/8
8522 12-1/2

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

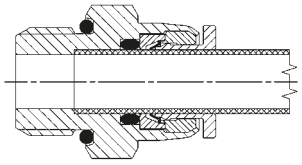
Mod.
8550 4
8550 6
8550 8

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.



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

BSPT Male Connector

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

BSP Male Connector

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

BSPT Fix Elbow

Mod.
X6520 4-1/8
X6520 4-1/4
X6520 6-1/8
X6520 6-1/4
X6520 8-1/8
X6520 8-1/4
X6520 10-1/4
X6520 10-3/8
X6520 12-1/4
X6520 12-3/8
X6520 12-1/2

BSPT Swivel Elbow

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

BSPT Swivel Centre Tee

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

BSP Swivel Elbow

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

BSP Swivel Centre Tee

Mod.
X6580 4
X6580 6
X6580 8
X6580 10
X6580 12

Union Connector

Mod.
X6550 4
X6550 6
X6550 8
X6550 10
X6550 12

Elbow Connector

Mod.
X6540 4
X6540 6
X6540 8
X6540 10
X6540 12

Tee Connector

Mod.
X6590 4
X6590 6
X6590 8
X6590 10
X6590 12

Bulkhead Union Connector

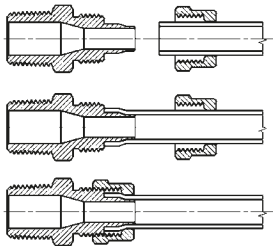
Mod.
X6800 4-6
X6800 4-8
X6800 6-8
X6800 6-10
X6800 6-12
X6800 8-10
X6800 8-12
X6800 10-12

Reducer Tube/Stem

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

Metric-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

Metric 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 Metric-BSPT Male Elbow

Mod.
1501 5/3-M5

Metric 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 Metric-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

Mod.
1610 5/3-M5•
1610 5/3-M6°
1610 5/3-1/8*
1610 6/4-M5•
1610 6/4-M6°
1610 6/4-1/8*
1610 6/4-1/4*
1610 6/4-3/8*
1610 8/6-1/8*
1610 8/6-1/4*
1610 8/6-3/8*
1610 10/8-1/8**
1610 10/8-1/4**
1610 10/8-3/8**
1610 10/8-1/2^
1610 12/10-3/8**
1610 12/10-1/2^
1610 15/12,5-1/2^

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, 2023, 1170

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, 2023, 1170
***** = Models that can be assembled with 1/4 banjo fittings

Mod.
1631 02-1/8
1631 02-1/4
1631 02-3/8

Double Banjo Stem
Assembled with adjustable fittings
Mod. 6610, 6620, 1610, 1620, 2023, 1170

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, 2023, 1170

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, 2023, 1170

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

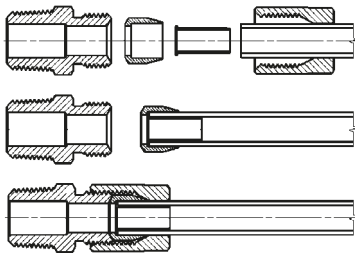
Mod.
1723 6/4-M10x1
1723 8/6-M12x1
1723 10/8-M14x1
1723 12/10-M16x1
1723 15/12,5-M20x1

Blocking nut with metal spring

Series 1000 universal nose fittings

Nose fittings for plastic, copper and brass tubes: ø 4, 6, 8, 10, 12 mm
Fittings threads: BSP (G1/8, G1/4), BSPT (R1/8, R1/4, R3/8, R1/2)

Series 1000 nose fittings are used with plastic tubes as well as with copper, brass, steel and aluminium tubes.
These fittings, which are suitable for several applications, can be used within pneumatic, oil-pressure and low-pressure hydraulic circuits.
The fittings seats, noses and nuts comply with the DIN 3870-3861 standards.



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*

* = with bi-conical olive

BSPT Male Connector

Mod.
1063 4-1/8
1063 6-1/8
1063 6-1/4
1063 8-1/8
1063 8-1/4

BSP Female Connector

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*

* = with bi-conical olive

BSPT Fix Male Elbow

Mod.
1093 4-1/8
1093 6-1/8
1093 6-1/4
1093 8-1/8
1093 8-1/4

BSP Female Elbow

Mod.
1000 4-1/8
1000 6-1/8
1000 8-1/4
1000 10-1/4

BSPT Fix Male Tee

Mod.
1010 4-1/8
1010 6-1/8
1010 8-1/4
1010 10-1/4

Lateral BSPT Fix Male Tee

Mod.
1230 4
1230 6
1230 8
1230 10
1230 12*

* = with bi-conical olive

Union Connector

Mod.
1250 4
1250 6
1250 8
1250 10

Bulkhead Connector

Mod.
1220 4
1220 6
1220 8
1220 10
1220 12*

* with bi-conical olive

Elbow Connector

Mod.
1210 4
1210 6
1210 8
1210 10
1210 12*

* = with bi-conical olive

Tee Connector

Mod.
1170 6-1/8*
1170 6-1/4*
1170 8-1/8°

Single Banjo
Assembled with
* = Mod. 1631, 1635, SCU, SCV, SCO...
° = Mod. 1635, SCU, SCV, SCO...

Mod.
1303 4-1/8
1303 6-1/8
1303 8-1/4
1303 10-3/8
1303 12-M18x1,5

Blocking nut

Mod.
1310 4
1310 6
1310 8
1310 10
1310 12-M18*

* = bi-conical olive

Olive and Bicone

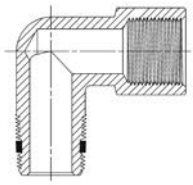
Mod.
1320 4
1320 6
1320 8
1320 10

Inserts

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 pantented Sprint models are provided with a particular torque system which avoids the use of liquid glues or PTFE band, making thus the mounting quicker.
Thanks to this system the connection and disconnection of the fitting can be repeated several times without compromising the seal on the thread.



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 Reducting 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
Reducting 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 Nipple ***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 M5
2612 M7*
S2610 1/8
S2610 1/4
S2610 3/8
S2610 1/2

BSP Male Plug ***Sprint®***
* = Metric Male Plug with O-Ring

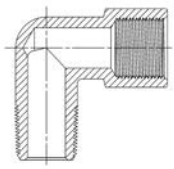
Mod.
S2615 1/8
S2615 1/4
S2615 3/8

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, R1)

The wide range of Camozzi pipe fittings, which includes straight, L and Tee, Cross piece male or female couplings, guarantees the necessary support during the design of compressed air systems.



Mod.
2500 1/8
2500 1/4
2500 3/8
2500 1/2
2500 3/4
2500 1

BSPT Nipple

Mod.
2501 M5
2501 1/8
2501 1/4
2501 3/8
2501 1/2

Metric-BSP Nipple

Mod.
2510 1/8-1/4
2510 1/8-3/8
2510 1/4-3/8
2510 1/4-1/2
2510 3/8-1/2
2510 1/2-3/4

BSPT Reducing Nipple

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

BSPT Male Reducing Extension

Mod.
2521 M5-1/8
2521 1/8-1/8
2521 1/8-1/4
2521 1/8-3/8
2521 1/4-1/4
2521 1/4-3/8
2521 1/4-1/2
2521 3/8-3/8
2521 3/8-1/2
2521 1/2-1/2

Metric-BSP Reducing Extension

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

Metric-BSP Reducing Nipple

Mod.
2525 1/8-16
2525 1/8-36
2525 1/4-27
2525 1/4-43

BSP Male Extension

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

BSPT Reducing

Mod.
2531 1/8-M5*
2531 1/4-1/8*
2531 3/8-1/8
2531 3/8-1/4*
2531 1/2-1/8
2531 1/2-1/4
2531 1/2-3/8*

* = with through-out thread

BSP Reducing

Mod.
2543 M5
2543 1/8
2543 1/4
2543 3/8
2543 1/2

Sleeve

Mod.
2553 M5-1/8
2553 1/8-1/4
2553 1/8-3/8
2553 1/8-1/2
2553 1/4-3/8
2553 1/4-1/2
2553 3/8-1/2

Reducing Sleeve

Mod.
2611 M5
2611 1/8
2611 1/4
2611 3/8
2611 1/2
2611 1

BSP Male Plug

Mod.
2610 3/4

BSPT Male Plug

Mod.
2613 1/8
2613 1/4
2613 3/8
2613 1/2

BSP Female Plug

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
2601 12-1/4
2601 12-3/8
2601 12-1/2
2601 17-3/8
2601 17-1/2

Metric-BSP Male Hose Adaptor

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

BSPT Male Female Elbow
* = Metric Male Female Elbow

Mod.
2050 1/8-1/8
2050 1/4-1/4
2050 3/8-3/8
2050 1/2-1/2

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

F.M.F. Tee

Mod.
2080 1/8
2080 1/4
2080 3/8
2080 1/2
2080 3/4
2080 1

Male Tee

Mod.
2070 1/8-1/8
2070 1/4-1/4
2070 3/8-3/8
2070 1/2-1/2

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 1-1

M.F.M. Tee

Mod.
2003 1/8
2003 1/4
2003 3/8
2003 1/2

Female Tee

Mod.
2040 1/8-1/8
2040 1/4-1/4
2040 3/8-3/8
2040 1/2-1/2

Y.F.M.F.

Mod.
2043 1/8
2043 1/4
2043 3/8
2043 1/2

Female Y

Mod.
2033 1/8
2033 1/4
2033 3/8

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 outles
Material: anodized Aluminium

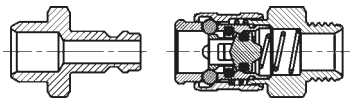
Mod.
3053 1/4-3L-1/8
3053 1/4-4L-1/8
3053 1/4-5L-1/8
3053 1/4-6L-1/8
3053 3/8-3L-1/4
3053 3/8-4L-1/4
3053 3/8-5L-1/4
3053 3/8-6L-1/4
3053 1/2-3L-3/8
3053 1/2-4L-3/8
3053 1/2-5L-3/8
3053 1/2-6L-3/8

Manifold with lateral outlets
Material: anodized Aluminium

Series 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 Cejn Series 320.



Mod.
5051 1/8
5051 1/4
5081 1/4
5081 3/8
5081 1/2

BSP Male
Quick Coupling

Mod.
5052 1/8
5052 1/4
5082 1/4

BSP Male
Quick Coupling Bulkhead

Mod.
5053 1/8
5053 1/4
5083 1/4
5083 3/8
5083 1/2

BSP Female
Quick Coupling

Mod.
5054 6/4
5054 8/6
5084 8/6
5084 10/8

Quick Coupling
Push-on

Mod.
5055 6/4
5055 8/6

Quick Coupling Bulkhead
Push-on

Mod.
5056 06
5056 09
5086 09
5086 12

Quick Coupling
Hose Adapter

Mod.
5057 6x14
5087 6x14
5087 8x17
5087 10x19
5087 13x23

Quick Coupling
Hose Connector

Mod.
5058 6/4
5058 8/6
5088 8/6
5088 10/8

Quick Coupling with Spring

Mod.
5150 1/8
5150 1/4
5180 1/4
5180 3/8
5180 1/2

Male Connector

Mod.
5350 1/8
5350 1/4
5380 1/4
5380 3/8
5380 1/2

Female Connector

Mod.
5450 6/4
5450 8/6
5480 8/6
5480 10/8

Push-on Connector

Mod.
5650 06
5650 09
5680 06
5680 09
5680 12

Connector with Barb

Mod.
5750 6x14
5780 6x14
5780 8x17
5780 13x23

Hose Connector

Mod.
5850 6/4
5850 8/6
5880 8/6
5880 10/8

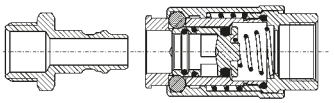
Connector with Spring

Series 5000L and 5000LT quick-release couplings for the conditioning of moulds for plastics

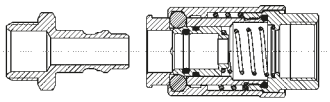
New

Nominal diameters: 5, 7 mm
Couplings threads: G1/8, G1/4, G3/8

The Series 5000L and 5000LT couplings have been designed to connect tubes for water, air or oil, used within plastic injection and die casting moulds.
The Series 5000L and 5000LT couplings provide a quick connection and disconnection method for the replacement of heating and conditioning tubes directed towards the mould, as well as tubes coming from water collectors or sources.



Couplings type “L”



Couplings type “LT”

Mod.
5053L 1/8
5053L 1/4
5053LT 1/8
5053LT 1/4

VNR2

VNR3

BSP female quick-coupling

Mod.
5083L 1/4
5083L 3/8
5083LT 1/4
5083LT 3/8

VNR2

VNR3

BSP female quick-coupling

Mod.
5150L 1/8
5150L 1/4
5180L 1/4
5180L 3/8

VNR2

Male connector

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

Tubes 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

Tubes in Polyurethane 98 Shore
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
MPL-14

Plastic tubes clamps
Colour: Blue

Mod.
PNZ-12
PNZ-25

Small and large tubes cutter
Replacement blades can be ordered separately

Mod.
PNZP-12

Plastic tubes cutter

Suction pads

Ejectors based on Venturi principle

		Page
Series VEB 	**Basic ejectors** Basic ejectors with no moving parts, based on the Venturi principle. Version “L” for porosive workpieces. Version “H” for high vacuum value.	195
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.	195
Series VED 	**Inline ejectors** Vacuum ejectors without moving parts, based on the Venturi principle, used for direct installation on suction pads.	196
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.	196
Series VEC 	**Compact ejectors** Vacuum generators with integrated valves and monitoring system. Possibility to command suction and blow-off individually without using external valves.	197
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.	198

Accessories

		Page
Series NPF 	**Flexible suction pad mountings** The vulcanisation provides flexibility in all directions. Thread G1/4.	199
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.	199
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.	199

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.	200
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.	200

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: 0 = 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 porosive 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

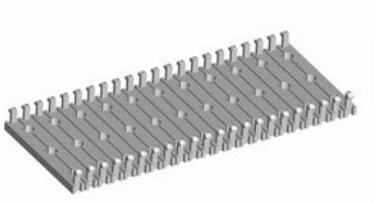
CODING EXAMPLE

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 jector is NC or NO; this means that, in order to swtch the internal loop back to “OFF”, it is necessary to activate the signal on the coil controlling it (green cable).

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

Mouting 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
Automation

Camozzi Automation in the world

Camozzi Automation 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 Pneumatic
66-1, Perehodnaya str.,
220070, Minsk
Belarus
Tel. +375 17/3961170 (71)
Fax +375 17/3961170 (71)
info@camozzi.by
www.camozzi.by

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

Shanghai Camozzi Pneumatic Control Components Co, Ltd.
717 Shuang Dan Road, Malu
Shanghai - 201801
China
Tel. +86 21/59100999
Fax +86 21/59100333
info@camozzi.com.cn
www.camozzi.com.cn

Shanghai Camozzi Automation Control Co, Ltd.
717 Shuang Dan Road, Malu
Shanghai - 201801
China
Tel. +86 21/59100999
Fax +86 21/59100333
info@camozzi.com.cn
www.camozzi.com.cn

Camozzi S.r.o.
V Chotejně 700/7
Praha - 102 00
Czech Republic
Tel. +420 272/690 994
Fax +420 272/700 485
info@camozzi.cz
www.camozzi.cz

Camozzi ApS
Metalvej 7 F
4000 Roskilde
Denmark
Tel. +45 46/750202
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 Bandonniére
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 AS
Verstedveien 8
1400 Ski
Norway
Tel. +47 40644920
info@camozzi.no
www.camozzi.no

Camozzi Pneumatic LLC
Chasnikovo,
Solnechnogorskiy District
Moscow 141592
Russian Federation
Tel. +7 495/6650255
Fax +7 495/6650255
info@camozzi.ru
www.camozzi.ru

Camozzi Iberica SL
Avda. Altos Hornos de Vizcaya, 33, L-2
48901 Barakaldo - Vizcaya
Spain
Tel. +34 946 558 958
info@camozzi.es
www.camozzi.com

Camozzi Pneumatik AB
Box 9214
Bronsyxegatan 7
20039 Malmö
Sweden
Tel. +46 40/6005800
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
Kirillovskaya 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 Automation 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

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

DBF TECHNIC SIA
Bauskas iela 20 - 302
1004 Riga
Latvia
Tel. +371 296 26916
Fax +371 6 7808650
info@pneimatika.lv
www.pneimatika.lv

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 - Automatizacao, Estudos e Representacoes, 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 Mevkii
80000 Karakoy - Istanbul
Turkey
Tel. +90 212/2517318 - 2494881
Fax +90 212/2920850
hidrel@superonline.com

>>

Camozzi Automation distributors in the world

America

Marco Industrial spa
Los Gobellinos # 2584 - Renca
Santiago
Chile
Tel. +56 22782 4400
Fax +56 22646 4623
marcoindustrial@marco.cl
www.marcoindustrial.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
Perù
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
neveen@elhaggarmisr.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@raymondfeghalico.com
www.raymondfeghalico.com

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 National Co. For Buildings
General Contracting W.L.L.
Shuwaikh Industrial Area Pl. Shop No. 9
Shuwaikh
Kuwait
Tel./Fax +965 24828108
almaramkuwait@gmail.com
www.almaramgtc.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

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

Polytechnic Automation
Suite 604, 6th Floor, K. S.
Trade Tower,
New Challi,
Shahrah-e-Liaquat,
Karachi - 74000,
Pakistan
Tel. +9221 32426612
Fax +9221 32426188
polytech_ent@yahoo.com

Exceltec Automation Inc.
608-G, EL-AL Building,
Quezon Avenue, Tatalon
Quezon City, 1113
Philippines
Tel. +632/4161143 - 4161141
- 7319015
Fax +632/7121672
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

Taewon-AP
Geomdanbuk-ro 40-gil, Buk-gu
Daegu 41511
South Korea
Tel. +82 53 384 1058
Fax +82 53 384 1057
info@taewon-ap.com
www.taewon-ap.com

Korea Flutech Co. Ltd
No15-4, 101, Palgong-ro, Dong-gu,
Daegu, 41005
South Korea
Tel. +82 53 213 9090
Fax +82 53 353 5997
info@kflutech.com
www.kflutech.com

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

Zenith Automation International Co., Ltd.
1F., No.9, Aly. 1, Ln. 5,
Sec. 3, Ren'ai Rd.,
Da'an Dist., Taipei City 10651
Taiwan (R.O.C.)
Tel. +886 2/2781 1267
Fax +886 2/3322 8973
zaisales@z-auto.com.tw
www.z-auto.com.tw

Pneumax Co. Ltd.
107/1 Chaloem 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

Boudissa Technology Sarl
25, Cité 20 Août 1955
Oued Roumane El Achour
Algiers - 16403
Algeria
Tel./Fax +213 (0) 23316751
Tel./Fax +213 (0) 23316733
contact@boudissatech.com
www.boudissatech.com

DISMATEC
Distribution de Materiels 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

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

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

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

NOTES

Short form catalogue
release 8.8

MIX COMUNICAZIONE - MI

93-1009-OGB023 03/2018

CAMOZZI
Automation

All you need for automation

A Camozzi Group Company
www.camozzi.com