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PNEUMATIC CYLINDERS & VALVES



Pneumatic cylinders are mechanical devices that use the power of compressed air to generate linear motion. Pneumatic valves control airflow and direction.

PNEUMATIC CYLINDERS & ACCESSORIES




				
343 ISO 6432 Standard Mini Range	344 ISO 15552 / VDMA Standard Range	346 ISO 15552 / VDMA Standard Profile Range	348 Compact Range	349 ISO 21287 Compact Range



	
350 Guided Range	351 Cylinder Accessories



	
355 ISO 6432 Mini Range Series 16, 24, 25	355 Compact Range Series 31



				
356 ISO 21287 Compact Range Series 32	356 ISO 15552 Aluminium Profile Range Series 61	357 ISO 15552 Aluminium Tube & Profile Range Series 63	358 Cylinder Accessories	360 Magnetic Proximity Switches & Brackets



				
362 ISO 6432 Standard-Based Range	362 Round Cylinder Range	363 ISO 15552 Standard-Based Range	364 ISO 21287 Compact Range	364 Mini Slide



			
365 Cylinder Accessories	367 Proximity Sensors & Accessories	368 Quarter Turn Actuators	368 Parallel Grippers

SOLENOID & PNEUMATIC VALVES



370 3/2, 5/2 & 5/3 Pneumatically Operated Valves	371 3/2, 5/2 & 5/3 Solenoid Valves	371 Standard Namur Solenoid Valves	372 Solenoid Valve Accessories	374 Manual & Pneumatic Operated Valves	375 3/2, 5/2 & 5/3 Manual Valves



376 3/2, 5/2, 5/3 & 4/3 Manual & Mechanical Valves	377 3/2 & 5/2 Manual & Mechanical Valves	378 Manual & Mechanical Valves



380 Solenoid Valves & Accessories	386 Manually Operated Valves	387 Mechanically Operated Valves



388 Pressure Sensors & Accessories



391 Solenoid Valves	392 Solenoid / Spring Valves	394 ISO 5599/1 Solenoid & Pneumatic Valves	395 Solenoids for Electropneumatically Operated Valves



396 Solenoid DIN Connectors	398 Pneumatic Valves	399 Mechanically Operated Valves	400 Manually Operated Valves	404 Automatic Valves



406 Check Valves



407 Slide & Non-Return Valves



407 Heavy Duty Technical Valves



E.MC Cylinders

E.MC boasts over 50 patents and provides pneumatic solutions to more than 50 different industries. Their products ensure high production efficiency with precision and low consumption of pneumatics. Their world-class manufacturing and testing facilities are designed to cater to the industry's ever-growing demand for streamlined performance and durability.

E.MC provides a wide range of pneumatic cylinders designed for the automation industry. These cylinders come in bore sizes ranging from 10 mm to 125 mm. They are engineered to deliver exceptional performance and reliability, fully enhancing productivity and efficiency.

E.MC uses high-precision American and Japanese CNC robots to assemble and test cylinders. Their automated machining process ensures that bores are accurately cut, increasing the devices' lifespan. We offer a variety of cylinder styles, including the ISO 15552/VDMA standard and profile cylinders, compact cylinders, the ISO 21287 compact cylinder, and guided cylinders, with a range of accessories.

Specifications

Cylinder type: *Single or double acting, magnetic positioning
Max. operating pressure: 10 bar
Operating temperature: -20°C to +80°C (dry air)

*Single acting – ISO 6432 standard mini cylinder

Available Ranges

Mini cylinders
Compact cylinders
Guided cylinders
VDMA standard cylinders
VDMA standard profile cylinders



IA, IAC & IASB SERIES

FEATURES / BENEFITS

- Front / rear covers machined by high precision CNC machine, giving high consistency & concentricity
- Japanese anti-dust seal, providing better sealing performance & dust protection
- German grease provides a longer cylinder life
- Riveted cylinder barrel structure & front / rear cover gives higher efficiency, performance & improved compression resistance
- Cap positioning machine guarantees front & rear caps locate at same horizontal position, making them easier to install

SPECIFICATIONS

Cylinder type	Single or double acting Magnetic positioning
Materials	Aluminium end blocks. S45C hard chrome carbon steel piston rod. Stainless steel barrel NBR seals
Max. operating pressure	10 bar
Operating temperature	-20°C to +80°C (dry air)
Speed range	Double acting: 30 to 800 mm/s Single acting: 50 to 800 mm/s
Bore	ø10 mm, ø12 mm, ø16 mm, ø20 mm, ø25 mm
Mounting	Foot, front / rear flange & rear clevis
Available stroke length	0 – 500 mm
Cushion type	Rubber or adjustable air cushion

IA SERIES DOUBLE ACTING RUBBER CUSHIONED

10 MM BORE



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PART NUMBER	BORE	STROKE
EM-IA10X25-S	10 mm	25 mm
EM-IA10X50-S	10 mm	50 mm
EM-IA10X80-S	10 mm	80 mm
EM-IA10X100-S	10 mm	100 mm

12 MM BORE

EM-IA12X25-S	12 mm	25 mm
EM-IA12X50-S	12 mm	50 mm
EM-IA12X80-S	12 mm	80 mm
EM-IA12X100-S	12 mm	100 mm

16 MM BORE

EM-IA16X25-S	16 mm	25 mm
EM-IA16X50-S	16 mm	50 mm
EM-IA16X80-S	16 mm	80 mm
EM-IA16X100-S	16 mm	100 mm
EM-IA16X125-S	16 mm	125 mm
EM-IA16X150-S	16 mm	150 mm

20 MM BORE

EM-IA20X25-S	20 mm	25 mm
EM-IA20X50-S	20 mm	50 mm
EM-IA20X80-S	20 mm	80 mm
EM-IA20X100-S	20 mm	100 mm
EM-IA20X125-S	20 mm	125 mm
EM-IA20X150-S	20 mm	150 mm

25 MM BORE

EM-IA25X25-S	25 mm	25 mm
EM-IA25X50-S	25 mm	50 mm
EM-IA25X80-S	25 mm	80 mm
EM-IA25X100-S	25 mm	100 mm
EM-IA25X125-S	25 mm	125 mm
EM-IA25X150-S	25 mm	150 mm

For cylinder
dimensional
drawings
please see page
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IAC SERIES DOUBLE ACTING AIR CUSHIONED

16 MM BORE



3610

PART NUMBER	BORE	STROKE
EM-IAC16X25-S	16 mm	25 mm
EM-IAC16X50-S	16 mm	50 mm
EM-IAC16X80-S	16 mm	80 mm
EM-IAC16X100-S	16 mm	100 mm
EM-IAC16X125-S	16 mm	125 mm
EM-IAC16X150-S	16 mm	150 mm

20 MM BORE

EM-IAC20X25-S	20 mm	25 mm
EM-IAC20X50-S	20 mm	50 mm
EM-IAC20X80-S	20 mm	80 mm
EM-IAC20X100-S	20 mm	100 mm
EM-IAC20X125-S	20 mm	125 mm
EM-IAC20X150-S	20 mm	150 mm

25 MM BORE

EM-IAC25X25-S	25 mm	25 mm
EM-IAC25X50-S	25 mm	50 mm
EM-IAC25X80-S	25 mm	80 mm
EM-IAC25X100-S	25 mm	100 mm
EM-IAC25X125-S	25 mm	125 mm
EM-IAC25X150-S	25 mm	150 mm

IASB SERIES SINGLE ACTING SPRING RETURN

12 MM BORE



3610

PART NUMBER	BORE	STROKE
EM-IASB12X25-S	12 mm	25 mm
EM-IASB12X50-S	12 mm	50 mm
EM-IASB12X80-S	12 mm	80 mm
EM-IASB12X125-S	12 mm	125 mm
EM-IASB12X150-S	12 mm	150 mm

16 MM BORE

EM-IASB16X25-S	16 mm	25 mm
EM-IASB16X50-S	16 mm	50 mm
EM-IASB16X80-S	16 mm	80 mm
EM-IASB16X125-S	16 mm	125 mm
EM-IASB16X150-S	16 mm	150 mm

20 MM BORE

EM-IASB20X25-S	20 mm	25 mm
EM-IASB20X50-S	20 mm	50 mm
EM-IASB20X80-S	20 mm	80 mm
EM-IASB20X125-S	20 mm	125 mm
EM-IASB20X150-S	20 mm	150 mm

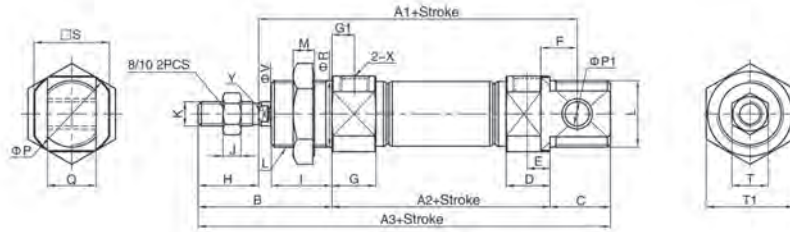
25 MM BORE

EM-IASB25X10-S	25 mm	10 mm
EM-IASB25X25-S	25 mm	25 mm
EM-IASB25X50-S	25 mm	50 mm
EM-IASB25X80-S	25 mm	80 mm
EM-IASB25X125-S	25 mm	125 mm
EM-IASB25X150-S	25 mm	150 mm

EMC-IA SERIES

IA $\Phi 8-\Phi 25$

CA Type



(mm)

Bore/Sign	A1	A2	A3	A4	A5	B	C	C1	C2	D	E	F	G	G1	H	I	J	K	L	M	P	P1	Q	R	S
8	64	46	86	74	—	28	12	9.5	5	9.5	5.2	6	11.5	7	12	12	3	M4X0.7	M12X1.25	7	17	4	8	12	15
10	64	46	86	74	—	28	12	9.5	5	9.5	5.2	6	11.5	7	12	12	3	M4X0.7	M12X1.25	7	17	4	8	12	15
12	75	50	105	88	105	38	17	10	5	10	5	9	12	7	16	17	5	M6X1.0	M16X1.5	6	19.7	6	12	16	18.3
16	82	56	111	94	111	38	17	10.5	5.5	10.5	5.5	9	12.5	7	16	17	5	M6X1.0	M16X1.5	6	22	6	12	16	20
20	95	62	126	106	126	44	20	14.5	7.5	14.5	7.5	12	14.5	7.5	20	20	6	M8X1.25	M22X1.5	7	29	8	16	22	25
25	104	65	137	115	137	50	22	16	8	16	8	12	16	8	22	22	6	M10X1.25	M22X1.5	7	33.5	8	16	22	30

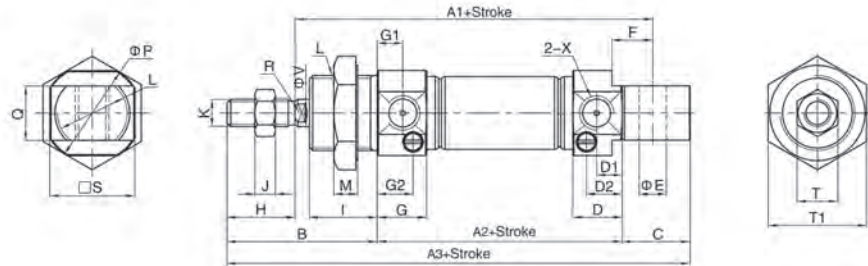
Bore/Sign	T	T1	X	V	W	Y
8	7	17	M5X0.8	4	—	—
10	7	17	M5X0.8	4	—	—
12	10	22	M5X0.8	6	15	5
16	10	22	M5X0.8	6	15	5
20	12	29	1/8"	8	18	6
25	17	29	1/8"	10	20	8

Note: With magnet and no magnet, the dimensions are same.

EMC-IAC SERIES

IAC $\Phi 16-\Phi 25$

CA Type



(mm)

Bore/Sign	A1	A2	A3	A4	A5	B	C	D	D1	D2	D3	E	F	G	G1	G2	H	I	J	K	L	M	P	Q	R
16	82	56	111	94	111	38	17	12	6	9	12	6	9	12.5	7	9.5	16	17	5	M6X1.0	M16X1.5	6	22	12	5
20	95	62	126	106	126	44	20	14.5	7.5	11	14.5	8	12	14.5	7.5	11	20	20	6	M8X1.25	M22X1.5	7	29	16	6
25	104	65	137	115	137	50	22	16	8	12.5	16	8	12	16	8	12.5	22	22	6	M10X1.25	M22X1.5	7	33.5	16	8

Bore/Sign	S	T	T1	X	V	W
16	20	10	22	M5X0.8	6	15
20	25	12	29	1/8"	8	18
25	30	17	29	1/8"	10	20

Note: With magnet and no magnet, the dimensions are same.

FVBC SERIES

DESCRIPTION

The updated FVBC / VBC series of pneumatic cylinders fully adheres to the ISO 15552 standard. The bore sizes range from 32mm to 100mm. The cylinder has been designed with a complete change of covers and piston, an entire PU sealing system, a magnet integrated into the wear ring slot, a double cushion structure, and a strengthened cushion needle and guider. We have studied every process that will improve quality, from material choice, die-casting technology, machining consistency, testing style, etc. All of this has resulted in further improvements. High-precision CNC machine robots machine the pneumatic cylinder, which is automatically assembled and tested.

FEATURES

- Highlighted products for process optimisation
- Adheres to ISO15552 standard
- All PU sealing system
- Strong guiding design with high concentricity
- Bronze bearing with much better lateral loading
- Strengthened cushion design, soft ending
- Double cushioning system
- 2000 km loaded stroke life

Non-standard
stroke
available on
request



3610

FVBC SERIES CYLINDER 32 MM BORE

PART NUMBER	BORE	STROKE
EM-FVBC32X25-S	32 mm	25 mm
EM-FVBC32X50-S	32 mm	50 mm
EM-FVBC32X80-S	32 mm	80 mm
EM-FVBC32X100-S	32 mm	100 mm
EM-FVBC32X125-S	32 mm	125 mm
EM-FVBC32X160-S	32 mm	160 mm
EM-FVBC32X200-S	32 mm	200 mm
EM-FVBC32X250-S	32 mm	250 mm

40 MM BORE

EM-FVBC40X25-S	40 mm	25 mm
EM-FVBC40X50-S	40 mm	50 mm
EM-FVBC40X80-S	40 mm	80 mm
EM-FVBC40X100-S	40 mm	100 mm
EM-FVBC40X125-S	40 mm	125 mm
EM-FVBC40X160-S	40 mm	160 mm
EM-FVBC40X200-S	40 mm	200 mm
EM-FVBC40X250-S	40 mm	250 mm

50 MM BORE

EM-FVBC50X25-S	50 mm	25 mm
EM-FVBC50X50-S	50 mm	50 mm
EM-FVBC50X80-S	50 mm	80 mm
EM-FVBC50X100-S	50 mm	100 mm
EM-FVBC50X125-S	50 mm	125 mm
EM-FVBC50X160-S	50 mm	160 mm
EM-FVBC50X200-S	50 mm	200 mm
EM-FVBC50X250-S	50 mm	250 mm

63 MM BORE

EM-FVBC63X25-S	63 mm	25 mm
EM-FVBC63X50-S	63 mm	50 mm
EM-FVBC63X80-S	63 mm	80 mm
EM-FVBC63X100-S	63 mm	100 mm
EM-FVBC63X125-S	63 mm	125 mm
EM-FVBC63X160-S	63 mm	160 mm
EM-FVBC63X200-S	63 mm	200 mm
EM-FVBC63X250-S	63 mm	250 mm
EM-FVBC63X320-S	63 mm	320 mm
EM-FVBC63X400-S	63 mm	400 mm
EM-FVBC63X500-S	63 mm	500 mm

SPECIFICATIONS

Cylinder type	Double acting, magnetic positioning
Materials	Aluminium end caps. S45C hard chrome carbon steel piston rod. Hard anodised aluminium barrel. PU seals
Max. working pressure	10 bar
Operating temperature	-20°C to +80°C (dry air)
Speed range	50 to 800 mm/s
Bore	ø32 mm, ø40 mm, ø50 mm, ø63 mm, ø80 mm, ø100 mm
Mounting	Foot, rear trunnion, 90° rear trunnion, front flange, rear flange.
Available stroke length	0 – 1900 mm
Cushion type	Adjustable air cushion

80 MM BORE

EM-FVBC80X25-S	80 mm	25 mm
EM-FVBC80X50-S	80 mm	50 mm
EM-FVBC80X80-S	80 mm	80 mm
EM-FVBC80X100-S	80 mm	100 mm
EM-FVBC80X125-S	80 mm	125 mm
EM-FVBC80X160-S	80 mm	160 mm
EM-FVBC80X200-S	80 mm	200 mm
EM-FVBC80X250-S	80 mm	250 mm
EM-FVBC80X320-S	80 mm	320 mm
EM-FVBC80X400-S	80 mm	400 mm
EM-FVBC80X500-S	80 mm	500 mm

100 MM BORE

EM-FVBC100X25-S	100 mm	25 mm
EM-FVBC100X50-S	100 mm	50 mm
EM-FVBC100X80-S	100 mm	80 mm
EM-FVBC100X100-S	100 mm	100 mm
EM-FVBC100X125-S	100 mm	125 mm
EM-FVBC100X160-S	100 mm	160 mm
EM-FVBC100X200-S	100 mm	200 mm
EM-FVBC100X250-S	100 mm	250 mm
EM-FVBC100X320-S	100 mm	320 mm
EM-FVBC100X400-S	100 mm	400 mm
EM-FVBC100X500-S	100 mm	500 mm

For cylinder
dimensional
drawings please
see page 347



VBC SERIES

DESCRIPTION

The VBC series pneumatic cylinder is designed to meet the standards set in ISO 15552, with bore sizes ranging from 32 mm to 250 mm. The cylinder has been newly designed with a complete change of covers and piston, an entire PU sealing system, a magnet integrated into a wear ring slot, a double cushion structure, and a strengthened cushion needle and guider. E.MC has also improved every process that contributes to better quality, including material choice, die-casting technology, machining consistency, and testing style. The pneumatic cylinders are machined with high-precision CNC machines and automatically assembled and tested. Additionally, the VBC series offers Mickey Mouse and tie-rod-type pneumatic cylinders in its range.

FEATURES

- Highlighted products for process optimisation
- Adheres to ISO15552 standard
- All PU sealing system
- Strong guiding design with high concentricity
- Bronze bearing with much better lateral loading
- Strengthened cushion design, soft ending
- Double cushioning system



3610

SPECIFICATIONS

Cylinder type	Double acting, magnetic positioning
Materials	Aluminium end caps. S45C hard chrome carbon steel piston rod. Hard anodised aluminium barrel. PU seals
Max. working pressure	10 bar
Operating temperature	-20°C to +80°C (dry air)
Speed range	50 – 800 mm/s
Mounting	Foot, rear trunnion, 90° rear trunnion, front flange, rear flange.
Available bore sizes	ø32 – 250 mm
Available stroke length	0 – 1900 mm
Cushion type	Adjustable air cushion

VBC SERIES STANDARD PROFILE CYLINDER 32 MM BORE

PART NUMBER	BORE	STROKE
EM-VBC32X25-S	32 mm	25 mm
EM-VBC32X50-S	32 mm	50 mm
EM-VBC32X80-S	32 mm	80 mm
EM-VBC32X100-S	32 mm	100 mm
EM-VBC32X125-S	32 mm	125 mm
EM-VBC32X160-S	32 mm	160 mm
EM-VBC32X200-S	32 mm	200 mm
EM-VBC32X250-S	32 mm	250 mm
EM-VBC32X320-S	32 mm	320 mm

40 MM BORE

EM-VBC40X25-S	40 mm	25 mm
EM-VBC40X50-S	40 mm	50 mm
EM-VBC40X80-S	40 mm	80 mm
EM-VBC40X100-S	40 mm	100 mm
EM-VBC40X125-S	40 mm	125 mm
EM-VBC40X160-S	40 mm	160 mm
EM-VBC40X200-S	40 mm	200 mm
EM-VBC40X250-S	40 mm	250 mm
EM-VBC40X320-S	40 mm	320 mm

50 MM BORE

EM-VBC50X25-S	50 mm	25 mm
EM-VBC50X50-S	50 mm	50 mm
EM-VBC50X80-S	50 mm	80 mm
EM-VBC50X100-S	50 mm	100 mm
EM-VBC50X125-S	50 mm	125 mm
EM-VBC50X160-S	50 mm	160 mm
EM-VBC50X200-S	50 mm	200 mm
EM-VBC50X250-S	50 mm	250 mm
EM-VBC50X320-S	50 mm	320 mm

63 MM BORE

EM-VBC63X25-S	63 mm	25 mm
EM-VBC63X50-S	63 mm	50 mm
EM-VBC63X80-S	63 mm	80 mm
EM-VBC63X100-S	63 mm	100 mm
EM-VBC63X125-S	63 mm	125 mm
EM-VBC63X160-S	63 mm	160 mm
EM-VBC63X200-S	63 mm	200 mm
EM-VBC63X250-S	63 mm	250 mm
EM-VBC63X320-S	63 mm	320 mm
EM-VBC63X400-S	63 mm	400 mm
EM-VBC63X500-S	63 mm	500 mm

80 MM BORE

PART NUMBER	BORE	STROKE
EM-VBC80X25-S	80 mm	25 mm
EM-VBC80X50-S	80 mm	50 mm
EM-VBC80X80-S	80 mm	80 mm
EM-VBC80X100-S	80 mm	100 mm
EM-VBC80X125-S	80 mm	125 mm
EM-VBC80X160-S	80 mm	160 mm
EM-VBC80X200-S	80 mm	200 mm
EM-VBC80X250-S	80 mm	250 mm
EM-VBC80X320-S	80 mm	320 mm
EM-VBC80X400-S	80 mm	400 mm
EM-VBC80X500-S	80 mm	500 mm

100 MM BORE

EM-VBC100X25-S	100 mm	25 mm
EM-VBC100X50-S	100 mm	50 mm
EM-VBC100X80-S	100 mm	80 mm
EM-VBC100X100-S	100 mm	100 mm
EM-VBC100X125-S	100 mm	125 mm
EM-VBC100X160-S	100 mm	160 mm
EM-VBC100X200-S	100 mm	200 mm
EM-VBC100X250-S	100 mm	250 mm
EM-VBC100X320-S	100 mm	320 mm
EM-VBC100X400-S	100 mm	400 mm
EM-VBC100X500-S	100 mm	500 mm

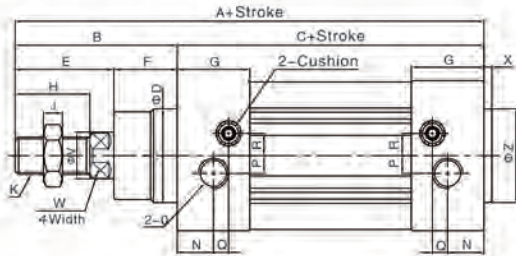
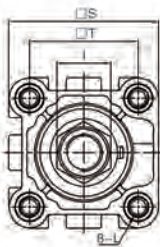
125 MM BORE

EM-VBC125X50-S	125 mm	50 mm
EM-VBC125X80-S	125 mm	80 mm
EM-VBC125X100-S	125 mm	100 mm
EM-VBC125X125-S	125 mm	125 mm
EM-VBC125X160-S	125 mm	160 mm
EM-VBC125X200-S	125 mm	200 mm
EM-VBC125X250-S	125 mm	250 mm
EM-VBC125X320-S	125 mm	320 mm
EM-VBC125X400-S	125 mm	400 mm
EM-VBC125X500-S	125 mm	500 mm

For cylinder dimensional drawings please see page 347

EMC-FVBC SERIES

FVBC

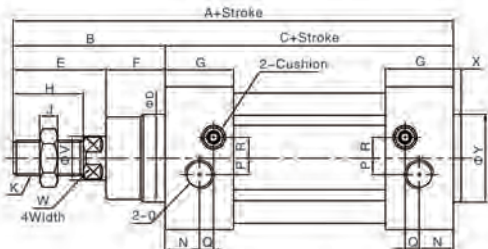
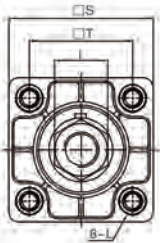


Bore/Sign	A	B	C	D	E	F	G	H	I	J	K	L	N	O	P	Q	R	S	T	V	W	X	Z
32	142	48	94	30	29	19	27.5	22	17	6	M10x1.25	M6 Dp.16	13	1/8"	5.5	6	6	46.5	32.5	12	10	3	30
40	159	54	105	35	33	21	32	24	17	7	M12x1.25	M6 Dp.16	17	1/4"	6	7.5	8.5	54	38	16	13	3.5	35
50	175	69	106	40	42	27	31	32	23	8	M16x1.5	M8 Dp.16	15.5	1/4"	7.5	6.5	9.5	64	46.5	20	17	3.5	40
63	190	69	121	45	42	27	33	32	23	8	M16x1.5	M8 Dp.16	16.5	3/8"	7.5	7.5	11.5	75	56.5	20	17	4	45
80	214	86	128	45	53	33	33	40	26	10	M20x1.5	M10 Dp.17	16.5	3/8"	8	8.5	12.5	93	72	25	22	4	45
100	229	91	138	55	55	36	37	40	26	10	M20x1.5	M10 Dp.17	19.5	1/2"	10	7	12	110	89	25	22	4	55

Note: With magnet and without magnet, the dimensions are same.

EMC-VBC SERIES

VBC



Bore/Sign	A	B	C	D	E	F	G	H	I	J	K	L	N	O	P	Q	R	S	T	V	W	X	Y
32	142	48	94	30	29	19	27.5	22	17	6	M10x1.25	M6 depth16	13	1/8"	5.5	6	6	47	32.5	12	10	3	30
40	159	54	105	35	33	21	32	24	17	7	M12x1.25	M6 depth16	17	1/4"	6	7.5	8.5	53	38	16	13	3.5	35
50	175	69	106	40	42	27	31	32	23	8	M16x1.5	M8 depth16	15.5	1/4"	7.5	6.5	9.5	65	46.5	20	17	3.5	40
63	190	69	121	45	42	27	33	32	23	8	M16x1.5	M8 depth16	16.5	3/8"	7.5	7.5	11.5	75	56.5	20	17	4	45
80	214	86	128	45	53	33	33	40	26	10	M20x1.5	M10 depth17	16.5	3/8"	9	7.5	13.5	95	72	25	22	4	45
100	229	91	138	55	55	36	37	40	26	10	M20x1.5	M10 depth17	18.5	1/2"	9.5	8.5	13.5	115	89	25	22	4	55
125	279	119	160	60	74	45	46	54	41	13.5	M27x2.0	M12 depth20	23	1/2"	14	12	14	140	110	32	27	-	-
160	332	152	180	65	94	58	50	72	55	18	M36x2.0	M16 depth24	25	3/4"	15	12	20	180	140	40	36	-	-
200	347	167	180	75	110	57	50	72	55	18	M36x2.0	M16 depth24	25	3/4"	-	-	-	220	175	40	36	-	-
250	388	188	200	90	121	67	52	84	65	21	M42x2.0	M20 depth25	26.5	1"	20.5	7.5	21	270	220	50	45	10	90

Note: With magnet and without magnet, the dimensions are same.

SQN COMPACT SERIES

DESCRIPTION

The SQN series compact pneumatic cylinder has a bore size ranging from 12 to 100 mm. All dynamic seals are imported and are lubricated with grease. The cylinder features robust, self-lubricating bronze bearings, providing high guiding performance and concentricity. Its piston rod and rod connection have a rotary riveting structure that ensures high concentricity, smooth running, and low starting pressure.

The compact cylinder has slots for three-sided magnetic switches for easier mounting. The rear cap and cylinder body are riveted together, ensuring superior assembling reliability. The front cap and barrel are connected by a buckle, making maintenance easier.

FEATURES

- All dynamic seals from Japan, with German grease, longer life
- Strong self-lubricating bronze bearings, high lateral loading performance
- Piston rod & rod connection is rotary riveted, high concentricity
- Rear cover & body are riveted together, reliable

SPECIFICATIONS

Cylinder type	Double acting, magnetic positioning
Max. working pressure	10 bar
Operating temperature	-20°C to +80°C (dry air)
Available bore size	ø16, ø20, ø25, ø32, ø40, ø50 mm
Available stroke length	0 – 50 mm
Cushion type	Anti-bump cushioning
Mounting type	Through hole mounting



3620

SQN SERIES DIAMOND PROFILE CYLINDER
16 MM BORE

PART NUMBER	BORE	STROKE
EM-SQN16X30-S	16 mm	30 mm

20 MM BORE

EM-SQN20X10-S	20 mm	10 mm
EM-SQN20X15-S	20 mm	15 mm
EM-SQN20X20-S	20 mm	20 mm
EM-SQN20X25-S	20 mm	25 mm
EM-SQN20X30-S	20 mm	30 mm
EM-SQN20X40-S	20 mm	40 mm
EM-SQN20X50-S	20 mm	50 mm

25 MM BORE

EM-SQN25X10-S	25 mm	10 mm
EM-SQN25X15-S	25 mm	15 mm
EM-SQN25X20-S	25 mm	20 mm
EM-SQN25X25-S	25 mm	25 mm
EM-SQN25X30-S	25 mm	30 mm
EM-SQN25X40-S	25 mm	40 mm
EM-SQN25X50-S	25 mm	50 mm



3620

SQN SERIES SQUARE PROFILE CYLINDER
32 MM BORE

PART NUMBER	BORE	STROKE
EM-SQN32X10-S	32 mm	10 mm
EM-SQN32X15-S	32 mm	15 mm
EM-SQN32X20-S	32 mm	20 mm
EM-SQN32X25-S	32 mm	25 mm
EM-SQN32X30-S	32 mm	30 mm
EM-SQN32X40-S	32 mm	40 mm
EM-SQN32X50-S	32 mm	50 mm

40 MM BORE

EM-SQN40X10-S	40 mm	10 mm
EM-SQN40X15-S	40 mm	15 mm
EM-SQN40X20-S	40 mm	20 mm
EM-SQN40X25-S	40 mm	25 mm
EM-SQN40X30-S	40 mm	30 mm
EM-SQN40X40-S	40 mm	40 mm
EM-SQN40X50-S	40 mm	50 mm

50 MM BORE

EM-SQN50X10-S	50 mm	10 mm
EM-SQN50X15-S	50 mm	15 mm
EM-SQN50X20-S	50 mm	20 mm
EM-SQN50X25-S	50 mm	25 mm
EM-SQN50X30-S	50 mm	30 mm
EM-SQN50X40-S	50 mm	40 mm
EM-SQN50X50-S	50 mm	50 mm

Additional strokes available on all bore sizes

SF SERIES

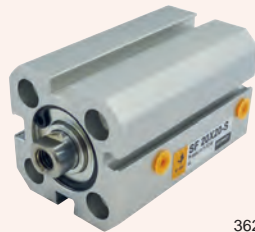
DESCRIPTION

The SF series ISO21287 is a standard compact pneumatic cylinder with a bore size ranging from 20 to 100 mm. The cylinder is designed to be more robust with self-lubricating bronze bearings that provide high guiding performance. The piston rod and rod connection are designed with a rotary riveting structure to ensure high concentricity, smooth running, and low starting pressure.

The compact cylinder features slots for four-sided magnetic switches and has various mountings that make installation easy. The rear cap and cylinder body are riveted for superior assembling reliability, while the front cap and barrel are connected by a buckle for easier maintenance.

SPECIFICATIONS

Cylinder type	Double acting, magnetic positioning
Max. working pressure	10 bar
Operating temperature	-20°C to +80°C (dry air)
Available bore size	ø20 – 100 mm
Available stroke length	10 – 50 mm
Cushion type	Rubber



3620

FEATURES / BENEFITS

ISO21287 standard cylinder

Compact structure, 50% space saving compared to ISO15552 standard pneumatic cylinders

Double-ended cushion gasket, provides smooth reversing, less impact & mechanical damage

Rotary riveted piston rod & rod connection, offering high concentricity

Riveted rear cover & body for reliability

Do you also need?



Speed controllers

Find it on pages 497 – 501, section eight

SF SERIES

20 MM BORE

PART NUMBER	BORE	STROKE
EM-SF20X10-S	20 mm	10 mm
EM-SF20X15-S	20 mm	15 mm
EM-SF20X20-S	20 mm	20 mm
EM-SF20X25-S	20 mm	25 mm
EM-SF20X30-S	20 mm	30 mm
EM-SF20X40-S	20 mm	40 mm
EM-SF20X50-S	20 mm	50 mm

25 MM BORE

EM-SF25X10-S	25 mm	10 mm
EM-SF25X15-S	25 mm	15 mm
EM-SF25X20-S	25 mm	20 mm
EM-SF25X25-S	25 mm	25 mm
EM-SF25X30-S	25 mm	30 mm
EM-SF25X40-S	25 mm	40 mm
EM-SF25X50-S	25 mm	50 mm

32 MM BORE

EM-SF32X10-S	32 mm	10 mm
EM-SF32X15-S	32 mm	15 mm
EM-SF32X20-S	32 mm	20 mm
EM-SF32X25-S	32 mm	25 mm
EM-SF32X30-S	32 mm	30 mm
EM-SF32X40-S	32 mm	40 mm
EM-SF32X50-S	32 mm	50 mm

40 MM BORE

PART NUMBER	BORE	STROKE
EM-SF40X10-S	40 mm	10 mm
EM-SF40X15-S	40 mm	15 mm
EM-SF40X20-S	40 mm	20 mm
EM-SF40X25-S	40 mm	25 mm
EM-SF40X30-S	40 mm	30 mm
EM-SF40X40-S	40 mm	40 mm
EM-SF40X50-S	40 mm	50 mm

50 MM BORE

EM-SF50X10-S	50 mm	10 mm
EM-SF50X15-S	50 mm	15 mm
EM-SF50X20-S	50 mm	20 mm
EM-SF50X25-S	50 mm	25 mm
EM-SF50X30-S	50 mm	30 mm
EM-SF50X40-S	50 mm	40 mm
EM-SF50X50-S	50 mm	50 mm

63 MM BORE

EM-SF63X10-S	63 mm	10 mm
EM-SF63X15-S	63 mm	15 mm
EM-SF63X20-S	63 mm	20 mm
EM-SF63X25-S	63 mm	25 mm
EM-SF63X30-S	63 mm	30 mm
EM-SF63X40-S	63 mm	40 mm
EM-SF63X50-S	63 mm	50 mm

Additional strokes available on all bore sizes

EXS-M SERIES

DESCRIPTION

The EXS-M is a precision-guided cylinder with twin rods and a slide bearing. Its double-cylinder design increases its force output while maintaining a compact profile and good resistance to side loads. The cylinder has multiple mounting points and an adjustable return stroke cushion that can be set between 0 and 5 mm.

SPECIFICATIONS

Cylinder type	Double acting, magnetic positioning
Max. working pressure	10 bar
Operating temperature	-20°C to +80°C (dry air)
Available bore sizes	ø6 – 32 mm
Available stroke length	10 – 200 mm
Cushion type	Cushioned both ends, adjustable on return stroke 0 – 5 mm



3660

EXS SERIES GUIDED CYLINDER 10 MM BORE

PART NUMBER	BORE	STROKE
EM-EXSM10X25-S	10 mm	25 mm
EM-EXSM10X75-S	10 mm	75 mm

16 MM BORE

EM-EXSM16X25-S	16 mm	25 mm
EM-EXSM16X50-S	16 mm	50 mm
EM-EXSM16X75-S	16 mm	75 mm

20 MM BORE

EM-EXSM20X10-S	20 mm	10 mm
EM-EXSM20X25-S	20 mm	25 mm
EM-EXSM20X50-S	20 mm	50 mm
EM-EXSM20X75-S	20 mm	75 mm

25 MM BORE

EM-EXSM25X25-S	25 mm	25 mm
EM-EXSM25X50-S	25 mm	50 mm
EM-EXSM25X75-S	25 mm	75 mm

32 MM BORE

EM-EXSM32X25-S	32 mm	25 mm
EM-EXSM32X50-S	32 mm	50 mm
EM-EXSM32X75-S	32 mm	75 mm

Alternative
stroke sizes
available
upon request

SGM SERIES

DESCRIPTION

The SGM cylinder is a heavy-duty triple rod with a slide bearing, offering strong resistance to side loads and easy installation with multiple mounting points.

SPECIFICATIONS

Cylinder type	Double acting, magnetic positioning
Max. working pressure	10 bar
Operating temperature	-20°C to +80°C (dry air)
Available bore sizes	ø12 – 63 mm
Available stroke sizes	5 – 250 mm
Cushion type	Rubber cushioned



3660

SGM SERIES TRIPLE ROD GUIDED CYLINDER 12 MM BORE

PART NUMBER	BORE	STROKE
EM-SGM12X25-S	12 mm	25 mm
EM-SGM12X50-S	12 mm	50 mm
EM-SGM12X75-S	12 mm	75 mm

16 MM BORE

EM-SGM16X25-S	16 mm	25 mm
EM-SGM16X50-S	16 mm	50 mm
EM-SGM16X75-S	16 mm	75 mm

20 MM BORE

EM-SGM20X25-S	20 mm	25 mm
EM-SGM20X50-S	20 mm	50 mm
EM-SGM20X75-S	20 mm	75 mm

25 MM BORE

EM-SGM25X25-S	25 mm	25 mm
EM-SGM25X50-S	25 mm	50 mm
EM-SGM25X75-S	25 mm	75 mm

32 MM BORE

EM-SGM32X25-S	32 mm	25 mm
EM-SGM32X50-S	32 mm	50 mm
EM-SGM32X75-S	32 mm	75 mm

40 MM BORE

EM-SGM40X25-S	40 mm	25 mm
EM-SGM40X50-S	40 mm	50 mm
EM-SGM40X75-S	40 mm	75 mm

50 MM BORE

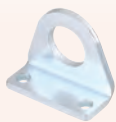
EM-SGM50X25-S	50 mm	25 mm
EM-SGM50X50-S	50 mm	50 mm
EM-SGM50X75-S	50 mm	75 mm

63 MM BORE

EM-SGM63X25-S	63 mm	25 mm
EM-SGM63X50-S	63 mm	50 mm
EM-SGM63X75-S	63 mm	75 mm

ISO 6432 STANDARD MINI CYLINDER ACCESSORIES – IASB, IAS, IA SERIES

FOOT MOUNTS PAIR



3610

PART NUMBER	CYLINDER BORE
EM-FJ-IA12LB	12 mm / 16 mm
EM-FJ-IA20LB	20 mm / 25 mm

SINGLE ROD FORK END



3610

PART NUMBER	CYLINDER BORE	THREAD
EM-FJ-M6X1IJ	12 mm / 16 mm	M6 x 1
EM-FJ-M8X1.25IJ	20 mm	M8 x 1.25
EM-FJ-M10X1.25IJ	25 mm	M10 x 1.25

REAR CLEVIS



3610

PART NUMBER	CYLINDER BORE
EM-FJ-IA12SDB	12 mm / 16 mm
EM-FJ-IA20SDB	20 mm / 25 mm

MAGNETIC SWITCH



3610

PART NUMBER	DESCRIPTION
EM-HX-13D	2 wire without contact switch 10 – 28 V DC, 2 m lead
EM-HX-13N	NPN type 3 wire 5 – 30 V DC, 2 m lead
EM-HX-13P	PNP type 3 wire 5 – 30 V DC, 2 m lead
EM-HX-13R	2 wire reed switch 5 – 240 V AC/DC, 2 m lead

New
Additions

FLANGE MOUNTING



3610

PART NUMBER	CYLINDER BORE
EM-FJ-IA12FA	12 mm / 16 mm
EM-FJ-IA20FA	20 mm / 25 mm

ROD FORK END



3610

PART NUMBER	CYLINDER BORE	THREAD
EM-FJ-M6X1YCJ	12 mm / 16 mm	M6 x 1
EM-FJ-M8X1.25YCJ	20 mm	M8 x 1.25

FIXED STEEL BELT LENGTH TYPE FOR HX-13



3610

PART NUMBER	BORE
EM-PAB-13	6 to 63 mm

Do you also need?


25 mm
rod fork end

Find it on page 352, section six

New

ROD EYE



3610

PART NUMBER	CYLINDER BORE	THREAD
EM-FJ-M6X1BJ	12 mm / 16 mm	M6 x 1
EM-FJ-M8X1.25BJ	20 mm	M8 x 1.25

Do you also need?



25 mm rod eye

Find it on page 352, section six

ISO 15552 / VDMA CYLINDER ACCESSORIES



3610

FEMALE REAR
TRUNNION & PIN

PART NUMBER	CYLINDER BORE
EM-FJ-VBC32CB	32 mm
EM-FJ-VBC40CB	40 mm
EM-FJ-VBC50CB	50 mm
EM-FJ-VBC63CB	63 mm
EM-FJ-VBC80CB	80 mm
EM-FJ-VBC100CB	100 mm
EM-FJ-VBC125CB	125 mm

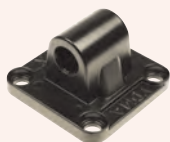


3610

ROD FORK END

PART NUMBER	CYLINDER BORE	THREAD
EM-FJ-M10X1.25YCJ*	32 mm	M10 x 1.25
EM-FJ-M12X1.25YCJ	40 mm	M12 x 1.25
EM-FJ-M16X1.5YCJ	50 mm / 63 mm	M16 x 1.5
EM-FJ-M20X1.5YCJ	80 mm / 100 mm	M20 x 1.5
EM-FJ-M27X2YCJ	125 mm	M27 x 2

* EM-FJ-M10X1.25YCJ is also suitable for
25 mm IASB, IAS, IA series mini cylinders



3610

MALE REAR TRUNNION

PART NUMBER	CYLINDER BORE
EM-FJ-VBC32CA	32 mm
EM-FJ-VBC40CA	40 mm
EM-FJ-VBC50CA	50 mm
EM-FJ-VBC63CA	63 mm
EM-FJ-VBC80CA	80 mm
EM-FJ-VBC100CA	100 mm
EM-FJ-VBC125CA	125 mm



3610

ROD EYE

PART NUMBER	CYLINDER BORE	THREAD
EM-FJ-M10X1.25BJ*	32 mm	M10 x 1.25
EM-FJ-M12X1.25BJ	40 mm	M12 x 1.25
EM-FJ-M16X1.5BJ	50 mm / 63 mm	M16 x 1.5
EM-FJ-M20X1.5BJ	80 mm / 100 mm	M20 x 1.5
EM-FJ-M27X2BJ	125 mm	M27 x 2

* EM-FJ-M10X1.25BJ is also suitable for
25 mm IASB, IAS, IA series mini cylinders



3610

90° MALE REAR TRUNNION

PART NUMBER	CYLINDER BORE
EM-FJ-VBC32CR	32 mm
EM-FJ-VBC40CR	40 mm
EM-FJ-VBC50CR	50 mm
EM-FJ-VBC63CR	63 mm
EM-FJ-VBC80CR	80 mm
EM-FJ-VBC100CR	100 mm
EM-FJ-VBC125CR	125 mm



3610

ROD FLOATING JOINT

PART NUMBER	CYLINDER BORE	THREAD
EM-FJ-M10X1.25FD	32 mm	M10 x 1.25
EM-FJ-M12X1.25FD	40 mm	M12 x 1.25
EM-FJ-M16X1.5FD	50 mm / 63 mm	M16 x 1.5
EM-FJ-M20X1.5FD	80 mm / 100 mm	M20 x 1.5
EM-FJ-M27X2FD	125 mm	M27 x 2



3610

FRONT & REAR FLANGE

PART NUMBER	CYLINDER BORE
EM-FJ-VBC32FA	32 mm
EM-FJ-VBC40FA	40 mm
EM-FJ-VBC50FA	50 mm
EM-FJ-VBC63FA	63 mm
EM-FJ-VBC80FA	80 mm
EM-FJ-VBC100FA	100 mm
EM-FJ-VBC125FA	125 mm



3610

FOOT MOUNTS
PAIR

PART NUMBER	CYLINDER BORE
EM-FJ-VBC32LB	32 mm
EM-FJ-VBC40LB	40 mm
EM-FJ-VBC50LB	50 mm
EM-FJ-VBC63LB	63 mm
EM-FJ-VBC80LB	80 mm
EM-FJ-VBC100LB	100 mm
EM-FJ-VBC125LB	125 mm



**FVBC SERIES
MAGNETIC SWITCH**

3610

PART NUMBER	DESCRIPTION
EM-HX-31R	2 wire reed auto switch SPST normally open Operating voltage 5 – 240 V DC/AC Red LED indicator, 2 m lead IP67 rated surge protection
EM-HX-31N	NPN 3 wire solid state auto switch Normally open (input) Operating voltage 5 – 30 V DC Red LED indicator, 2 m lead IP67 rated surge protection
EM-HX-31P	PNP 3 wire solid state auto switch Normally open (output) Operating voltage 5 – 30 V DC Red LED indicator, 2 m lead IP67 rated surge protection

**HX-07 MAGNETIC SWITCH
FOR USE WITH
SQ, SGM & EXH SERIES**



3620

PART NUMBER	DESCRIPTION
EM-HX-07R	Standard 2 wire reed switch Normally open Operating voltage 5 – 240 V DC/AC Red LED indicator, 1 m lead IP67 rated
EM-HX-07N	NPN 3 wire solid state auto switch Normally open (input) Operating voltage 5 – 30 V DC Red LED indicator, 2 m lead IP67 rated surge protection
EM-HX-07P	PNP 3 wire solid state auto switch Normally open (output) Operating voltage 5 – 30 V DC Red LED indicator, 2 m lead IP67 rated surge protection



**VBC SERIES
HX21 SWITCH CLAMP
ALUMINIUM ALLOY**

3610

PART NUMBER	BORE
EM-PI-1	32 mm / 40 mm
EM-IH-50	50 mm
EM-IH-63	63 mm
EM-PI-3	80 mm
EM-PI-4	100 mm
EM-PI-5	125 mm



**CYLINDER SEAL KIT
SUITABLE FOR VBC & FVBC SERIES**

3610

PART NUMBER	BORE SIZE
EM-VBC32-XLB	32 mm
EM-VBC40-XLB	40 mm
EM-VBC50-XLB	50 mm
EM-VBC63-XLB	63 mm
EM-VBC80-XLB	80 mm
EM-VBC100-XLB	100 mm
EM-VBC125-XLB	125 mm



**VBC SERIES
MAGNETIC SWITCH**

3610

PART NUMBER	DESCRIPTION
EM-HX-21R	Standard 2 wire reed switch Normally open Operating voltage 5 – 240 V DC/AC 1 m lead IP67 rated surge protection
EM-HX-21N	NPN 3 wire solid state auto switch Normally open (input) Operating voltage 5 – 30 V DC Red LED indicator, 1 m lead IP67 rated surge protection
EM-HX-21P	PNP 3 wire solid state auto switch Normally open (output) Operating voltage 5 – 30 V DC Red LED indicator, 2 m lead IP67 rated surge protection

Do you also need?



Cylinders



Find it on pages 342 – 350, section six



Camoszi Cylinders

Series 16, 24, and 25 cylinders are designed to comply with the European Standard Specifications CETOP RP52-P and DIN/ISO 6432. They are made from high-quality materials and are highly versatile and reliable. The head and cap of each cylinder are precisely crimped to ensure perfect alignment of all parts.

Series 16 and 24 cylinders can operate at very high speeds. Bumpers are added to the piston to reduce noise and wear caused by high-impact loads. The Series 24 cylinder can accommodate magnetic proximity switches. The Series 31 single and double-acting magnetic cylinders are compact and can be installed in tight spaces. These cylinders come with feet brackets and guides inserted in the external profile parallel to the sliding axis on three sides. The guides are used to locate the switches that sense the piston position. The construction design of these cylinders provides excellent axis stability. The Series 32 cylinders are compact and can be installed in confined spaces.

The Series 61 cylinders comply with the dimensions in the ISO 15552 standards. These cylinders have a permanent magnet mounted on the piston that enables information to be received regarding the piston position using proximity switches mounted in grooves along the cylinder profile. The grooves can be covered with a slot cover profile. This cylinder series is equipped with adjustable end-stroke and mechanical cushioning to reduce the impact of the piston as it reaches the end of the stroke.

The Series 63 pneumatic cylinders have been developed per the ISO 15552 standard to ensure high performance and versatility. These cylinders feature a new system of adjustable pneumatic cushioning that provides the best regulation while significantly reducing the noise caused by the impact of the piston on the end block.



ISO 6432 MINI CYLINDERS – SERIES 16, 24, 25

001 Code	
Z	Camozzi Cylinder
002 Series	
16	Non magnetic
24	Magnetic
25	Magnetic, adjustable cushioning
003 Version	
N	Standard
004 Operation	
1	Single-acting, front spring, no cushion
2	Double-acting
3	Double-acting, through-rod
7	Single-acting, through-rod
005 Materials	
A	Rolled 303 stainless steel rod, 304 stainless steel tube, anodised aluminium end-blocks
006 Bore Size (mm)	
..	8, 10, 12, 16, 20, 25
007 Construction	
A	Nose nut Mod. V + Piston rod lock nut Mod. U
RL	Cylinder with rod lock ø20 - ø25
008 Stroke (mm)	
...	See standard strokes table (right)

001	002	003	004	005	006	007	008
Z		N		A			



STANDARD STROKES

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	■	●	■	■	■	■	■	■	■					

■ Double-acting

● Single-acting

Please contact your distributor for further information

COMPACT CYLINDERS – SERIES 31

001 Code	
Z	Camozzi Cylinder
002 Series	
31	Compact magnetic
003 Version	
M	Male rod thread, mounted with rod nut Mod. U
F	Female rod thread
R	Non-rotating with flange only double-acting
004 Operation	
1	Single-acting, front spring
2	Double-acting
3	Double-acting, through-rod
4	Single-acting, rear spring
7	Single-acting, through-rod
005 Materials	
A	Rolled 303 stainless steel rod – Aluminium tube profile
006 Bore Size (mm)	
...	12, 16, 20, 25, 32, 40, 50, 63, 80, 100
007 Design Type	
A	Standard
008 Stroke (mm)	
...	See standard strokes table (right)

001	002	003	004	005	006	007	008
Z	31			A		A	



STANDARD STROKES

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

■ Double-acting female, male

x Non-rotating

● Single-acting female, male

Please contact your distributor for further information

ISO 21287 COMPACT CYLINDERS – SERIES 32

001 Code	Z Camozzi Cylinder
002 Series	32 Compact magnetic
003 Version	M Male rod thread, mounted with rod nut Mod. U F Female rod thread R Antirotation with flange (not for single-acting version)
004 Operation	1 Single-acting, front spring 2 Double-acting 3 Double-acting, through-rod 4 Single-acting, rear spring
005 Materials	A Anodised aluminium body, end blocks & piston, PU seals (rod, end-blocks OR & piston)
006 Bore Size (mm)	... 20, 25, 32, 40, 50, 63, 80, 100
007 Construction	A Standard
008 Stroke (mm)	... See standard strokes table (right)

001	002	003	004	005	006	007	008
Z	32			A		A	



STANDARD STROKES

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

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

ISO 15552 ALUMINIUM PROFILE CYLINDERS – SERIES 61

001	002	003	004	005	006	007	008	009
Z	61							



STANDARD STROKES

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

- Single-acting x Double-acting

Please contact your distributor for further information

001 Code	Z Camozzi Cylinder
002 Series	61 ISO 15552 Aluminium Profile
003 Version	M Standard, magnetic L Low friction, magnetic
004 Operation	1 Single-acting, front spring (ø 32 ± ø 100) 2 Double-acting, front & rear cushioned 3 Double-acting, no cushion 4 Double-acting, rear cushioned 5 Double-acting, front cushioned 6 Double-acting, through-rod, front & rear cushioned 7 Single-acting, through-rod 8 Double-acting, through-rod, no cushion
005 Materials	P See specifications table R 420B stainless steel tie-rods, 303 stainless steel tie-rod nuts, other materials (see specifications table) C Rolled 303 stainless steel piston rod, 304 stainless steel piston rod nut U Rolled 303 stainless steel piston rod, stainless steel 304 piston-rod nut, stainless steel 420B tie-rods, stainless steel 303 tie-rod nuts W Rolled 304 stainless steel piston rod, stainless steel 304 piston-rod nut, 420B stainless steel tie-rods, 303 stainless steel tie-rod nuts Z Chrome plated 420B stainless steel rod, 304 stainless steel rod nut, 420B stainless steel tie-rods, 303 stainless steel tie-rods nuts, seals for low temperature (-40°C), brass rod scraper Y Chrome plated 420B stainless steel rod, 304 stainless steel rod nut, 420B stainless steel tie-rods, 303 stainless steel tie-rods nuts, seals for low temperature (-50°C), brass rod scraper

006 Bore Size (mm)	... 32, 40, 50, 63, 80, 100, 125
007 Design Type	A Standard with rod nut RL Cylinder with rod lock
008 Stroke (mm)	... See standard strokes table (above)
009 Seals	Standard V FKM rod seal N Tandem R NBR rod seal W All FKM seals +130°C C PU coated cylinder. Colour: Grey * L Low friction version without rod seal (rear supply only) ** (_ _ _) = extended piston rod _ _ _ mm G with brass rod scraper (chrome plated 420B stainless steel rod, NBR rod seal)

ISO 15552 ALUMINIUM TUBE & PROFILE CYLINDERS – SERIES 63

001 002 003 004 005 006 007 008 009 010 011 012 013 014

Z 63

001	Code
Z	Camozzi Cylinder
002	Series
63	ISO 15552 Cylinder
003	Version
M	Standard, magnetic
V	Uniform movement (no stick slip), magnetic
L	Low friction, magnetic
004	Construction
T	Round tube
P	Profile
005	Operation
1	Single-acting, front spring
2	Double-acting
6	Double-acting, through-rod
7	Single-acting, through-rod
9	Single-acting, rear spring
006	Cushioning
N	No cushioning (mechanical endstops)
C	Cushioning on both sides
F	Front cushioning
R	Rear cushioning
007	Bore Size (mm)
...	32, 40, 50, 63, 80, 100, 125
008	Construction
A	Standard with rod nut
RL	Cylinder with rod lock
DC	Back to back cylinder with DC accessory [X1/X2]
TR	Back to back cylinder for round tube [X1/X2]
F	Cylinder with centre trunnion
009	Stroke (mm)
....	Standard – See standard strokes table (right)
N	Tandem
/	More positions X1/X2 [X1<X2]
010	Temperature Range
	Standard (-20°/+80°)
W	High temperatures (150°C)
Z	Low temperatures (-40°C)
Y	Low temperatures (-50°C)
011	Resistance to Corrosion
	Standard
C1	Rod nut 304 stainless steel, rod 304 stainless steel
C2	End cap treated screws (profile) or stainless steel 303 tie-rods & stainless steel 420B tie-rods (round tube)
C3	C2 + AISI 316 rod nut, stainless steel 316 rod
C4	C1 + C2
C5	C3 + end caps with triple protection



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

■ Single-acting, front spring x Double-acting ● Single-acting, rear spring

Please contact your distributor for further information

012	Rod Variations
	Standard (male rod thread)
F	Female rod thread
K	End caps with Kanigen treatment
L	Without rod seal (rear air inlet only)
V	FKM rod seal
R	NBR rod seal
U	Unlubricated operation
H	Hydrolytic environment
A	Use in food & other frequent washdown applications
G	Dry & dusty environments (with brass rod scraper & chrome-plated 420B stainless steel rod)
B	Cylinder with NBR bellow rod protection
B2	Cylinder with through rod & NBR bellow rod protection on both sides (_ _ _) = extended rod _ _ _ mm
013	Other
P	Cylinder with RAL 7035 polyurethane coating
014	Certification
EX	ATEX

FOOT MOUNTS PAIR



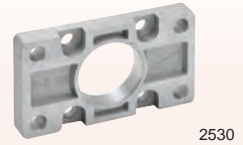
PART NUMBER	CYLINDER BORE	SERIES
ZB-8-10	8 – 10 mm	16
ZB-12/16	12 – 16 mm	16, 24, 25
ZB-20-25	20 – 25 mm	16, 24, 25

FOOT MOUNTS PAIR



PART NUMBER	CYLINDER BORE	SERIES
ZB-32-20	20 mm	32
ZB-31-25	25 mm	32
ZB-41-32	32 mm	32, 61, 63
ZB-41-40	40 mm	32, 61, 63
ZB-41-50	50 mm	32, 61, 63
ZB-41-63	63 mm	32, 61, 63
ZB-41-80	80 mm	32, 61, 63
ZB-41-100	100 mm	32, 61, 63

FRONT & REAR FLANGE



PART NUMBER	CYLINDER BORE	SERIES
ZDE-32-20	20 mm	32
ZDE-32-25	25 mm	32
ZDE-41-32	32 mm	32, 61
ZDE-41-40	40 mm	32, 61
ZDE-41-50	50 mm	32, 61
ZDE-41-63	63 mm	32, 61
ZDE-41-80	80 mm	32, 61
ZDE-41-100	100 mm	32, 61

FLANGE MOUNTING



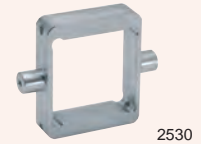
PART NUMBER	CYLINDER BORE	SERIES
ZE-8-10	8 – 10 mm	16
ZE-12/16	12 – 16 mm	16, 24, 25
ZE-20/25	20 – 25 mm	16, 24, 25

COUNTER BRACKET PAIR



PART NUMBER	CYLINDER BORE	SERIES
ZBF-32	32 mm	61
ZBF-40-50	40 – 50 mm	61
ZBF-63-80	63 – 80 mm	61
ZBF-100-125	100 – 125 mm	61

CENTRE TRUNNION



PART NUMBER	CYLINDER BORE	SERIES
ZF-61-32	32 mm	61
ZF-61-40	40 mm	61
ZF-61-50	50 mm	61
ZF-61-63	63 mm	61
ZF-61-80	80 mm	61
ZF-61-100	100 mm	61

FEMALE REAR TRUNNION



PART NUMBER	CYLINDER BORE	SERIES
ZC-41-32	32 mm	32, 61, 63
ZC-41-40	40 mm	32, 61, 63
ZC-41-50	50 mm	32, 61, 63

ROD FORK END



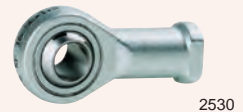
PART NUMBER	CYLINDER BORE	SERIES
ZG-8-10	8 – 10 mm	16
ZG-12-16	12 – 16 mm	16
ZG-20	20 mm	16, 24, 32, 35
ZG-25-32	25 – 32 mm	16, 24, 25, 32, 61, 63
ZG-40	40 mm	32, 61, 63
ZG-50-63	50 – 63 mm	32, 61, 63
ZG-80-100	80 – 100 mm	32, 61, 63

FEMALE FRONT & REAR TRUNNION



PART NUMBER	CYLINDER BORE	SERIES
ZCH-41-63	63 mm	32, 61, 63
ZCH-41-80	80 mm	32, 61, 63
ZCH-41-100	100 mm	32, 61, 63

ROD EYE



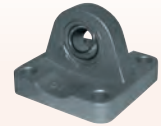
PART NUMBER	CYLINDER BORE	SERIES
ZGA-32	32 mm	61, 63
ZGA-40	40 mm	61, 63
ZGA-50-63	50 – 63 mm	61, 63
ZGA-80-100	80 – 100 mm	61, 63



2530

PISTON ROD SOCKET JOINT

PART NUMBER	CYLINDER BORE	SERIES
ZGY-32	32 mm	61, 63
ZGY-40	40 mm	61, 63
ZGY-50-63	50 – 63 mm	61, 63
ZGY-80-100	80 – 100 mm	61, 63



2530

TRUNNION BALL JOINT

PART NUMBER	CYLINDER BORE	SERIES
ZR-41-32	32 mm	61, 63
ZR-41-40	40 mm	61, 63
ZR-41-50	50 mm	61, 63
ZR-41-63	63 mm	61, 63
ZR-41-80	80 mm	61, 63
ZR-41-100	100 mm	61, 63



2530

FEMALE FRONT TRUNNION

PART NUMBER	CYLINDER BORE	SERIES
ZH-41-32	32 mm	61, 63
ZH-41-40	40 mm	61, 63
ZH-41-50	50 mm	61, 63
ZH-41-63	63 mm	61, 63



2530

TRUNNION PIN

PART NUMBER	CYLINDER BORE	SERIES
ZS-32	32 mm	32, 61, 63
ZS-40	40 mm	32, 61, 63
ZS-50	50 mm	32, 61, 63
ZS-63	63 mm	32, 61, 63
ZS-80	80 mm	32, 61, 63
ZS-100	100 mm	32, 61, 63



2530

TRUNNION BRACKET

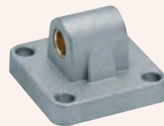
PART NUMBER	CYLINDER BORE	SERIES
ZI-8-10	8 – 10 mm	16
ZI-12/16	12 – 16 mm	16, 24, 25
ZI-20/25	20 – 25 mm	16, 24, 25



2530

LOCKING NUT

PART NUMBER	CYLINDER BORE	SERIES
ZU-25-32	25 – 32 mm	24, 25, 61, 63
ZU-40	40 mm	61, 63
ZU-50-63	50 – 63 mm	61, 63
ZU-80-100	80 – 100 mm	61, 63



2530

MALE REAR TRUNNION

PART NUMBER	CYLINDER BORE	SERIES
ZL-32-20	20 mm	32
ZL-32-25	25 mm	32
ZL-41-32	32 mm	32, 61, 63
ZL-41-40	40 mm	32, 61, 63
ZL-41-50	50 mm	32, 61, 63
ZL-41-63	63 mm	32, 61, 63
ZL-41-80	80 mm	32, 61, 63
ZL-41-100	100 mm	32, 61, 63



2530

90° MALE TRUNNION

PART NUMBER	CYLINDER BORE	SERIES
ZZC-32	32 mm	32
ZZC-40	40 mm	32
ZZC-50	50 mm	32
ZZC-63	63 mm	32
ZZC-80	80 mm	32
ZZC-100	100 mm	32

MAGNETIC PROXIMITY SWITCHES

DESCRIPTION

The SK – CSV sensors are designed to fit into the grooves provided in the profile barrel of compact, rodless & ISO cylinders or on the surface of roundline & tie rod cylinders by using mounting bands or brackets.



2530



2530

SWITCHES REED

PART NUMBER	SLOT	WIRE	VOLTAGE	CABLE
ZSKR2C01200	T	2	3 – 130 V AC/DC	2 m
ZCSV-220	V	2	10 – 110 V AC/DC	2 m
ZSKR3C01200	T	3	5 – 30 V AC/DC	2 m
ZCSV-232	V	3	5 – 30 V AC/DC	2 m
ZSKR6C01500	T	2	5 – 230 V AC/DC	5 m

SWITCHES REED WITH M8 CONNECTOR

PART NUMBER	SLOT	WIRE	VOLTAGE	CABLE
ZSKR2C01M8	T	2	5 – 50 V AC/DC	0.3 m
ZCSV-250N	V	2	10 – 110 V AC/DC	0.3 m
ZSKR3C01M8	T	3	5 – 30 V AC/DC	0.3 m
ZCSV-262	V	3	5 – 30 V AC/DC	0.3 m

MAGNETO RESISTIVE– PNP

ZSKH3C01200	T	3	3 – 28 V DC	2 m
ZCSV-332	V	3	10 – 27 V DC	2 m

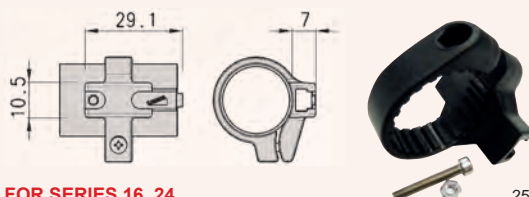


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SWITCHES FOR USE WITH SERIES 63 PROFILE CYLINDERS REED

PART NUMBER	SLOT	WIRE	VOLTAGE	CABLE
ZCSH-223-2	H	2	10 – 30 V AC/DC	2 m
ZCSH-233-2	H	3	10 – 30 V AC/DC	2 m

BRACKETS – FOR USE WITH T SLOT TYPE SWITCHES



2530

FOR SERIES 16, 24

PART NUMBER	BORE
ZSF16	16 mm
ZSF20	20 mm
ZSF25	25 mm

Do you also need?



Cylinders & accessories



Find it on pages 354 – 360, section six



Festo Pneumatic Cylinders



Energy Efficient

- ★ Innovative, industry leading, precision engineering
- ★ Extensive range of high quality Festo components
- ★ Single components to complete turnkey solutions

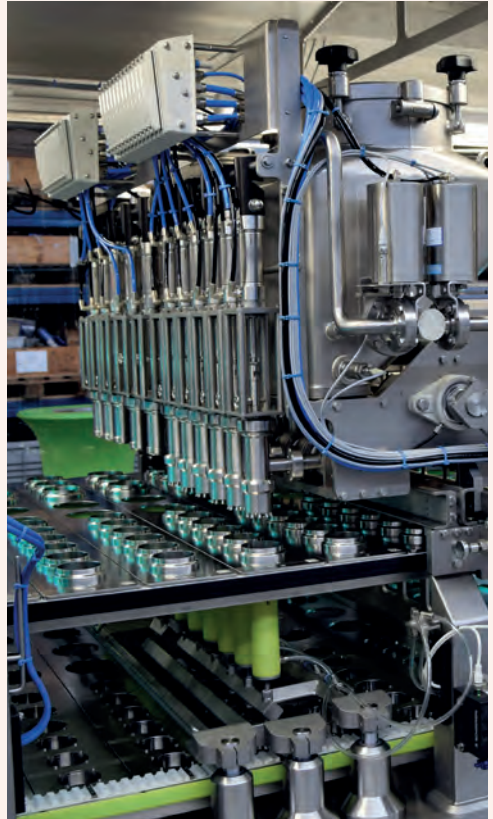
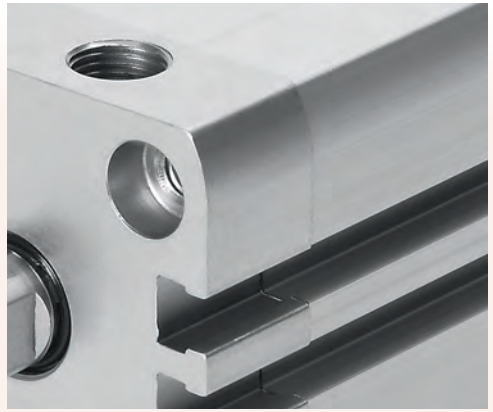
Typical uses of pneumatic cylinders include clamping, lifting, countersinking, pushing, pulling, feeding, turning, gripping, holding, joining, stopping, stamping, and embossing.

Festo pneumatic cylinders increase safety with optional integrated braking modules for emergency stops.

- High holding force
- Dynamic braking function
- Holding brake – Emergency stop function for braking and holding a movement in the event of pressure loss
- Double acting
- Extensive range of accessories to make installation possible virtually anywhere
- Contactless position sensing
- Self-adjusting cushioning

Save energy with Festo's range of energy efficient profile cylinders!

Festo's innovative cylinders can help you save significantly on compressed air consumption. You can save energy costs by adequately sizing pneumatic cylinders and reducing compressed air pressure. With every one-bar reduction in operating pressure, you can save up to 14% on compressed air costs. Festo DSBC cylinders are designed with high-integrity seals that prevent compressed air leaks, saving you considerable money over time.



STANDARD-BASED CYLINDERS DSNU, TO ISO 6432, DOUBLE-ACTING



001 002 003 004 005

DSNU - - - -

Mandatory entry

Optional entry



STANDARD CONFIGURATION

001	Type
DSNU	Double-acting standard-based cylinder
002	Bore Size (mm)
...	8, 10, 12, 16, 20, 25
003	Stroke (mm)
...	10, 15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 100, 125, 150, 160, 200, 250, 300, 320
004	Cushioning
P	Elastic cushioning rings / plates at both ends
PPV	Pneumatic cushioning adjustable at both ends
PPS	Pneumatic cushioning, self-adjusting at both ends
005	Position Sensing
-	None
A	Via proximity switch

FEATURES

- ISO 6432
- Wide range of variants for customised applications
- Good running performance & long service life
- Self-adjusting pneumatic end-position cushioning saves time during commissioning & adapts optimally to load & speed changes
- Piston rod with male thread
- For position sensing

DSNU-S ultra short range available on request

PRODUCT OPTIONS

1 ... 500 mm maximum stroke	
MQ	Alternative plain cylinder end cap, lateral connection
MA	Alternative plain cylinder end cap, axial connection
MH	Alternative cylinder end cap, direct mounting
Q	With protection against rotation
S2	Through piston rod
S6	Heat-resistant seals up to max. 120°C
S10	Slow speed
S11	Low friction
KP	With clamping unit
K2	Extended male piston rod thread
K3	Female piston rod thread
K5	Special piston rod thread
K6	Shortened male piston rod thread
K8	Extended piston rod
R3	High corrosion protection
KP	Clamping unit on the piston rod

Please contact your distributor for further information

ROUND CYLINDERS DSNU, DOUBLE-ACTING



001 002 003 004 005

DSNU - - - - A



STANDARD CONFIGURATION

001	Type
DSNU	Double acting round cylinder
002	Bore Size (mm)
...	32, 40, 50, 63
003	Stroke (mm)
...	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 100, 125, 150, 160, 200, 250, 300, 320
004	Cushioning
P	Elastic cushioning rings / plates at both ends
PPV	Pneumatic cushioning adjustable at both ends
PPS	Pneumatic cushioning, self-adjusting at both ends
005	Position Sensing
A	Via proximity switch

FEATURES

- Wide range of variants for customised applications
- Good running performance & long service life
- Self-adjusting pneumatic end-position cushioning saves time during commissioning & adapts optimally to load & speed changes
- Piston rod with female or male thread
- For position sensing

PRODUCT OPTIONS

1 ... 500 mm maximum stroke	
MQ	Alternative plain cylinder end cap, lateral connection
MA	Alternative plain cylinder end cap, axial connection
MH	Alternative cylinder end cap, direct mounting
Q	With protection against rotation
S2	Through piston rod
S6	Heat-resistant seals up to max. 120°C
S10	Slow speed
S11	Low friction
KP	With clamping unit
K2	Extended male piston rod thread
K3	Female piston rod thread
K5	Special piston rod thread
K6	Shortened male piston rod thread
K8	Extended piston rod
R3	High corrosion protection
R8	Dust protection (scraper)
A6	Metal scraper
KP	Clamping unit on the piston rod

Please contact your distributor for further information

STANDARD-BASED CYLINDERS DSBC, TO ISO 15552, DOUBLE-ACTING

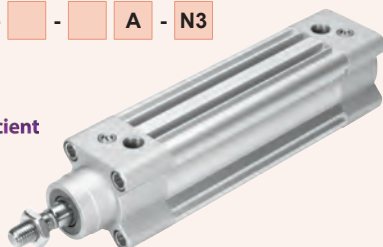


001 002 003 004 005 006

DSBC - - - A - N3



Energy Efficient



STANDARD CONFIGURATION

001	Type
DSBC	Double-acting standard-based cylinder
002	Bore Size (mm)
...	32, 40, 50, 63, 80, 100, 125
003	Stroke (mm)
...	20, 25, 30, 40, 50, 60, 70, 80, 100, 125, 150, 160, 200, 250, 300, 320, 400, 500
004	Cushioning
PPV	Pneumatic cushioning, adjustable at both ends
PPS	Pneumatic cushioning, self-adjusting at both ends
005	Position Sensing
A	Via proximity switch
006	Standard
N3	Conforms to ISO 15552

Please contact your distributor for further information

FEATURES

- ISO 15552 (ISO 6431, VDMA 24562)
- Self-adjusting pneumatic end-position cushioning saves time during commissioning & adapts optimally to load & speed changes
- Standard profile with two sensor slots
- Wide range of variants for customised applications
- Comprehensive range of mounting accessories for just about every type of installation
- For position sensing
- Variants with copper & zinc content less than 1% – recommended for production facilities for manufacturing lithium-ion batteries
- Male thread piston rod at one end

PRODUCT OPTIONS

1 ... 2800 mm	maximum stroke
Q	With protection against rotation
L	Running characteristic low friction
U	Constant, slow movement
L1	Low friction for balancer applications
C	Clamping unit attached
E1	End-position locking at both ends
E2	End-position locking with advanced piston rod
E3	End-position locking with retracted piston rod
T	Through piston rod
F	Female piston rod thread
D3	Sensor slot on 3 sides of the profile
P	Elastic cushioning rings / plates both ends
R3	High corrosion protection
T1	Heat-resistant seals up to max. 120°C
T3	Low temperature -40 ... +80°C
T4	Temperature range 0 ... +150°C
P2	Bellows on bearing cap
A1	Increased chemical resistance
A2	Hard scraper
A3	Suitable for unlubricated operation
A6	Metal scraper
F1A	Recommended for production facilities for manufacturing lithium-ion batteries (Cu<=1%, Zn<=1%, Ni<=1%)
EX4	EU certification (II 2GD)
E...	Extended piston rod 1 ... 500 mm
...L	Extended piston rod thread 0 ... 70 mm



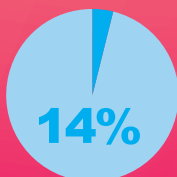
Energy Efficient

Industries' growing awareness about climate protection, energy prices, and rising cost pressures has made energy efficiency a key focus.

The DSBC cylinder has been designed with high-integrity seals to reduce compressed air leaks, saving money.

Properly sizing pneumatic cylinders and reducing compressed air pressure can significantly save energy costs.

Every one-bar reduction in operating pressure can result in a 14% reduction in compressed air costs.



Do you also need?

FESTO

Energy saving regulator LRL, LRL L

- Constant differential pressure between input & output
- Cuts energy usage on cylinder return stroke approx. 20%
- Connecting thread M5, R1/8", R1/4", R3/8", R1/2"
- Push-in connector for tube OD 4, 6, 8, 10, 12 mm
- Rotatable 360°



Please contact your distributor for further information

COMPACT CYLINDERS ADN, TO ISO 21287, DOUBLE-ACTING



001 002 003 004 005 006

ADN - - - - - A



FEATURES

- ISO 21287
- Up to 50% less installation space than comparable standards-based cylinders to ISO 15552
- Piston rod with female or male thread
- Wide range of variants for customised applications
- For position sensing

ADN-S ultra short range available on request

STANDARD CONFIGURATION

001	Type
ADN	Double-acting compact cylinder, to ISO 21287
002	Bore Size (mm)
...	12, 16, 20, 25, 32, 40, 50, 63, 80
003	Stroke (mm)
...	5, 10, 15, 20, 25, 30, 40, 50, 60, 80
004	Piston Rod Thread Type
A	Male Thread
I	Female thread
005	Cushioning
P	Elastic cushioning rings / plates at both ends
PPS	Pneumatic cushioning, self-adjusting at both ends
006	Position Sensing
A	Via proximity switch

Please contact your distributor for further information

PRODUCT OPTIONS

100, 125 mm bore sizes 1 ... 500 mm maximum stroke	
F1A	Recommended for production facilities for manufacturing lithium-ion batteries (Cu<=1%, Zn<=1%, Ni<=1%)
Q	Square piston rod
K8	Extended piston rod
S1	Reinforced piston rod
S2	Through piston rod
S20	Through, hollow piston rod
K2	Extended male piston rod thread
K5	Special piston rod thread
K10	Smooth anodised aluminium piston rod
S6	Heat-resistant seals up to max. 120°C
S10	Constant, slow movement
S11	Low friction
R3	High corrosion protection
R8	Dust protection
TL	Laser etched rating plate
TT	Low temperature -40 ... +80°C
KP	With clamping unit, attached
EL...	With end-position locking

MINI SLIDE



001 002 003 004 005 006 007 008

DGST - - - - -



FEATURES

- Compact mini slide
- Slide & yoke plate as a single component
- Excellent value for money
- High feed forces
- Symmetrical mounting interfaces
- Precise & resilient roller bearing guide
- Simple design with symmetrical mounting interfaces
- Can be operated without additional cushioning components

Please contact your distributor for further information

STANDARD CONFIGURATION

001	Type
DGST	Mini Slide
002	Bore Size (mm)
...	6, 8, 10, 12, 16, 20, 25
003	Stroke (mm)
...	10, 20, 30, 40, 50, 80, 100, 125, 150, 200
004	Version
	Standard
L	Mirror-inverted
005	Cushioning
P	Elastic cushioning rings / plates on both sides
P1	Elastomer cushioning, adjustable on both sides, with fixed stop
E	Elastomer cushioning, short, on both sides
E1	Elastomer cushioning, double-sided, stroke not adjustable
Y12	Shock absorber, self-adjusting, linear at both ends, external
006	Position Sensing
A	For proximity sensor
007	Special material properties
	None
F1A	Recommended for production facilities for the manufacture of lithium-ion batteries
008	Lubrication
	Standard
H1	Food-safe lubrication

DSBC, ADN & DSNU ACCESSORIES



ROD FORK END

3110

PART NUMBER	TYPE	BORE SIZE FOR DSBC	BORE SIZE FOR ADVC
FES6532	SG-M4	–	10 mm
FES3110	SG-M6	–	16 mm
FES3111	SG-M8	–	20, 25 mm
FES6144	SG-M10x1,25	32 mm	32, 40 mm
FES6145	SG-M12x1,25	40 mm	50, 63 mm
FES6146	SG-M16x1,5	50, 63 mm	80, 100 mm
FES6147	SG-M20x1,5	80, 100 mm	125 mm
FES14987	SG-M27x2-B	125 mm	–



ROD FLOATING JOINT

3110

PART NUMBER	TYPE
FES6528	FK-M4
FES30984	FK-M5
FES2061	FK-M6
FES2062	FK-M8
FES2063	FK-M10
FES6140	FK-M10x1,25
FES2064	FK-M12
FES6141	FK-M12x1,25
FES2065	FK-M16
FES6142	FK-M16x1,5
FES6143	FK-M20x1,5
FES10746	FK-M36x2



ROD CLEVIS

3110

PART NUMBER	TYPE	FOR BORE
FES32954	SGA-M10X1,25	32, 40 mm
FES10767	SGA-M12X1,25	50, 63 mm
FES10768	SGA-M16X1,5	80, 100 mm



REAR CLEVIS

3110

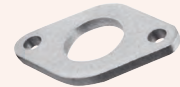
PART NUMBER	TYPE	FOR BORE
FES6057	LBN-8/10	8, 10 mm
FES6058	LBN-12/16	12, 16 mm
FES6059	LBN-20/25	20, 25 mm
FES195860	LBN-32	32 mm
FES195861	LBN-40	40 mm
FES195862	LBN-50/63	50, 63 mm

FOOT MOUNTS 2 PIECES



3110

PART NUMBER	TYPE	FOR BORE
FES5124	HBN-8/10X2	8, 10 mm
FES5126	HBN-12/16X2	12, 16 mm
FES5128	HBN-20/25X2	20, 25 mm



FLANGE MOUNTING

3110

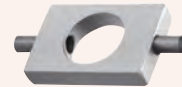
PART NUMBER	TYPE	FOR BORE
FES5129	FBN-8/10	8, 10 mm
FES5130	FBN-12/16	12, 16 mm
FES5131	FBN-20/25	20, 25 mm



ROD EYE

3110

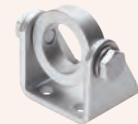
PART NUMBER	TYPE
FES9253	SGS-M4
FES9254	SGS-M6
FES9255	SGS-M8
FES9261	SGS-M10x1,25
FES9262	SGS-M12x1,25
FES9258	SGS-M16
FES9263	SGS-M16X1,5
FES9264	SGS-M20X1,5



CENTRE TRUNNION

3110

PART NUMBER	TYPE	FOR BORE
FES8608	WBN-8/10	8, 10 mm
FES8609	WBN-12/16	12, 16 mm
FES8610	WBN-20/25	20, 25 mm



SWIVEL MOUNTING

3110

PART NUMBER	TYPE	FOR BORE
FES539927	SBN-20/25	20, 25 mm



FOOT MOUNTS PAIR

3110

PART NUMBER	TYPE	FOR BORE
FES174369	HNC-32	32 mm
FES174370	HNC-40	40 mm
FES174371	HNC-50	50 mm
FES174372	HNC-63	63 mm
FES174373	HNC-80	80 mm
FES174374	HNC-100	100 mm

DSBC & ADN ACCESSORIES



3110

FRONT & REAR FLANGE

PART NUMBER	TYPE	FOR BORE
FES174376	FNC-32	32 mm
FES174377	FNC-40	40 mm
FES174378	FNC-50	50 mm
FES174379	FNC-63	63 mm
FES174380	FNC-80	80 mm
FES174381	FNC-100	100 mm
FES174382	FNC-125	125 mm



3110

RIGHT ANGLE CLEVIS FOOT

PART NUMBER	TYPE	FOR BORE
FES31768	LQG-32	32 mm
FES31769	LQG-40	40 mm
FES31770	LQG-50	50 mm
FES31771	LQG-63	63 mm
FES31772	LQG-80	80 mm
FES31773	LQG-100	100 mm



3110

FRONT REAR TRUNNION

PART NUMBER	TYPE	FOR BORE
FES174390	SNCB-32	32 mm
FES174391	SNCB-40	40 mm
FES174392	SNCB-50	50 mm
FES174393	SNCB-63	63 mm
FES174394	SNCB-80	80 mm
FES174395	SNCB-100	100 mm
FES174396	SNCB-125	125 mm



3110

MALE REAR TRUNNION

PART NUMBER	TYPE	FOR BORE
FES174404	SNCL-32	32 mm
FES174405	SNCL-40	40 mm
FES174406	SNCL-50	50 mm
FES174407	SNCL-63	63 mm
FES174408	SNCL-80	80 mm
FES174409	SNCL-100	100 mm
FES174410	SNCL-125	125 mm



3110

FOOT MOUNTS
PAIR

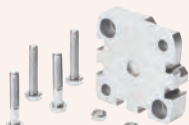
PART NUMBER	TYPE	FOR BORE
FES537237	HNA-12	12 mm
FES537238	HNA-16	16 mm
FES537239	HNA-20	20 mm
FES537240	HNA-25	25 mm
FES537241	HNA-32	32 mm
FES537242	HNA-40	40 mm
FES537243	HNA-50	50 mm
FES537244	HNA-63	63 mm
FES537249	HNA-80	80 mm
FES537250	HNA-100	100 mm



3110

MULTI-POSITION KIT

PART NUMBER	TYPE	FOR BORE
FES174422	DPNC-80	80 mm
FES174423	DPNC-100	100 mm



3110

MULTI-POSITION KIT

PART NUMBER	TYPE	FOR BORE
FES537263	DPNA-12	12 mm
FES537264	DPNA-16	16 mm
FES537265	DPNA-20	20 mm
FES537266	DPNA-25	25 mm
FES537267	DPNA-32	32 mm
FES537268	DPNA-40	40 mm
FES537269	DPNA-50	50 mm
FES537270	DPNA-63	63 mm
FES537271	DPNA-80	80 mm
FES537272	DPNA-100	100 mm



3110

90° REAR TRUNNION

PART NUMBER	TYPE	FOR BORE
FES33890	LNG-32	32 mm
FES33891	LNG-40	40 mm
FES33892	LNG-50	50 mm
FES33893	LNG-63	63 mm
FES33894	LNG-80	80 mm
FES33895	LNG-100	100 mm
FES33896	LNG-125	125 mm

PROXIMITY SENSORS

FEATURES

- Switching output via reed contact or non-contacting
- Insertable in the slot from above, does not protrude over the cylinder profile
- Suitable for use with energy chains
- Cable clip & inscription labels included in the scope of delivery
- With switching status display
- Types in accordance with ATEX directive for potentially explosive atmospheres

FEATURES

- Magneto-resistive
- Ex2 II 3GD in accordance with EU Directive 94/9/EC

SPECIFICATIONS

Design	8M	For T-slot, insertable in the slot from above
	10M	For C-slot, insertable in the slot from above
Switching output, switching element function	ZS	N/O contact, 2-wire
	PS	PNP, N/O contact, 3-wire
	NS	NPN, N/O contact, 3-wire
	PO	PNP, N/C contact, 3-wire
Rated operating voltage	24 V DC	
Cable characteristics	E	Energy chain + robot
Connection technology	OE	Open end
	M8	Cable with plug M8x1, snap-on flange
	M8D	Cable with plug M8x1, rotatable thread
	M12	Cable with plug M12x1, rotatable thread

PROXIMITY SENSOR

SMT-8



3110

PART NUMBER	TYPE	CABLE LENGTH
FES574334	SMT-8M-A-PS-24V-E-0,3-M8D	0.3 m
FES574337	SMT-8M-A-PS-24V-E-0,3-M12	0.3 m
FES574335	SMT-8M-A-PS-24V-E-2,5-OE	2.5 m
FES574336	SMT-8M-A-PS-24V-E-5,0-OE	5.0 m
FES574342*	SMT-8M-A-PS-24V-E-0,3-M8D-Ex2	0.3 m
FES574340	SMT-8M-A-PO-24V-E-7,5-OE	7.5 m
FES574338	SMT-8M-A-NS-24V-E-2,5-OE	2.5 m
FES574339	SMT-8M-A-NS-24V-E-0,3-M8D	0.3 m
FES574341*	SMT-8M-A-ZS-24V-E-5,0-OE-Ex2	5.0 m

SMT-10

FES551379	SMT-10M-NS-24V-E-0,3-L-M8D	0.3 m
FES551377	SMT-10M-NS-24V-E-2,5-L-OE	2.5 m
FES551375	SMT-10M-PS-24V-E-0,3-L-M8D	0.3 m
FES551373	SMT-10M-PS-24V-E-2,5-L-OE	2.5 m
FES551382	SMT-10M-ZS-24V-E-2,5-L-OE	2.5 m



* FES574342 & FES574341 are ATEX approved

PROXIMITY SENSOR ACCESSORIES FOR DSNU CYLINDERS



SMBR

MOUNTING KIT

3110

PART NUMBER	TYPE	FOR BORE
FES175091	SMBR-8-8	8 mm
FES175092	SMBR-8-10	10 mm
FES175093	SMBR-8-12	12 mm
FES175094	SMBR-8-16	16 mm
FES175095	SMBR-8-20	20 mm
FES175096	SMBR-8-25	25 mm

PROXIMITY SWITCH

DESCRIPTION

Electronic proximity switch for T-slot can be inserted from above; commissioning without a power supply is quick, easy & very reliable, without the need for precision adjustment or re-adjustment, either via auto teach-in or programming.

FEATURES

- Measuring principle: magnetic Hall
- Auto teach-in: automatic teach-in of the switching point at system start-up
- Programmable: PNP/NPN, NO/NC & switching window range between 2 ... 15 mm
- Insertable in the slot from above, screw-clamped
- LED status indicator



PROXIMITY SWITCHES

FOR T-SLOT



3110

PART NUMBER	TYPE	CABLE LENGTH
FES8059120	SDBT-MSX-1L-PU-E-0.3-N-M8	0.3 m
FES8059121	SDBT-MSX-1L-PU-E-2.5-N-LE	2.5 m
FES8059122	SDBT-MSX-1L-PU-E-5-N-LE	5.0 m
FES8059123	SDBT-MSX-1L-NU-E-0.3-N-M8	0.3 m
FES8059124	SDBT-MSX-1L-NU-E-2.5-N-LE	2.5 m
FES8059125	SDBT-MSX-1L-NU-E-5-N-LE	5.0 m

DFPD QUARTER TURN ACTUATORS

DESCRIPTION

The DFPD series features a rack & pinion combination with a constant torque characteristic across the entire swivel range. The quarter turn actuators DFPD are perfect for automating your butterfly valves, ball valves & dampers.

FEATURES

- Uniform torque characteristic across the entire rotation angle of 90° with the double-acting version
- Version with swivel angle 120°, 135°, 180° for the sizes 40, 120, 240, 480, double-acting
- Process valve connection to ISO 5211
- Mounting hole pattern to VDI/VDE 3845
- Sturdy, non-slip & easy-to-clean aluminium housing
- Long service life, low wear
- Increased corrosion protection

SPECIFICATIONS

Temperature range	-20°C to +80°C
Operating pressure	2 bar to 8 bar (29 psi to 116 psi)

DFPD QUARTER TURN ACTUATORS



3110

PART NUMBER	TYPE	BORE
FES8048142	DFPD-480-RP-90-RS60-F1012	480 mm
FES8048127	DFPD-480-RP-90-RD-F1012	480 mm
FES8048140	DFPD-300-RP-90-RS60-F0710	300 mm
FES8048126	DFPD-300-RP-90-RD-F0710	300 mm
FES8048138	DFPD-240-RP-90-RS60-F0710	240 mm
FES8048125	DFPD-240-RP-90-RD-F0710	240 mm
FES8048136	DFPD-160-RP-90-RS60-F0710	160 mm
FES8048124	DFPD-160-RP-90-RD-F0710	160 mm
FES8048134	DFPD-120-RP-90-RS60-F0507	120 mm
FES8048123	DFPD-120-RP-90-RD-F0507	120 mm
FES8047626	DFPD-80-RP-90-RS60-F0507	80 mm
FES8047616	DFPD-80-RP-90-RD-F0507	80 mm
FES8047624	DFPD-40-RP-90-RS60-F0507	40 mm
FES8047615	DFPD-40-RP-90-RD-F0507	40 mm
FES8047622	DFPD-20-RP-90-RS60-F04	20 mm
FES8047614	DFPD-20-RP-90-RD-F04	20 mm
FES8047613	DFPD-10-RP-90-RD-F03	10 mm

ACCESSORIES

FEATURES

- Digital, electropneumatic positioner
- Simple & efficient position control of single- & double-acting pneumatic rotary & linear drives
- With integrated or external path / angular detection
- Simple commissioning through automatic initialisation function
- Intuitive menu navigation
- 4-conductor technology
- Variants with safety functions



3110

POSITIONER

PART NUMBER	TYPE
FES3929539	CMSX-P-SE-C-U-F1-D-130-A
FES3929370	CMSX-P-S-C-U-F1-S-50-A
FES3929313	CMSX-P-S-C-U-F1-D-50-A
FES2110841	CMSX-P-S-C-U-F1-D-50-C-G1

FEATURES

- Pre-assembled mounting adaptor for ease of installation
- The trip cams can be easily set without additional tools
- Sturdy, corrosion-resistant design, ideal for use in harsh ambient conditions
- Clearly visible 3D position indicator allows the current position of the quarter turn actuator to be quickly detected
- With safety functions
- Variants to EU Explosion Protection Directive (ATEX)



3110

LIMIT SWITCH BOX

PART NUMBER	TYPE
FES3482807	SRBC-CA3-YR90-N-20N-ZC-C2P20
FES3482808	SRBC-CA3-YR90-N-1-P-C2P20
FES3482805	SRBC-CA3-YR90-MW-22A-1W-C2P20

DHPC PARALLEL GRIPPERS

FEATURES

- Resilient & precise ball guide
- High gripping force & compact size
- Max. repetition accuracy
- Can be used as a double-acting or single-acting gripper
- Single-acting variant or with gripping force retention normally open (NO) or normally closed (NC)
- Suitable for external & internal gripping
- Wide variety of mounting & attachment options
- Sustainable in production thanks to reduced use of materials



PARALLEL GRIPPERS



3110

PART NUMBER	TYPE	SIZE
FES8116753	DHPC-10-A-S	10 mm
FES8116785	DHPC-16-A-S	16 mm
FES8116817	DHPC-20-A-S	20 mm
FES8116849	DHPC-25-A-S	25 mm
FES8116881	DHPC-32-A-S	32 mm

Alternative gripper designs DHDS, DHWC, DHRC, HGDS also available.
Please contact your distributor for further information.



E.MC Valves

E.MC is a precision-engineering manufacturer that produces components for the pneumatics industry. They use high-precision machinery to assemble every E.MC valve in their state-of-the-art facility, ensuring that each undergoes quality testing.

Pneumatic valves are crucial in controlling the amount and direction of airflow. They can function as control and safety valves to stop the air supply or depress the system during hazardous situations.

Every valve consists of three elements:

- 1, A port is an opening with a thread into which a coupling can be inserted. Valves generally have 2, 3, or 5 ports. Two ports are the minimum requirement for powering the valve. The third port is used for exhausting the valve. If five ports are available, it is usually to control a double-acting cylinder.
- 2, The switching mechanism is contained in a housing, which directs compressed air to the correct working port. Different switching technologies allow for various functions and applications.
- 3, A controller ensures that the valve switches at the appropriate time. It can be operated manually, mechanically, pneumatically, or electrically.

Available Ranges

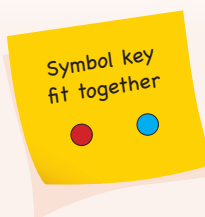
- 3/2, 5/2 and 5/3 pneumatically operated valves
- 3/2, 5/2 and 5/3 solenoid valves
- Manual and pneumatic-operated valves
- Manual and mechanical valves
- Automatic valves
- 3/2, 5/2 and 5/3 manual and pneumatic valves
- 3/2, 5/2, 5/3 and 4/3 manual and mechanical valves
- 3/2, 5/2 manual and mechanical valves
- 3/2, 5/2 manual valves



RV SERIES

SPECIFICATIONS

Working medium	Clean air
Working pressure	1.5 to 8 bar
Guaranteed pressure	12 bar
Working temperature	-20°C to +70°C (dry air)
Valve type	3/2, 5/2 & 5/3
Acting type	Internal pilot / external pilot type



RV SERIES PILOT VALVE 3/2 SINGLE PILOT NORMALLY CLOSED SPRING RETURN



3630

RV SERIES PILOT VALVE 5/3 DOUBLE PILOT CENTRE CLOSED



3630

PART NUMBER	FUNCTION	BODY SIZE	PORT SIZE
● EM-RVA3211-06Q	3/2	18 mm	1/8"
● EM-RVA3221-08Q	3/2	22 mm	1/4"
● EM-RVA3231-10Q	3/2	27 mm	3/8"
● EM-RVA3241-15	3/2	34 mm	1/2"

* Air return for products ending in Q

PART NUMBER	FUNCTION	BODY SIZE	EXHAUST	INLET
● EM-RVA5312C-06	5/3	18 mm	1/8"	1/8"
● EM-RVA5322C-08	5/3	22 mm	1/8"	1/4"
● EM-RVA5332C-10	5/3	27 mm	1/4"	3/8"
● EM-RVA5342C-15	5/3	34 mm	1/2"	1/2"

RV SERIES PILOT VALVE 3/2 DOUBLE PILOT NORMALLY CLOSED



3630

RV SERIES PILOT VALVE 5/3 DOUBLE PILOT PRESSURED CENTRE



3630

PART NUMBER	FUNCTION	BODY SIZE	PORT SIZE
● EM-RVA3212-06	3/2	18 mm	1/8"
● EM-RVA3222-08	3/2	22 mm	1/4"
● EM-RVA3232-10	3/2	27 mm	3/8"
● EM-RVA3242-15	3/2	34 mm	1/2"

PART NUMBER	FUNCTION	BODY SIZE	EXHAUST	INLET
● EM-RVA5312P-06	5/3	18 mm	1/8"	1/8"
● EM-RVA5322P-08	5/3	22 mm	1/8"	1/4"
● EM-RVA5332P-10	5/3	27 mm	1/4"	3/8"
● EM-RVA5342P-15	5/3	34 mm	1/2"	1/2"

RV SERIES PILOT VALVE 5/2 SINGLE PILOT SPRING RETURN



3630

RV SERIES PILOT VALVE 5/3 DOUBLE PILOT CENTRE EXHAUST



3630

PART NUMBER	FUNCTION	BODY SIZE	EXHAUST	INLET
● EM-RVA5211-06Q	5/2	18 mm	1/8"	1/8"
● EM-RVA5221-08Q	5/2	22 mm	1/8"	1/4"
● EM-RVA5231-10Q	5/2	27 mm	1/4"	3/8"
● EM-RVA5241-15	5/2	34 mm	1/2"	1/2"

* Air return for products ending in Q

PART NUMBER	FUNCTION	BODY SIZE	EXHAUST	INLET
● EM-RVA5312E-06	5/3	18 mm	1/8"	1/8"
● EM-RVA5322E-08	5/3	22 mm	1/8"	1/4"
● EM-RVA5332E-10	5/3	27 mm	1/4"	3/8"
● EM-RVA5342E-15	5/3	34 mm	1/2"	1/2"

RV SERIES PILOT VALVE 5/2 DOUBLE PILOT



3630

PART NUMBER	FUNCTION	BODY SIZE	EXHAUST	INLET
● EM-RVA5212-06	5/2	18 mm	1/8"	1/8"
● EM-RVA5222-08	5/2	22 mm	1/8"	1/4"
● EM-RVA5232-10	5/2	27 mm	1/4"	3/8"
● EM-RVA5242-15	5/2	34 mm	1/2"	1/2"

Do you also need?



Manifolds



Find it on page 372, section six

RV SERIES – BODY ONLY

SPECIFICATIONS

Working medium	Clean air
Working pressure	1.5 to 8 bar
Guaranteed pressure	12 bar
Working temperature	-20°C to +70°C (dry air)
Valve type	3/2, 5/2 & 5/3
Acting type	Pilot type

RV SERIES

3/2 SINGLE SOLENOID NORMALLY CLOSED



3640

PART NUMBER	FUNCTION	BODY SIZE	PORT SIZE
● EM-RV3211-06Q-WX	3/2	18 mm	1/8"
● EM-RV3221-08Q-WX	3/2	22 mm	1/4"
● EM-RV3241-15-WX	3/2	34 mm	1/2"

* Air return available for products ending in Q

RV SERIES

3/2 DOUBLE SOLENOID NORMALLY CLOSED



3640

PART NUMBER	FUNCTION	BODY SIZE	PORT SIZE
● EM-RV3212-06-WX	3/2	18 mm	1/8"
● EM-RV3222-08-WX	3/2	22 mm	1/4"
● EM-RV3242-15-WX	3/2	34 mm	1/2"

RV SERIES

5/2 SINGLE SOLENOID



3640

PART NUMBER	FUNCTION	BODY SIZE	EXHAUST	INLET
● EM-RV5211-06Q-WX	5/2	18 mm	1/8"	1/8"
● EM-RV5221-08Q-WX	5/2	22 mm	1/8"	1/4"
● EM-RV5241-15-WX	5/2	34 mm	1/2"	1/2"

* Air return available for products ending in Q

RV SERIES

5/2 DOUBLE SOLENOID



3640

PART NUMBER	FUNCTION	BODY SIZE	EXHAUST	INLET
● EM-RV5212-06-WX	5/2	18 mm	1/8"	1/8"
● EM-RV5222-08-WX	5/2	22 mm	1/8"	1/4"
● EM-RV5242-15-WX	5/2	34 mm	1/2"	1/2"

IP65 RATED

IP65 = Dust tight; full protection & protection against directed water jets of low pressure (6.3 mm) from any angle this is only if the DIN plug (DIN43650/pg9) is correctly fitted to coil with the rubber seal in place.



3640

RV SERIES

5/3 DOUBLE SOLENOID CENTRE CLOSED

PART NUMBER	FUNCTION	BODY SIZE	EXHAUST	INLET
● EM-RV5312C-06-WX	5/3	18 mm	1/8"	1/8"
● EM-RV5322C-08-WX	5/3	22 mm	1/8"	1/4"
● EM-RV5342C-15-WX	5/3	34 mm	1/2"	1/2"

RV SERIES

5/3 DOUBLE SOLENOID PRESSURE HELD



3640

PART NUMBER	FUNCTION	BODY SIZE	EXHAUST	INLET
● EM-RV5312P-06-WX	5/3	18 mm	1/8"	1/8"
● EM-RV5322P-08-WX	5/3	22 mm	1/8"	1/4"
● EM-RV5342P-15-WX	5/3	34 mm	1/2"	1/2"

RV SERIES

5/3 DOUBLE SOLENOID PRESSURE EXHAUST



3640

PART NUMBER	FUNCTION	BODY SIZE	EXHAUST	INLET
● EM-RV5312E-06-WX	5/3	18 mm	1/8"	1/8"
● EM-RV5322E-08-WX	5/3	22 mm	1/8"	1/4"
● EM-RV5342E-15-WX	5/3	34 mm	1/2"	1/2"

STANDARD NAMUR SOLENOID VALVES

FEATURES

- Manual override control
- 5/2-3/2 Interchangeable
- Various voltages are available

SPECIFICATIONS

Working pressure	1.5 to 8 bar
Working temperature	-5°C to +60°C



3640

RV SERIES (5/2) (3/2)

NAMUR VALVE

SINGLE SOLENOID – BODY ONLY

PART NUMBER	VALVE BODY	PORT SIZE
EM-V523231-08MREX	3/8"	1/4"

Do you also need?



Coils

Find it on page 372,
section six

Symbol key
fit together

RV SERIES ACCESSORIES

New
Additions

RV SERIES COIL C/W PLUG FOR USE WITH 18 MM BODY SIZE VALVES



3640

PART NUMBER	VOLTAGE
EM-XHD-V1-E1	110 / 50 V AC
EM-XHD-V1-E2	220 / 50 V AC
EM-XHD-V1-E4	24 V DC
EM-XHD-V1-E5	12 V DC
EM-XHD-V1-E7	24 V AC

FOR USE WITH 22 MM & 34 MM BODY SIZE VALVES

EM-XHD-V2-E1	110 / 50 V AC
EM-XHD-V2-E2	220 / 50 V AC
EM-XHD-V2-E4	24 V DC
EM-XHD-V2-E5	12 V DC
EM-XHD-V2-E7	24 V AC

IP65 RATED

IP65 = Dust tight; full protection & protection against directed water jets of low pressure (6.3 mm) from any angle this is only if the DIN plug (DIN43650/pg9) is correctly fitted to coil with the rubber seal in place.



3640

RV SERIES PLUG CONNECTOR (DIN43650/pg9)

FOR USE WITH 1/8" VALVES

PART NUMBER	VOLTAGE
EM-DC-A2TEL	110 / 50 V AC & 220 / 50 V AC
EM-DC-A1TEL	24 V AC
EM-DC-D1TEL	12 V DC / 24 V DC

FOR USE WITH 1/4" & 1/2" VALVES

EM-DB-A2ELR	110 / 50 V AC & 220 / 50 V AC
EM-DB-A1ELR	24 V AC
EM-DB-D1ELR	12 V DC / 24 V DC

BLANKING PLATES 3 WAY



3640

PART NUMBER	BODY SIZE	PORT SIZE
EM-VBP321	18 mm	1/8"
EM-VBP322	22 mm	1/4"
EM-VBP324	34 mm	1/2"

5 WAY

EM-VBP521	18 mm	1/8"
EM-VBP522	22 mm	1/4"
EM-VBP524	34 mm	1/2"

RV SERIES MANIFOLD FOR USE WITH 3/2 VALVES



3640

PART NUMBER	NO. OF VALVES	BODY SIZE	PORT SIZE
EM-V321-2F	2	18 mm	1/8"
EM-V321-4F	4	18 mm	1/8"
EM-V321-6F	6	18 mm	1/8"
EM-V321-8F	8	18 mm	1/8"
EM-V321-10F	10	18 mm	1/8"
EM-V322-2F	2	22 mm	1/4"
EM-V322-4F	4	22 mm	1/4"
EM-V322-6F	6	22 mm	1/4"
EM-V322-8F	8	22 mm	1/4"
EM-V322-10F	10	22 mm	1/4"
EM-V324-2F	2	34 mm	1/2"
EM-V324-4F	4	34 mm	1/2"
EM-V324-6F	6	34 mm	1/2"
EM-V324-8F	8	34 mm	1/2"
EM-V324-10F	10	34 mm	1/2"

FOR USE WITH 5/2 & 5/3 VALVES

EM-V521-2F	2	18 mm	1/8"
EM-V521-4F	4	18 mm	1/8"
EM-V521-6F	6	18 mm	1/8"
EM-V521-8F	8	18 mm	1/8"
EM-V521-10F	10	18 mm	1/8"
EM-V522-2F	2	22 mm	1/4"
EM-V522-4F	4	22 mm	1/4"
EM-V522-6F	6	22 mm	1/4"
EM-V522-8F	8	22 mm	1/4"
EM-V522-10F	10	22 mm	1/4"
EM-V524-2F	2	34 mm	1/2"
EM-V524-4F	4	34 mm	1/2"
EM-V524-6F	6	34 mm	1/2"
EM-V524-8F	8	34 mm	1/2"
EM-V524-10F	10	34 mm	1/2"

VP SERIES SOLENOID VALVES



3640

VP SERIES (3/2) SINGLE SOLENOID – 24 V DC

PART NUMBER	FUNCTION	VALVE BODY	PORT SIZE
EM-VP321-06E4	3/2	1/8"	1/8"

Symbol key
fit together



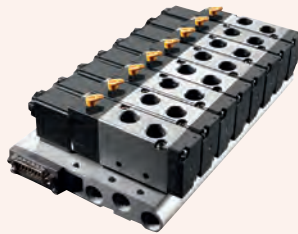
E.MC Valve Terminal

- An integrated valve manifold with integrated wiring using a 15-pin D-Sub connector. The COM pin is universal for both positive and negative poles.
- It is possible to integrate 5/2 ways single control, 5/2 ways double control, and 5/3 ways on the same valve manifold.
- The integrated valve manifold has a double control core and a technical patent resulting from its innovative design.
- Each connector now has an LED to provide a more intuitive experience.
- DIN coils are easy to assemble and maintain and come conveniently in a low-power option.
- New sub-base design with optional DIN guide rail assembly, same installation size as RV manifold.



Six

SR SERIES VALVE TERMINAL & ACCESSORIES



SR SERIES INTEGRATED MANIFOLD – PLUG-IN TYPE
COMPLETE WITH 5/2 SOL / SPRING VALVES

3640

PART NUMBER	NO. OF VALVES	BODY SIZE	PORT SIZE
EM-S1R3S-06E4	3	1 Series	1/8"
EM-S1R4S-06E4	4	1 Series	1/8"
EM-S1R5S-06E4	5	1 Series	1/8"
EM-S1R6S-06E4	6	1 Series	1/8"
EM-S1R7S-06E4	7	1 Series	1/8"
EM-S1R8S-06E4	8	1 Series	1/8"
EM-S1R9S-06E4	9	1 Series	1/8"
EM-S1R10S-06E4	10	1 Series	1/8"
EM-S1R11S-06E4	11	1 Series	1/8"
EM-S1R12S-06E4	12	1 Series	1/8"
EM-S1R13S-06E4	13	1 Series	1/8"
EM-S1R14S-06E4	14	1 Series	1/8"
EM-S2R3S-08E4	3	2 Series	1/4"
EM-S2R4S-08E4	4	2 Series	1/4"
EM-S2R5S-08E4	5	2 Series	1/4"
EM-S2R6S-08E4	6	2 Series	1/4"
EM-S2R7S-08E4	7	2 Series	1/4"
EM-S2R8S-08E4	8	2 Series	1/4"
EM-S2R9S-08E4	9	2 Series	1/4"
EM-S2R10S-08E4	10	2 Series	1/4"
EM-S2R11S-08E4	11	2 Series	1/4"
EM-S2R12S-08E4	12	2 Series	1/4"
EM-S2R13S-08E4	13	2 Series	1/4"
EM-S2R14S-08E4	14	2 Series	1/4"



3640

15 PIN D SUB CONNECTOR

PART NUMBER	CORE	LENGTH
EM-D15-08-5M	8	5 m
EM-D15-15-5M	15	5 m



3640

DIN GUIDE RAIL
WITH GUIDE RAIL CLIP

PART NUMBER	DESCRIPTION
EM-D	1 m guide rail with clip



3640

DIN GUIDE RAIL CLIP

PART NUMBER	DESCRIPTION
EM-D0	Guide rail clip



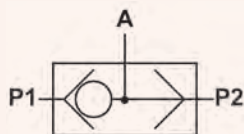
3640

BLIND PLATE

PART NUMBER	SIZE
EM-SRBP521	1/8"
EM-SRBP522	1/4"

SPECIFICATIONS

Control type	Pneumatic
Working pressure	1.5 to 8 bar
Working temperature	-20°C to +70°C



3630

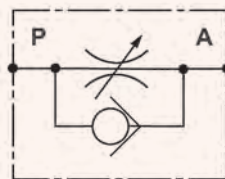
SHUTTLE VALVE (OR GATE)

PART NUMBER	PORT SIZE
EM-QS-06	1/8"
EM-QS-08	1/4"

FLOW REGULATORS

SPECIFICATIONS

Working medium	Clean air
Working pressure	0.5 to 10 bar
Guaranteed pressure	15 bar
Working temperature	-20°C to +70°C



3630

FLOW REGULATOR UNI DIRECTIONAL

PART NUMBER	PORT SIZE
EM-QSC-06	1/8"
EM-QSC-08	1/4"
EM-QSC-10	3/8"
EM-QSC-15	1/2"

SPECIFICATIONS

Control type	External control
Working pressure	0.5 to 8 bar
Working temperature	-5°C to +60°C



3630

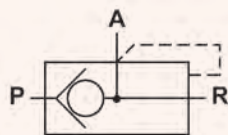
IN-LINE NON-RETURN VALVE

PART NUMBER	PORT SIZE
EM-EA-06	1/8"
EM-EA-08	1/4"
EM-EA-10	3/8"
EM-EA-15	1/2"

AUTOMATIC VALVES

SPECIFICATIONS

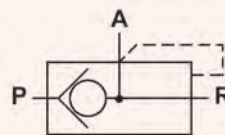
Working pressure	1.5 to 8 bar
Working temperature	-5°C to +60°C



3630

QUICK EXHAUST VALVE

PART NUMBER	PORT SIZE
EM-KKP-06	1/8"
EM-KKP-08	1/4"
EM-KKP-10	3/8"
EM-KKP-15	1/2"



3630

QUICK EXHAUST VALVE

PART NUMBER	PORT SIZE
EM-KKP-20	3/4"
EM-KKP-25	1"

H SERIES – MANUAL

SPECIFICATIONS

Working medium	Clean air
Working pressure	0 to 8 bar
Guaranteed pressure	12 bar
Working temperature	-5°C to +60°C
Valve type	3/2, 5/2 & 5/3
Seal material	NBR
Acting type	Manual



3630

3/2 LEVER / SPRING SPRING RETURN

PART NUMBER	FUNCTION	PORT SIZE
EM-H321-06S	3/2	1/8"
EM-H322-08S	3/2	1/4"
EM-H323-10S	3/2	3/8"
EM-H324-15S	3/2	1/2"



3640

5/3 LEVER / SPRING / LEVER SPRING TO CENTRE – CENTRES CLOSED

PART NUMBER	FUNCTION	EXHAUST	INLET
EM-H531C-06S	5/3	1/8"	1/8"
EM-H532C-08S	5/3	1/8"	1/4"
EM-H533C-10S	5/3	1/4"	3/8"
EM-H534C-15S	5/3	1/2"	1/2"



3630

3/2 LEVER / LEVER DETENTED

PART NUMBER	FUNCTION	PORT SIZE
EM-H321-06	3/2	1/8"
EM-H322-08	3/2	1/4"
EM-H323-10	3/2	3/8"
EM-H324-15	3/2	1/2"



3630

5/3 LEVER / SPRING / LEVER SPRING TO CENTRE – CENTRES EXHAUST

PART NUMBER	FUNCTION	EXHAUST	INLET
EM-H531E-06S	5/3	1/8"	1/8"
EM-H532E-08S	5/3	1/8"	1/4"
EM-H533E-10S	5/3	1/4"	3/8"
EM-H534E-15S	5/3	1/2"	1/2"



3630

5/2 LEVER / SPRING SPRING RETURN

PART NUMBER	FUNCTION	EXHAUST	INLET
EM-H521-06S	5/2	1/8"	1/8"
EM-H522-08S	5/2	1/8"	1/4"
EM-H523-10S	5/2	1/4"	3/8"
EM-H524-15S	5/2	1/2"	1/2"



3630

5/3 LEVER / SPRING / LEVER MANUAL – PRESSURED CENTRES

PART NUMBER	FUNCTION	EXHAUST	INLET
EM-H531P-06S	5/3	1/8"	1/8"
EM-H532P-08S	5/3	1/8"	1/4"
EM-H533P-10S	5/3	1/4"	3/8"
EM-H534P-15S	5/3	1/2"	1/2"



3630

5/2 LEVER / LEVER DETENTED

PART NUMBER	FUNCTION	EXHAUST	INLET
EM-H521-06	5/2	1/8"	1/8"
EM-H522-08	5/2	1/8"	1/4"
EM-H523-10	5/2	1/4"	3/8"
EM-H524-15	5/2	1/2"	1/2"



3630

5/3 LEVER / LEVER / LEVER DETENTED – CENTRES CLOSED

PART NUMBER	FUNCTION	EXHAUST	INLET
EM-H531C-06	5/3	1/8"	1/8"
EM-H532C-08	5/3	1/8"	1/4"
EM-H533C-10	5/3	1/4"	3/8"
EM-H534C-15	5/3	1/2"	1/2"

H SERIES – MECHANICAL

SPECIFICATIONS

Working medium	Clean air
Working pressure	0 to 8 bar
Guaranteed pressure	12 bar
Working temperature	-5°C to +60°C
Valve type	5/3
Seal material	NBR
Acting type	External control



3630

5/3 LEVER / LEVER / LEVER MANUAL – CENTRES EXHAUST

PART NUMBER	FUNCTION	EXHAUST	INLET
EM-H531E-06	5/3	1/8"	1/8"
EM-H532E-08	5/3	1/8"	1/4"
EM-H533E-10	5/3	1/4"	3/8"
EM-H534E-15	5/3	1/2"	1/2"



3630

5/3 LEVER / LEVER / LEVER MANUAL – PRESSURED CENTRES

PART NUMBER	FUNCTION	EXHAUST	INLET
EM-H531P-06	5/3	1/8"	1/8"
EM-H532P-08	5/3	1/8"	1/4"
EM-H533P-10	5/3	1/4"	3/8"
EM-H534P-15	5/3	1/2"	1/2"



3630

4/3 ROTARY LEVER VALVE

PART NUMBER	FUNCTION	PORT SIZE
EM-R432-08	4/3	1/4" BSPP
EM-R432-10	4/3	3/8" BSPP
EM-R432-15	4/3	1/2" BSPP

SPECIFICATIONS

Control type	Manual
Working pressure	0 to 8 bar
Working temperature	-5°C to +60°C



3630

FOOT VALVE

PART NUMBER	FUNCTION	DESCRIPTION	PORT SIZE
EM-F322-08	3/2	Foot valve no cover	1/4"
EM-F422-08	4/2	Foot valve no cover	1/4"
EM-F522C-08L	5/2	Foot pedal with lock & cover	1/4"

L SERIES – MANUAL

SPECIFICATIONS

Working medium	Clean air
Working pressure	0 to 8 bar
Guaranteed pressure	12 bar
Working temperature	-5°C to +60°C
Valve type	3/2 & 5/2
Acting type	Manual



3630

3/2 & 5/2 BUTTON VALVE DETENTED

PART NUMBER	FUNCTION	PORT SIZE
EM-L321-06	3/2	1/8"
EM-L322-08	3/2	1/4"
EM-L323-10	3/2	3/8"
EM-L324-15	3/2	1/2"
EM-L521-06	5/2	1/8"
EM-L522-08	5/2	1/4"
EM-L523-10	5/2	3/8"
EM-L524-15	5/2	1/2"

SPECIFICATIONS

Working medium	Clean air
Working pressure	0 – 8 bar
Guaranteed pressure	12 bar
Working temperature	-5°C to +60°C
Valve type	3/2 & 5/2
Acting type	External control



3630

3/2 & 5/2 HAND PULL VALVE BUTTON SPRING

PART NUMBER	FUNCTION	PORT SIZE
EM-L321-06S	3/2	1/8"
EM-L322-08S	3/2	1/4"
EM-L323-10S	3/2	3/8"
EM-L324-15S	3/2	1/2"
EM-L521-06S	5/2	1/8"
EM-L522-08S	5/2	1/4"
EM-L523-10S	5/2	3/8"
EM-L524-15S	5/2	1/2"

MANUAL & MECHANICAL VALVE WITH MANUAL OPERATING HEADS

SPECIFICATION

Working pressure	0 to 8 bar
Guaranteed pressure	12 bar
Working temperature	-5°C to +60°C
Valve type	MV series: 3/2 M series: 3/2 & 5/2
Acting type	External control
Panel cut out size	Ø 22.5 mm

Alternative button
colours available
upon request

Lead times
to be advised



3630

PUSH BUTTON SPRING RETURN VALVE FLAT BUTTON

PART NUMBER	FUNCTION	PORT SIZE
EM-MV32-06S5R	3/2	1/8"
EM-M32-08S5R	3/2	1/4"
EM-M52-08S5R	5/2	1/4"



MV style body



M style body

3630

3/2 ROLLER LEVER VALVE

PART NUMBER	FUNCTION	PORT SIZE
EM-MV32-06S2	3/2	1/8"
EM-MJ32-08S2	3/2	1/4"
EM-M52-08S2	5/2	1/4"



3630

PUSH BUTTON SPRING RETURN VALVE RAISED BUTTON

PART NUMBER	FUNCTION	PORT SIZE
EM-MV32-06S4G	3/2	1/8"
EM-M32-08S4G	3/2	1/4"
EM-M52-08S4G	5/2	1/4"



3630

TWO POSITION SELECTOR SWITCH VALVE WITH INDICATING ARROW

PART NUMBER	FUNCTION	PORT SIZE
EM-MV32-06S1B	3/2	1/8"
EM-M32-08S1B	3/2	1/4"
EM-M52-08S1B	5/2	1/4"



3630

PALM BUTTON SPRING RETURN VALVE

PART NUMBER	FUNCTION	PORT SIZE
EM-MV32-06S6R	3/2	1/8"
EM-M32-08S6R	3/2	1/4"
EM-M52-08S6R	5/2	1/4"



MV style body



M style body

3630

BASIC – NO BUTTON VALVES SPRING RETURN

PART NUMBER	FUNCTION	PORT SIZE
EM-MV322-06S7	3/2	1/8"
EM-M32-08S7	3/2	1/4"
EM-M52-08S7	5/2	1/4"



3630

TWIST LOCK PALM SWITCH VALVE

PART NUMBER	FUNCTION	PORT SIZE
EM-MV32-06S3R	3/2	1/8"
EM-M32-08S3R	3/2	1/4"
EM-M52-08S3R	5/2	1/4"

MANUAL & MECHANICAL VALVE WITH MANUAL OPERATING HEADS

PUSH BUTTON SHROUDED S5 VALVE HEAD



PART NUMBER	TO SUIT
EM-M32-06S5R-P01	M32, M52 & MV32 valves

PALM TWIST UNLOCK S3 VALVE HEAD



PART NUMBER	TO SUIT
EM-M32-06S3R-P01	M32, M52 & MV32 valves

PUSH BUTTON RAISED S4 VALVE HEAD



PART NUMBER	TO SUIT
EM-M32-06S4G-P01	M32, M52 & MV32 valves

TWO POSITION SELECTOR S1 BLACK VALVE HEAD



PART NUMBER	TO SUIT
EM-M32-06S1B-P01	M32, M52 & MV32 valves

PALM SPRING RETURN S6 VALVE HEAD



PART NUMBER	TO SUIT
EM-M32-06S6R-P01	M32, M52 & MV32 valves

Do you also need?



One-touch push-in fittings



Find it on pages 470 – 495, section eight

Do you also need?



Polyurethane tubing



Find it on pages 644 – 645, section ten



Festo Valves

Pneumatically and mechanically actuated industrial process valves and media valves

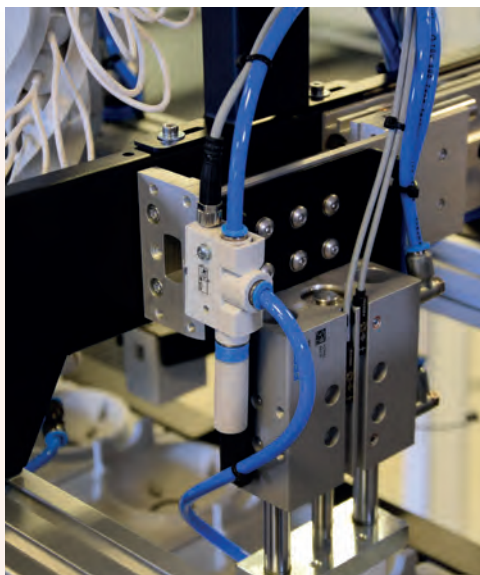
Festo's process and media valves are designed to regulate and control both liquids and gases. These valves are used in a variety of applications such as process automation, factory automation, filling and dispensing, cooling, heating/preheating, lubrication, steam distribution, and in machinery such as steam boilers, sterilisers, autoclaves, textile processing machines, filling systems, and industrial washing machines. They are also suitable for viscous media, dirty and aggressive liquids like acids, steam, various gases, and vacuum.

Solenoid valves

Solenoid valves for controlling liquid and gas flows are essential for various industrial and commercial applications. These valves work by using an electromagnet to control the opening and closing of a valve seat. Depending on the design principle, solenoid valves can be classified into three types: directly controlled, servo-controlled, and force pilot-operated valves. These types differ in terms of how they are operated and maintained.

Available Ranges

- Solenoid valves: VUVG & VUVS
- Namur solenoid valves: VSNC
- Manually operated valves
- Mechanically operated valves
- Pressure sensors



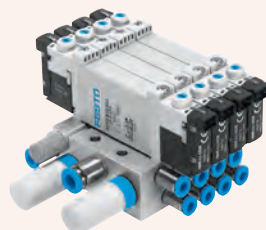
VUVG SERIES

FEATURES

- Universal valve
- Basic valve & E-box combinations
- Width 10 mm, 14 mm & 18 mm
- Internal pilot air supply with VUVG-L
- Can be mounted as individual valve or sub-base valve on sturdy aluminium manifold rail
- Operating voltage 24 V DC without E-box

SPECIFICATIONS

Valve function	T32C	2 x 3/2-way valve, normally closed
	T32U	2 x 3/2-way valve, normally open
	M52	5/2-way valve, single solenoid
	B52	5/2-way valve, double solenoid
	P53C	5/3-way valve, mid-position closed
Reset method	P53E	5/3-way valve, mid-position exhausted
	AT	Pneumatic spring / internal / non-detenting, detenting with accessories
	RT	Pneumatic-mechanical spring / internal / non-detenting, detenting with accessories
	ZT	Without / external / non-detenting, detenting
	T	Without / internal / non-detenting, detenting
	AZT	Pneumatic spring / external / non-detenting, detenting with accessories
	RZT	Pneumatic-mechanical spring / external / non-detenting, detenting



VUVG SERIES
IN-LINE VALVE / INDIVIDUAL VALVE
10 MM WIDTH

3110

VUVG SERIES
SUB-BASE VALVE
10 MM WIDTH

3110

PART NUMBER	TYPE	THREAD
FES8042540	VUVG-LK10-B52-T-M5-1H2L-S	M5
FES8042544	VUVG-LK10-B52-T-M5-1R8L-S	M5
FES8042548	VUVG-LK10-B52-T-M7-1H2L-S	M7
FES8042552	VUVG-LK10-B52-T-M7-1R8L-S	M7
FES8042539	VUVG-LK10-M52-AT-M5-1H2L-S	M5
FES8042543	VUVG-LK10-M52-AT-M5-1R8L-S	M5
FES8042547	VUVG-LK10-M52-AT-M7-1H2L-S	M7
FES8042551	VUVG-LK10-M52-AT-M7-1R8L-S	M7
FES8042538	VUVG-LK10-T32C-AT-M5-1H2L-S	M5
FES8042546	VUVG-LK10-T32C-AT-M7-1H2L-S	M7
FES8042550	VUVG-LK10-T32C-AT-M7-1R8L-S	M7

PART NUMBER	TYPE
FES566487	VUVG-B10-T32C-AZT-F-1P3
FES566488	VUVG-B10-T32U-AZT-F-1P3
FES566490	VUVG-B10-M52-RZT-F-1P3
FES566491	VUVG-B10-B52-ZT-F-1P3
FES566492	VUVG-B10-P53C-ZT-F-1P3
FES566493	VUVG-B10-P53E-ZT-F-1P3
FES8042556	VUVG-BK10-B52-T-F-1H2L-S
FES8042560	VUVG-BK10-B52-T-F-1R8L-S
FES8042555	VUVG-BK10-M52-AT-F-1H2L-S
FES8042554	VUVG-BK10-T32C-AT-F-1H2L-S
FES8042558	VUVG-BK10-T32C-AT-F-1R8L-S

14 MM WIDTH

FES8042564	VUVG-LK14-B52-T-G18-1H2L-S	G1/8
FES8042568	VUVG-LK14-B52-T-G18-1R8L-S	G1/8
FES8042563	VUVG-LK14-M52-AT-G18-1H2L-S	G1/8
FES8042567	VUVG-LK14-M52-AT-G18-1R8L-S	G1/8
FES8042562	VUVG-LK14-T32C-AT-G18-1H2L-S	G1/8
FES8042566	VUVG-LK14-T32C-AT-G18-1R8L-S	G1/8

14 MM WIDTH

FES566513	VUVG-B14-T32C-AZT-F-1P3
FES566514	VUVG-B14-T32U-AZT-F-1P3
FES566516	VUVG-B14-M52-AZT-F-1P3
FES566517	VUVG-B14-B52-ZT-F-1P3
FES566518	VUVG-B14-P53C-ZT-F-1P3
FES566519	VUVG-B14-P53E-ZT-F-1P3
FES8042572	VUVG-BK14-B52-T-F-1H2L-S
FES8042576	VUVG-BK14-B52-T-F-1R8L-S
FES8042571	VUVG-BK14-M52-AT-F-1H2L-S
FES8042575	VUVG-BK14-M52-AT-F-1R8L-S
FES8042570	VUVG-BK14-T32C-AT-F-1H2L-S
FES8042574	VUVG-BK14-T32C-AT-F-1R8L-S

18 MM WIDTH

FES8031532	VUVG-L18-M52-MT-G14-1R8L	G1/4
FES8031531	VUVG-L18-M52-RT-G14-1R8L	G1/4
FES8031534	VUVG-L18-P53C-T-G14-1R8L	G1/4

VUVG SERIES



SEAL VABD-L1-10X
10 MM SIZE

3110

PART NUMBER	TYPE	THREAD
FES566672	VABD-L1-10X-S-M5	M5
FES566673	VABD-L1-10X-S-M7	M7

14 MM SIZE

FES566675	VABD-L1-14X-S-G18	G1/8
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MANIFOLD RAIL VABM
FOR INDIVIDUAL VALVE VUVG-L
WITH SEAL VABM-L1-10X
10 MM SIZE

3110

PART NUMBER	TYPE	THREAD	VALVE POS.
FES566558	VABM-L1-10S-G18-2	G1/8	2
FES566559	VABM-L1-10S-G18-3	G1/8	3
FES566560	VABM-L1-10S-G18-4	G1/8	4
FES566562	VABM-L1-10S-G18-6	G1/8	6
FES566564	VABM-L1-10S-G18-8	G1/8	8
FES566566	VABM-L1-10S-G18-10	G1/8	10
FES576363	VABM-B10-20-G38-2-P53	G3/8	2
FES576365	VABM-B10-20-G38-4-P53	G3/8	4
FES576367	VABM-B10-20-G38-6-P53	G3/8	6
FES576369	VABM-B10-20-G38-8-P53	G3/8	8
FES576371	VABM-B10-20-G38-10-P53	G3/8	10
FES8026261	VABM-B10-25S-G38-2	G3/8	2
FES8026263	VABM-B10-25S-G38-4	G3/8	4
FES8026265	VABM-B10-25S-G38-6	G3/8	6
FES8026267	VABM-B10-25S-G38-8	G3/8	8
FES8026269	VABM-B10-25S-G38-10	G3/8	10

14 MM SIZE

FES566618	VABM-L1-14S-G14-2	G1/4	2
FES566619	VABM-L1-14S-G14-3	G1/4	3
FES566620	VABM-L1-14S-G14-4	G1/4	4
FES566622	VABM-L1-14S-G14-6	G1/4	6
FES566624	VABM-L1-14S-G14-8	G1/4	8
FES566626	VABM-L1-14S-G14-10	G1/4	10

MANIFOLD RAIL VABM
FOR SUB-BASE VALVE VUVG-B
10 MM SIZE



3110

PART NUMBER	TYPE	THREAD	VALVE POS.
FES566582	VABM-L1-10W-G18-2	M5	2
FES566583	VABM-L1-10W-G18-3	M5	3
FES566584	VABM-L1-10W-G18-4	M5	4
FES566586	VABM-L1-10W-G18-6	M5	6
FES566588	VABM-L1-10W-G18-8	M5	8
FES566590	VABM-L1-10W-G18-10	M5	10
FES566606	VABM-L1-10HW-G18-2	M7	2
FES566607	VABM-L1-10HW-G18-3	M7	3
FES566608	VABM-L1-10HW-G18-4	M7	4
FES566610	VABM-L1-10HW-G18-6	M7	6
FES566612	VABM-L1-10HW-G18-8	M7	8
FES566614	VABM-L1-10HW-G18-10	M7	10
FES576417	VABM-B10-20S-G14-2	G1/4	2
FES576419	VABM-B10-20S-G14-4	G1/4	4
FES576421	VABM-B10-20S-G14-6	G1/4	6
FES576423	VABM-B10-20S-G14-8	G1/4	8
FES576425	VABM-B10-20S-G14-10	G1/4	10
FES8026219	VABM-B10-25-G12-2-P53	G1/2	2
FES8026221	VABM-B10-25-G12-4-P53	G1/2	4
FES8026223	VABM-B10-25-G12-6-P53	G1/2	6
FES8026225	VABM-B10-25-G12-8-P53	G1/2	8
FES8026227	VABM-B10-25-G12-10-P53	G1/2	10
FES8026379	VABM-B10-30S-G12-4	G1/2	4
FES8026381	VABM-B10-30S-G12-6	G1/2	6
FES8026383	VABM-B10-30S-G12-8	G1/2	8
FES8026385	VABM-B10-30S-G12-10	G1/2	10

14 MM SIZE

FES566642	VABM-L1-14W-G14-2	G1/8	2
FES566643	VABM-L1-14W-G14-3	G1/8	3
FES566644	VABM-L1-14W-G14-4	G1/8	4
FES566646	VABM-L1-14W-G14-6	G1/8	6
FES566648	VABM-L1-14W-G14-8	G1/8	8
FES566650	VABM-L1-14W-G14-10	G1/8	10

VUVG SERIES



3110

SEPARATOR VABD-B

PART NUMBER	TYPE	SIZE	FOR USE WITH
FES569995	VABD-8-B	10	Individual Valve VUVG-L
FES569996	VABD-10-B	14	Individual Valve VUVG-L & Sub-Base Valve VUVG-B
FES569994	VABD-6-B	10	Sub-Base Valve VUVG-B

FEATURES

- LED
- Protective circuit



3110

VAVE SERIES E-BOXES
FLYING LEADS

PART NUMBER	TYPE	LENGTH	VOLTAGE
FES566722	VAVE-L1-1VL1-LP	0.5 m	24 & 12 V DC
FES566723	VAVE-L1-1VL2-LP	1.0 m	24 & 12 V DC
FES566724	VAVE-L1-1VL3-LP	2.5 m	24 & 12 V DC

VERTICAL PLUG

FES566715	VAVE-L1-1VH3-LP	–	24 & 12 V DC
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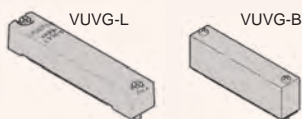
HORIZONTAL PLUG

FES566714	VAVE-L1-1VH2-LP	–	24 & 12 V DC
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COVER VMPA/INSCRIPTION
LABEL ASLR/H-RAIL
MOUNTING VAME


3110

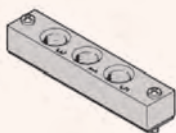
PART NUMBER	TYPE	SIZE	PIECES
FES540897	VMPA-HBT-B	10, 14	10
FES570818	ASLR-D-L1	10, 14	10
FES569998	VAME-T-M4	10, 14	2



3110

COVER PLATE VABB

PART NUMBER	TYPE	SIZE	FOR USE WITH
FES566462	VABB-L1-10-S	10	Individual Valve VUVG-L
FES569989	VABB-L1-14	14	Individual Valve VUVG-L & Sub-Base Valve VUVG-B
FES566495	VABB-L1-10-W	10	Sub-Base Valve VUVG-B



3110

VABF SERIES SUPPLY PLATE
FOR USE WITH
INDIVIDUAL VALVE VUVG-L

PART NUMBER	TYPE	SIZE	THREAD
FES569991	VABF-L1-10-P3A4-M5	10	M5
FES569992	VABF-L1-10-P3A4-M7	10	M7
FES569993	VABF-L1-14-P3A4-G18	14	G1/8

NEBV SERIES PLUG SOCKET
WITH CABLE
2-PIN STRAIGHT SOCKET –
FLYING LEADS, OPEN END


3110

PART NUMBER	TYPE	CABLE LENGTH
FES566654	NEBV-H1G2-KN-0.5-N-LE2	0.5 m
FES566655	NEBV-H1G2-KN-1-N-LE2	1.0 m
FES566656	NEBV-H1G2-KN-2.5-N-LE2	2.5 m

NEBV SERIES PLUG SOCKET
WITH CABLE
2-PIN STRAIGHT SOCKET –
INDIVIDUAL CABLE, OPEN END


3110

PART NUMBER	TYPE	CABLE LENGTH
FES566658	NEBV-H1G2-P-0.5-N-LE2	0.5 m
FES566659	NEBV-H1G2-P-1-N-LE2	1.0 m
FES566660	NEBV-H1G2-P-2.5-N-LE2	2.5 m



VUVS SERIES

FEATURES

- A reliable, heavy duty valve with a long service life
- Low-cost universal valve with no performance limits
- Wide range of valve functions
- Durable, thanks to tried & tested piston spools

SPECIFICATIONS

Width	20 mm, 25 mm & 30 mm
Connection	G1/8, G1/4, G3/8
Spring	Mechanical & air

VALVE FUNCTION

M32C	3/2-way closed, single solenoid
M32U	3/2-way open, single solenoid
M52	5/2-way, single solenoid
B52	5/2-way, double solenoid
P53C	5/3-way mid closed, double solenoid
P53E	5/3-way mid exhaust, double solenoid
P53U	5/3-way mid press, double solenoid



SOLENOID VALVES LK20 TYPE

3110

PART NUMBER	TYPE
FES8043215	VUVS-LK20-B52-D-G18-1C1-S
FES8043213	VUVS-LK20-M32C-AD-G18-1C1-S
FES8043214	VUVS-LK20-M52-AD-G18-1C1-S



SOLENOID VALVES LK25 TYPE

3110

PART NUMBER	TYPE
FES8043219	VUVS-LK25-B52-D-G14-1B2-S
FES8043217	VUVS-LK25-M32C-AD-G14-1B2-S
FES8043218	VUVS-LK25-M52-AD-G14-1B2-S



SOLENOID VALVES L30 TYPE

3110

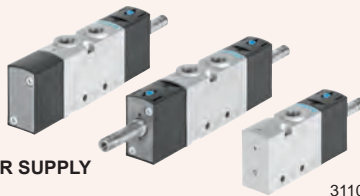
PART NUMBER	TYPE
FES575628	VUVS-L30-P53U-MZD-G38-F8-1B2
FES575626	VUVS-L30-P53U-MZD-G38-F8-1C1



SOLENOID VALVES LK30 TYPE

3110

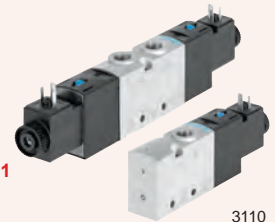
PART NUMBER	TYPE
FES8049882	VUVS-LK30-B52-D-G38-1B2-S
FES8049880	VUVS-LK30-M32C-AD-G38-1B2-S
FES8049881	VUVS-LK30-M52-AD-G38-1B2-S



SOLENOID VALVES INTERNAL PILOT AIR SUPPLY L20 TYPE

3110

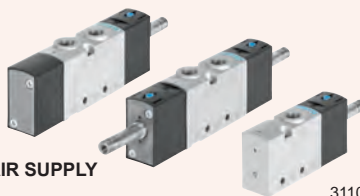
PART NUMBER	TYPE
FES575260	VUVS-L20-M32C-MD-G18-F7
FES575262	VUVS-L20-M32U-MD-G18-F7
FES575250	VUVS-L20-M52-MD-G18-F7
FES575251	VUVS-L20-B52-D-G18-F7
FES575254	VUVS-L20-P53C-MD-G18-F7
FES575252	VUVS-L20-P53E-MD-G18-F7
FES575253	VUVS-L20-P53U-MD-G18-F7



VUVS SERIES WITH 24 V COIL TO PATTERN TYPE C, EN175301 INTERNAL PILOT AIR SUPPLY L20 TYPE

3110

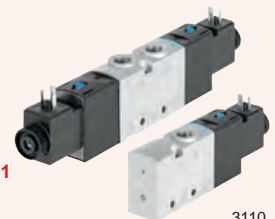
PART NUMBER	TYPE
FES575274	VUVS-L20-M32C-MD-G18-F7-1C1
FES575276	VUVS-L20-M32U-MD-G18-F7-1C1
FES575264	VUVS-L20-M52-MD-G18-F7-1C1
FES575265	VUVS-L20-B52-D-G18-F7-1C1
FES575268	VUVS-L20-P53C-MD-G18-F7-1C1
FES575266	VUVS-L20-P53E-MD-G18-F7-1C1
FES575267	VUVS-L20-P53U-MD-G18-F7-1C1



SOLENOID VALVES EXTERNAL PILOT AIR SUPPLY L20 TYPE

3110

PART NUMBER	TYPE
FES575259	VUVS-L20-M32C-MZD-G18-F7
FES575261	VUVS-L20-M32U-MZD-G18-F7
FES575679	VUVS-L20-M52-MZD-G18-F7
FES575682	VUVS-L20-B52-ZD-G18-F7
FES575685	VUVS-L20-P53C-MZD-G18-F7
FES575691	VUVS-L20-P53E-MZD-G18-F7
FES575688	VUVS-L20-P53U-MZD-G18-F7



VUVS SERIES WITH 24 V COIL TO PATTERN TYPE C, EN175301 EXTERNAL PILOT AIR SUPPLY L20 TYPE

3110

PART NUMBER	TYPE
FES575273	VUVS-L20-M32C-MZD-G18-F7-1C1
FES575275	VUVS-L20-M32U-MZD-G18-F7-1C1
FES575680	VUVS-L20-M52-MZD-G18-F7-1C1
FES575683	VUVS-L20-B52-ZD-G18-F7-1C1
FES575686	VUVS-L20-P53C-MZD-G18-F7-1C1
FES575692	VUVS-L20-P53E-MZD-G18-F7-1C1
FES575689	VUVS-L20-P53U-MZD-G18-F7-1C1

VUVS SERIES



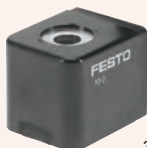
SOLENOID COIL VACS CONNECTION PATTERN TYPE C FOR VUVS VALVES



3110

PART NUMBER	TYPE	VOLTAGE
FES8025330	VACS-C-C1-1	24 V DC
FES8025335	VACS-C-C1-1A	24 V AC / 50/60 Hz
FES8025337	VACS-C-C1-7A	48 V AC
FES8025334	VACS-C-C1-16B	110/120 V AC / 50/60 Hz
FES8025338	VACS-C-C1-3W	230/240 V AC / 50/60 Hz

SOLENOID COIL FOR COIL CONNECTION PATTERN TYPE A SUITABLE FOR VZWM-L



3110

PART NUMBER	TYPE	VOLTAGE	TO FIT ARMATURE TUBE
FES549903	MD-2-24VDC-PA	24 V DC	F4
FES549904	MD-2-110VAC-PA	110 V AC	F4
FES549905	MD-2-230VAC-PA	230 V AC	F4
FES549906	MH-2-24VDC-PA	24 V DC	F5
FES549907	MH-2-110VAC-PA	110 V AC	F5
FES549908	MH-2-230VAC-PA	230 V AC	F5

FEATURES

- For solenoid coils & valves, port pattern per DIN EN175 301, type C

PLUG SOCKET MSSD FOR COIL CONNECTION PATTERN TYPE C



3110

PART NUMBER	TYPE	CABLE CONNECTOR
FES151687	MSSD-EB	Screw terminal

FEATURES

- For solenoid coils & valves, standard industry port pattern

PLUG SOCKET MSSD TYPE B



3110

PART NUMBER	TYPE	CABLE CONNECTOR
FES34431	MSSD-F	Screw terminal

PLUG SOCKET FOR MD & MH COILS



3110

PART NUMBER	TYPE
FES550067	MSSD-N

FEATURES

- Suitable for coil connection pattern type C
- Pre-assembled
- Cable length: 2.5 m, 5 m, 10 m



PLUG SOCKET KMEB WITH CABLE

3110

PART NUMBER	TYPE	CABLE LENGTH	SUITABLE FOR COIL VOLTAGE
FES151688	KMEB-1-24-2,5-LED	2.5 m	24 V DC
FES151689	KMEB-1-24-5-LED	5 m	24 V DC
FES193457	KMEB-1-24-10-LED	10 m	24 V DC
FES151690	KMEB-1-230AC-2,5	2.5 m	230 V AC
FES151691	KMEB-1-230AC-5	5 m	230 V AC

ILLUMINATING SEAL MEB-LD



3110

PART NUMBER	TYPE	VOLTAGE
FES151717	MEB-LD-12-24DC	12 – 24 V DC
FES151718	MEB-LD-230AC	230 V DC

SOLENOID COILS



3110

PART NUMBER	TYPE	VOLTAGE
FES4527	MSFG-24/42-50/60	24 V DC / 42 V AC
FES34411	MSFG-24/42-50/60-OD	24 V DC / 42 V AC

NAMUR SOLENOID VALVES

FEATURES

- Operating voltage DC
- Cost optimised variant with plastic cover, brass armature tube & IP65 coils
- Conversion from 3/2 way to 5/2 way valve simply by turning the seal



VSNC NAMUR SOLENOID VALVE
SINGLE SOLENOID, 24 V DC, TYPE B CONNECTOR 3110

PART NUMBER	TYPE	FUNCTION
FES577295	VSNC-FC-M52-MD-G14-F8-1B2	5/2-way or 3/2-way



VSNC NAMUR SOLENOID VALVE
SINGLE SOLENOID, WITHOUT COIL
9 MM ARMATURE TUBE 3110

PART NUMBER	TYPE	FUNCTION
FES577267	VSNC-FC-M52-MD-G14-FN	5/2-way or 3/2-way



VSNC NAMUR SOLENOID VALVE
DOUBLE SOLENOID, 24 V DC, TYPE B CONNECTOR 3110

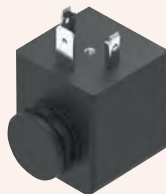
PART NUMBER	TYPE	FUNCTION
FES577296	VSNC-F-B52-D-G14-F8-1B2	5/2-way



VSNC NAMUR SOLENOID VALVE
SINGLE SOLENOID, WITHOUT COIL
8 MM ARMATURE TUBE 3110

PART NUMBER	TYPE	FUNCTION
FES577257	VSNC-FC-M52-MD-G14-F8	5/2-way or 3/2-way

SOLENOID COILS



SOLENOID COILS 3110

PART NUMBER	TYPE	SIZE	VOLTAGE
FES8029144	VACN-N-A1-1	9 mm	24 V DC 0.7 W
FES8030822	VACF-A-A1-1	8 mm	24 V DC 2.6 W

Do you also need?

FESTO

Cylinders



Find it on pages 361 – 364, section six



3110

FINGER LEVER VALVE

PART NUMBER	TYPE	FUNCTION
FES4500004	VHEF-L-M52-E-G14	5/2
FES4500005	VHEF-L-M52-E-G18	5/2
FES4500000	VHEF-L-M52-M-G14	5/2
FES4500001	VHEF-L-M52-M-G18	5/2
FES4500008	VHEF-LT-M32-M-G14	3/2
FES4500009	VHEF-LT-M32-M-G18	3/2



3110

PUSH BUTTON VALVE

PART NUMBER	TYPE	FUNCTION
FES5299716	VHEF-P-B52-G14	5/2
FES5299710	VHEF-P-B52-G18	5/2
FES5299715	VHEF-P-M52-M-G14	5/2
FES5299709	VHEF-P-M52-M-G18	5/2
FES5299713	VHEF-PTC-B32-G14	3/2
FES5299707	VHEF-PTC-B32-G18	3/2
FES5299711	VHEF-PTC-M32-M-G14	3/2
FES5299705	VHEF-PTC-M32-M-G18	3/2
FES5299714	VHEF-PTCZ-B32-G14	3/2
FES5299708	VHEF-PTCZ-B32-G18	3/2
FES5299712	VHEF-PTCZ-M32-M-G14	3/2
FES5299706	VHEF-PTCZ-M32-M-G18	3/2



3110

HAND LEVER VALVE

PART NUMBER	TYPE	FUNCTION
FES4165864	VHEF-HS-B52-G14	5/2
FES4165863	VHEF-HS-B52-G18	5/2
FES4165866	VHEF-HS-B53C-G14	5/3
FES4165865	VHEF-HS-B53C-G18	5/3
FES4165868	VHEF-HS-B53E-G14	5/3
FES4165867	VHEF-HS-B53E-G18	5/3
FES4165856	VHEF-HS-M52-M-G14	5/2
FES4165855	VHEF-HS-M52-M-G18	5/2
FES4165858	VHEF-HS-P53C-M-G14	5/3
FES4165857	VHEF-HS-P53C-M-G18	5/3
FES4165860	VHEF-HS-P53E-M-G14	5/3
FES4165859	VHEF-HS-P53E-M-G18	5/3
FES4165862	VHEF-HST-B32-G14	3/2
FES4165861	VHEF-HST-B32-G18	3/2
FES4165854	VHEF-HST-M32-M-G14	3/2
FES4165853	VHEF-HST-M32-M-G18	3/2



3110

SELECTOR VALVE

PART NUMBER	TYPE	FUNCTION
FES4106817	VHEF-ES-B52-G14	5/2
FES4106816	VHEF-ES-B52-G18	5/2
FES4106819	VHEF-ES-B53C-G14	5/3
FES4106818	VHEF-ES-B53C-G18	5/3
FES4106821	VHEF-ES-B53E-G14	5/3
FES4106820	VHEF-ES-B53E-G18	5/3
FES4106809	VHEF-ES-M52-M-G14	5/2
FES4106808	VHEF-ES-M52-M-G18	5/2
FES4106811	VHEF-ES-P53C-M-G14	5/3
FES4106810	VHEF-ES-P53C-M-G18	5/3
FES4106813	VHEF-ES-P53E-M-G14	5/3
FES4106812	VHEF-ES-P53E-M-G18	5/3
FES4106815	VHEF-EST-B32-G14	3/2
FES4106814	VHEF-EST-B32-G18	3/2
FES4106807	VHEF-EST-M32-M-G14	3/2
FES4106806	VHEF-EST-M32-M-G18	3/2



3110

STEM ACTUATED VALVE

PART NUMBER	TYPE	FUNCTION
FES8031304	VMEF-S-M52-E-G14	5/2
FES8031299	VMEF-S-M52-E-G18	5/2
FES8031302	VMEF-S-M52-M-G14	5/2
FES8031297	VMEF-S-M52-M-G18	5/2
FES8031300	VMEF-ST-M32-M-G14	3/2 NO or NC
FES8031295	VMEF-ST-M32-M-G18	3/2 NO or NC



3110

ROLLER LEVER VALVE

PART NUMBER	TYPE	FUNCTION
FES8047102	VMEF-K-M52-M-G14	5/2
FES8049240	VMEF-K-M52-M-G18	5/2
FES8047103	VMEF-KT-M32-M-G14	3/2
FES8049241	VMEF-KT-M32-M-G18	3/2
FES8047093	VMEF-R-M52-E-G14	5/2
FES8047092	VMEF-R-M52-E-G18	5/2
FES8047094	VMEF-R-M52-M-G14	5/2
FES8049238	VMEF-R-M52-M-G18	5/2
FES8047095	VMEF-RT-M32-M-G14	3/2
FES8049239	VMEF-RT-M32-M-G18	3/2

ACCESSORIES

New
Additions



3110

FRONT PANEL VALVE

PART NUMBER	TYPE	FUNCTION
FES6817	SV-3-M5	3/2 Closed
FES11914	SV-5-M5-B	5/2 Closed



3110

MUSHROOM PUSH BUTTON

PART NUMBER	TYPE	COLOUR
FES9293	P-22-SW	Black
FES9295	P-30-SW	Black



3110

KEY ACTUATOR

PART NUMBER	TYPE
FES573107	Q-22-B
FES9304	Q-30



3110

MUSHROOM PUSH BUTTON WITH DETENT

PART NUMBER	TYPE	DESCRIPTION	COLOUR
FES9297	PR-22-RT	Non-lockable	Red
FES9298	PR-30-RT	Non-lockable	Red
FES573108	PRS-22-RT-B	Lockable	Red
FES9300	PRS-30-RT	Lockable	Red



3110

TOGGLE SWITCH

PART NUMBER	TYPE
FES9305	H-22-SW
FES9306	H-30-SW



3110

PUSH BUTTON ACTUATOR

PART NUMBER	TYPE	FUNCTION	COLOUR
FES9290	T-22-GE	3/2	Yellow
FES9997	T-22-RT	3/2	Red
FES9289	T-22-SW	3/2	Black
FES9292	T-30-GE	3/2	Yellow
FES10014	T-30-RT	3/2	Red
FES9291	T-30-SW	3/2	Black



3110

SELECTOR SWITCH

PART NUMBER	TYPE
FES9301	N-22-SW
FES9302	N-30-SW

PRESSURE SENSORS

FEATURES

- Programmable & configurable pressure switch for simple pressure sensing tasks
- Relative pressure measurement
- Teach-in function for programming
- Integrated microprocessor
- Switching status indicated by an LED visible from all sides

SPECIFICATIONS

Output function	FP	Freely programmable, N/O contact, N/C contact
	O	Threshold value with fixed hysteresis, 1 teach-in pressure, N/O contact
	C	Threshold value with fixed hysteresis, 1 teach-in pressure, N/C contact
	O1	Threshold value with fixed hysteresis, 2 teach-in pressures, N/O contact
	O2	Threshold value with variable hysteresis, 2 teach-in pressures, N/O contact
	O3	O3 Window comparator with fixed hysteresis, 2 teach-in pressures, N/O contact
Electrical output	P	1 switching output PNP

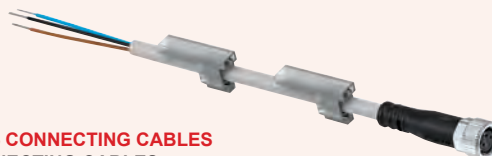
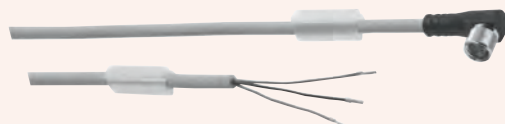


SDE5 PRESSURE SENSORS

3160

PART NUMBER	TYPE	PRESSURE RANGE (BAR)
FES542887	SDE5-V1-FP-Q6-P-M8	-1 to 0
FES527461	SDE5-V1-O-Q6E-P-M8	-1 to 0
FES527458	SDE5-V1-O-Q6-P-M8	-1 to 0
FES527460	SDE5-V1-O-Q4E-P-M8	-1 to 0
FES527457	SDE5-V1-O-Q4-P-M8	-1 to 0
FES542886	SDE5-V1-O1-Q6-P-M8	-1 to 0
FES542888	SDE5-D2-O-Q6E-P-K	0 to 2
FES542897	SDE5-D10-FP-Q6E-P-M8	0 to 10
FES542898	SDE5-D10-FP-Q6-P-M8	0 to 10
FES542901	SDE5-D10-FP-Q4E-P-K	0 to 10
FES542900	SDE5-D10-FP-Q4E-P-M8	0 to 10
FES542899	SDE5-D10-FP-Q6-P-K	0 to 10
FES527467	SDE5-D10-O-Q6E-P-M8	0 to 10
FES542890	SDE5-D10-O-Q6E-P-K	0 to 10
FES527464	SDE5-D10-O-Q6-P-M8	0 to 10
FES527466	SDE5-D10-O-Q4E-P-M8	0 to 10
FES527463	SDE5-D10-O-Q4-P-M8	0 to 10
FES542894	SDE5-D10-C-Q6E-P-M8	0 to 10
FES542889	SDE5-D10-C-Q4E-P-M8	0 to 10
FES542895	SDE5-D10-C-Q6E-P-K	0 to 10
FES542892	SDE5-D10-O2-Q6-P-M8	0 to 10
FES542891	SDE5-D10-O2-Q6E-P-M8	0 to 10

PRESSURE SENSOR ACCESSORIES



SDE5 CONNECTING CABLES

CONNECTING CABLES

ANGLED SOCKET

3110

PART NUMBER	TYPE	CABLE LENGTH
FES541338	NEBU-M8W3-K-2.5-LE3	2.5 m
FES541341	NEBU-M8W3-K-5-LE3	5.0 m
FES541335	NEBU-M8W3-K-10-LE3	10.0 m
FES575833	NEBU-M8W4-K-10-LE4	10.0 m

SDE5 CONNECTING CABLES

CONNECTING CABLES

STRAIGHT SOCKET

3110

PART NUMBER	TYPE	CABLE LENGTH
FES541333	NEBU-M8G3-K-2.5-LE3	2.5 m
FES541334	NEBU-M8G3-K-5-LE3	5.0 m
FES541363	NEBU-M12G5-K-2.5-LE3	2.5 m
FES550326	NEBU-M12G5-K-2.5-LE4	2.5 m
FES541330	NEBU-M12G5-K-2.5-LE5	2.5 m
FES541364	NEBU-M12G5-K-5-LE3	5.0 m
FES541328	NEBU-M12G5-K-5-LE4	5.0 m
FES541331	NEBU-M12G5-K-5-LE5	5.0 m
FES541332	NEBU-M8G3-K-10-LE3	10.0 m
FES541348	NEBU-M8G3-K-2.5-M8G3	2.5 m
FES541349	NEBU-M8G3-K-5-M8G3	5.0 m
FES554035	NEBU-M8G4-K-2.5-M8G4	2.5 m

PRESSURE SENSORS

FEATURES

- Two part, multi-coloured display
- Copy function (settings can be transferred from one device to another)
- Simple commissioning, thanks to intuitive operation
- Compact design 30 x 30 mm
- Electric output 2 x NPN



SPAN PRESSURE SENSORS WITH DISPLAY CABLE CONNECTION



3160

PART NUMBER	TYPE	PRESSURE RANGE (BAR)
FES8035545	SPAN-B2R-G18M-PN-PN-L1	-1 to +1
FES8035544	SPAN-P10R-G18M-PN-PN-L1	0 to 10

PRESSURE SENSOR ACCESSORIES

SAMH-PN-F FRONT PANEL INSTALLATION KIT



3110

PART NUMBER	TYPE
FES8035561	SAMH-PN-F

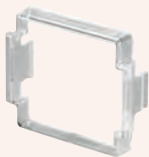
PRESSURE SWITCH



3110

PART NUMBER	TYPE
FES10773	PEV-1/4-B

SACC-PN-G PROTECTIVE COVER



3110

PART NUMBER	TYPE
FES8035560	SACC-PN-G

NEBU-M8 CONNECTING CABLE M8x1 4-WIRE, STRAIGHT SOCKET



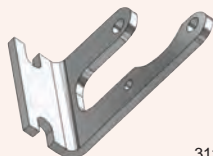
3110

PART NUMBER	TYPE	CABLE LENGTH
FES541342	NEBU-M8G4-K-2.5-LE4	2.5 m
FES541343	NEBU-M8G4-K-5-LE4	5.0 m

M8x1 4-WIRE ANGLED SOCKET

FES541344	NEBU-M8W4-K-2.5-LE4	2.5 m
FES541345	NEBU-M8W4-K-5-LE4	5.0 m

SAMH-PU-A MOUNTING BRACKET



3110

PART NUMBER	TYPE
FES8003354	SAMH-PU-A

PLUG SOCKET WITH CABLE



3110

PART NUMBER	TYPE
FES30935	KMF-1-24DC-2.5-LED



CamoZZi Valves

Control elements are crucial in pneumatic circuits for precise and reliable operation. Valves and solenoids drive pneumatic actuators and compressed air circuits.

CamoZZi's components are engineered to deliver the highest possible performance regarding flow rate and power consumption, whether using a direct, mechanical, or pneumatically operated valve.

We offer a wide range of pneumatic valves, solenoid valves, and valve islands, available in various sizes and flow rates, to cater to the specific requirements of any industrial sector.

Available Ranges

- Solenoid valves – Series A
- Solenoid/spring valves – Series 3 & 4
- Solenoid and pneumatic valves – Series 9
- Solenoids for electro pneumatically operated valves
- Pneumatic valves – Series 3 & 4
- Mechanically operated mini valves – Series 2
- Mechanically and manually operated valves
- Manually operated valves
- Automatic valves



DESCRIPTION

The Series A solenoid valves are of the directly operated type & can be used with dry or lubricated air. They are available in the 2/2 & 3/2-way versions with normally closed or normally open operations.

Symbol key
Fit together

See page 397



2530

STANDARD SOLENOID VALVES 300 BODY TYPE

PART NUMBER	FUNCTION	PORT SIZE	ORIFICE SIZE
ZA321-0C2	2-Way NC	M5	1.5 mm
ZA321-1C2	2-Way NC	1/8"	1.5 mm
ZA321-1D2	2-Way NC	1/8"	2.0 mm
ZA321-1E2	2-Way NC	1/8"	2.5 mm
ZA322-0C2	2-Way NO	M5	1.8 mm
ZA322-1C2	2-Way NO	1/8"	1.8 mm
ZA331-0C2	3-Way NC	M5	1.5 mm
ZA331-1C2	3-Way NC	1/8"	1.5 mm
ZA332-0C2	3-Way NO	M5	1.5 mm
ZA332-1C2	3-Way NO	1/8"	1.5 mm



2530

SOLENOID VALVES FOR MANIFOLD ASSEMBLY SINGLE MANIFOLD BODY TYPE

PART NUMBER	FUNCTION	PORT SIZE	ORIFICE SIZE
ZAA31-0C2	3-Way NC	M5	1.5 mm
ZAA31-CC2	3-Way NC	ø4 mm	1.5 mm



2530

STANDARD SOLENOID VALVE 400 BODY TYPE

PART NUMBER	FUNCTION	PORT SIZE	ORIFICE SIZE
ZA431-1C2	3-Way NC	1/8"	1.5 mm



2530

STANDARD SOLENOID VALVE 300 BODY TYPE

PART NUMBER	FUNCTION	INLET	OUTLET
ZA331-3C2	3-Way NC	M5	1/8"

SPECIFICATIONS

Type of construction	Poppet type
Valve group	2/2, 3/2-way position. Normally Closed (NC) or Normally Open (NO)
Materials	OT58 brass body (nickel plated), other parts: stainless steel, NBR seals
Mounting	M4 screws
Ports	M5, 1/8", cartridge ø4 mm
Operating temperature	0°C to 60°C (with dry air -20°C)
Operating pressure	0.9 to 15 bar
Nominal pressure	6 bar



2530

STANDARD SOLENOID VALVE WITH MANUAL OVERRIDE 300 BODY TYPE

PART NUMBER	FUNCTION	INLET	OUTLET
ZA331-4C2	3-Way NC	M5	1/8"



2530

STANDARD SOLENOID VALVE 600 BODY TYPE

PART NUMBER	FUNCTION	O-RING	ORIFICE SIZE
ZA631-AC2	3-Way NC	Rotatable	1.5 mm



2530

STANDARD SOLENOID VALVE 500 BODY TYPE

PART NUMBER	FUNCTION	O-RING	ORIFICE SIZE
ZA531-BC2	3-Way NC	Fixed	1.5 mm



2530

STANDARD SOLENOID VALVE 100 BODY TYPE

PART NUMBER	FUNCTION	O-RING	ORIFICE SIZE
ZA131-AC2	3-Way NC	Rotatable	1.5 mm

Do you also need?



Coils & plugs

Find it on pages
395 – 397, section six

DESCRIPTION

The 1/8" Series 3 solenoid valves have been designed as 3/2 & 5/2 ways. The main advantages of these solenoid valves is their small overall dimensions, which make them particularly suitable for small spaces.

SPECIFICATIONS

Type of construction	Spool (pilot operated)
Valve group	3/2 Normally Closed (NC) or Normally Open (NO) 5/2 & 5/3-way port / position
Materials	Aluminium body, stainless steel spool, NBR seals
Mounting	Through holes in valve body
Ports	1/8", 1/4", 1/2"
Operating temperature	0°C to 60°C (with dry air -20°C)
Operating pressure	10 bar maximum
Nominal pressure	6 bar
Minimum pilot pressure	2 bar
Nominal flow	1/8" = 500 NI/min
Class of insulation	Class H
Protection class	IP54 DIN 40050 (IP65 with DIN 43650/PG9 connector)
015 Actuation	Single solenoid, spring return (horizontal solenoids)
016 Actuation	Single solenoid, pneumatic spring return (horizontal solenoids)



SERIES 3

3/2 SOL / SPRING



2530

PART NUMBER	FUNCTION	PORT SIZE
Z338-015-02	3/2 NC	1/8"
Z348-015-02	3/2 NO	1/8"

5/2 SOL / SPRING

Z358-015-02	5/2	1/8"
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SERIES 3

3/2 SOL / SOL



2530

PART NUMBER	FUNCTION	PORT SIZE
Z338-011-02	3/2	1/8"

5/2 SOL / SOL

Z358-011-02	5/2	1/8"
-------------	-----	------

5/3 SOL / SOL

Z368-011-02	5/3 CC	1/8"
Z378-011-02	5/3 CO	1/8"
Z388-011-02	5/3 C pressure	1/8"



SERIES 3

5/2 SOL / SPRING

EXTERNAL PILOT



2530

PART NUMBER	FUNCTION	PORT SIZE
Z358-E15-02	5/2	1/8"



SERIES 3

5/2 SOL / SOL

EXTERNAL PILOT COMMAND



2530

PART NUMBER	FUNCTION	PORT SIZE
Z358-E11-02	5/2	1/8"

5/3 SOL / SOL

Z368-E11-02	5/3 CC	1/8"
Z378-E11-02	5/3 CO	1/8"
Z388-E11-02	5/3 C pressure	1/8"



SERIES 3

3/2 SOL / SPRING

CAN BE MOUNTED ON MANIFOLD



2530

PART NUMBER	FUNCTION	PORT SIZE
Z338L-015-2	3/2 NC	1/8"
Z348L-015-2	3/2 NO	1/8"



SERIES 3

3/2 SOL / SOL

CAN BE MOUNTED ON MANIFOLD



2530

PART NUMBER	FUNCTION	PORT SIZE
Z338L-011-2	3/2	1/8"

Do you also need?



Coils & plugs

Find it on pages
395 – 397, section six

DESCRIPTION

The Series 4 solenoid valves are a balanced spool type, and are available with various methods of activation.

SPECIFICATIONS

Type of construction	Spool (pilot operated)
Valve group	3/2 Normally Closed (NC) or Normally Open (NO) 5/2 & 5/3-way port / position
Materials	Aluminium body, stainless steel spool, NBR seals
Mounting	Through holes in valve body
Ports	1/8", 1/4", 1/2"
Operating temperature	0°C to 60°C (with dry air -20°C)
Operating pressure	10 bar maximum
Nominal pressure	6 bar
Minimum pilot pressure	2 bar
Nominal flow	1/8" = 650 Nl/min, 1/4" = 1250 Nl/min, 1/2" = 1800 Nl/min
Class of insulation	Class H
Protection class	IP54 DIN 40050 (IP65 with DIN 43650/PG9 connector)
015 Actuation	Single solenoid, spring return (horizontal solenoids)
016 Actuation	Single solenoid, pneumatic spring return (horizontal solenoids)



SERIES 4

3/2 SOL / SPRING



2530

PART NUMBER	FUNCTION	PORT SIZE
Z438-015-22	3/2 NC	1/8"
Z434-015-22	3/2 NC	1/4"

5/2 SOL / SPRING

Z458-015-22	5/2	1/8"
Z454-015-22	5/2	1/4"
Z452-015-50	5/2	1/2"
Z452-016-50	5/2	1/2"



SERIES 4

3/2 SOL / SOL



2530

PART NUMBER	FUNCTION	PORT SIZE
Z438-011-22	3/2	1/8"
Z434-011-22	3/2	1/4"

5/2 SOL / SOL

Z458-011-22	5/2	1/8"
Z454-011-22	5/2	1/4"
Z452-011-50	5/2	1/2"

5/3 SOL / SOL

Z468-011-22	5/3 CC	1/8"
Z464-011-22	5/3 CC	1/4"
Z474-011-22	5/3 CO	1/4"



SERIES 4

5/2 SOL / SPRING

VERTICAL SOLENOID



2530

PART NUMBER	FUNCTION	PORT SIZE
Z454-V15-22	5/2	1/4"
Z454-V16-22	5/2	1/4"



SERIES 4

5/2 SOL / SOL

VERTICAL SOLENOID



2530

PART NUMBER	FUNCTION	PORT SIZE
Z454-V11-22	5/2	1/4"

Do you also need?



Coils & plugs

Find it on pages
395 – 397, section six

DESCRIPTION

ISO 5599/1 STANDARDS

The Series 9 electropneumatically or pneumatically operated valves have been manufactured in sizes 1, 2 & 3, as recommended by ISO Standards. They are constructed to be actuated in different ways:

- Electrical actuation spring return
- Electrical actuation & pneumatic spring return
- Electrical actuation & return
- Pneumatic actuation & spring return
- Pneumatic actuation & differential pneumatic return
- Pneumatic actuation & return

For coils & plugs see pages 395 – 397



SOL / SPRING 5/2



2530

PART NUMBER	FUNCTION	ISO
Z951-P15-23	5/2	1
Z952-P15-23	5/2	2
Z953-P15-23	5/2	3



SOL / SOL 5/2



2530

PART NUMBER	FUNCTION	ISO
Z951-P11-23	5/2	1
Z952-P11-23	5/2	2
Z953-P11-23	5/2	3

5/3

Z961-P11-23	5/3 CC	1
Z971-P11-23	5/3 CO	1
Z962-P11-23	5/3 CC	2
Z972-P11-23	5/3 CO	2
Z963-P11-23	5/3 CC	3
Z973-P11-23	5/3 CO	3

PNEU / SPRING 5/2



2530

PART NUMBER	FUNCTION	ISO
Z951-000-35	5/2	1
Z952-000-35	5/2	2
Z953-000-35	5/2	3

PNEU / DIFF PNEU 5/2



2530

PART NUMBER	FUNCTION	ISO
Z951-000-34	5/2	1
Z952-000-34	5/2	2
Z953-000-34	5/2	3

PNEU / PNEU 5/2



2530

PART NUMBER	FUNCTION	ISO
Z951-000-33	5/2	1
Z952-000-33	5/2	2
Z953-000-33	5/2	3

5/3

Z961-000-33	5/3 CC	1
Z971-000-33	5/3 CO	1
Z962-000-33	5/3 CC	2
Z972-000-33	5/3 CO	2
Z963-000-33	5/3 CC	3
Z973-000-33	5/3 CO	3

SPECIFICATIONS

Type of construction	Spool (servo controlled)
Valve group	5/2 & 5/3-way port / position Centre Closed (CC) or Centre Open (CO)
Materials	Aluminium body, stainless steel spool, NBR seals
Mounting	Threaded holes in sub-base
Sub-base sizes	1 = 1/4", 2 = 3/8" & 3 = 1/2"
Operating temperature	0°C to 60°C (with dry air -20°C)
Operating pressure	10 bar maximum
Nominal pressure	6 bar
Nominal flow	Size 1: 900 Nl/min, Size 2: 1610 Nl/min Size 3: 3700 Nl/min
Class of insulation	Class H
Protection class	IP54 DIN 40050 (IP65 with DIN 43650/PG9 connector)

SINGLE SUB-BASE WITH SIDE OUTLETS



2530

PART NUMBER	INLET / EXHAUST	SIZE
Z901-F1A	1/4"	ISO 1
Z902-F2A	3/8"	ISO 2
Z903-F3A	1/2"	ISO 3

SINGLE SUB-BASE WITH REAR OUTLETS



2530

PART NUMBER	INLET / EXHAUST	SIZE
Z901-G1A	1/4"	ISO 1
Z902-G2A	3/8"	ISO 2
Z903-G3A	1/2"	ISO 3

MANIFOLD SUB-BASE WITH COMMON EXHAUST & INLET



2530

PART NUMBER	INLET / EXHAUST	SIZE
Z901-C1A	1/4"	ISO 1
Z902-C2A	3/8"	ISO 2
Z903-C3A	1/2"	ISO 3

END BLOCK FOR MANIFOLD SUB-BASE



2530

PART NUMBER	INLET / EXHAUST	SIZE
Z901-H1	1/4"	ISO 1
Z902-H2	3/8"	ISO 2
Z903-H3	1/2"	ISO 3

END BLOCK WITH FRONT OUTLET



2530

PART NUMBER	INLET / EXHAUST	SIZE
Z901-N1	1/4"	ISO 1
Z902-N2	3/8"	ISO 2
Z903-N3	1/2"	ISO 3

MANIFOLD SUB-BASE WITH COMMON EXHAUST & INLET



2530

PART NUMBER	INLET / EXHAUST	SIZE
Z901-N1A	1/4"	ISO 1

END BLOCK FOR MANIFOLD BASES



2530

PART NUMBER	INLET / EXHAUST	SIZE
Z901-HN1	1/4"	ISO 1

SOLENOID MOD. U7... / U7*EX & MOD. G7...

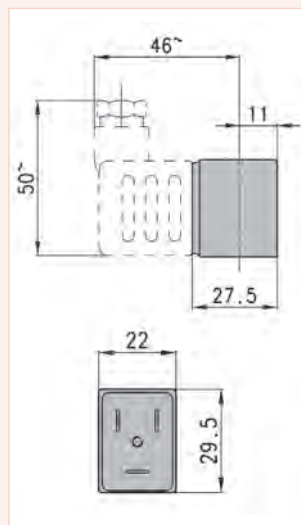
DESCRIPTION

The dimensions, as well as the power consumption of these solenoids, differ, so that the best possible choice can be made depending on the type of electronic or electromechanical operating system used.

SPECIFICATIONS

Connections	Bipolar plus earth DIN 43650 (vers. B) Mod. U7*EX marked II 3 GD Eex nA T4
Solenoid material	U7* = PET - G7* = PA

Mod.	Solenoid Voltage (1)	Power Absorption (1)	Solenoid Voltage (2)	Power Absorption (2)	Solenoid Voltage (3)	Power Absorption (3)
U7H	12 V DC	3.1 W	24 V – 50/60 Hz	3.5 VA		
G7H	12 V DC	3.1 W	24 V – 50/60 Hz	3.5 VA		
U7K	110 V – 50/60 Hz	3.8 VA	125 V – 50/60 Hz	5.5 VA	72 V DC	4.8 W
U7K1	110 V – 50/60 Hz	5.8 VA	125 V – 50/60 Hz	8.3 VA	72 V DC	5.6 W
G7K	110 V – 50/60 Hz	3.8 VA	125 V – 50/60 Hz	5.5 VA	72 V DC	4.8 W
G7K1	110 V – 50/60 Hz	5.8 VA	125 V – 50/60 Hz	8.3 VA	72 V DC	5.6 W
U7J	230 V – 50/60 Hz	3.5 VA	240 V – 50/60 Hz	4 VA		
G7J	230 V – 50/60 Hz	3.5 VA	240 V – 50/60 Hz	4 VA		
U79	48 V DC	3.1 W				
G79	48 V DC	3.1 W				
U710	110 V DC	3.2 W				
G710	110 V DC	3.2 W				
U77	24 V DC	3.1 W	48 V – 50/60 Hz	3.8 VA		
U771	24 V DC	3.1 W	48 V – 50/60 Hz	3.8 VA		
G77	24 V DC	3.1 W	48 V – 50/60 Hz	3.8 VA		
G771	24 V DC	3.1 W	48 V – 50/60 Hz	3.8 VA		
U7F	380 V – 50/60 Hz	7 VA				
U72	12 V DC	5 W				
G72	12 V DC	5 W				
U73	24 V DC	5 W				
G73	24 V DC	5 W				



SOLENOIDS STANDARD DIN PLUG 18 MM FORM A



PART NUMBER	VOLTAGE		
ZA8B24	24 V	50/60 Hz	5 VA
ZA8D110	110 V	50/60 Hz	5 VA
ZA8E220	220 V	50/60 Hz	5 VA
ZA8324	24 V	DC	4 W

SOLENOIDS LATCHING COIL STANDARD PLUG



PART NUMBER	VOLTAGE	
ZG9324	24 V	DC

SOLENOIDS – PET STANDARD DIN PLUG 11 MM



PART NUMBER	VOLTAGE		
ZU7H	12 V	DC	3.1 W
ZU7K	110 V	AC 50/60 Hz	3.8 VA
ZU7J	240 V	AC 50/60 Hz	4 VA
ZU79	48 V	DC	3.1 W
ZU77	48 V	50/60 Hz	3.5 VA
ZU72	12 V	DC	5 W
ZU73	24 V	DC	5 W
ZU74	48 V	DC	5 W
ZU76	110 V	DC	5 W

SOLENOIDS PRE-WIRED EXPLOSION PROOF



PART NUMBER	VOLTAGE		
ZH8D110	110 V	50/60 Hz	5 VA
ZH8E220	220 V	50/60 Hz	5 VA
ZH8324	24 V	DC	4 W

Size 10.2 mm

SOLENOIDS – NYLON STANDARD DIN PLUG 11 MM



PART NUMBER	VOLTAGE		
ZG7H	12 V	DC	3.1 W
ZG7K	110 V	AC 50/60 Hz	3.8 VA
ZG7J	240 V	50/60 Hz	4 VA
ZG72	12 V	DC	5 W
ZG73	24 V	DC	5 W
ZG77	48 V	50/60 Hz	3.5 VA

Please note:
DIN Plugs are
NOT included
with solenoid

Note: to order the ATEX version, add EX at the end of the code.

Mod. U7K1, G7K1, U771 & G771 are to be used only with solenoid valves Series A, NO in line.

DESCRIPTION

The range of Solenoid DIN Connectors, with cable gland entry, offers flexibility & is suitable for a wide variety of applications.

SPECIFICATIONS

Insulation group	VDE 0110 1/89 – Class C
Materials	Polyamide (glass fibre reinforced) connectors. NBR standard (form A & B) profile gasket. NBR standard (form C) flat gasket. M3 x 32 mm (form A & B), M3 x 28 mm (industrial form C), M2.5 x 28 mm (form C) screws
Voltage	Up to 250 V AC or DC unless otherwise stated
Current	10A (nominal) 16A (max) – Form A & B 6A (nominal) 10A (max) – Form C
Temperature range	-40°C to +90°C
Cable gland size	PG7 cable diameter 4 – 6 mm PG9 cable diameter 6 – 8 mm



2530

INDUSTRIAL FORM B 11 MM PIN SPACING

PART NUMBER	TYPE (LED VOLTAGE AC/DC)	CABLE ENTRY
ZKB2000B9	Black	PG9
ZKB2V54T9	Transparent (24 V LED)	PG9
ZKB2V55T9	Transparent (115 V LED)	PG9
ZKB2V56T9	Transparent (230 V LED)	PG9

For use with Series A, Series 3 & 4, & ISO valves



2530

SOLENOID CONNECTORS

PART NUMBER	DESCRIPTION
Z121-803	With 300 mm cable
Z121-806	With 600 mm cable
Z121-810	With 1000 mm cable

For use with Series K & Series E valves (size 10.5 mm)



2530

FORM A 18 MM PIN SPACING

PART NUMBER	TYPE (VOLTAGE AC/DC)	CABLE ENTRY
ZKA132000B9	Black	PG9
ZKA2000A9	Grey	PG9

For use with Series 4 valves - 1/2, Series 6 & A80 coils

Do you also need?



Solenoid Valves & Coils



Find it on pages 390 – 395, section six

DESCRIPTION

The range of Solenoid DIN moulded cable connectors offers a fast & efficient method of connection, resulting in reduced installation time & cost.

SPECIFICATIONS

Insulation group	VDE 0110 1/89 – Class C
Materials	TPU connectors. PVC standard cable. Integrated TPU gasket. M3 x 28 mm (form A & B), M3 x 23 mm (industrial form C), M2.5 x 23 mm (form C) screws
Voltage	Up to 250 V AC or DC unless otherwise stated
Current	5A – Form A & B 3A – Form C
Temperature range	-40°C to +90°C
Standard cable: Form A & B Form C	3 x 0.75 mm ² conductors PVC H05 VVF 3 x 0.50 mm ² conductors PVC H03 VVF



FORM A 18 MM PIN SPACING DOUBLE EARTH



2530

PART NUMBER	TYPE (LED VOLTAGE AC/DC)	CABLE LENGTH
ZMA11000530	Cable connector only	3 m
ZMA61V54530	Cable connector (24 V LED)	3 m

For use with Series 4 valves – 1/2, Series 6 & A80 coils



FORM B 11 MM PIN SPACING 12 O'CLOCK EARTH



2530

PART NUMBER	TYPE (LED VOLTAGE AC/DC)	CABLE LENGTH
ZMB15000530	Cable connector only	3 m
ZMB65V54530	Cable connector (24 V LED)	3 m
ZMB65V55530	Cable connector (115 V LED)	3 m
ZMB65V56530	Cable connector (230 V LED)	3 m

For use with Series A, Series 3 & 4, & ISO valves



INDUSTRIAL FORM B 11 MM PIN SPACING 6 O'CLOCK EARTH



2530

PART NUMBER	TYPE (LED VOLTAGE AC/DC)	CABLE LENGTH
ZMB63V55530	Cable connector (115 V LED)	3 m

For use with Series A, Series 3 & 4, & ISO valves



INDUSTRIAL FORM C 9.4 MM PIN SPACING DOUBLE EARTH



2530

PART NUMBER	TYPE (LED VOLTAGE AC/DC)	CABLE LENGTH
ZMD14000130	Cable connector only	3 m

For use with Series EN & Series P valves

Symbol key
Fit together



DESCRIPTION

The pneumatically operated Series 3 & Series 4 valves have been designed with three different methods of return. A pneumatic signal, mechanical spring or differential pneumatic return. This is due to the type of design consisting of a balanced spool, which means that it can be used for a wide range of applications.

SPECIFICATIONS

Type of construction	Spool (servo controlled)
Valve group	3/2, 5/2 & 5/3-way position Centre Closed (CC) or Centre Open (CO)
Materials	Aluminium body, stainless steel spool, NBR seals
Mounting	Through holes in valve body
Ports	1/8", 1/4", 1/2"
Operating temperature	0°C to 60°C (with dry air -20°C)
Operating pressure	10 bar maximum
Nominal pressure	6 bar
Minimum pilot pressure	2.5 bar
Nominal flow	Series 3: 1/8" = 750 NI/min Series 4: 1/8" = 650 NI/min 1/4" = 1250 NI/min, 1/2" = 1900 NI/min
Nominal diameter	1/8" = 5 mm, 1/4" = 7.5 mm, 1/2" = 12 mm



2530



2530

PNEUMATIC / SPRING

3/2

PART NUMBER	FUNCTION	PORT SIZE
Z338-035	3/2	1/8"
Z338L-035	3/2	1/8"
Z438-035	3/2	1/8"
Z434-035	3/2	1/4"

L – Can be mounted on manifolds

5/2

Z358-035	5/2	1/8"
Z458-035	5/2	1/8"
Z454-035	5/2	1/4"
Z452-035	5/2	1/2"

PNEUMATIC / PNEUMATIC

3/2

PART NUMBER	FUNCTION	PORT SIZE
Z338-033	3/2	1/8"
Z338L-033	3/2	1/8"
Z438-033	3/2	1/8"
Z434-033	3/2	1/4"

L – Can be mounted on manifolds

5/2

Z358-033	5/2	1/8"
Z458-033	5/2	1/8"
Z454-033	5/2	1/4"
Z452-033	5/2	1/2"

5/3

Z468-033	5/3 CC	1/8"
Z464-033	5/3 CC	1/4"
Z474-033	5/3 CO	1/4"

PNEUMATIC / PNEUMATIC DIFFERENTIAL

3/2

PART NUMBER	FUNCTION	PORT SIZE
Z438-034	3/2	1/8"
Z434-034	3/2	1/4"

5/2

Z458-034	5/2	1/8"
Z454-034	5/2	1/4"
Z452-034	5/2	1/2"



2530

Do you also need?



Super rapid push-in fittings



Find it on pages 525 – 527, section eight

SPECIFICATIONS

Media	Filtered compressed air without lubricant. If lubricated air is used, it is recommended that ISO VG32 oil is used. Once applied, the lubrication should never be interrupted.
Materials	Aluminium valve body, NBR seals, OT58 brass poppet & plunger, stainless steel spools



2530

PLUNGER 3/2

PART NUMBER	FUNCTION	PORT SIZE
Z235-945	3/2	M5
Z234-945	3/2	4 mm



2530

ROLLER LEVER 3/2

PART NUMBER	FUNCTION	PORT SIZE
Z235-955	3/2	M5
Z234-955	3/2	4 mm

SPECIFICATIONS

Operating temperature	0°C to 60°C
Operating pressure	2 to 10 bar
Connections	4 mm, M5
Mounting	Through holes in valve body



2530

PANEL MOUNTED PLUNGER 3/2

PART NUMBER	FUNCTION	PORT SIZE
Z235-985	3/2	M5
Z234-985	3/2	4 mm



2530

ONE WAY TRIP 3/2

PART NUMBER	FUNCTION	PORT SIZE
Z235-965	3/2	M5
Z234-965	3/2	4 mm

MECHANICALLY OPERATED VALVES – SERIES 1 & 3

SPECIFICATIONS

Media	Filtered compressed air without lubricant. If lubricated air is used, it is recommended that ISO VG32 oil is used. Once applied, the lubrication should never be interrupted.
Materials	Aluminium valve body, NBR seals, OT58 brass poppet & plunger, stainless steel spools



2530

PLUNGER 3/2

PART NUMBER	FUNCTION	PORT SIZE
Z338-945	3/2	1/8"
Z138-945	3/2 NC	1/8"
Z148-945	3/2 NO	1/8"
Z134-945	3/2	1/4"

5/2

Z358-945	5/2	1/8"
Z158-945	5/2	1/8"
Z154-945	5/2	1/4"



2530

ROLLER LEVER ONE WAY TRIP 3/2

PART NUMBER	FUNCTION	PORT SIZE
Z338-965	3/2	1/8"
Z138-965	3/2	1/8"

5/2

Z358-965	5/2	1/8"
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SPECIFICATIONS

Operating temperature	0°C to 60°C
Operating pressure	0 to 10 bar
Connections	1/8", 1/4"
Mounting	Through holes in valve body



2530

ROLLER LEVER 3/2

PART NUMBER	FUNCTION	PORT SIZE
Z338-955	3/2	1/8"
Z138-955	3/2	1/8"
Z134-955	3/2	1/4"

5/2

Z358-955	5/2	1/8"
Z158-955	5/2	1/8"
Z154-955	5/2	1/4"

MECHANICALLY OPERATED SENSOR VALVES SERIES 3 & 4

SPECIFICATIONS

Media	Filtered compressed air without lubricant. If lubricated air is used, it is recommended that ISO VG32 oil is used. Once applied, the lubrication should never be interrupted.
Materials	Aluminium valve body, NBR seals, OT58 brass poppet & plunger, stainless steel spools
Valve group	3/2, 5/2-way position. Normally Closed (NC) or Normally Open (NO)
Operating temperature	0°C to 60°C
Connections	1/8", 1/4"
Mounting	By through-holes in valve body



2530

LEVER

3/2

PART NUMBER	FUNCTION	PORT SIZE
Z338-D159A5	3/2 NC	1/8"

5/2

Z358-D159A5	5/2	1/8"
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MANUALLY OPERATED VALVES

DESCRIPTION

The manually operated, panel mounted valves, dia 22, have been designed to satisfy all the application requirements of the controls industry i.e. low actuating force 6N, short operational stroke & speed / accuracy of signal.

SPECIFICATIONS

Type of construction	Poppet (closed centres)
Valve group	3/2, 5/3-way position. Normally Closed (NC)
Materials	Aluminium body, OT58 brass plunger, NBR seals
Mounting	Panel
Ports	M5 or cartridge diameter 4
Operating temperature	0°C to 60°C (with dry air -20°C)
Operating pressure	2 to 8 bar
Nominal pressure	6 bar
Nominal flow	60 NI/min
Nominal diameter	2.5 mm



2530

PUSH BUTTON

3/2

PART NUMBER	FUNCTION	PORT SIZE
Z235-895	3/2 NC	M5
Z234-895	3/2 NC	4 mm tube



2530

KEY LOCKABLE

3/2

PART NUMBER	FUNCTION	PORT SIZE
Z235-904	3/2 NC	M5
Z234-904	3/2 NC	4 mm tube



2530

SELECTOR SWITCH

3/2 – 2-POSITION

PART NUMBER	FUNCTION	PORT SIZE
Z235-990	3/2 NC	M5
Z234-990	3/2 NC	4 mm tube



2530

SELECTOR SWITCH

5/3 – 3-POSITION

PART NUMBER	FUNCTION	PORT SIZE
Z285-870	5/3	M5
Z284-870	5/3	4 mm tube

PALM SWITCH SPRING RETURN 3/2



2530

PART NUMBER	FUNCTION	PORT SIZE
Z235-975	3/2 NC	M5
Z234-975	3/2 NC	4 mm tube

VALVE FOR USE WITH OPERATORS 3/2



2530

PART NUMBER	FUNCTION	PORT SIZE
Z235-000	3/2 NC	M5
Z234-000	3/2 NC	4 mm tube
Z245-000	3/2 NO	M5
Z244-000	3/2 NO	4 mm tube

PALM SWITCH LATCHING – TWIST TO RELEASE 3/2



2530

PART NUMBER	FUNCTION	PORT SIZE
Z235-972	3/2 NC	M5
Z234-972	3/2 NC	4 mm tube

SINGLE BRACKET



2530

PART NUMBER	DESCRIPTION
Z210-000	Single

PALM SWITCH STABLE 3/2



2530

PART NUMBER	FUNCTION	PORT SIZE
Z234-900	3/2 NC	4 mm tube

DOUBLE BRACKET



2530

PART NUMBER	DESCRIPTION
Z220-000	Double

JOYSTICK 3/2



2530

PART NUMBER	FUNCTION	PORT SIZE
Z235-905	3/2 NC	M5
Z234-905	3/2 NC	4 mm tube

DESCRIPTION

The Series 3 manual valves (1/8", 3/2 & 5/2-way) & the Series 4 manual valves (1/4", 3/2, 5/2 & 5/3-way) are available with actuators designed to satisfy different needs. The 3/2-way valves are normally closed when P is the inlet; they can also be normally open when R is the inlet.



2530

SWITCH

3/2

PART NUMBER	FUNCTION	PORT SIZE
Z338-990	3/2 NC	1/8"

5/2

Z358-990	5/2	1/8"
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2530

PUSH BUTTON

3/2

PART NUMBER	FUNCTION	PORT SIZE	COLOUR
Z338-895	3/2 NC	1/8"	Black
Z338-896	3/2 NC	1/8"	Green
Z338-897	3/2 NC	1/8"	Red

5/2

Z358-895	5/2	1/8"	Black
Z358-896	5/2	1/8"	Green
Z358-897	5/2	1/8"	Red



2530

PALM SWITCH

3/2

PART NUMBER	FUNCTION	PORT SIZE	COLOUR
Z338-975	3/2 NC	1/8"	Black
Z338-976	3/2 NC	1/8"	Green
Z338-977	3/2 NC	1/8"	Red

5/2

Z358-975	5/2	1/8"	Black
Z358-976	5/2	1/8"	Green
Z358-977	5/2	1/8"	Red

SPECIFICATIONS

Type of construction	Spool type
Valve function	3/2, 5/2, 5/3-way position. Normally Closed (NC), Centre Closed (CC) or Centre Open (CO)
Materials	Aluminium body, stainless steel spool, NBR seals
Mounting	Through holes in valve body
Threaded ports	1/8", 1/4"
Operating temperature	0°C to 60°C (with dry air -20°C)
Operating pressure	0 to 10 bar
Nominal pressure	6 bar
Nominal flow	Series 3: 1/8" = 500 NI/min Series 4: 1/8" = 650 NI/min 1/4" = 1250 NI/min
Nominal diameter	1/8" = 5 mm 1/4" = 7.5 mm



2530

PUSH / PULL

3/2

PART NUMBER	FUNCTION	PORT SIZE
Z338-910	3/2 NC	1/8"
Z434-910	3/2 NC	1/4"

5/2

Z358-910	5/2	1/8"
Z454-910	5/2	1/4"



2530

PUSH & SPRING RETURN

3/2

PART NUMBER	FUNCTION	PORT SIZE
Z338-915	3/2 NC	1/8"
Z434-915	3/2 NC	1/4"

5/2

Z358-915	5/2	1/8"
Z454-915	5/2	1/4"



2530

LEVER 3/2

PART NUMBER	FUNCTION	PORT SIZE
Z138-900	3/2 NC	1/8"
Z134-900	3/2 NC	1/4"

5/2

Z158-900	5/2	1/8"
Z154-900	5/2	1/4"



2530

LEVER 3/2

PART NUMBER	FUNCTION	PORT SIZE
Z138-935	3/2 NC	1/8"
Z134-935	3/2 NC	1/4"



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LEVER 3/2

PART NUMBER	FUNCTION	LEVER/SPRING	PORT SIZE
Z338-900	3/2 NC	L/L	1/8"
Z338-905	3/2 NC	L/S	1/8"
Z434-900	3/2 NC	L/L	1/4"
Z434-905	3/2 NC	L/S	1/4"

5/2

Z358-900	5/2	L/L	1/8"
Z358-905	5/2	L/S	1/8"
Z454-900	5/2	L/L	1/4"
Z454-905	5/2	L/S	1/4"

5/3

Z368-900	5/3 CC	L/L/L	1/8"
Z368-905	5/3 CC	L/S/L	1/8"
Z378-900	5/3 CO	L/L/L	1/8"
Z378-905	5/3 CO	L/S/L	1/8"
Z464-900	5/3 CC	L/L/L	1/4"
Z464-905	5/3 CC	L/S/L	1/4"
Z474-900	5/3 CO	L/L/L	1/4"
Z474-905	5/3 CO	L/S/L	1/4"

FOOT OPERATED PEDAL VALVES

DESCRIPTION

The pedals can be supplied in either the pneumatic or electrical foot operated version. The pneumatic type is available with a 5/2 valve & 1/4" front ports, which allow the fittings & silencers to be assembled conveniently on the front face. A 3/2 operation can be obtained by closing an outlet port. The electrical type is available with a single pole changeover contact microswitch & a front wire outlet (PG9). The pedal can be operated as bi-stable or monostable, by switching the selector placed under the small red protection flap.

SPECIFICATIONS – PNEUMATICALLY OPERATED

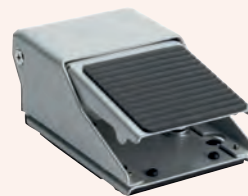
Type of construction	Spool type
Valve function	3/2 & 5/2
Materials	Valve body AL, stainless steel spool, NBR seals, plastic casing
Assembly	Valve built into pedal body
Operating temperature	0°C to 50°C (with dry air -10°C)
Operating pressure	2.5 to 8 bar
Rated flow	650 Nl/min
Ports	1/4" gas



2530

PNEUMATICALLY OPERATED FOOT VALVE

PART NUMBER	FUNCTION
Z354925	5/2



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FOOT OPERATED VALVE

PART NUMBER	FUNCTION	PORT SIZE
Z235-925	3/2 NC	M5
Z234-925	3/2 NC	4 mm tube

CIRCUIT SELECTOR

DESCRIPTION

The circuit selector, Mod. SCS-668-06, enables two signals coming alternately from two different points to be channelled towards the same point. The selector is mounted through holes in the body.



2530

SHUTTLE VALVE ZSCS SERIES

PART NUMBER	PORT SIZE
ZSCS668-06	1/8"

SPECIFICATIONS

Type of construction	Poppet type
Valve group	Automatic
Materials	AL body, OT58 bush, NBR seals, delrin poppet
Pressure	0.2 to 10 bar
Operating temperature	0°C to 80°C (with dry air -20°C)
Nominal flow	800 NI/min
Fluid	Filtered air: without lubrication. If lubricated air is used, it is recommended that ISO VG32 oil is used. Once applied, the lubrication should never be interrupted

UNIDIRECTIONAL NON RETURN VALVES

DESCRIPTION

The unidirectional valves in the VNR Series are available with M5, G1/8 & G1/4 ports. These poppet type valves allow operation at low pressures, both when there is a free flow & during retention.



2530

NON RETURN VALVES ZVNR SERIES

PART NUMBER	PORT SIZE
ZVNR-205-M5	M5
ZVNR210-1/8	1/8"
ZVNR84307	1/4"

SPECIFICATIONS

Type of construction	Poppet type
Valve group	Automatic
Materials	OT58 body, NBR seals, stainless steel spring
Pressure	M5 = 1 bar, 1/8" = 0.2 bar, 1/4" = 0.2 bar
Operating temperature	0°C to 80°C (with dry air -20°C)
Nominal flow	M5 = 50 NI/min, 1/8" = 600 NI/min, 1/4" = 1400 NI/min
Fluid	Filtered air: without lubrication. If lubricated air is used, it is recommended that ISO VG32 oil is used. Once applied, the lubrication should never be interrupted

QUICK EXHAUST VALVES

DESCRIPTION

Quick exhaust valves are commonly used to increase the speed of cylinders or for rapid depressurisation of tanks containing compressed air. The models VSO 425 - M5 & VSO 426 - 04 are specially designed for mounting on solenoid valves & valves incorporating a Ø4 cartridge. We recommend mounting a silencer on the outlet.



2530

QUICK EXHAUST VALVES ZVSC SERIES

PART NUMBER	PORT SIZE
ZVSC588	1/8"
ZVSC544	1/4"
ZVSC522	1/2"

SPECIFICATIONS

Type of construction	Poppet type
Valve group	Automatic
Materials	OT58 (brass) body. NBR seals ZVSO series. Desmopan seals ZVS series
Pressure	ZVS 1/8" 0.5 bar ZVS 1/4" 0.3 bar ZVS 1/2" 0.2 bar ZVSO 1 bar
Operating temperature	0°C to 80°C (with dry air -20°C)
Nominal flow	ZVS 1/8" P to A 530 NI/min, A to R 940 NI/min ZVS 1/4" P to A 860 NI/min, A to R 1600 NI/min ZVS 1/2" P to A 4700 NI/min, A to R 6250 NI/min ZVSO P to A = 50 NI/min, A to R 330 NI/min
Fluid	Filtered air: without lubrication. If lubricated air is used, it is recommended that ISO VG32 oil is used. Once applied the lubrication should never be interrupted

QUICK EXHAUST VALVES ZVSO SERIES

PART NUMBER	SIZE
ZVSO425-M5	M5



2530

QUICK EXHAUST VALVES ZVSO SERIES

PART NUMBER	CARTRIDGE
ZVSO426-04	Ø4 mm



2530

AUTOMATIC VALVES – FLOW CONTROL

DESCRIPTION

These unidirectional flow controllers are equipped with M5, 1/8" & 1/4" ports. They are mainly used for controlling the speed of cylinders & may be mounted on control panels or cylinders, as required. The 1/8" & 1/4" port versions are available with two different types of adjustments too.

SPECIFICATIONS

Type of construction	Needle type
Valve group	Uni & bidirectional controller
Materials	Aluminium body, brass needle, NBR seals
Mounting	Through holes in valve body / control panel
Ports	M5, 1/8", 1/4"
Operating temperature	0°C to 80°C (with dry air -20°C)
Nominal pressure	6 bar
Nominal diameter	M5 = 1.5 mm, 1/8" = 2 or 3 mm, 1/4" = 4 or 6 mm
Nominal flow	Ask for details



2530

FLOW CONTROL VALVE UNIDIRECTIONAL

PART NUMBER	PORT SIZE	ORIFICE SIZE
ZRFU-452	M5	1.5 mm
ZRFU-482	1/8"	2.0 mm
ZRFU-483	1/8"	3.0 mm
ZRFU-444	1/4"	4.0 mm
ZRFU-446	1/4"	6.0 mm
ZRFU-429	1/2"	9.0 mm

BIDIRECTIONAL

ZRFO-352	M5	1.5 mm
ZRFO-382	1/8"	2.0 mm
ZRFO-383	1/8"	3.0 mm
ZRFO-344	1/4"	4.0 mm
ZRFO-346	1/4"	6.0 mm



2530

SLIDE VALVE

PART NUMBER	PORT SIZE
ZVMS-105	M5
ZVMS-118	1/8"
ZVMS-114	1/4"
ZVMS-138	3/8"
ZVMS-112	1/2"
ZVMS-134	3/4"

AUTOMATIC VALVES – BLOCKING

DESCRIPTION

These unidirectional & bidirectional blocking valves enable direct mounting onto cylinders. The internal design of the blocking valves allows a very high flow rate & reliable operation.

SPECIFICATIONS

Type of construction	Poppet type
Valve group	Uni & bidirectional blocking valve
Materials	OT58 body, NBR seals
Mounting	Male thread
Ports	1/8", 1/4"
Operating temperature	0°C to 80°C (with dry air -20°C)
Operating pressure	VBU = 0.3 to 10 bar VBO = 0 to 10 bar
Nominal pressure	6 bar
Nominal diameter	1/8" = 5.5 mm, 1/4" = 8 mm
Nominal flow	Ask for details



2530

BLOCKING VALVES UNIDIRECTIONAL

PART NUMBER	PORT SIZE
ZVBU-1/8	1/8"
ZVBU-1/4	1/4"
ZVBU-3/8	3/8"

BIDIRECTIONAL

ZVBO-1/8	1/8"
ZVBO-1/4	1/4"
ZVBO-3/8	3/8"

Do you also need?



Cylinders & accessories



Find it on pages 354 – 360, section six

FEATURES

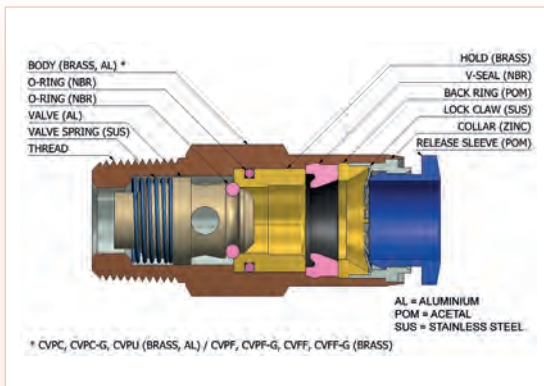
- Suitable for low pressure applications
- Allows compressed air from one side to flow & blocks the inverse flow to protect & maintain the vacuum line
- Easily applied to low pressure piping

APPLICATIONS

- Used where air should flow in only one direction
- Used where air pressure of the ventilation section should be kept uniform
- Good for low pressure devices

SPECIFICATIONS

Suitability	Air (no other type of gas or liquid) Do not use in water applications
Working pressure	0 to 150 psi (10.2 bar)
Negative pressure	-29.5 in Hg -750 mm Hg (-750 Torr)
Working temperature	0°C to +60°C (+32°F to +140°F)
Application tube	Polyurethane & nylon



TUBE TO THREAD



STRAIGHT BSPT MALE

PART NUMBER	TUBE OD	THREAD
CDCVPC0401	4 mm	1/8" BSPT
CDCVPC0601	6 mm	1/8" BSPT
CDCVPC0602	6 mm	1/4" BSPT
CDCVPC0801	8 mm	1/8" BSPT
CDCVPC0802	8 mm	1/4" BSPT
CDCVPC1003	10 mm	3/8" BSPT
CDCVPC1004	10 mm	1/2" BSPT
CDCVPC1203	12 mm	3/8" BSPT
CDCVPC1204	12 mm	1/2" BSPT



STRAIGHT METRIC MALE

PART NUMBER	TUBE OD	THREAD
CDCVPC04M5	4 mm	M5 x 0.8
CDCVPC04M6	4 mm	M6 x 1.0

BSPP MALE

CDCVPC04G1	4 mm	1/8" BSPP
CDCVPC06G1	6 mm	1/8" BSPP
CDCVPC06G2	6 mm	1/4" BSPP
CDCVPC08G1	8 mm	1/8" BSPP
CDCVPC08G2	8 mm	1/4" BSPP
CDCVPC10G3	10 mm	3/8" BSPP
CDCVPC10G4	10 mm	1/2" BSPP
CDCVPC12G3	12 mm	3/8" BSPP
CDCVPC12G4	12 mm	1/2" BSPP

THREAD TO THREAD



BUSH BSPT FEMALE / BSPT MALE

PART NUMBER	FEMALE THREAD	MALE THREAD
CDCVPF0101	1/8" BSPT	1/8" BSPT
CDCVPF0202	1/4" BSPT	1/4" BSPT
CDCVPF0303	3/8" BSPT	3/8" BSPT
CDCVPF0404	1/2" BSPT	1/2" BSPT



BUSH BSPP FEMALE / BSPP MALE

PART NUMBER	FEMALE THREAD	MALE THREAD
CDCVPF01G1	1/8" BSPP	1/8" BSPP
CDCVPF02G2	1/4" BSPP	1/4" BSPP
CDCVPF03G3	3/8" BSPP	3/8" BSPP
CDCVPF04G4	1/2" BSPP	1/2" BSPP



STRAIGHT UNIONS BSPT FEMALE

PART NUMBER	THREAD
CDCVFF01-01	1/8" BSPT
CDCVFF02-02	1/4" BSPT
CDCVFF03-03	3/8" BSPT
CDCVFF04-04	1/2" BSPT

METRIC TUBE TO TUBE



STRAIGHT UNIONS

PART NUMBER	TUBE OD
CDCVPU04	4 mm
CDCVPU06	6 mm
CDCVPU08	8 mm
CDCVPU10	10 mm
CDCVPU12	12 mm



Fitting material aluminium

SLIDE & NON-RETURN VALVES

SPECIFICATIONS

Temperature range	-20°C to +80°C (4°F to 176°F)
MATERIALS	
Body	Nickel plated brass



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NON-RETURN VALVE METRIC FEMALE

PART NUMBER	THREAD	PRESSURE
B/V6062-M5	M5	8 bar

NON-RETURN VALVE BSPP FEMALE

B/V6062-02	1/8" BSPP	8 bar
B/V6062-04	1/4" BSPP	8 bar
B/V6062-06	3/8" BSPP	8 bar
B/V6062-08	1/2" BSPP	8 bar

SLIDE VALVE BSPP FEMALE

PART NUMBER	THREAD	PRESSURE
B/V6060-02	1/8" BSPP	10 bar
B/V6060-04	1/4" BSPP	10 bar
B/V6060-06	3/8" BSPP	10 bar
B/V6060-08	1/2" BSPP	10 bar



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NON-RETURN VALVE METRIC MALE / METRIC FEMALE

PART NUMBER	THREAD	THREAD	PRESSURE
B/V6063-M5	M5	M5	8 bar



1450

BSPP MALE / BSPP FEMALE

B/V6063-02	1/8" BSPP	1/8" BSPP	8 bar
B/V6063-04	1/4" BSPP	1/4" BSPP	8 bar
B/V6063-06	3/8" BSPP	3/8" BSPP	8 bar
B/V6063-08	1/2" BSPP	1/2" BSPP	8 bar

HEAVY DUTY TECHNICAL VALVES

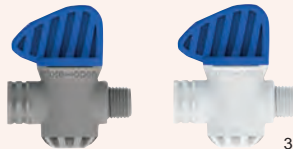
VALVES

FEATURES

High pressure resistance. Wide temperature range. Long life reliable product. Low pressure head loss. Lightweight, easy to transport. Environment friendly, non-toxic. Easy & fast installation, very easy to operate.

SPECIFICATIONS

Working pressure	10 bar	16 bar	16 bar
Temperature range	-5°C to +60°C	-20°C to +90°C	-20°C to +90°C
MATERIALS		Grey	White
Body	Polypropylene	PVDF	Acetal
O-ring	EPDM	FKM	NBR



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DUAL TECH VALVE GREY – EPDM O-RING

PART NUMBER	MALE THREAD	FEMALE THREAD
TF-23002504043	1/4" BSPT	1/4" BSPT

WHITE – FKM O-RING

TF-23002904041	1/4" BSPT	1/4" BSPT
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3860

DUAL TECH VALVE BLACK – NBR O-RING

PART NUMBER	MALE THREAD	FEMALE THREAD
TF-23002404042	1/4" BSPT	1/4" BSPT



FEATURES

Heavy duty Quatro Tech valves provide dependable operation & long life; Quatro Tech valves have only one moveable part, which significantly reduces the grinding & discrepancies. Ability to handle a wide range of aggressive chemicals.

SPECIFICATIONS

Nominal pressure	Up to 10 bar (145 psi)
Temperature range	-5°C to +60°C (23°F to 140°F) subject to application
Material	Glass fibre reinforced polypropylene
O-ring material	EPDM



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QUATRO TECH VALVE BSPT MALE FIXED CONNECTOR

PART NUMBER	INLET	THREAD
TF-23003403033	1/4" BSPT	1/8" BSPT
TF-23003404043	1/4" BSPT	1/4" BSPT



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QUATRO TECH VALVE BARB UNION CONNECTOR

PART NUMBER	INLET	HOSE ID
TF-23003408083	1/4" BSPT	8 mm