PNEUMATIC CYLINDERS & ACCESSORIES

■ ♣ E·MC° ■







344 ISO 15552 / VDMA Standard Range



346 ISO 15552 / VDMA Standard Profile Range



Compact Range



349 ISO 21287 Compact Range



350



Guided Range



355



ISO 6432 Mini Range Series 16, 24, 25



Compact Range Series 31







ISO 15552 Aluminium Profile Range Series 61



357 ISO 15552 Aluminium Tube & Profile Range Series 63



358 Cylinder Accessories



360 Magnetic Proximity Switches & **Brackets**

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.

■ FESTO



Standard-Based





Accessories



363 ISO 15552 Standard-Based Range



ISO 21287 Compact Range



364 Mini Slide

FESTO

ISO 6432

Range









Actuators



Parallel Grippers

SOLENOID & PNEUMATIC VALVES





370 3/2. 5/2 & 5/3 Pneumatically Operated Valves



3/2. 5/2 & 5/3 Solenoid Valves



371 Standard Namur Solenoid Valves



372 Solenoid Valve Accessories



Manual & Pneumatic Operated Valves

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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



Manual & Mechanical Valves





380 Solenoid Valves & Accessories



386 Manually Operated Valves



387 Mechanically Operated Valves

FESTO I



388 Pressure Sensors & Accessories





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396 Solenoid DIN Connectors



398 Pneumatic Valves



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400 Manually Operated Automatic Valves Valves



404

PNEUMATICS



406 Check Valves

■ ⊘AIGNEP

407 Slide & Non-Return Valves

■^cCtefen



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.



Cylinder type: *Single or double acting, magnetic positioning

Max. operating pressure: Operating temperature: 10 bar -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











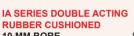
£64.19

A. 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 3610					
PART NUMBER	BORE	STROKE	PRICE		
EM-IA10X25-S	10 mm	25 mm	£28.74		
EM-IA10X50-S	10 mm	50 mm	£30.61		

PART NUMBER	BORE	STROKE	PRICE	
EM-IA10X25-S	10 mm	25 mm	£28.74	
EM-IA10X50-S	10 mm	50 mm	£30.61	
EM-IA10X80-S	10 mm	80 mm	£34.40	
EM-IA10X100-S	10 mm	100 mm	£34.40	
42 MM PODE				

12 IVIIVI BURE					
EM-IA12X25-S	12 mm	25 mm	£40.36		
EM-IA12X50-S	12 mm	50 mm	£42.70		
EM-IA12X80-S	12 mm	80 mm	£49.82		
EM 1442V400 C	10	100 mm	C40 02		

	EM-IA12X80-S	12 mm	80 mm	£49.82	
EM-IA12X100-S		12 mm	100 mm	£49.82	
	16 MM BORE				
	EM-IA16X25-S	16 mm	25 mm	£37.68	

LIN IA TOALO	10 111111	20 111111	201.00		
EM-IA16X50-S	16 mm	50 mm	£40.01		
EM-IA16X80-S	16 mm	80 mm	£44.68		
EM-IA16X100-S	16 mm	100 mm	£44.68		
EM-IA16X125-S	16 mm	125 mm	£47.02		
EM-IA16X150-S	16 mm	150 mm	£49.41		
20 MM BORE					

ZO WIN DOILE					
	EM-IA20X25-S	20 mm	25 mm	£39.49	
	EM-IA20X50-S	20 mm	50 mm	£42.52	
	EM-IA20X80-S	20 mm	80 mm	£48.54	
	EM-IA20X100-S	20 mm	100 mm	£48.54	
	EM-IA20X125-S	20 mm	125 mm	£51.58	
	EM-IA20X150-S	20 mm	150 mm	£54.55	

25 MM BORE					
EM-IA25X25-S	25 mm	25 mm	£42.46		
EM-IA25X50-S	25 mm	50 mm	£45.74		
EM-IA25X80-S	25 mm	80 mm	£52.28		
EM-IA25X100-S	25 mm	100 mm	£52.28		
EM-IA25X125-S	25 mm	125 mm	£55.55		
EM-IA25X150-S	25 mm	150 mm	£58.82		

For cylinder dimensional drawings please see page 344

IAC SERIES DOUBLE ACTING AIR CUSHIONED

16 MM BORE

3610 PART NUMBER BORE STROKE PRICE EM-IAC16X25-S 16 mm 25 mm £48.95 EM-IAC16X50-S 16 mm 50 mm £52.04 EM-IAC16X80-S 16 mm 80 mm £58.06 £58.12 EM-IAC16X100-S 16 mm 100 mm EM-IAC16X125-S 16 mm 125 mm £61.10

150 mm

1 Marie 20,12

3610

16 mm

ΕN	/I-IA	C16X1	50-S
20	мм	BOR	E

EM-IAC20X25-S	20 mm	25 mm	£51.34
EM-IAC20X50-S	20 mm	50 mm	£55.26
EM-IAC20X80-S	20 mm	80 mm	£63.08
EM-IAC20X100-S	20 mm	100 mm	£63.08
EM-IAC20X125-S	20 mm	125 mm	£67.05
EM-IAC20X150-S	20 mm	150 mm	£70.91

25 MM BORE

EM-IAC25X25-S	25 mm	25 mm	£57.65
EM-IAC25X50-S	25 mm	50 mm	£60.04
EM-IAC25X80-S	25 mm	80 mm	£67.99
EM-IAC25X100-S	25 mm	100 mm	£67.99
EM-IAC25X125-S	25 mm	125 mm	£72.19
EM-IAC25X150-S	25 mm	150 mm	£76.46

IASB SERIES SINGLE ACTING **SPRING RETURN**

12 MM BORE

PART NUMBER	BORE	STROKE	PRICE
EM-IASB12X25-S	12 mm	25 mm	£50.23
EM-IASB12X50-S	12 mm	50 mm	£55.49
EM-IASB12X80-S	12 mm	80 mm	£52.04
EM-IASB12X125-S	12 mm	125 mm	£54.61
EM-IASB12X150-S	12 mm	150 mm	£57.18

16 MM BORE

EM-IASB16X25-S	16 mm	25 mm	£56.31
EM-IASB16X50-S	16 mm	50 mm	£59.81
EM-IASB16X80-S	16 mm	80 mm	£66.82
EM-IASB16X125-S	16 mm	125 mm	£70.32
EM-IASB16X150-S	16 mm	150 mm	£73.83

20 MM BORE

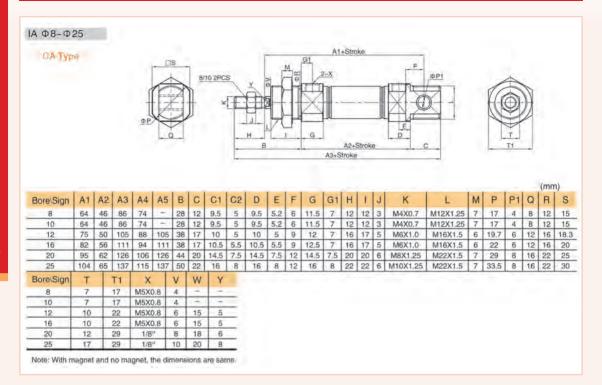
EM-IASB20X25-S	20 mm	25 mm	£59.05
EM-IASB20X50-S	20 mm	50 mm	£63.55
EM-IASB20X80-S	20 mm	80 mm	£72.54
EM-IASB20X125-S	20 mm	125 mm	£77.04
EM-IASB20X150-S	20 mm	150 mm	£81.71

25 MM BORE

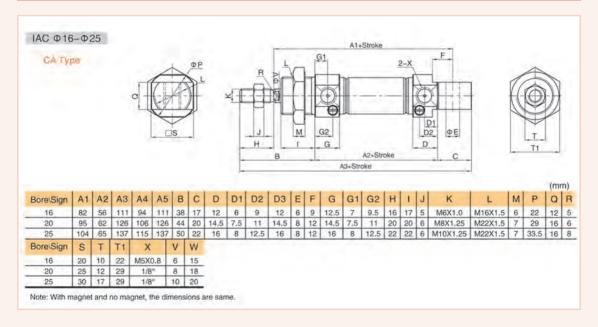
EM-IASB25X10-S	25 mm	10 mm	£57.77
EM-IASB25X25-S	25 mm	25 mm	£63.43
EM-IASB25X50-S	25 mm	50 mm	£68.34
EM-IASB25X80-S	25 mm	80 mm	£78.15
EM-IASB25X125-S	25 mm	125 mm	£83.06
EM-IASB25X150-S	25 mm	150 mm	£87.85



EMC-IA SERIES



EMC-IAC SERIES







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.

FFATURES

- 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





80 MM BORE

Cushion type

SPECIFICATIONS

Max. working pressure

Operating temperature

Available stroke length

Cylinder type

Speed range

Bore

Mounting

Materials

80 MM BORE			
PART NUMBER	BORE	STROKE	PRICE
EM-FVBC80X25-S	80 mm	25 mm	£198.53
EM-FVBC80X50-S	80 mm	50 mm	£210.21
EM-FVBC80X80-S	80 mm	80 mm	£233.57
EM-FVBC80X100-S	80 mm	100 mm	£233.57
EM-FVBC80X125-S	80 mm	125 mm	£245.25
EM-FVBC80X160-S	80 mm	160 mm	£269.14
EM-FVBC80X200-S	80 mm	200 mm	£280.88
EM-FVBC80X250-S	80 mm	250 mm	£304.24
EM-FVBC80X320-S	80 mm	320 mm	£350.91
EM-FVBC80X400-S	80 mm	400 mm	£374.86
EM-FVBC80X500-S	80 mm	500 mm	£421.58

Double acting, magnetic positioning

aluminium barrel. PU seals

-20°C to +80°C (dry air)

50 to 800 mm/s

ø80 mm, ø100 mm

flange, rear flange.

Adjustable air cushion

0 - 1900 mm

10 har

Aluminium end caps. S45C hard chrome

carbon steel piston rod. Hard anodised

ø32 mm, ø40 mm, ø50 mm, ø63 mm,

Foot, rear trunnion, 90° rear trunnion, front

100 MM BORE

EM-FVBC100X25-S	100 mm	25 mm	£242.98
EM-FVBC100X50-S	100 mm	50 mm	£258.22
EM-FVBC100X80-S	100 mm	80 mm	£288.01
EM-FVBC100X100-S	100 mm	100 mm	£288.01
EM-FVBC100X125-S	100 mm	125 mm	£303.19
EM-FVBC100X160-S	100 mm	160 mm	£333.51
EM-FVBC100X200-S	100 mm	200 mm	£348.75
EM-FVBC100X250-S	100 mm	250 mm	£379.12
EM-FVBC100X320-S	100 mm	320 mm	£439.28
EM-FVBC100X400-S	100 mm	400 mm	£469.65
EM-FVBC100X500-S	100 mm	500 mm	£529.81

FVBC SERIES CYLINDER 32 MM BORE

PART NUMBER	BORE	STROKE	PRICE
EM-FVBC32X25-S	32 mm	25 mm	£78.27
EM-FVBC32X50-S	32 mm	50 mm	£82.41
EM-FVBC32X80-S	32 mm	80 mm	£90.71
EM-FVBC32X100-S	32 mm	100 mm	£90.71
EM-FVBC32X125-S	32 mm	125 mm	£94.86
EM-FVBC32X160-S	32 mm	160 mm	£103.15
EM-FVBC32X200-S	32 mm	200 mm	£107.30
EM-FVBC32X250-S	32 mm	250 mm	£115.59

40 MM BORE

EM-FVBC40X25-S	40 mm	25 mm	£101.86
EM-FVBC40X50-S	40 mm	50 mm	£107.12
EM-FVBC40X80-S	40 mm	80 mm	£118.28
EM-FVBC40X100-S	40 mm	100 mm	£118.28
EM-FVBC40X125-S	40 mm	125 mm	£124.06
EM-FVBC40X160-S	40 mm	160 mm	£135.21
EM-FVBC40X200-S	40 mm	200 mm	£140.35
EM-FVBC40X250-S	40 mm	250 mm	£151.51

50 MM BORE

EM-FVBC50X25-S	50 mm	25 mm	£125.17
EM-FVBC50X50-S	50 mm	50 mm	£132.12
EM-FVBC50X80-S	50 mm	80 mm	£145.61
EM-FVBC50X100-S	50 mm	100 mm	£145.55
EM-FVBC50X125-S	50 mm	125 mm	£151.98
EM-FVBC50X160-S	50 mm	160 mm	£165.35
EM-FVBC50X200-S	50 mm	200 mm	£172.42
EM-FVBC50X250-S	50 mm	250 mm	£185.83

63 MM BORE

OO IIIIII DOINE			
EM-FVBC63X25-S	63 mm	25 mm	£146.55
EM-FVBC63X50-S	63 mm	50 mm	£155.37
EM-FVBC63X80-S	63 mm	80 mm	£172.30
EM-FVBC63X100-S	63 mm	100 mm	£172.30
EM-FVBC63X125-S	63 mm	125 mm	£180.54
EM-FVBC63X160-S	63 mm	160 mm	£197.48
EM-FVBC63X200-S	63 mm	200 mm	£205.65
EM-FVBC63X250-S	63 mm	250 mm	£222.48
EM-FVBC63X320-S	63 mm	320 mm	£255.83
EM-FVBC63X400-S	63 mm	400 mm	£272.82
EM-FVBC63X500-S	63 mm	500 mm	£306.64







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



VBC SERIES STANDARD PROFILE CYLINDER

32 MM BORE

PART NUMBER	BORE	STROKE	PRICE
EM-VBC32X25-S	32 mm	25 mm	£74.94
EM-VBC32X50-S	32 mm	50 mm	£74.91
EM-VBC32X80-S	32 mm	80 mm	£80.38
EM-VBC32X100-S	32 mm	100 mm	£80.38
EM-VBC32X125-S	32 mm	125 mm	£85.34
EM-VBC32X160-S	32 mm	160 mm	£94.04
EM-VBC32X200-S	32 mm	200 mm	£94.04
EM-VBC32X250-S	32 mm	250 mm	£102.68
EM-VBC32X320-S	32 mm	320 mm	£115.06

40 MM BORE

EM-VBC40X25-S	40 mm	25 mm	£84.87
EM-VBC40X50-S	40 mm	50 mm	£84.85
EM-VBC40X80-S	40 mm	80 mm	£91.45
EM-VBC40X100-S	40 mm	100 mm	£91.45
EM-VBC40X125-S	40 mm	125 mm	£98.04
EM-VBC40X160-S	40 mm	160 mm	£105.14
EM-VBC40X200-S	40 mm	200 mm	£105.14
EM-VBC40X250-S	40 mm	250 mm	£113.84
EM-VBC40X320-S	40 mm	320 mm	£138.25

50 MM BORE

EM-VBC50X25-S	50 mm	25 mm	£113.23
EM-VBC50X50-S	50 mm	50 mm	£113.23
EM-VBC50X80-S	50 mm	80 mm	£121.48
EM-VBC50X100-S	50 mm	100 mm	£121.48
EM-VBC50X125-S	50 mm	125 mm	£129.71
EM-VBC50X160-S	50 mm	160 mm	£137.96
EM-VBC50X200-S	50 mm	200 mm	£137.96
EM-VBC50X250-S	50 mm	250 mm	£147.01
EM-VBC50X320-S	50 mm	320 mm	£166.35

63 MM BORE

EM-VBC63X25-S	63 mm	25 mm	£135.20
EM-VBC63X50-S	63 mm	50 mm	£135.20
EM-VBC63X80-S	63 mm	80 mm	£144.80
EM-VBC63X100-S	63 mm	100 mm	£144.80
EM-VBC63X125-S	63 mm	125 mm	£154.37
EM-VBC63X160-S	63 mm	160 mm	£166.87
EM-VBC63X200-S	63 mm	200 mm	£166.87
EM-VBC63X250-S	63 mm	250 mm	£181.77
EM-VBC63X320-S	63 mm	320 mm	£207.64
EM-VBC63X400-S	63 mm	400 mm	£226.33
EM-VBC63X500-S	63 mm	500 mm	£255.94

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

80 MM BORE

PART NUMBER	BORE	STROKE	PRICE
EM-VBC80X25-S	80 mm	25 mm	£174.44
EM-VBC80X50-S	80 mm	50 mm	£174.44
EM-VBC80X80-S	80 mm	80 mm	£190.08
EM-VBC80X100-S	80 mm	100 mm	£190.08
EM-VBC80X125-S	80 mm	125 mm	£205.75
EM-VBC80X160-S	80 mm	160 mm	£220.26
EM-VBC80X200-S	80 mm	200 mm	£220.26
EM-VBC80X250-S	80 mm	250 mm	£240.00
EM-VBC80X320-S	80 mm	320 mm	£275.51
EM-VBC80X400-S	80 mm	400 mm	£301.91
EM-VBC80X500-S	80 mm	500 mm	£343.96

100 MM BORE

EM-VBC100X25-S	100 mm	25 mm	£222.78
EM-VBC100X50-S	100 mm	50 mm	£222.78
EM-VBC100X80-S	100 mm	80 mm	£239.29
EM-VBC100X100-S	100 mm	100 mm	£239.29
EM-VBC100X125-S	100 mm	125 mm	£255.76
EM-VBC100X160-S	100 mm	160 mm	£274.69
EM-VBC100X200-S	100 mm	200 mm	£274.69
EM-VBC100X250-S	100 mm	250 mm	£297.00
EM-VBC100X320-S	100 mm	320 mm	£335.03
EM-VBC100X400-S	100 mm	400 mm	£363.76
EM-VBC100X500-S	100 mm	500 mm	£408.33

125 MM BORE

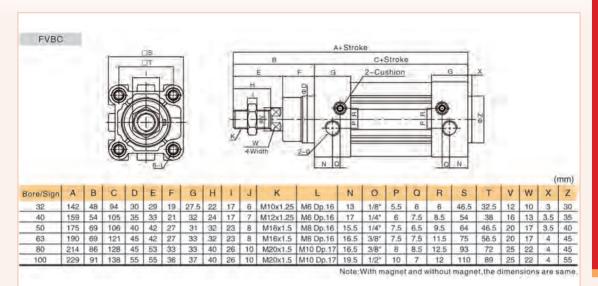
EM-VBC125X50-S	125 mm	50 mm	£377.59
EM-VBC125X80-S	125 mm	80 mm	£404.42
EM-VBC125X100-S	125 mm	100 mm	£404.42
EM-VBC125X125-S	125 mm	125 mm	£431.28
EM-VBC125X160-S	125 mm	160 mm	£458.15
EM-VBC125X200-S	125 mm	200 mm	£458.15
EM-VBC125X250-S	125 mm	250 mm	£484.96
EM-VBC125X320-S	125 mm	320 mm	£533.78
EM-VBC125X400-S	125 mm	400 mm	£560.54
EM-VBC125X500-S	125 mm	500 mm	£620.40



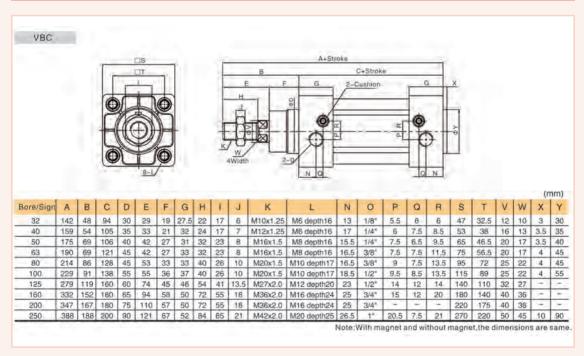




EMC-FVBC SERIES



EMC-VBC SERIES





E·MC

SON 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



SQN SERIES DIAMOND PROFILE CYLINDER

16 MM BORE

PART NUMBER	BORE	STROKE	PRICE		
EM-SQN16X30-S	16 mm	30 mm	£30.11		
20 MM BORE					
EM-SQN20X10-S	20 mm	10 mm	£26.52		
EM-SQN20X15-S	20 mm	15 mm	£27.72		
EM-SQN20X20-S	20 mm	20 mm	£28.93		
EM-SQN20X25-S	20 mm	25 mm	£30.14		
EM-SQN20X30-S	20 mm	30 mm	£31.34		
EM-SQN20X40-S	20 mm	40 mm	£33.75		
EM-SQN20X50-S	20 mm	50 mm	£36.17		
25 MM BORE					
EM-SQN25X10-S	25 mm	10 mm	£27.72		
EM-SQN25X15-S	25 mm	15 mm	£28.08		
EM-SQN25X20-S	25 mm	20 mm	£30.14		
EM-SQN25X25-S	25 mm	25 mm	£31.34		
EM-SQN25X30-S	25 mm	30 mm	£31.59		
EM-SQN25X40-S	25 mm	40 mm	£34.96		
EM-SQN25X50-S	25 mm	50 mm	£37.37		



32 MM BORE



PART NUMBER	BORE	STROKE	PRICE
EM-SQN32X10-S	32 mm	10 mm	£33.02
EM-SQN32X15-S	32 mm	15 mm	£34.58
EM-SQN32X20-S	32 mm	20 mm	£36.17
EM-SQN32X25-S	32 mm	25 mm	£37.73
EM-SQN32X30-S	32 mm	30 mm	£39.29
EM-SQN32X40-S	32 mm	40 mm	£42.44
EM-SON32Y50-S	32 mm	50 mm	£45 58

40 MM BORE

EM-SQN40X10-S	40 mm	10 mm	£40.14
EM-SQN40X15-S	40 mm	15 mm	£41.73
EM-SQN40X20-S	40 mm	20 mm	£43.29
EM-SQN40X25-S	40 mm	25 mm	£44.85
EM-SQN40X30-S	40 mm	30 mm	£46.44
EM-SQN40X40-S	40 mm	40 mm	£49.57
EM-SQN40X50-S	40 mm	50 mm	£52.70

50 MM BORE

EM-SQN50X10-S	50 mm	10 mm	£47.18
EM-SQN50X15-S	50 mm	15 mm	£49.28
EM-SQN50X20-S	50 mm	20 mm	£51.37
EM-SQN50X25-S	50 mm	25 mm	£53.47
EM-SQN50X30-S	50 mm	30 mm	£55.04
EM-SQN50X40-S	50 mm	40 mm	£59.24
EM-SQN50X50-S	50 mm	50 mm	£63.45

Additional strokes available on all bore sizes



E·MC°

SF SFRIFS

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



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?





Find it on pages 497 - 501, section eight

SF SERIES

20 MM BORE

PART NUMBER	BORE	STROKE	PRICE
EM-SF20X10-S	20 mm	10 mm	£32.41
EM-SF20X15-S	20 mm	15 mm	£33.38
EM-SF20X20-S	20 mm	20 mm	£34.45
EM-SF20X25-S	20 mm	25 mm	£35.31
EM-SF20X30-S	20 mm	30 mm	£36.27
EM-SF20X40-S	20 mm	40 mm	£38.20
EM-SF20X50-S	20 mm	50 mm	£40.12

25 MM BORE

EM-SF25X10-S	25 mm	10 mm	£37.67
EM-SF25X15-S	25 mm	15 mm	£38.79
EM-SF25X20-S	25 mm	20 mm	£39.90
EM-SF25X25-S	25 mm	25 mm	£41.01
EM-SF25X30-S	25 mm	30 mm	£42.12
EM-SF25X40-S	25 mm	40 mm	£44.35
EM-SF25X50-S	25 mm	50 mm	£46.59

32 MM BORE

EM-SF32X10-S	32 mm	10 mm	£40.58
EM-SF32X15-S	32 mm	15 mm	£41.56
EM-SF32X20-S	32 mm	20 mm	£42.52
EM-SF32X25-S	32 mm	25 mm	£43.48
EM-SF32X30-S	32 mm	30 mm	£44.45
EM-SF32X40-S	32 mm	40 mm	£46.37
EM-SF32X50-S	32 mm	50 mm	£48.27

40 MM BORE

PART NUMBER	BORE	STROKE	PRICE
EM-SF40X10-S	40 mm	10 mm	£43.16
EM-SF40X15-S	40 mm	15 mm	£44.26
EM-SF40X20-S	40 mm	20 mm	£45.36
EM-SF40X25-S	40 mm	25 mm	£46.47
EM-SF40X30-S	40 mm	30 mm	£47.61
EM-SF40X40-S	40 mm	40 mm	£47.57
EM-SF40X50-S	40 mm	50 mm	£52.06

50 MM BORE

EM-SF50X10-S	50 mm	10 mm	£51.99
EM-SF50X15-S	50 mm	15 mm	£53.36
EM-SF50X20-S	50 mm	20 mm	£54.72
EM-SF50X25-S	50 mm	25 mm	£56.08
EM-SF50X30-S	50 mm	30 mm	£57.47
EM-SF50X40-S	50 mm	40 mm	£60.21
EM-SF50X50-S	50 mm	50 mm	£62.93

63 MM BORE

EM-SF63X10-S	63 mm	10 mm	£64.67
EM-SF63X15-S	63 mm	15 mm	£66.41
EM-SF63X20-S	63 mm	20 mm	£68.14
EM-SF63X25-S	63 mm	25 mm	£69.84
EM-SF63X30-S	63 mm	30 mm	£71.58
EM-SF63X40-S	63 mm	40 mm	£75.03
EM-SF63X50-S	63 mm	50 mm	£78.47







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	

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

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



EXS SERIES GUIDED CYLINDER

10 MM BORE

PART NUMBER	BORE	STROKE	PRICE	
EM-EXSM10X25-S	10 mm	25 mm	£152.91	
EM-EXSM10X75-S	10 mm	75 mm	£196.79	
16 MM BORE				
EM-EXSM16X25-S	16 mm	25 mm	£161.57	
EM-EXSM16X50-S	16 mm	50 mm	£177.75	
EM-EXSM16X75-S	16 mm	75 mm	£208.31	
20 MM BORE				
EM-EXSM20X10-S	20 mm	10 mm	£187.54	
EM-EXSM20X25-S	20 mm	25 mm	£217.57	
EM-EXSM20X50-S	20 mm	50 mm	£240.64	
EM-EXSM20X75-S	20 mm	75 mm	£199.65	
25 MM BORE				
EM-EXSM25X25-S	25 mm	25 mm	£228.52	
EM-EXSM25X50-S	25 mm	50 mm	£259.68	
EM-EXSM25X75-S	25 mm	75 mm	£256.22	
32 MM BORE				
EM-EXSM32X25-S	32 mm	25 mm	£301.80	
EM-EXSM32X50-S	32 mm	50 mm	£337.02	
LINI-LAGINISZASO-O	OZ IIIIII			
EM-EXSM32X75-S	32 mm	75 mm	£337.02	



SGM SERIES TRIPLE ROD GUIDED CYLINDER

12 MM BORE

PART NUMBER	BORE	STROKE	PRICE
EM-SGM12X25-S	12 mm	25 mm	£116.28
EM-SGM12X50-S	12 mm	50 mm	£127.90
EM-SGM12X75-S	12 mm	75 mm	£179.78

16 MM BORE

EM-SGM16X25-S	16 mm	25 mm	£126.33
EM-SGM16X50-S	16 mm	50 mm	£138.98
EM-SGM16X75-S	16 mm	75 mm	£186.44

20 MM BORE

EM-SGM20X25-S	20 mm	25 mm	£144.24
EM-SGM20X50-S	20 mm	50 mm	£162.77
EM-SGM20X75-S	20 mm	75 mm	£172.82

25 MM BORE

EM-SGM25X25-S	25 mm	25 mm	£172.27
EM-SGM25X50-S	25 mm	50 mm	£192.37
EM-SGM25X75-S	25 mm	75 mm	£202.90

32 MM BORE

EM-SGM32X25-S	32 mm	25 mm	£275.56
EM-SGM32X50-S	32 mm	50 mm	£249.45
EM-SGM32X75-S	32 mm	75 mm	£287.46

40 MM BORE

EM-SGM40X25-S	40 mm	25 mm	£294.97
EM-SGM40X50-S	40 mm	50 mm	£266.34
EM-SGM40X75-S	40 mm	75 mm	£363.85

50 MM BORE

EM-SGM50X25-S	50 mm	25 mm	£335.72
EM-SGM50X50-S	50 mm	50 mm	£364.81
FM-SGM50X75-S	50 mm	75 mm	£413.35

63 MM BORE

EM-SGM63X25-S	63 mm	25 mm	£388.12
EM-SGM63X50-S	63 mm	50 mm	£423.04
EM-SGM63X75-S	63 mm	75 mm	£487.57





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



PAIR		3610
PART NUMBER	CYLINDER BORE	PRICE
EM-FJ-IA12LB	12 mm / 16 mm	£5.43
EM-FJ-IA20LB	20 mm / 25 mm	£5.96





PART NUMBER	CYLINDER BORE	THREAD	PRICE
EM-FJ-M6X1IJ	12 mm / 16 mm	M6 x 1	£4.91
EM-FJ-M8X1.25IJ	20 mm	M8 x 1.25	£6.14
EM-FJ-M10X1.25IJ	25 mm	M10 x 1.25	£7.54



3610

REAR CLEVIS

PART NUMBER	CYLINDER BORE	PRICE
EM-FJ-IA12SDB	12 mm / 16 mm	£10.92
EM-FJ-IA20SDB	20 mm / 25 mm	£10.92

MAGNETIC SWITCH



PART NUMBER	DESCRIPTION	PRICE
EM-HX-13D	2 wire without contact switch 10 – 28 V DC, 2 m lead	£26.76
EM-HX-13N	NPN type 3 wire 5 - 30 V DC, 2 m lead	£43.65
EM-HX-13P	PNP type 3 wire 5 - 30 V DC, 2 m lead	£43.65
EM-HX-13R	2 wire reed switch 5 – 240 V AC/DC, 2 m lead	£19.30



FLANGE MOUNTING

PART NUMBER	CYLINDER BORE	PRICE
EM-FJ-IA12FA	12 mm / 16 mm	£6.65
EM-FJ-IA20FA	20 mm / 25 mm	£7.30

3610

ROD FORK END

PART NUMBER	CYLINDER BORE	THREAD	PRICE
EM-FJ-M6X1YCJ	12 mm / 16 mm	M6 x 1	£5.67
EM-FJ-M8X1.25YCJ	20 mm	M8 x 1.25	£7.30

FIXED STEEL BELT

LENGTH TYPE FOR HX-13

3610

PART NUMBER	BORE	PRICE
EM-PAB-13	6 to 63 mm	£3.42



PART NUMBER	CYLINDER BORE	THREAD	PRICE
EM-FJ-M6X1BJ	12 mm / 16 mm	M6 x 1	£6.19
EM-FJ-M8X1.25BJ	20 mm	M8 x 1.25	£6.67

Do you also need? 25 mm rod fork end Find it on page 352, section six







ISO 15552 / VDMA CYLINDER ACCESSORIES



FEMALE REAR TRUNNION & PIN

PART NUMBER	CYLINDER BORE	PRICE
EM-FJ-VBC32CB	32 mm	£11.04
EM-FJ-VBC40CB	40 mm	£12.15
EM-FJ-VBC50CB	50 mm	£17.12
EM-FJ-VBC63CB	63 mm	£20.39
EM-FJ-VBC80CB	80 mm	£25.29
EM-FJ-VBC100CB	100 mm	£39.89
EM-FJ-VBC125CB	125 mm	£58.09

ROD FORK END



3610

PART NUMBER	CYLINDER BORE	THREAD	PRICE
EM-FJ-M10X1.25YCJ*	32 mm	M10 x 1.25	£10.28
EM-FJ-M12X1.25YCJ	40 mm	M12 x 1.25	£14.60
EM-FJ-M16X1.5YCJ	50 mm / 63 mm	M16 x 1.5	£20.80
EM-FJ-M20X1.5YCJ	80 mm / 100 mm	M20 x 1.5	£33.94
EM-FJ-M27X2YCJ	125 mm	M27 x 2	£82.24

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



MALE REAR TRUNNION

PART NUMBER	CYLINDER BORE	PRICE
EM-FJ-VBC32CA	32 mm	£10.11
EM-FJ-VBC40CA	40 mm	£11.04
EM-FJ-VBC50CA	50 mm	£13.32
EM-FJ-VBC63CA	63 mm	£16.59
EM-FJ-VBC80CA	80 mm	£29.03
EM-FJ-VBC100CA	100 mm	£31.37
EM-FJ-VBC125CA	125 mm	£44.68

ROD EYE



361

PART NUMBER	CYLINDER BORE	THREAD	PRICE
EM-FJ-M10X1.25BJ*	32 mm	M10 x 1.25	£8.94
EM-FJ-M12X1.25BJ	40 mm	M12 x 1.25	£9.29
EM-FJ-M16X1.5BJ	50 mm / 63 mm	M16 x 1.5	£16.12
EM-FJ-M20X1.5BJ	80 mm / 100 mm	M20 x 1.5	£25.23
EM-FJ-M27X2BJ	125 mm	M27 x 2	£65.83

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



90° MALE REAR TRUNNION

PART NUMBER	CYLINDER BORE	PRICE
EM-FJ-VBC32CR	32 mm	£11.63
EM-FJ-VBC40CR	40 mm	£14.66
EM-FJ-VBC50CR	50 mm	£20.15
EM-FJ-VBC63CR	63 mm	£25.64
EM-FJ-VBC80CR	80 mm	£37.85
EM-FJ-VBC100CR	100 mm	£51.34
EM-FJ-VBC125CR	125 mm	£65.83

PART NUMBER CYL

EM-FJ-M10X1.25FD

EM-FJ-M12X1.25FD

EM-FJ-M16X1.5FD

EM-FJ-M20X1.5FD

EM-FJ-M27X2FD



CYLINDER BORE THREAD PRICE £17.88 32 mm M10 x 1.25 40 mm M12 x 1.25 £22.61 £38.26 50 mm / 63 mm M16 x 1.5 £49.88 80 mm / 100 mm M20 x 1.5 125 mm M27 x 2 £105.54



FRONT & REAR FLANGE

PART NUMBER	CYLINDER BORE	PRICE
EM-FJ-VBC32FA	32 mm	£15.54
EM-FJ-VBC40FA	40 mm	£18.11
EM-FJ-VBC50FA	50 mm	£25.88
EM-FJ-VBC63FA	63 mm	£31.08
EM-FJ-VBC80FA	80 mm	£46.67
EM-FJ-VBC100FA	100 mm	£62.21
EM-FJ-VBC125FA	125 mm	£69.81

FOOT MOUNTS

PAIR



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>	o	ч	U

PART NUMBER	CYLINDER BORE	PRICE
EM-FJ-VBC32LB	32 mm	£5.61
EM-FJ-VBC40LB	40 mm	£8.41
EM-FJ-VBC50LB	50 mm	£11.16
EM-FJ-VBC63LB	63 mm	£16.77
EM-FJ-VBC80LB	80 mm	£19.57
EM-FJ-VBC100LB	100 mm	£22.37
EM-FJ-VBC125LB	125 mm	£41.90







FVBC SERIES MAGNETIC SWITCH

PART NUMBER	DESCRIPTION	PRICE
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	£15.14
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	£41.56
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	£41.56

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



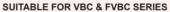
PART NUMBER	DESCRIPTION	PRICE
EM-HX-07R	Standard 2 wire reed switch Normally open Operating votage 5 – 240 V DC/AC Red LED indicator, 2 m lead IP67 rated	£13.19
EM-HX-07N	NPN 3 wire solid state auto switch Normally open (input) Operating voltage 5 – 30 V DC Red LED indicator, 2 m lead IP67 rated surge protection	£37.99
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	£37.99

VBC SERIES HX21 SWITCH CLAMP ALUMINIUM ALLOY



PART NUMBER	BORE	PRICE
EM-PI-1	32 mm / 40 mm	£3.51
EM-IH-50	50 mm	£3.51
EM-IH-63	63 mm	£3.51
EM-PI-3	80 mm	£6.37
EM-PI-4	100 mm	£6.37
EM-PI-5	125 mm	£11.46

CYLINDER SEAL KIT





PART NUMBER	BORE SIZE	PRICE
EM-VBC32-XLB	32 mm	£15.19
EM-VBC40-XLB	40 mm	£18.93
EM-VBC50-XLB	50 mm	£22.66
EM-VBC63-XLB	63 mm	£25.99
EM-VBC80-XLB	80 mm	£31.48
EM-VBC100-XLB	100 mm	£36.04
EM-VBC125-XLB	125 mm	£21.26

VBC SERIES MAGNETIC SWITCH



MAGNETIC SWIT	CH	3610
PART NUMBER	DESCRIPTION	PRICE
EM-HX-21R	Standard 2 wire reed switch Normally open Operating voltage 5 – 240 V DC/AC 2 m lead IP67 rated surge protection	£12.59
EM-HX-21N	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	£39.83
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	£39.83





Camozzi 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.





C₹ CAMOZZ

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 Double-acting
3	Double-acting, through-rod
7	Single-acting, through-rod
005	Materials
Α	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
Α	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)
	occ clarical a crossoc table (right)

2		00	2	00 N		00)4	005 A	5	006	0	07	00	8	
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							ŕ	SC							
STANI	DAR	D 63	r D O	VEC			V	STAN)							
Series	Ø	10	25	40	50	80	100	125	160	200	250	300	320	400	500
16	8		■•									- 50			- 30
16	10														
16	12														
24	16						-	-	-						-
24	20								•						-
24	25				•				•						-
25	16	-				-					•				-
25	20	•	•	•	•	•	-	-	-		•				-
25	25		•				-	-	•	-	•	•	-	-	-

Please contact your distributor for further information

Single-acting

■ Double-acting

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
Α	Rolled 303 stainless steel rod – Aluminium tube profile
006	Bore Size (mm)
	12, 16, 20, 25, 32, 40, 50, 63, 080, 100
007	Design Type
Α	Standard
008	Stroke (mm)
	See standard strokes table (right)

001	002	003	004	005	006	007	800
Z	31			Α		Α	



STANDA	ARD S	TROKE	S							
Ø	5	10	15	20	25	30	40	50	60	80
12	■ X ●	■ X •	■ X	■ X	■ X	■ X	■ X			
16	■X ●	■X ●	■ X ●	■X ●	■X ●	■ X	■ X			
20	■X ●	■ X ●	■ X ●	■X ●	■ X ●	■ X	■ X	■ X		
25	■X●	■ X●	■ X●	■X●	■X●	■ X	■ X	■ X		
32	■ 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

 Double-acting female, male x Non-rotating

 Single-acting female, male

Stroke (mm)

See standard strokes table (right)



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
Α	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
Α	Standard

ISO 21287 COMPACT CYLINDERS - SERIES 32

		 	005	 	
Z	32		A	A	







STANDA	ARD S	TROKE	S							
Ø	5	10	15	20	25	30	40	50	60	80
20	■X ●	■X ●	■ X ●	■X ●	■ X ●	X •	X e	Χø		
25	■X●	■ X●	■ X●	■X●	■ X•	X ●	X •	X •		
32	■X•	■X●	■ X ●	■X ●	■X •	X •	Χø	Χø	Χø	Χø
40	■X ●	■X ●	■ X ●	■X ●	■ X ●	X •	X e	Χø	Χø	X •
50		■ X●	■ X●	■X●	■ X•	X •	X •	ΧΦ	ΧΦ	X •
63		■X •	■ X ●	■X●	■X •	Χø	Χø	Χø	Χø	Χø
80		■ X ●	■ X ●	■X ●	■ X ●	X •	Χø	Χø	Χø	Х●
100		■ X ●	■ X ●	■X●	■ X •	X •	X •	Х●	ΧΦ	X •

Single-acting, front / rear spring, male / female rod thread

> Bore Size (mm) 32, 40, 50, 63, 80, 100, 125

- x Non-rotating
- Double-acting, female, male rod thread

ISO 15552 ALUMINIUM PROFILE CYLINDERS – SERIES 61







STAI	NDAR	D ST	ROK	ES										
Ø	25	50	75	80	100	125	150	160	200	250	300	320	400	500
32	■ X	■ X	■ X	х	х	х	х	х	х	х	х	х	х	х
40	■ X	■ X	■ X	х	х	х	х	х	х	х	х	х	х	х
50	■ X	■ X	■ X	х	х	х	х	х	х	х	х	х	х	х
63	■ X	■ X	■ X	х	х	х	х	х	х	х	х	х	х	х
80	■ X	■ X	■ X	х	х	х	х	х	х	х	х	х	х	х
100		■ X	■ X	х	х	х	х	х	х	х	х	х	х	х
125		х	х	х	х	х	х	х	х	х	х	х	х	х
		-												

■ Single-acting x Double-acting

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
Р	See specifications table
R	420B stainless steel tie-rods, 303 stainless steel tie-rod nuts, other m

007	Design Type
Α	Standard with rod nut
RL	Cylinder with rod lock
800	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
С	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)

- 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
- 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
- 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

rear spring





ISO 15552 ALUMINIUM TUBE & PROFILE CYLINDERS - SERIES 63

Z

001	Code
Z	Camozzi Cylinder
002	Series
63	ISO 15552 Cylinder
	· · · · · · · · · · · · · · · · · · ·
003 M	Version
V	Standard, magnetic Uniform movement (no stick slip), magnetic
L	Low friction, magnetic
004	Construction
T P	Round tube 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)
С	Cushioning on both sides
F	Front cushioning
R	Rear cushioning
007	Bore Size (mm)
	32, 40, 50, 63, 80, 100, 125
800	Construction
Α	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
1	More positions X1/X2 [X1 <x2]< th=""></x2]<>
010	Temperature Range
	Standard (-20°/+80°)
W	High temperatures (150°C)
Z	Low temperatures (-40°C)
Υ	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



front spring





STAN	STANDARD STROKES													
Ø	25	50	75	80	100	125	150	160	200	250	300	320	400	500
32	■ • X	■ • X	■ X	х	х	х	х	х	х	х	Х	х	х	х
40	■ ● X	■ ● X	■ X	х	х	х	х	х	х	х	х	х	х	х
50	■ • X	■ • X	■ X	х	х	х	х	х	х	х	х	х	х	х
63	■●×	■ • X	■ X	х	х	х	х	х	х	х	х	х	х	х
80	■ • X	■ • X	■ X	х	х	х	х	х	х	х	х	х	х	х
100		■ • X	■ X	х	х	х	х	х	х	х	х	х	х	х
125		■ • X	■ X	х	х	х	х	х	х	х	х	х	х	х
■ Sir	■ Single-acting, x Double-acting • Single-acting,					ng,								

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
Н	Hydrolytic environment
Α	Use in food & other frequent washdown applications
G	Dry & dusty environments (with brass rod scraper & chrome-plated 420B stainless steel rod)
В	Cylinder with NBR bellow rod protection
B2	Cylinder with through rod & NBR bellow rod protection on both sides () = extended rod mm
013	Other
Р	Cylinder with RAL 7035 polyurethane coating
014	Certification
EX	ATEX





FOOT MOUNTS

PAIR



PART NUMBER	CYLINDER BORE	SERIES	PRICE
ZB-8-10	8 – 10 mm	16	£6.17
ZB-12/16	12 – 16 mm	16, 24, 25	£7.93
ZB-20-25	20 – 25 mm	16, 24, 25	£9.06



2530 PART NUMBER CYLINDER BORE SERIES PRICE ZDE-32-20 £21.22 20 mm 32 ZDE-32-25 £22.16 25 mm 32 ZDE-41-32 32 mm 32, 61 £11.54 ZDE-41-40 40 mm 32, 61 £12.67 ZDE-41-50 50 mm 32. 61 £15.51 ZDE-41-63 63 mm 32, 61 £18.41 ZDE-41-80 80 mm 32, 61 £26.48 ZDE-41-100 100 mm 32, 61 £34.61

FOOT MOUNTS PAIR

PART NUMBER	CYLINDER BORE	SERIES	PRICE
ZB-32-20	20 mm	32	£3.90
ZB-31-25	25 mm	32	£4.12
ZB-41-32	32 mm	32, 61, 63	£10.08
ZB-41-40	40 mm	32, 61, 63	£11.54
ZB-41-50	50 mm	32, 61, 63	£12.85
ZB-41-63	63 mm	32, 61, 63	£16.30
ZB-41-80	80 mm	32, 61, 63	£19.56
ZB-41-100	100 mm	32, 61, 63	£28.75

FLANGE MOUNTING

PART NUMBER	CYLINDER BORE	SERIES	PRICE
ZE-8-10	8 – 10 mm	16	£2.79
ZE-12/16	12 – 16 mm	16, 24, 25	£3.31
ZE-20/25	20 – 25 mm	16, 24, 25	£4.60

COUNTER BRACKET PAIR

2530

PART NUMBER	CYLINDER BORE	SERIES	PRICE per pair
ZBF-32	32 mm	61	£43.03
ZBF-40-50	40 – 50 mm	61	£53.81
ZBF-63-80	63 – 80 mm	61	£64.15
ZBF-100-125	100 – 125 mm	61	£78.11

CENTRE TRUNNION



2530

PART NUMBER	CYLINDER BORE	SERIES	PRICE
ZF-61-32	32 mm	61	£85.16
ZF-61-40	40 mm	61	£92.53
ZF-61-50	50 mm	61	£107.44
ZF-61-63	63 mm	61	£127.31
ZF-61-80	80 mm	61	£155.82
ZF-61-100	100 mm	61	£176.98

FEMALE REAR TRUNNION



PART NUMBER	CYLINDER BORE	SERIES	PRICE
ZC-41-32	32 mm	32, 61, 63	£13.07
ZC-41-40	40 mm	32, 61, 63	£14.71
ZC-41-50	50 mm	32, 61, 63	£17.89

ROD FORK END



PART NUMBER	CYLINDER BORE	SERIES	PRICE
ZG-8-10	8 – 10 mm	16	£5.93
ZG-12-16	12 – 16 mm	16	£4.14
ZG-20	20 mm	16, 24, 32, 35	£4.25
ZG-25-32	25 – 32 mm	16, 24, 25, 32, 61, 63	£3.84
ZG-40	40 mm	32, 61, 63	£5.93
ZG-50-63	50 – 63 mm	32, 61, 63	£13.44
ZG-80-100	80 – 100 mm	32, 61, 63	£22.91

FEMALE FRONT & REAR TRUNNION



ROD EYE

PART NUMBER	CYLINDER BORE	SERIES	PRICE
ZGA-32	32 mm	61, 63	£24.08
ZGA-40	40 mm	61, 63	£28.48
ZGA-50-63	50 – 63 mm	61, 63	£63.20
ZGA-80-100	80 – 100 mm	61, 63	£81.47



ZGY-32

ZGY-40

ZGY-50-63

ZGY-80-100





SERIES

61, 63

61, 63

61, 63

61, 63

PISTON ROD SOCKET JOINT

PART NUMBER CYLINDER BORE

32 mm

40 mm

50 - 63 mm

80 – 100 mm

2530

PRICE

£25.80

£33.92

£52.21

£77.83

TRUNNION BALL JOINT



PART NUMBER	CYLINDER BORE	SERIES	PRICE
ZR-41-32	32 mm	61, 63	£29.48
ZR-41-40	40 mm	61, 63	£30.88
ZR-41-50	50 mm	61, 63	£33.81
ZR-41-63	63 mm	61, 63	£44.45
ZR-41-80	80 mm	61, 63	£52.85
ZR-41-100	100 mm	61, 63	£71.37



FEMALE FRONT TRUNNION

PART NUMBER	CYLINDER BORE	SERIES	PRICE
ZH-41-32	32 mm	61, 63	£13.07
ZH-41-40	40 mm	61, 63	£14.71
ZH-41-50	50 mm	61, 63	£17.87
ZH-41-63	63 mm	61, 63	£22.35

TRUNNION PIN



PART NUMBER	CYLINDER BORE	SERIES	PRICE
ZS-32	32 mm	32, 61, 63	£3.70
ZS-40	40 mm	32, 61, 63	£4.35
ZS-50	50 mm	32, 61, 63	£4.52
ZS-63	63 mm	32, 61, 63	£6.12
ZS-80	80 mm	32, 61, 63	£6.68
ZS-100	100 mm	32, 61, 63	£7.80



TRUNNION BRACKET

2530

PART NUMBER	CYLINDER BORE	SERIES	PRICE
ZI-8-10	8 – 10 mm	16	£6.58
ZI-12/16	12 – 16 mm	16, 24, 25	£6.73
ZI-20/25	20 – 25 mm	16, 24, 25	£8.86

LOCKING NUT



PART NUMBER	CYLINDER BORE	SERIES	PRICE
ZU-25-32	25 – 32 mm	24, 25, 61, 63	£0.58
ZU-40	40 mm	61, 63	£0.88
ZU-50-63	50 – 63 mm	61, 63	£1.39
ZU-80-100	80 – 100 mm	61, 63	£2.07



MALE REAR TRUM

NOINN	d	N	110	N
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PART NUMBER	CYLINDER BORE	SERIES	PRICE
ZL-32-20	20 mm	32	£18.05
ZL-32-25	25 mm	32	£19.44
ZL-41-32	32 mm	32, 61, 63	£13.07
ZL-41-40	40 mm	32, 61, 63	£14.71
ZL-41-50	50 mm	32, 61, 63	£19.56
ZL-41-63	63 mm	32, 61, 63	£22.91
ZL-41-80	80 mm	32, 61, 63	£29.40
ZL-41-100	100 mm	32, 61, 63	£41.91

90° MALE TRUNNION



PART NUMBER	CYLINDER BORE	SERIES	PRICE
ZZC-32	32 mm	32	£17.12
ZZC-40	40 mm	32	£23.89
ZZC-50	50 mm	32	£25.61
ZZC-63	63 mm	32	£38.42
ZZC-80	80 mm	32	£38.39
ZZC-100	100 mm	32	£58.80





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.

SWITCHES





PART NUMBER	SLOT	WIRE	VOLTAGE	CABLE	PRICE
ZSKR2C01200	Т	2	3 - 130 V AC/DC	2 m	£28.85
ZCSV-220	V	2	10 -110 V AC/DC	2 m	£29.33
ZSKR3C01200	Т	3	5 - 30 V AC/DC	2 m	£42.91
ZCSV-232	V	3	5 - 30 V AC/DC	2 m	£36.01
ZSKR6C01500	Т	2	5 - 230 V AC/DC	5 m	£92.12

MAGNETO RESISTIVE-PNP

ZSKH3C01200	Т	3	3 – 28 V DC	2 m	£62.78
ZCSV-332	V	3	10 – 27 V DC	2 m	£47.60



PART NUMBER	SLOT	WIRE	VOLTAGE	CABLE	PRICE
ZSKR2C01M8	Т	2	5 - 50 V AC/DC	0.3 m	£50.42
ZCSV-250N	V	2	10 - 110 V AC/DC	0.3 m	£47.60
ZSKR3C01M8	Т	3	5 - 30 V AC/DC	0.3 m	£52.65
ZCSV-262	V	3	5 - 30 V AC/DC	0.3 m	£49.38

SWITCHES FOR USE WITH SERIES 63 PROFILE CYLINDERS REED 2530

PART NUMBER	SLOT	WIRE	VOLTAGE	CABLE	PRICE
ZCSH-223-2	Н	2	10 - 30 V AC/DC	2 m	£23.44
ZCSH-233-2	Н	3	10 - 30 V AC/DC	2 m	£27.02

BRACKETS - FOR USE WITH T SLOT TYPE SWITCHES



PART NUMBER	BORE	PRICE
ZSF16	16 mm	£4.42
ZSF20	20 mm	£4.42
ZSF25	25 mm	£4.42





Festo Pneumatic Cylinders



- ★ 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 forceDynamic 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
- 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 highintegrity seals that prevent compressed air leaks, saving you considerable money over time.









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





STANDARD CONFIGURATION		
001	Туре	
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	
Р	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	
Α	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	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





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

STANDARD C	STANDARD CONFIGURATION	
001	Туре	
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	
Α	Via proximity switch	

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



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





STANDARD CONFIGURATION		
001	Туре	
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	
Α	Via proximity switch	
006	Standard	
N3	Conforms to ISO 15552	

Please contact your distributor for further information



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 highintegrity 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.



FATURES

- 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

 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	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		
С	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		

Do you also need?

FESTO

Energy saving regulator LRL, LRLL

- 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°







COMPACT CYLINDERS ADN, TO ISO 21287, DOUBLE-ACTING



001 **ADN** 003

004

005

006



FEATURES

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

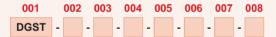
ADN-S ultra short range available on request

STANDARD CONFIGURATION		
001	Туре	
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	
Α	Male Thread	
I	Female thread	
005	Cushioning	
Р	Elastic cushioning rings / plates at both ends	
PPS	Pneumatic cushioning, self-adjusting at both ends	
006	Position Sensing	
Α	Via proximity switch	

Please contact your distributor for further information

PRODU	ICT 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







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	Туре
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
Р	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

ET Elasiomer cushioning, double-sided,	Stion
Y12 Shock absorber, self-adjusting, linea	r at b
006 Position Sensing	

Α	For proximity sensor
007	Special material properties
	None
F1A	Recommended for production facilities for the manufacture of lithium-ion batteries

800	Lubrication
	Standard
H1	Food-safe lubrication



DSBC, ADN & DSNU ACCESSORIES





ROD FORK END

PART NUMBER	TYPE	BORE SIZE FOR DSBC	BORE SIZE FOR ADVC	PRICE
FES6532	SG-M4	_	10 mm	£3.50
FES3110	SG-M6	-	16 mm	£3.50
FES3111	SG-M8	_	20, 25 mm	£3.84
FES6144	SG-M10x1,25	32 mm	32, 40 mm	£5.81
FES6145	SG-M12x1,25	40 mm	50, 63 mm	£8.20
FES6146	SG-M16x1,5	50, 63 mm	80, 100 mm	£14.47
FES6147	SG-M20x1,5	80, 100 mm	125 mm	£38.73
FES14987	SG-M27x2-B	125 mm	_	£93.88



ROD FLOATING JOINT

PART NUMBER	TYPE	PRICE
FES6528	FK-M4	£18.82
FES30984	FK-M5	£18.82
FES2061	FK-M6	£19.00
FES2062	FK-M8	£22.43
FES2063	FK-M10	£30.05
FES6140	FK-M10x1,25	£30.05
FES2064	FK-M12	£30.34
FES6141	FK-M12x1,25	£30.34
FES2065	FK-M16	£71.61
FES6142	FK-M16x1,5	£71.61
FES6143	FK-M20x1,5	£78.49
FES10746	FK-M36x2	£371.20



ROD CLEVIS

PART NUMBER	TYPE	FOR BORE	PRICE
FES32954	SGA-M10X1.25	32, 40 mm	£74.75
FES10767	SGA-M12X1.25	50, 63 mm	£90.44
FES10768	SGA-M16X1.5	80, 100 mm	£99.11



REAR CLEVIS

PART NUMBER	TYPE	FOR BORE	PRICE
FES6057	LBN-8/10	8, 10 mm	£7.32
FES6058	LBN-12/16	12, 16 mm	£8.20
FES6059	LBN-20/25	20, 25 mm	£9.07
FES195860	LBN-32	32 mm	£13.23
FES195861	LBN-40	40 mm	£17.00
FES195862	LBN-50/63	50, 63 mm	£22.28

FOOT MOUNTS

2 PIECES

PART NUMBER	TYPE	FOR BORE	PRICE
FES5124	HBN-8/10X2	8, 10 mm	£4.44
FES5126	HBN-12/16X2	12, 16 mm	£5.47
FES5128	HBN-20/25X2	20, 25 mm	£7.32

ANCE MOUNTING

I LANGE MODITING			3110
PART NUMBER	TYPE	FOR BORE	PRICE
FES5129	FBN-8/10	8, 10 mm	£2.23
FES5130	FBN-12/16	12, 16 mm	£2.28
FES5131	FBN-20/25	20, 25 mm	£2.43



ROD EYE

PART NUMBER	TYPE	PRICE
FES9253	SGS-M4	£13.11
FES9254	SGS-M6	£14.10
FES9255	SGS-M8	£15.45
FES9261	SGS-M10x1,25	£22.57
FES9262	SGS-M12x1,25	£28.44
FES9258	SGS-M16	£44.87
FES9263	SGS-M16X1,5	£44.87
FES9264	SGS-M20X1,5	£55.77



CENTRE TRUNNION

PART NUMBER	TYPE	FOR BORE	PRICE
FES8608	WBN-8/10	8, 10 mm	£17.73
FES8609	WBN-12/16	12, 16 mm	£18.18
FES8610	WBN-20/25	20, 25 mm	£18.59



3110

SWIVEL MOUNTING

PART NUMBER	TYPE	FOR BORE	PRICE
FES539927	SBN-20/25	20, 25 mm	£17.00



T MOUNTS		-	
RT NUMBER	TYPE	FOR BORE	PRI

AIR		-	3110
PART NUMBER	TYPE	FOR BORE	PRICE
FES174369	HNC-32	32 mm	£14.13
FES174370	HNC-40	40 mm	£15.11
FES174371	HNC-50	50 mm	£17.73
FES174372	HNC-63	63 mm	£20.20
FES174373	HNC-80	80 mm	£29.29
FFS174374	HNC-100	100 mm	£35.02

DSBC & ADN ACCESSORIES





FRONT & REAR FLANGE

PART NUMBER	TYPE	FOR BORE	PRICE
FES174376	FNC-32	32 mm	£20.66
FES174377	FNC-40	40 mm	£21.52
FES174378	FNC-50	50 mm	£25.76
FES174379	FNC-63	63 mm	£33.41
FES174380	FNC-80	80 mm	£38.37
FES174381	FNC-100	100 mm	£50.09
FES174382	FNC-125	125 mm	£82.15



MOIII PHIOLE O	221101001		0110
PART NUMBER	TYPE	FOR BORE	PRICE
FES31768	LQG-32	32 mm	£86.00
FES31769	LQG-40	40 mm	£90.30
FES31770	LQG-50	50 mm	£117.53
FES31771	LQG-63	63 mm	£120.74
FES31772	LQG-80	80 mm	£134.30
FES31773	LQG-100	100 mm	£148.92



FRONT REAR TRUNNION

PART NUMBER	TYPE	FOR BORE	PRICE
FES174390	SNCB-32	32 mm	£21.08
FES174391	SNCB-40	40 mm	£22.14
FES174392	SNCB-50	50 mm	£27.97
FES174393	SNCB-63	63 mm	£34.57
FES174394	SNCB-80	80 mm	£44.38
FES174395	SNCB-100	100 mm	£62.98
FES174396	SNCB-125	125 mm	£112.33

MALE REAR TRUNNION

PART NUMBER	TYPE	FOR BORE	PRICE
FES174404	SNCL-32	32 mm	£21.08
FES174405	SNCL-40	40 mm	£22.14
FES174406	SNCL-50	50 mm	£27.97
FES174407	SNCL-63	63 mm	£34.57
FES174408	SNCL-80	80 mm	£44.38
FES174409	SNCL-100	100 mm	£62.98
FES174410	SNCL-125	125 mm	£112.33



FOOT MOUNTS

PAIR

PART NUMBER	TYPE	FOR BORE	PRICE
FES537237	HNA-12	12 mm	£6.13
FES537238	HNA-16	16 mm	£6.44
FES537239	HNA-20	20 mm	£7.17
FES537240	HNA-25	25 mm	£7.25
FES537241	HNA-32	32 mm	£11.86
FES537242	HNA-40	40 mm	£14.06
FES537243	HNA-50	50 mm	£15.11
FES537244	HNA-63	63 mm	£18.18
FES537249	HNA-80	80 mm	£27.97
FES537250	HNA-100	100 mm	£33.69

MULTI-POSITION KIT





3110

3110

PRICE

90° REAR TRUNNION PART NUMBER

FOR BORE

FES33890	LNG-32	32 mm	£23.69
FES33891	LNG-40	40 mm	£27.35
FES33892	LNG-50	50 mm	£31.69
FES33893	LNG-63	63 mm	£33.56
FES33894	LNG-80	80 mm	£47.05
FES33895	LNG-100	100 mm	£55.99
FES33896	LNG-125	125 mm	£86.76

TYPE



MULTI-POSITION KIT

PART NUMBER	TYPE	FOR BORE	PRICE
FES537263	DPNA-12	12 mm	£28.42
FES537264	DPNA-16	16 mm	£28.68
FES537265	DPNA-20	20 mm	£29.88
FES537266	DPNA-25	25 mm	£33.83
FES537267	DPNA-32	32 mm	£37.19
FES537268	DPNA-40	40 mm	£42.19
FES537269	DPNA-50	50 mm	£47.33
FES537270	DPNA-63	63 mm	£54.48
FES537271	DPNA-80	80 mm	£70.31
FES537272	DPNA-100	100 mm	£77.91



<u>×</u>



PROXIMITY SENSORS



FEATURES

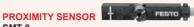
- Switching output via reed contact or non-contacting
- Insertable in the slot from above, does not protrude over the cylinder
- Suitable for use with energy chains
- Cable clip & inscription labels included in the scope of delivery
- · With switching status display
- Types in accordance with ATEX directive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

FEATURES

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

SPECIFICATIONS

	SPECIFICATIONS				
	Design	8M	For T-slot, insertable in the slot from above		
	Design	10M	For C-slot, insertable in the slot from above		
	Switching output,	ZS	N/O contact, 2-wire		
	switching element	PS	PNP, N/O contact, 3-wire		
	function	NS	NPN, N/O contact, 3-wire		
		PO	PNP, N/C contact, 3-wire		
	Rated operating	24 V	DC		
	voltage	2-7 V			
	voltage Cable characteristics	E	Energy chain + robot		
	Cable characteristics	E	Energy chain + robot		
	Cable characteristics Connection	E OE	Energy chain + robot Open end		
	Cable characteristics Connection	E OE M8	Energy chain + robot Open end Cable with plug M8x1, snap-on flange		



3110

PART NUMBER	TYPE	CABLE LENGTH	PRICE
FES574334	SMT-8M-A-PS-24V-E-0,3-M8D	0.3 m	£32.73
FES574337	SMT-8M-A-PS-24V-E-0,3-M12	0.3 m	£33.89
FES574335	SMT-8M-A-PS-24V-E-2,5-OE	2.5 m	£31.55
FES574336	SMT-8M-A-PS-24V-E-5,0-OE	5.0 m	£34.48
FES574342*	SMT-8M-A-PS-24V-E-0,3-M8D-Ex2	0.3 m	£31.98
FES574340	SMT-8M-A-PO-24V-E-7,5-OE	7.5 m	£39.75
FES574338	SMT-8M-A-NS-24V-E-2,5-OE	2.5 m	£33.89
FES574339	SMT-8M-A-NS-24V-E-0,3-M8D	0.3 m	£35.07
FES574341*	SMT-8M-A-ZS-24V-E-5,0-OE-Ex2	5.0 m	£33.64

SMT-10

SMT-8

FES551379	SMT-10M-NS-24V-E-0,3-L-M8D	0.3 m	£44.63
FES551377	SMT-10M-NS-24V-E-2,5-L-OE	2.5 m	£43.46
FES551375	SMT-10M-PS-24V-E-0,3-L-M8D	0.3 m	£42.34
FES551373	SMT-10M-PS-24V-E-2,5-L-OE	2.5 m	£41.17
FES551382	SMT-10M-ZS-24V-E-2,5-L-OE	2.5 m	£41.17



* FES574342 & FES574341 are ATEX approved

PROXIMITY SENSOR ACCESSORIES FOR DSNU CYLINDERS





MOUNTING KIT

PART NUMBER	TYPE	FOR BORE	PRICE
FES175091	SMBR-8-8	8 mm	£5.38
FES175092	SMBR-8-10	10 mm	£5.38
FES175093	SMBR-8-12	12 mm	£5.38
FES175094	SMBR-8-16	16 mm	£5.38
FES175095	SMBR-8-20	20 mm	£5.38
FFS175096	SMBR-8-25	25 mm	£5.38

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







3	9.00		3110
	TYPE	CABLE	PRICE

PART NUMBER	TYPE	CABLE LENGTH	PRICE
FES8059120	SDBT-MSX-1L-PU-E-0.3-N-M8	0.3 m	£38.51
FES8059121	SDBT-MSX-1L-PU-E-2.5-N-LE	2.5 m	£37.14
FES8059122	SDBT-MSX-1L-PU-E-5-N-LE	5.0 m	£40.56
FES8059123	SDBT-MSX-1L-NU-E-0.3-N-M8	0.3 m	£38.51
FES8059124	SDBT-MSX-1L-NU-E-2.5-N-LE	2.5 m	£37.14
FES8059125	SDBT-MSX-1L-NU-E-5-N-LE	5.0 m	£40.56



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

- \bullet 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

DADT NUMBER



RORE

PRICE

PART NUMBER	IIFE	DUKE	FRICE
FES8048142	DFPD-480-RP-90-RS60-F1012	480 mm	£673.27
FES8048127	DFPD-480-RP-90-RD-F1012	480 mm	£573.04
FES8048140	DFPD-300-RP-90-RS60-F0710	300 mm	£406.12
FES8048126	DFPD-300-RP-90-RD-F0710	300 mm	£378.36
FES8048138	DFPD-240-RP-90-RS60-F0710	240 mm	£357.22
FES8048125	DFPD-240-RP-90-RD-F0710	240 mm	£327.03
FES8048136	DFPD-160-RP-90-RS60-F0710	160 mm	£292.95
FES8048124	DFPD-160-RP-90-RD-F0710	160 mm	£269.41
FES8048134	DFPD-120-RP-90-RS60-F0507	120 mm	£256.20
FES8048123	DFPD-120-RP-90-RD-F0507	120 mm	£236.20
FES8047626	DFPD-80-RP-90-RS60-F0507	80 mm	£204.51
FES8047616	DFPD-80-RP-90-RD-F0507	80 mm	£172.30
FES8047624	DFPD-40-RP-90-RS60-F0507	40 mm	£153.11
FES8047615	DFPD-40-RP-90-RD-F0507	40 mm	£125.31
FES8047622	DFPD-20-RP-90-RS60-F04	20 mm	£122.84
FES8047614	DFPD-20-RP-90-RD-F04	20 mm	£100.24
FES8047613	DFPD-10-RP-90-RD-F03	10 mm	£81.66

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

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)

POSITIONER

PART NUMBER	TYPE	PRICE
FES3929539	CMSX-P-SE-C-U-F1-D-130-A	£781.66
FES3929370	CMSX-P-S-C-U-F1-S-50-A	£556.70
FES3929313	CMSX-P-S-C-U-F1-D-50-A	£685.94
FES2110841	CMSX-P-S-C-U-F1-D-50-C-G1	£580.96

LIMIT SWITCH BOX

3110

PART NUMBER	TYPE	PRICE
FES3482807	SRBC-CA3-YR90-N-20N-ZC-C2P20	£177.08
FES3482808	SRBC-CA3-YR90-N-1-P-C2P20	£170.48
FES3482805	SRBC-CA3-YR90-MW-22A-1W-C2P20	£65.33

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 as with princips force retention per
- 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

New

PARALLEL GRIPPERS

3110



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.
- 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
- \bullet 3/2, 5/2 and 5/3 manual and pneumatic valves
- 3/2, 5/2, 5/3 and 4/3 manual and mechanical valves
- \bullet 3/2, 5/2 manual and mechanical valves
- 3/2, 5/2 manual valves













3630

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



Т	PART NUMBER	FUNCTION	BODY SIZE	PORT SIZE	PRICE
	EM-RVA3211-06Q	3/2	18 mm	1/8"	£46.01
	EM-RVA3221-08Q	3/2	22 mm	1/4"	£43.73
	EM-RVA3231-10Q	3/2	27 mm	3/8"	£53.74
	EM-RVA3241-15	3/2	34 mm	1/2"	£86.31

* Air return for products ending in Q

RV SERIES PILOT VALVE 5/3 DOUBLE PILOT **CENTRE CLOSED**





NORMALLY CLOSED

PART NUMBER FUNCTION BODY SIZE PORT SIZE PRICE EM-RVA3212-06 3/2 18 mm 1/8 £61.78 EM-RVA3222-08 3/2 22 mm 1/4" £63.60 EM-RVA3232-10 3/2 27 mm 3/8" £75.46 EM-RVA3242-15 3/2 34 mm 1/2" £114.97



RV SERIES PILOT VALVE 5/3 DOUBLE PILOT PRESSURED CENTRE

PART NUMBER	FUNCTION	BODY SIZE	EXHAUST	INLET	PRICE	
EM-RVA5312P-06	5/3	18 mm	1/8"	1/8"	£154.11	
EM-RVA5322P-08	5/3	22 mm	1/8"	1/4"	£92.39	
EM-RVA5332P-10	5/3	27 mm	1/4"	3/8"	£120.16	
EM-RVA5342P-15	5/3	34 mm	1/2"	1/2"	£154.11	

RV SERIES PILOT VALVE

5/2 SINGLE PILOT SPRING RETURN

	PART NUMBER	FUNCTION	BODY SIZE	EXHAUST	INLET	PRICE
) E	EM-RVA5211-06Q	5/2	18 mm	1/8"	1/8"	£43.88
E	EM-RVA5221-08Q	5/2	22 mm	1/8"	1/4"	£41.71
E	EM-RVA5231-10Q	5/2	27 mm	1/4"	3/8"	£51.14
) E	EM-RVA5241-15	5/2	34 mm	1/2"	1/2"	£82.16

RV SERIES PILOT VALVE 5/3 DOUBLE PILOT **CENTRE EXHAUST**

3630

PART NUMBER	FUNCTION	BODY SIZE	EXHAUST	INLET	PRICE
EM-RVA5312E-06	5/3	18 mm	1/8"	1/8"	£110.65
EM-RVA5322E-08	5/3	22 mm	1/8"	1/4"	£92.39
EM-RVA5332E-10	5/3	27 mm	1/4"	3/8"	£120.16
EM-RVA5342E-15	5/3	34 mm	1/2"	1/2"	£154.11





RV SERIES PILOT VALVE 5/2 DOUBLE PILOT

PART NUMBER	FUNCTION	BODY SIZE	EXHAUST	INLET	PRICE
EM-RVA5212-06	5/2	18 mm	1/8"	1/8"	£61.78
EM-RVA5222-08	5/2	22 mm	1/8"	1/4"	£60.60
EM-RVA5232-10	5/2	27 mm	1/4"	3/8"	£71.87
EM-RVA5242-15	5/2	34 mm	1/2"	1/2"	£117.45







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

3640

RV SERIES

3/2 SINGLE SOLENOID NORMALLY CLOSED

	PART NUMBER	FUNCTION	BODY SIZE	PORT SIZE	PRICE
	EM-RV3211-06Q-WX	3/2	18 mm	1/8"	£50.85
	EM-RV3221-08Q-WX	3/2	22 mm	1/4"	£42.75
	EM-RV3241-15-WX	3/2	34 mm	1/2"	£108.25
-					

* Air return available for products ending in Q



RV SERIES 3/2 DOUBLE SOLENOID NORMALLY CLOSED

PART NUMBER	FUNCTION	BODY SIZE	PORT SIZE	PRICE
EM-RV3212-06-WX	3/2	18 mm	1/8"	£88.32
EM-RV3222-08-WX	3/2	22 mm	1/4"	£80.18
EM-RV3242-15-WX	3/2	34 mm	1/2"	£158.78



RV SERIES 5/2 SINGLE SOLENOID

PART NUMBER	FUNCTION	BODY SIZE	EXHAUST	INLET	PRICE
EM-RV5211-06Q-WX	5/2	18 mm	1/8"	1/8"	£50.85
EM-RV5221-08Q-WX	5/2	22 mm	1/8"	1/4"	£42.75
EM-RV5241-15-WX	5/2	34 mm	1/2"	1/2"	£108.25

* Air return available for products ending in Q



RV SERIES 5/2 DOUBLE SOLENOID

PART NUMBER	FUNCTION	BODY SIZE	EXHAUST	INLET	PRICE
EM-RV5212-06-WX	5/2	18 mm	1/8"	1/8"	£88.32
EM-RV5222-08-WX	5/2	22 mm	1/8"	1/4"	£80.18
FM-RV5242-15-WX	5/2	34 mm	1/2"	1/2"	£158.78

Do you also need?					
→ E·MC°	10	Coils			
		Find it on page 372, section six			

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.

RV SERIES 5/3 DOUBLE SOLENOID **CENTRE CLOSED**



UNCTION	BODY SIZE	EXHAUST	INLET	PRICE
5/3	18 mm	1/8"	1/8"	£124.63
5/3	22 mm	1/8"	1/4"	£119.81
5/3	34 mm	1/2"	1/2"	£204.15
	5/3 5/3	5/3 18 mm 5/3 22 mm	5/3 18 mm 1/8" 5/3 22 mm 1/8"	SIZE EXHAUST INLET 5/3 18 mm 1/8" 1/8" 5/3 22 mm 1/8" 1/4"

RV SERIES

5/3 DOUBLE SOLENOID

PRESSURE HELD					364
PART NUMBER	FUNCTION	BODY SIZE	EXHAUST	INLET	PRICE
EM-RV5312P-06-WX	5/3	18 mm	1/8"	1/8"	£129.18
EM-RV5322P-08-WX	5/3	22 mm	1/8"	1/4"	£119.81
E14 DV/50 40D 45 140/	E (0	0.4	4 (01)	4 (01)	00044=

EM-RV5342P-15-WX 5/3 34 mm 1/2 £204.15

RV SERIES

5/3 DOUBLE SOLENOID PRESSURE EXHAUST

	PART NUMBER	FUNCTION	BODY SIZE	EXHAUST	INLET	PRICE
\bigcirc	EM-RV5312E-06-WX	5/3	18 mm	1/8"	1/8"	£129.18
	EM-RV5322E-08-WX	5/3	22 mm	1/8"	1/4"	£119.81
	EM-RV5342E-15-WX	5/3	34 mm	1/2"	1/2"	£204.15

STANDARD NAMUR SOLENOID VALVES

FEATURES Manual override control • Various voltages are available • 5/2-3/2 Interchangeable **SPECIFICATIONS** Working pressure 1.5 to 8 bar Working temperature -5°C to +60°C

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

SINGLE SOLENOID - BODY ONLY









RV SERIES ACCESSORIES

New

RV SERIES COIL C/W PLUG

FOR USE WITH 18 MM BODY SIZE VALVES

PART NUMBER	VOLTAGE	PRICE
EM-XHD-V1-E1	110 / 50 V AC	£9.33
EM-XHD-V1-E2	220 / 50 V AC	£9.33
EM-XHD-V1-E4	24 V DC	£9.33
EM-XHD-V1-E5	12 V DC	£9.33
EM-XHD-V1-E7	24 V AC	£9.32

FOR USE WITH 22 MM & 34 MM BODY SIZE VALVES

EM-XHD-V2-E1	110 / 50 V AC	£8.94
EM-XHD-V2-E2	220 / 50 V AC	£8.94
EM-XHD-V2-E4	24 V DC	£8.94
EM-XHD-V2-E5	12 V DC	£8.94
EM-XHD-V2-E7	24 V AC	£8.97



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.



RV SERIES PLUG CONNECTOR (DIN43650/pg9)

FOR USE WITH 1/8" VALVES

PART NUMBER	VOLTAGE	PRICE
EM-DC-A2TEL	110 / 50 V AC & 220 / 50 V AC	£2.78
EM-DC-A1TEL	24 V AC	£2.78
EM-DC-D1TEL	12 V DC / 24 V DC	£2.78

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

EM-DB-A2ELR	110 / 50 V AC & 220 / 50 V AC	£3.75
EM-DB-A1ELR	24 V AC	£3.75
EM-DB-D1ELR	12 V DC / 24 V DC	£3.75
	EM-DB-A1ELR	EM-DB-A1ELR 24 V AC



PART NUMBER	BODY SIZE	PORT SIZE	PRICE
EM-VBP321	18 mm	1/8"	£3.08
EM-VBP322	22 mm	1/4"	£3.08
EM-VBP324	34 mm	1/2"	£3.24

5 WAY

EM-VBP521	18 mm	1/8"	£3.08
EM-VBP522	22 mm	1/4"	£3.08
EM-VBP524	34 mm	1/2"	£3.47



RV SERIES MANIFOLD

FOR USE WITH 3/2 VALVES

PART NUMBER	NO. OF VALVES	BODY SIZE	PORT SIZE	PRICE
EM-V321-2F	2	18 mm	1/8"	£15.58
EM-V321-4F	4	18 mm	1/8"	£27.98
EM-V321-6F	6	18 mm	1/8"	£40.40
EM-V321-8F	8	18 mm	1/8"	£52.81
EM-V321-10F	10	18 mm	1/8"	£65.53
EM-V322-2F	2	22 mm	1/4"	£15.58
EM-V322-4F	4	22 mm	1/4"	£28.06
EM-V322-6F	6	22 mm	1/4"	£40.55
EM-V322-8F	8	22 mm	1/4"	£53.04
EM-V322-10F	10	22 mm	1/4"	£65.46
EM-V324-2F	2	34 mm	1/2"	£50.73
EM-V324-4F	4	34 mm	1/2"	£92.36
EM-V324-6F	6	34 mm	1/2"	£133.99
EM-V324-8F	8	34 mm	1/2"	£175.63
EM-V324-10F	10	34 mm	1/2"	£217.26

FOR USE WITH 5/2 & 5/3 VALVES

ı	EM-V521-2F	2	18 mm	1/8"	£15.58
	EM-V521-4F	4	18 mm	1/8"	£28.06
ı	EM-V521-6F	6	18 mm	1/8"	£40.55
	EM-V521-8F	8	18 mm	1/8"	£53.04
	EM-V521-10F	10	18 mm	1/8"	£65.53
	EM-V522-2F	2	22 mm	1/4"	£14.26
	EM-V522-4F	4	22 mm	1/4"	£25.67
ı	EM-V522-6F	6	22 mm	1/4"	£37.09
	EM-V522-8F	8	22 mm	1/4"	£48.50
	EM-V522-10F	10	22 mm	1/4"	£59.90
ı	EM-V524-2F	2	34 mm	1/2"	£44.48
	EM-V524-4F	4	34 mm	1/2"	£80.10
ı	EM-V524-6F	6	34 mm	1/2"	£115.72
	EM-V524-8F	8	34 mm	1/2"	£151.34
	EM-V524-10F	10	34 mm	1/2"	£186.96

VP SERIES SOLENOID VALVES



PART NUMBER	FUNCTION	VALVE BODY	PORT SIZE	PRICE
EM-VP321-06E4	3/2	1/8"	1/8"	£38.01









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.
- 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
- 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.



SR SERIES VALVE TERMINAL & ACCESSORIES



3640

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

NO. OF BODY PORT PART NUMBER PRICE VALVES SIZE SIZE EM-S1R3S-06E4 3 1 Series 1/8" £150.41 EM-S1R4S-06E4 4 1 Series 1/8" £194.95 EM-S1R5S-06E4 5 1 Series £242.39 1/8 EM-S1R6S-06E4 £289.85 6 1 Series 1/8 FM-S1R7S-06F4 7 1 Series 1/8" £337.29 EM-S1R8S-06E4 8 1 Series 1/8 £384.72 EM-S1R9S-06E4 9 1 Series 1/8 £432.19 FM-S1R10S-06F4 10 1 Series 1/8 £479.63 EM-S1R11S-06E4 11 1 Series 1/8 £527.06 EM-S1R12S-06E4 12 1 Series 1/8 £574.50 FM-S1R13S-06F4 £621.96 13 1 Series 1/8 EM-S1R14S-06E4 1 Series £669.40 EM-S2R3S-08E4 3 2 Series 1/4" £158.18 EM-S2R4S-08E4 4 2 Series 1/4 £198.83 EM-S2R5S-08E4 5 2 Series 1/4" £247.14 FM-S2R6S-08F4 6 2 Series 1/4" £295.46 EM-S2R7S-08E4 2 Series 1/4" £343.75 EM-S2R8S-08E4 2 Series 1/4" £392.07 EM-S2R9S-08E4 9 1/4 £440.36 2 Series EM-S2R10S-08E4 10 2 Series 1/4 £488.68 EM-S2R11S-08E4 11 2 Series 1/4" £537.00 EM-S2R12S-08E4 2 Series 1/4" £585.29 12 2 Series EM-S2R13S-08E4 1/4" 13 £633.61 EM-S2R14S-08E4 14 2 Series 1/4 £681.93



PART NUMBER LENGTH PRICE

I AIXT NOMBER	OOKE	LLINGIII	INOL	
EM-D15-08-5M	8	5 m	£58.46	
EM-D15-15-5M	15	5 m	£95.46	
DIN GUIDE RAIL WITH GUIDE RAIL CLIP				
PART NUMBER	DESC	RIPTION	PRICE	
EM-D	1 m guide	e rail with clip	£44.09	
DIN GUIDE RAIL	CLIP		3640	
PART NUMBER	DESC	RIPTION	PRICE	
EM-D0	Guide	e rail clip	£22.57	

EM-D0	Guide rail clip	£22.57
		0

BLIND PLATE

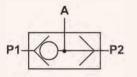
PART NUMBER	SIZE	PRICE
EM-SRBP521	1/8"	£6.24
EM-SRBP522	1/4"	£6.24



MANUAL & PNEUMATIC OPERATED VALVES



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



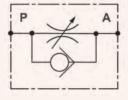


SHUTTLE VALVE (OR GATE)

PART NUMBER	PORT SIZE	PRICE
EM-QS-06	1/8"	£23.50
EM-QS-08	1/4"	£23.50

FLOW REGULATORS

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



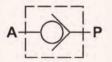


FLOW REGULATOR **UNI DIRECTIONAL**

PART NUMBER	PORT SIZE	PRICE
EM-QSC-06	1/8"	£18.93
EM-QSC-08	1/4"	£24.05
EM-QSC-10	3/8"	£30.67
EM-QSC-15	1/2"	£30.67

SPECIFICATIONS

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



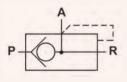


IN-LINE NON-RETURN VALVE

PORT SIZE	PRICE
1/8"	£16.79
1/4"	£16.79
3/8"	£30.44
1/2"	£30.44
	1/8" 1/4" 3/8"

AUTOMATIC VALVES

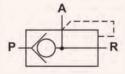
SPECIFICATIONS	
Working pressure	1.5 to 8 bar
Working temperature	-5°C to +60°C

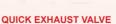




QUICK EXHAUST VALVE

PART NUMBER	PORT SIZE	PRICE
EM-KKP-06	1/8"	£29.09
EM-KKP-08	1/4"	£30.59
EM-KKP-10	3/8"	£47.23
EM-KKP-15	1/2"	£66.70





PART NUMBER

EM-KKP-20

EM-KKP-25

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0	0	<u>*</u> ===	
			;

PORT SIZE

3/4"

3630	
PRICE	
£128.13	

£128.13

3630

3630





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



3/2 LEVER / SPRING

SPRING RETURN

PART NUMBER	FUNCTION	PORT SIZE	PRICE
EM-H321-06S	3/2	1/8"	£51.17
EM-H322-08S	3/2	1/4"	£51.17
EM-H323-10S	3/2	3/8"	£60.89
EM-H324-15S	3/2	1/2"	£74.37







3/2 LEVER / LEVER

DETENTED

PART NUMBER	FUNCTION	PORT SIZE	PRICE
EM-H321-06	3/2	1/8"	£39.35
EM-H322-08	3/2	1/4"	£39.35
EM-H323-10	3/2	3/8"	£46.84
EM-H324-15	3/2	1/2"	£57.17



SPRING TO CENTRE - CENTRES EXHAUST

PART NUMBER FUNCTION PRICE EXHAUST INLET EM-H531E-06S 5/3 1/8" 1/8" £79.40 5/3 1/8" EM-H532E-08S 1/4" £79.40 EM-H533E-10S 5/3 1/4" 3/8" £90.92 EM-H534E-15S 1/2" £109.05 5/3 1/2



5/2 LEVER / SPRING

SPRING RETURN

PART NUMBER	FUNCTION	EXHAUST	INI FT	PRICE
EM-H521-06S	5/2	1/8"	1/8"	£45.26
EM-H522-08S	5/2	1/8"	1/4"	£45.26
EM-H523-10S	5/2	1/4"	3/8"	£66.23
FM-H524-15S	5/2	1/2"	1/2"	£75.69







5/2 LEVER / LEVER

DETENTED

PART NUMBER	FUNCTION	EXHAUST	INLET	PRICE
EM-H521-06	5/2	1/8"	1/8"	£39.35
EM-H522-08	5/2	1/8"	1/4"	£33.99
EM-H523-10	5/2	1/4"	3/8"	£38.79
EM-H524-15	5/2	1/2"	1/2"	£66.08



DETENTED - CENTRES CLOSED

PART NUMBER	FUNCTION	EXHAUST	INLET	PRICE
EM-H531C-06	5/3	1/8"	1/8"	£61.11
EM-H532C-08	5/3	1/8"	1/4"	£61.11
EM-H533C-10	5/3	1/4"	3/8"	£69.94
EM-H534C-15	5/3	1/2"	1/2"	£83.90







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



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

5/3 LEVER / LEVER / LEVER

MANUAL - CENTRES EXHAUST

PART NUMBER	FUNCTION	EXHAUST	INLET	PRICE
EM-H531E-06	5/3	1/8"	1/8"	£61.11
EM-H532E-08	5/3	1/8"	1/4"	£61.11
EM-H533E-10	5/3	1/4"	3/8"	£69.94
EM-H534E-15	5/3	1/2"	1/2"	£83.90

3/2 & 5/2 BUTTON VALVE

DETENTED

3630

3630

PART NUMBER	FUNCTION	PORT SIZE	PRICE
EM-L321-06	3/2	1/8"	£33.99
EM-L322-08	3/2	1/4"	£32.41
EM-L323-10	3/2	3/8"	£42.11
EM-L324-15	3/2	1/2"	£53.30
EM-L521-06	5/2	1/8"	£35.56
EM-L522-08	5/2	1/4"	£35.56
EM-L523-10	5/2	3/8"	£43.21
EM-L524-15	5/2	1/2"	£59.06



E/2	1 =\/	ED /	LEVER	/ I E\/	ED
JIJ				. / LEV	ER

MANUAL - PRESSURED CENTRES

PART NUMBER	FUNCTION	EXHAUST	INLET	PRICE
EM-H531P-06	5/3	1/8"	1/8"	£61.11
EM-H532P-08	5/3	1/8"	1/4"	£61.11
EM-H533P-10	5/3	1/4"	3/8"	£69.94
EM-H534P-15	5/3	1/2"	1/2"	£83.90

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



4/3 ROTARY LEVER VALVE

PART NUMBER	FUNCTION	PORT SIZE	PRICE
EM-R432-08	4/3	1/4" BSPP	£38.00
EM-R432-10	4/3	3/8" BSPP	£38.00
EM-R432-15	4/3	1/2" BSPP	£38.00

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

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





FOOT VALVE

PART NUMBER	FUNCTION	DESCRIPTION	PORT SIZE	PRICE
EM-F322-08	3/2	Foot valve no cover	1/4"	£45.56
EM-F422-08	4/2	Foot valve no cover	1/4"	£48.82
EM-F522C-08L	5/2	Foot pedal with	1/4"	£86.08





M style body

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



PUSH BUTTON SPRING RETURN VALVE

FLAT BUTTON

PART NUMBER	FUNCTION	PORT SIZE	PRICE
EM-MV32-06S5R	3/2	1/8"	£21.84
EM-M32-08S5R	3/2	1/4"	£30.35
EM-M52-08S5R	5/2	1/4"	£33.97



PUSH BUTTON SPRING RETURN VALVE

RAISED BUTTON

PART NUMBER	FUNCTION	PORT SIZE	PRICE
EM-MV32-06S4G	3/2	1/8"	£21.84
EM-M32-08S4G	3/2	1/4"	£30.35
EM-M52-08S4G	5/2	1/4"	£33.97



PALM BUTTON SPRING RETURN VALVE

PART NUMBER	FUNCTION	PORT SIZE	PRICE
EM-MV32-06S6R	3/2	1/8"	£21.84
EM-M32-08S6R	3/2	1/4"	£30.35
FM-M52-08S6R	5/2	1/4"	£33.97



3630

TWIST LOCK PALM SWITCH VALVE

PART NUMBER	FUNCTION	PORT SIZE	PRICE
EM-MV32-06S3R	3/2	1/8"	£21.84
EM-M32-08S3R	3/2	1/4"	£30.35
EM-M52-08S3R	5/2	1/4"	£33.97

Alternative button colours available upon request

> Lead times to be advised



3/2 ROLLER LEVER VALVE

2 ROLLER LEVER VALVE			3630
PART NUMBER	FUNCTION	PORT SIZE	PRICE
EM-MV32-06S2	3/2	1/8"	£21.84
EM-MJ32-08S2	3/2	1/4"	£30.35
EM-M52-08S2	5/2	1/4"	£33.97



TWO POSITION SELECTOR **SWITCH VALVE** WITH INDICATING ARROW

PART NUMBER	FUNCTION	PORT SIZE	PRICE
EM-MV32-06S1B	3/2	1/8"	£21.84
EM-M32-08S1B	3/2	1/4"	£30.35
EM-M52-08S1B	5/2	1/4"	£33.97



BASIC - NO BUTTON VALVES

SPRING RETURN

PART NUMBER	FUNCTION	PORT SIZE	PRICE
EM-MV322-06S7	3/2	1/8"	£19.40
EM-M32-08S7	3/2	1/4"	£30.35
EM-M52-08S7	5/2	1/4"	£33.99







MANUAL & MECHANICAL VALVE WITH MANUAL OPERATING HEADS



PUSH BUTTON SHROUDED S5 VALVE HEAD

PART NUMBER	TO SUIT	PRICE
EM-M32-06S5R-P01	M32, M52 & MV32 valves	£10.17

PALM TWIST UNLOCK

S3 VALVE HEAD 3630 PART NUMBER TO SUIT PRICE EM-M32-06S3R-P01 M32, M52 & MV32 valves £10.17



PUSH BUTTON RAISED S4 VALVE HEAD

PART NUMBER	TO SUIT	PRICE
EM-M32-06S4G-P01	M32, M52 & MV32 valves	£10.17

TWO POSITION SELECTOR **S1 BLACK VALVE HEAD**





EM-M32-06S6R-P01 M32, M52 & MV32 valves £10.17







Festo Valves

Pneumatically and mechanically actuated industrial process valves and media valves

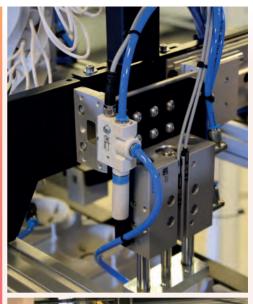
Festo's process and media valves are designed to regulate and control both liquids and gases. These valves are used in a variety of applications such as process automation, factory automation, filling and dispensing, cooling, heating/preheating, lubrication, steam distribution, and in machinery such 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





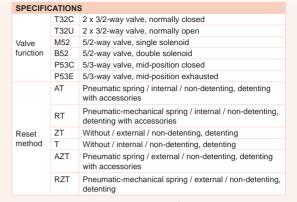


VUVG SERIES

FEATURES



- 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





VUVG SERIES IN-LINE VALVE / INDIVIDUAL VALVE

10 MM WIDTH

PART NUMBER	TYPE	THREAD	PRICE
FES8042540	VUVG-LK10-B52-T-M5-1H2L-S	M5	£69.62
FES8042544	VUVG-LK10-B52-T-M5-1R8L-S	M5	£81.22
FES8042548	VUVG-LK10-B52-T-M7-1H2L-S	M7	£72.78
FES8042552	VUVG-LK10-B52-T-M7-1R8L-S	M7	£84.37
FES8042539	VUVG-LK10-M52-AT-M5-1H2L-S	M5	£50.63
FES8042543	VUVG-LK10-M52-AT-M5-1R8L-S	M5	£56.43
FES8042547	VUVG-LK10-M52-AT-M7-1H2L-S	M7	£53.78
FES8042551	VUVG-LK10-M52-AT-M7-1R8L-S	M7	£59.58
FES8042538	VUVG-LK10-T32C-AT-M5-1H2L-S	M5	£73.82
FES8042546	VUVG-LK10-T32C-AT-M7-1H2L-S	M7	£77.00
FES8042550	VUVG-LK10-T32C-AT-M7-1R8L-S	M7	£88.59

14 MM WIDTH

FES8042564	VUVG-LK14-B52-T-G18-1H2L-S	G1/8	£75.96
FES8042568	VUVG-LK14-B52-T-G18-1R8L-S	G1/8	£87.53
FES8042563	VUVG-LK14-M52-AT-G18-1H2L-S	G1/8	£56.96
FES8042567	VUVG-LK14-M52-AT-G18-1R8L-S	G1/8	£62.76
FES8042562	VUVG-LK14-T32C-AT-G18-1H2L-S	G1/8	£80.16
FES8042566	VUVG-LK14-T32C-AT-G18-1R8L-S	G1/8	£91.75

18 MM WIDTH

FES8031532	VUVG-L18-M52-MT-G14-1R8L	G1/4	£93.19
FES8031531	VUVG-L18-M52-RT-G14-1R8L	G1/4	£89.61
FES8031534	VUVG-L18-P53C-T-G14-1R8L	G1/4	£140.52

VUVG SERIES SUB-BASE VALVE

10 MM WIDTH

3110



3110

PART NUMBER	TYPE	PRICE
FES566487	VUVG-B10-T32C-AZT-F-1P3	£83.88
FES566488	VUVG-B10-T32U-AZT-F-1P3	£83.88
FES566490	VUVG-B10-M52-RZT-F-1P3	£58.77
FES566491	VUVG-B10-B52-ZT-F-1P3	£78.15
FES566492	VUVG-B10-P53C-ZT-F-1P3	£95.34
FES566493	VUVG-B10-P53E-ZT-F-1P3	£95.34
FES8042556	VUVG-BK10-B52-T-F-1H2L-S	£66.98
FES8042560	VUVG-BK10-B52-T-F-1R8L-S	£78.57
FES8042555	VUVG-BK10-M52-AT-F-1H2L-S	£47.99
FES8042554	VUVG-BK10-T32C-AT-F-1H2L-S	£71.20
FES8042558	VUVG-BK10-T32C-AT-F-1R8L-S	£82.79

14 MM WIDTH

FES566513	VUVG-B14-T32C-AZT-F-1P3	£92.49
FES566514	VUVG-B14-T32U-AZT-F-1P3	£92.49
FES566516	VUVG-B14-M52-AZT-F-1P3	£67.39
FES566517	VUVG-B14-B52-ZT-F-1P3	£86.74
FES566518	VUVG-B14-P53C-ZT-F-1P3	£103.96
FES566519	VUVG-B14-P53E-ZT-F-1P3	£103.96
FES8042572	VUVG-BK14-B52-T-F-1H2L-S	£73.32
FES8042576	VUVG-BK14-B52-T-F-1R8L-S	£84.89
FES8042571	VUVG-BK14-M52-AT-F-1H2L-S	£54.32
FES8042575	VUVG-BK14-M52-AT-F-1R8L-S	£60.12
FES8042570	VUVG-BK14-T32C-AT-F-1H2L-S	£77.54
FES8042574	VUVG-BK14-T32C-AT-F-1R8L-S	£89.13



VUVG SERIES





SEAL VABD-L1-10X

10 MM SIZE 3110

PART NUMBER FES566672	TYPE VABD-L1-10X-S-M5	THREAD M5	PRICE £1.86	
FES566673	VABD-L1-10X-S-M7	M7	£1.86	
14 MM SIZE				
FES566675	VABD-L1-14X-S-G18	G1/8	£1.86	



MANIFOLD RAIL VABM FOR INDIVIDUAL VALVE VUVG-L WITH SEAL VABM-L1-10X

10 MM SIZE 3110

PART NUMBER	TYPE	THREAD	VALVE POS.	PRICE
FES566558	VABM-L1-10S-G18-2	G1/8	2	£43.01
FES566559	VABM-L1-10S-G18-3	G1/8	3	£50.18
FES566560	VABM-L1-10S-G18-4	G1/8	4	£57.36
FES566562	VABM-L1-10S-G18-6	G1/8	6	£71.68
FES566564	VABM-L1-10S-G18-8	G1/8	8	£86.03
FES566566	VABM-L1-10S-G18-10	G1/8	10	£100.36
FES576363	VABM-B10-20-G38-2-P53	G3/8	2	£30.10
FES576365	VABM-B10-20-G38-4-P53	G3/8	4	£43.54
FES576367	VABM-B10-20-G38-6-P53	G3/8	6	£56.97
FES576369	VABM-B10-20-G38-8-P53	G3/8	8	£70.39
FES576371	VABM-B10-20-G38-10-P53	G3/8	10	£83.81
FES8026261	VABM-B10-25S-G38-2	G3/8	2	£58.09
FES8026263	VABM-B10-25S-G38-4	G3/8	4	£82.29
FES8026265	VABM-B10-25S-G38-6	G3/8	6	£106.48
FES8026267	VABM-B10-25S-G38-8	G3/8	8	£130.66
FES8026269	VABM-B10-25S-G38-10	G3/8	10	£154.83

14 MM SIZE

FES566618	VABM-L1-14S-G14-2	G1/4	2	£54.50
FES566619	VABM-L1-14S-G14-3	G1/4	3	£63.79
FES566620	VABM-L1-14S-G14-4	G1/4	4	£73.14
FES566622	VABM-L1-14S-G14-6	G1/4	6	£91.78
FES566624	VABM-L1-14S-G14-8	G1/4	8	£110.44
FES566626	VABM-L1-14S-G14-10	G1/4	10	£129.10

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



PART NUMBER	TYPE	THREAD	VALVE POS.	PRICE
FES566582	VABM-L1-10W-G18-2	M5	2	£51.62
FES566583	VABM-L1-10W-G18-3	M5	3	£59.50
FES566584	VABM-L1-10W-G18-4	M5	4	£67.40
FES566586	VABM-L1-10W-G18-6	M5	6	£83.19
FES566588	VABM-L1-10W-G18-8	M5	8	£98.98
FES566590	VABM-L1-10W-G18-10	M5	10	£114.75
FES566606	VABM-L1-10HW-G18-2	M7	2	£51.62
FES566607	VABM-L1-10HW-G18-3	M7	3	£59.50
FES566608	VABM-L1-10HW-G18-4	M7	4	£67.40
FES566610	VABM-L1-10HW-G18-6	M7	6	£83.19
FES566612	VABM-L1-10HW-G18-8	M7	8	£98.98
FES566614	VABM-L1-10HW-G18-10	M7	10	£114.75
FES576417	VABM-B10-20S-G14-2	G1/4	2	£49.29
FES576419	VABM-B10-20S-G14-4	G1/4	4	£67.19
FES576421	VABM-B10-20S-G14-6	G1/4	6	£85.04
FES576423	VABM-B10-20S-G14-8	G1/4	8	£102.93
FES576425	VABM-B10-20S-G14-10	G1/4	10	£120.79
FES8026219	VABM-B10-25-G12-2-P53	G1/2	2	£38.28
FES8026221	VABM-B10-25-G12-4-P53	G1/2	4	£55.59
FES8026223	VABM-B10-25-G12-6-P53	G1/2	6	£72.90
FES8026225	VABM-B10-25-G12-8-P53	G1/2	8	£90.22
FES8026227	VABM-B10-25-G12-10-P53	G1/2	10	£107.52
FES8026379	VABM-B10-30S-G12-4	G1/2	4	£157.60
FES8026381	VABM-B10-30S-G12-6	G1/2	6	£213.65
FES8026383	VABM-B10-30S-G12-8	G1/2	8	£269.66
FES8026385	VABM-B10-30S-G12-10	G1/2	10	£325.68
14 MM SIZE				

FES566642	VABM-L1-14W-G14-2	G1/8	2	£63.09
FES566643	VABM-L1-14W-G14-3	G1/8	3	£73.13
FES566644	VABM-L1-14W-G14-4	G1/8	4	£83.15
FES566646	VABM-L1-14W-G14-6	G1/8	6	£103.23
FES566648	VABM-L1-14W-G14-8	G1/8	8	£123.30
FES566650	VABM-L1-14W-G14-10	G1/8	10	£143.37



VUVG SERIES





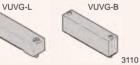
SEPARATOR VABD-B

PART NUMBER	TYPE	SIZE	FOR USE WITH	PRICE
FES569995	VABD-8-B	10	Individual Valve VUVG-L	£22.95
FES569996	VABD-10-B 14 VUVG-I		Individual Valve VUVG-L & Sub-Base Valve VUVG-B	£24.38
FES569994	VABD-6-B	10	Sub-Base Valve VUVG-B	£21.51

COVER VMPA/INSCRIPTION LABEL ASLR/H-RAIL **MOUNTING VAME**



PART NUMBER	TYPE	SIZE	PIECES	PRICE
FES540897	VMPA-HBT-B	10, 14	10	£0.63
FES570818	ASLR-D-L1	10, 14	10	£1.43
FES569998	VAME-T-M4	10, 14	2	£7.17



COVER PLATE VABB

PART NUMBER	TYPE	SIZE	FOR USE WITH	PRICE
FES566462	VABB-L1-10-S	10	Individual Valve VUVG-L	£5.74
FES569989	VABB-L1-14	14	Individual Valve VUVG-L & Sub-Base Valve VUVG-B	£7.17
FES566495	VABB-L1-10-W	10	Sub-Base Valve VUVG-B	£5.74

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



Ī	PART NUMBER	TYPE	SIZE	THREAD	PRICE
	FES569991	VABF-L1-10-P3A4-M5	10	M5	£11.49
	FES569992	VABF-L1-10-P3A4-M7	10	M7	£11.49
	FES569993	VABF-L1-14-P3A4-G18	14	G1/8	£14.33

FEATURES

- LED
- Protective circuit



VAVE SERIES E-BOXES

FLYING LEADS

PART NUMBER	TYPE	LENGTH	VOLTAGE	PRICE
FES566722	VAVE-L1-1VL1-LP	0.5 m	24 & 12 V DC	£7.90
FES566723	VAVE-L1-1VL2-LP	1.0 m	24 & 12 V DC	£8.76
FES566724	VAVE-L1-1VL3-LP	2.5 m	24 & 12 V DC	£11.33

VERTICAL PLUG

FES566715	VAVE-L1-1VH3-LP	_	24 & 12 V DC	£6.47	
HORIZONTAL PLUG					
FES566714	VAVE-L1-1VH2-LP	-	24 & 12 V DC	£6.47	

NEBV SERIES PLUG SOCKET WITH CABLE

2-PIN STRAIGHT SOCKET -**FLYING LEADS, OPEN END**



PART NUMBER	TYPE	CABLE LENGTH	PRICE
FES566654	NEBV-H1G2-KN-0.5-N-LE2	0.5 m	£1.71
FES566655	NEBV-H1G2-KN-1-N-LE2	1.0 m	£2.58
FES566656	NEBV-H1G2-KN-2.5-N-LE2	2.5 m	£5.17

NEBV SERIES PLUG SOCKET WITH CABLE

2-PIN STRAIGHT SOCKET -INDIVIDUAL CABLE, OPEN END

NOT TO SEE ON DEE, OF ERE DIE			0110
PART NUMBER	TYPE	CABLE LENGTH	PRICE
FES566658	NEBV-H1G2-P-0.5-N-LE2	0.5 m	£7.74
FES566659	NEBV-H1G2-P-1-N-LE2	1.0 m	£8.89
FES566660	NEBV-H1G2-P-2.5-N-LE2	2.5 m	£12.33

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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

PART NUMBER	TYPE	PRICE
FES8043215	VUVS-LK20-B52-D-G18-1C1-S	£77.74
FES8043213	VUVS-LK20-M32C-AD-G18-1C1-S	£52.48
FES8043214	VUVS-LK20-M52-AD-G18-1C1-S	£59.19



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SOLENOID VALVES

L30 TYPE

PART NUMBER	TYPE	PRICE
FES575628	VUVS-L30-P53U-MZD-G38-F8-1B2	£143.03
FES575626	VUVS-L30-P53U-MZD-G38-F8-1C1	£143.03







SOLENOID VALVES

LK30 TYPE

PART NUMBER	TYPE	PRICE
FES8049882	VUVS-LK30-B52-D-G38-1B2-S	£94.92
FES8049880	VUVS-LK30-M32C-AD-G38-1B2-S	£64.07
FES8049881	VUVS-LK30-M52-AD-G38-1B2-S	£72.27



SOLENOID VALVES INTERNAL PILOT AIR SUPPLY

L20 TYPE

L20 TYPE

PART NUMBER	TYPE	PRICE
FES575260	VUVS-L20-M32C-MD-G18-F7	£62.11
FES575262	VUVS-L20-M32U-MD-G18-F7	£62.11
FES575250	VUVS-L20-M52-MD-G18-F7	£71.24
FES575251	VUVS-L20-B52-D-G18-F7	£87.24
FES575254	VUVS-L20-P53C-MD-G18-F7	£98.66
FES575252	VUVS-L20-P53E-MD-G18-F7	£98.66
FES575253	VUVS-L20-P53U-MD-G18-F7	£98.66

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

PART NUMBER	TYPE	PRICE
FES575274	VUVS-L20-M32C-MD-G18-F7-1C1	£71.33
FES575276	VUVS-L20-M32U-MD-G18-F7-1C1	£71.33
FES575264	VUVS-L20-M52-MD-G18-F7-1C1	£80.46
FES575265	VUVS-L20-B52-D-G18-F7-1C1	£105.68
FES575268	VUVS-L20-P53C-MD-G18-F7-1C1	£117.15
FES575266	VUVS-L20-P53E-MD-G18-F7-1C1	£117.15
FES575267	VUVS-L20-P53U-MD-G18-F7-1C1	£117.15



PART NUMBER	TYPE	PRICE
FES575259	VUVS-L20-M32C-MZD-G18-F7	£62.11
FES575261	VUVS-L20-M32U-MZD-G18-F7	£62.11
FES575679	VUVS-L20-M52-MZD-G18-F7	£71.24
FES575682	VUVS-L20-B52-ZD-G18-F7	£87.24
FES575685	VUVS-L20-P53C-MZD-G18-F7	£98.66
FES575691	VUVS-L20-P53E-MZD-G18-F7	£98.66
FES575688	VUVS-L20-P53U-MZD-G18-F7	£98.66

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

PART NUMBER	TYPE	PRICE
FES575273	VUVS-L20-M32C-MZD-G18-F7-1C1	£71.33
FES575275	VUVS-L20-M32U-MZD-G18-F7-1C1	£71.33
FES575680	VUVS-L20-M52-MZD-G18-F7-1C1	£80.46
FES575683	VUVS-L20-B52-ZD-G18-F7-1C1	£105.68
FES575686	VUVS-L20-P53C-MZD-G18-F7-1C1	£117.15
FES575692	VUVS-L20-P53E-MZD-G18-F7-1C1	£117.15
FES575689	VUVS-L20-P53U-MZD-G18-F7-1C1	£117.15





VUVS SERIES

FOR VUVS VALVES

PART NUMBER

FES8025330

FES8025335

FES8025337

FES8025334



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FES8025338 VACS-C-C1-3W 230/240 V AC / 50/60 Hz



VES		3110
TYPE	VOLTAGE	PRICE
VACS-C-C1-1	24 V DC	£9.22
VACS-C-C1-1A	24 V AC / 50/60 Hz	£9.22
VACS-C-C1-7A	48 V AC	£9.22
VACS-C-C1-16B	110/120 V AC / 50/60 Hz	£9.22



PART NUMBER	TYPE	PRICE
FES550067	MSSD-N	£2.06

SOLENOID COIL

FOR COIL CONNECTION PATTERN TYPE A SUITABLE FOR VZWM-L



£9.22

PART NUMBER TYPE VOLTAGE TO FIT ARMATURE TUBE PRICE TUBE FES549903 MD-2-24VDC-PA 24 V DC F4 £21.32 FES549904 MD-2-110VAC-PA 110 V AC F4 £21.32 FES549905 MD-2-230VAC-PA 230 V AC F4 £21.32 FES549906 MH-2-24VDC-PA 24 V DC F5 £26.36 FES549907 MH-2-110VAC-PA 110 V AC F5 £26.36 FES549908 MH-2-230VAC-PA 230 V AC F5 £26.36					
FES549904 MD-2-110VAC-PA 110 V AC F4 £21.32 FES549905 MD-2-230VAC-PA 230 V AC F4 £21.32 FES549906 MH-2-24VDC-PA 24 V DC F5 £26.36 FES549907 MH-2-110VAC-PA 110 V AC F5 £26.36		TYPE	VOLTAGE	ARMATURE	PRICE
FES549905 MD-2-230VAC-PA 230 V AC F4 £21.32 FES549906 MH-2-24VDC-PA 24 V DC F5 £26.36 FES549907 MH-2-110VAC-PA 110 V AC F5 £26.36	FES549903	MD-2-24VDC-PA	24 V DC	F4	£21.32
FES549906 MH-2-24VDC-PA 24 V DC F5 £26.36 FES549907 MH-2-110VAC-PA 110 V AC F5 £26.36	FES549904	MD-2-110VAC-PA	110 V AC	F4	£21.32
FES549907 MH-2-110VAC-PA 110 V AC F5 £26.36	FES549905	MD-2-230VAC-PA	230 V AC	F4	£21.32
	FES549906	MH-2-24VDC-PA	24 V DC	F5	£26.36
FES549908 MH-2-230VAC-PA 230 V AC F5 £26.36	FES549907	MH-2-110VAC-PA	110 V AC	F5	£26.36
	FES549908	MH-2-230VAC-PA	230 V AC	F5	£26.36

FEATURES

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



PLUG SOCKET KMEB WITH CABLE

PART NUMBER	TYPE	CABLE LENGTH	SUITABLE FOR COIL VOLTAGE	PRICE
FES151688	KMEB-1-24-2,5-LED	2.5 m	24 V DC	£23.12
FES151689	KMEB-1-24-5-LED	5 m	24 V DC	£26.76
FES193457	KMEB-1-24-10-LED	10 m	24 V DC	£34.04
FES151690	KMEB-1-230AC-2,5	2.5 m	230 V AC	£18.22
FES151691	KMEB-1-230AC-5	5 m	230 V AC	£21.69

FEATURES

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



PLUG SOCKET MSSD

FOR COIL CONNECTION PATTERN TYPE C

PART NUMBER	TYPE	CABLE CONNECTOR	PRICE
FES151687	MSSD-EB	Screw terminal	£2.47

ILLUMINATING SEAL MEB-LD

PART NUMBER	TYPE	VOLTAGE	PRICE
FES151717	MEB-LD-12-24DC	12 – 24 V DC	£15.22
FFS151718	MEB-LD-230AC	230 V DC	£21.47

FEATURES

• For solenoid coils & valves, standard industry port pattern



PLUG SOCKET MSSD TYPE B

PART NUMBER	TYPE	CABLE CONNECTOR	PRICE
FES34431	MSSD-F	Screw terminal	£3.07

SOLENOID COILS			3110
PART NUMBER	TYPE	VOLTAGE	PRICE
FES4527	MSFG-24/42-50/60	24 V DC / 42 V AC	£19.64
FES34411	MSFG-24/42-50/60-OD	24 V DC / 42 V AC	£16.24





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	PRICE
FES577295	VSNC-FC-M52-MD-G14-F8-1B2	5/2-way or 3/2-way	£87.32



VSNC NAMUR SOLENOID VALVE

SINGLE SOLENOID, WITHOUT COIL 9 MM ARMATURE TUBE

PART NUMBER	TYPE	FUNCTION	PRICE	
FES577267	VSNC-FC-M52-MD-G14-FN	5/2-way or 3/2-way	£83.38	



VSNC NAMUR SOLENOID VALVE

DOUBLE SOLENOID, 24 V DC, TYPE B CONNECTOR

PART NUMBER	TYPE	FUNCTION	PRICE
FES577296	VSNC-F-B52-D-G14-F8-1B2	5/2-way	£134.34



8 MM ARMATURE TUBE

PART NUMBER	TYPE	FUNCTION	PRICE
FES577257	VSNC-FC-M52-MD-G14-F8	5/2-way or 3/2-way	£74.79









FINGER LEVER VALVE

HAND LEVER VALVE







PUSH BUTTON VALVE PART NUMBER

FES5299716

FES5299709

FES5299713

FES5299707

FES5299711

FES5299705

FES5299714 FES5299708

FES5299712

TYPE

VHEF-P-B52-G14

VHEF-P-M52-M-G18

VHEF-PTC-B32-G14

VHEF-PTC-B32-G18

VHEF-PTC-M32-M-G14

VHEF-PTC-M32-M-G18

VHEF-PTCZ-B32-G14

VHEF-PTCZ-B32-G18

VHEF-PTCZ-M32-M-G14

FES5299710 VHEF-P-B52-G18

FES5299715 VHEF-P-M52-M-G14

FES5299706 VHEF-PTCZ-M32-M-G18



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3/2

1	PRICE
	£131.86
	£95.90
	£131.86
	£95.90
	£104.33
	£83.47
	£104.33
	£83.47

£109.56

£87.64

£109.56

£87.64

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PART NUMBER	TYPE	FUNCTION	PRICE
FES4500004	VHEF-L-M52-E-G14	5/2	£133.79
FES4500005	VHEF-L-M52-E-G18	5/2	£113.71
FES4500000	VHEF-L-M52-M-G14	5/2	£106.18
FES4500001	VHEF-L-M52-M-G18	5/2	£90.26
FES4500008	VHEF-LT-M32-M-G14	3/2	£85.47
FES4500009	VHEF-LT-M32-M-G18	3/2	£72.66

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SELECTOR VALVE



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PART NUMBER	TYPE	FUNCTION	PRICE
FES4165864	VHEF-HS-B52-G14	5/2	£206.83
FES4165863	VHEF-HS-B52-G18	5/2	£165.46
FES4165866	VHEF-HS-B53C-G14	5/3	£216.69
FES4165865	VHEF-HS-B53C-G18	5/3	£173.35
FES4165868	VHEF-HS-B53E-G14	5/3	£216.69
FES4165867	VHEF-HS-B53E-G18	5/3	£173.35
FES4165856	VHEF-HS-M52-M-G14	5/2	£206.83
FES4165855	VHEF-HS-M52-M-G18	5/2	£165.46
FES4165858	VHEF-HS-P53C-M-G14	5/3	£216.69
FES4165857	VHEF-HS-P53C-M-G18	5/3	£173.35
FES4165860	VHEF-HS-P53E-M-G14	5/3	£216.69
FES4165859	VHEF-HS-P53E-M-G18	5/3	£173.35
FES4165862	VHEF-HST-B32-G14	3/2	£125.90
FES4165861	VHEF-HST-B32-G18	3/2	£100.70
FES4165854	VHEF-HST-M32-M-G14	3/2	£125.90
FES4165853	VHEF-HST-M32-M-G18	3/2	£100.70

PART NUMBER	TYPE	FUNCTION	PRICE
FES4106817	VHEF-ES-B52-G14	5/2	£131.86
FES4106816	VHEF-ES-B52-G18	5/2	£105.50
FES4106819	VHEF-ES-B53C-G14	5/3	£138.14
FES4106818	VHEF-ES-B53C-G18	5/3	£110.50
FES4106821	VHEF-ES-B53E-G14	5/3	£138.14
FES4106820	VHEF-ES-B53E-G18	5/3	£110.50
FES4106809	VHEF-ES-M52-M-G14	5/2	£131.86
FES4106808	VHEF-ES-M52-M-G18	5/2	£105.50
FES4106811	VHEF-ES-P53C-M-G14	5/3	£138.14
FES4106810	VHEF-ES-P53C-M-G18	5/3	£110.50
FES4106813	VHEF-ES-P53E-M-G14	5/3	£138.14
FES4106812	VHEF-ES-P53E-M-G18	5/3	£110.50
FES4106815	VHEF-EST-B32-G14	3/2	£80.27
FES4106814	VHEF-EST-B32-G18	3/2	£64.21
FES4106807	VHEF-EST-M32-M-G14	3/2	£80.27
FES4106806	VHEF-EST-M32-M-G18	3/2	£64.21





STEM ACTUATED VALVE

3110

PART NUMBER	TYPE	FUNCTION	PRICE
FES8031304	VMEF-S-M52-E-G14	5/2	£118.47
FES8031299	VMEF-S-M52-E-G18	5/2	£94.77
FES8031302	VMEF-S-M52-M-G14	5/2	£98.72
FES8031297	VMEF-S-M52-M-G18	5/2	£78.96
FES8031300	VMEF-ST-M32-M-G14	3/2 NO or NC	£60.09
FES8031295	VMEF-ST-M32-M-G18	3/2 NO or NC	£48.08



ROLLER LEVER VALVE

PART FES8 FES FES8 FES8

JLLEK LEVEK	VALVE		3110
PART NUMBER	TYPE	FUNCTION	PRICE
FES8047102	VMEF-K-M52-M-G14	5/2	£141.02
FES8049240	VMEF-K-M52-M-G18	5/2	£112.82
FES8047103	VMEF-KT-M32-M-G14	3/2	£113.52
FES8049241	VMEF-KT-M32-M-G18	3/2	£90.82
FES8047093	VMEF-R-M52-E-G14	5/2	£155.80
FES8047092	VMEF-R-M52-E-G18	5/2	£124.64
FES8047094	VMEF-R-M52-M-G14	5/2	£136.33
FES8049238	VMEF-R-M52-M-G18	5/2	£109.06
FES8047095	VMEF-RT-M32-M-G14	3/2	£109.74
FES8049239	VMEF-RT-M32-M-G18	3/2	£87.80

ACCESSORIES



FRONT PANEL VALVE



3110

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PART NUMBER	TYPE	FUNCTION	PRICE
FES6817	SV-3-M5	3/2 Closed	£54.56
FES11914	SV-5-M5-B	5/2 Closed	£79.13



KEY ACTUATOR

KEY ACTUATOR	400	3110
PART NUMBER	TYPE	PRICE
FES573107	Q-22-B	£91.29
FES9304	Q-30	£94.73



TOGGLE SWITCH

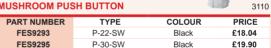
PART NUMBER	TYPE	PRICE
FES9305	H-22-SW	£26.27
FES9306	H-30-SW	£28.33
	4	



SELECTOR SWITCH

SELECTOR SWIT	СН	3110
PART NUMBER	TYPE	PRICE
FES9301	N-22-SW	£19.90
FES9302	N-30-SW	£22.29

MUSHROOM PUSH BUTTON



MUSHROOM PUSH BUTTON WITH DETENT



3110

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PART NUMBER	TYPE	DESCRIPTION	COLOUR	PRICE
FES9297	PR-22-RT	Non-lockable	Red	£22.29
FES9298	PR-30-RT	Non-lockable	Red	£24.19
FES573108	PRS-22-RT-B	Lockable	Red	£98.34
FES9300	PRS-30-RT	Lockable	Red	£104.34



PUSH BUTTON ACTUATOR

				0110
PART NUMBER	TYPE	FUNCTION	COLOUR	PRICE
FES9290	T-22-GE	3/2	Yellow	£13.90
FES9997	T-22-RT	3/2	Red	£13.90
FES9289	T-22-SW	3/2	Black	£13.90
FES9292	T-30-GE	3/2	Yellow	£15.69
FES10014	T-30-RT	3/2	Red	£15.69
FES9291	T-30-SW	3/2	Black	£15.69



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	j .	
	FP	Freely programmable, N/O contact, N/C contact
Output function	0	Threshold value with fixed hysteresis, 1 teach-in pressure, N/O contact
	С	Threshold value with fixed hysteresis, 1 teach-in pressure, N/C contact
	01	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
	О3	O3 Window comparator with fixed hysteresis, 2 teach-in pressures, N/O contact
Electrical output	Р	1 switching output PNP





SDE5 PRESSURE SENSORS

3160

PART NUMBER	TYPE	PRESSURE RANGE (BAR)	PRICE
FES542887	SDE5-V1-FP-Q6-P-M8	-1 to 0	£82.39
FES527461	SDE5-V1-O-Q6E-P-M8	-1 to 0	£82.39
FES527458	SDE5-V1-O-Q6-P-M8	-1 to 0	£83.93
FES527460	SDE5-V1-O-Q4E-P-M8	-1 to 0	£82.39
FES527457	SDE5-V1-O-Q4-P-M8	-1 to 0	£83.93
FES542886	SDE5-V1-O1-Q6-P-M8	-1 to 0	£83.93
FES542888	SDE5-D2-O-Q6E-P-K	0 to 2	£84.51
FES542897	SDE5-D10-FP-Q6E-P-M8	0 to 10	£80.86
FES542898	SDE5-D10-FP-Q6-P-M8	0 to 10	£82.39
FES542901	SDE5-D10-FP-Q4E-P-K	0 to 10	£82.98
FES542900	SDE5-D10-FP-Q4E-P-M8	0 to 10	£80.86
FES542899	SDE5-D10-FP-Q6-P-K	0 to 10	£84.51
FES527467	SDE5-D10-O-Q6E-P-M8	0 to 10	£82.39
FES542890	SDE5-D10-O-Q6E-P-K	0 to 10	£84.51
FES527464	SDE5-D10-O-Q6-P-M8	0 to 10	£83.95
FES527466	SDE5-D10-O-Q4E-P-M8	0 to 10	£82.39
FES527463	SDE5-D10-O-Q4-P-M8	0 to 10	£83.93
FES542894	SDE5-D10-C-Q6E-P-M8	0 to 10	£82.39
FES542889	SDE5-D10-C-Q4E-P-M8	0 to 10	£82.39
FES542895	SDE5-D10-C-Q6E-P-K	0 to 10	£84.51
FES542892	SDE5-D10-O2-Q6-P-M8	0 to 10	£83.93
FES542891	SDE5-D10-O2-Q6E-P-M8	0 to 10	£82.39

PRESSURE SENSOR ACCESSORIES



SDE5 CONNECTING CABLES

CONNECTING CABLES ANGLED SOCKET

PART NUMBER	TYPE	CABLE LENGTH	PRICE
FES541338	NEBU-M8W3-K-2.5-LE3	2.5 m	£8.77
FES541341	NEBU-M8W3-K-5-LE3	5.0 m	£12.96
FES541335	NEBU-M8W3-K-10-LE3	10.0 m	£21.39
FES575833	NEBU-M8W4-K-10-LE4	10.0 m	£24.09



CONNECTING CABLES STRAIGHT SOCKET

3	1	1	ì

PART NUMBER			
PART NUMBER	TYPE	CABLE LENGTH	PRICE
FES541333	NEBU-M8G3-K-2.5-LE3	2.5 m	£8.77
FES541334	NEBU-M8G3-K-5-LE3	5.0 m	£12.96
FES541363	NEBU-M12G5-K-2.5-LE3	2.5 m	£11.13
FES550326	NEBU-M12G5-K-2.5-LE4	2.5 m	£13.84
FES541330	NEBU-M12G5-K-2.5-LE5	2.5 m	£16.88
FES541364	NEBU-M12G5-K-5-LE3	5.0 m	£15.25
FES541328	NEBU-M12G5-K-5-LE4	5.0 m	£18.18
FES541331	NEBU-M12G5-K-5-LE5	5.0 m	£21.08
FES541332	NEBU-M8G3-K-10-LE3	10.0 m	£21.39
FES541348	NEBU-M8G3-K-2.5-M8G3	2.5 m	£15.57
FES541349	NEBU-M8G3-K-5-M8G3	5.0 m	£19.78
FES554035	NEBU-M8G4-K-2.5-M8G4	2.5 m	£18.35

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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

PART NUMBER	TYPE	PRESSURE RANGE (BAR)	PRICE
FES8035545	SPAN-B2R-G18M-PN-PN-L1	-1 to +1	£101.77
FES8035544	SPAN-P10R-G18M-PN-PN-L1	0 to 10	£101.77

PRESSURE SENSOR ACCESSORIES



SAMH-PN-F FRONT PANEL **INSTALLATION KIT**

PART NUMBER	TYPE	PRICE
FES8035561	SAMH-PN-F	£10.44



PART NUMBER	TYPE	PRICE
FES10773	PEV-1/4-B	£138.76



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SACC-PN-G

P	RO	T	E	СТ	ΓIV	Έ	C	O١	VE	ER

PART NUMBER	TYPE	PRICE
FES8035560	SACC-PN-G	£8.08



CABLE PART NUMBER **TYPE** PRICE LENGTH FES541342 NEBU-M8G4-K-2.5-LE4 2.5 m £11.54 FES541343 NEBU-M8G4-K-5-LE4 5.0 m £15.73

M8x1 4-WIRE ANGLED SOCKET

FES541344	NEBU-M8W4-K-2.5-LE4	2.5 m	£11.54
FES541345	NEBU-M8W4-K-5-LE4	5.0 m	£15.73



SAMH-PU-A

MOUNTING BRACKET

PART NUMBER	TYPE	PRICE
FES8003354	SAMH-PU-A	£7.65









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

- Manually operated valves
- Automatic valves



2530

2530



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.





STANDARD SOLENOID VALVES

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PART NUMBER	FUNCTION	PORT SIZE	ORIFICE SIZE	PRICE
ZA321-0C2	2-Way NC	M5	1.5 mm	£39.76
ZA321-1C2	2-Way NC	1/8"	1.5 mm	£39.76
ZA321-1D2	2-Way NC	1/8"	2.0 mm	£40.92
ZA321-1E2	2-Way NC	1/8"	2.5 mm	£42.26
ZA322-0C2	2-Way NO	M5	1.8 mm	£47.47
ZA322-1C2	2-Way NO	1/8"	1.8 mm	£47.47
ZA331-0C2	3-Way NC	M5	1.5 mm	£33.23
ZA331-1C2	3-Way NC	1/8"	1.5 mm	£33.23
ZA332-0C2	3-Way NO	M5	1.5 mm	£39.62
ZA332-1C2	3-Way NO	1/8"	1.5 mm	£39.62



SOLENOID VALVES FOR MANIFOLD ASSEMBLY SINGLE MANIFOLD BODY TYPE

PART NUMBER	FUNCTION	PORT SIZE	ORIFICE SIZE	PRICE
ZAA31-0C2	3-Way NC	M5	1.5 mm	£42.64
ZAA31-CC2	3-Way NC	ø4 mm	1.5 mm	£44.65



STANDARD SOLENOID VALVE **400 BODY TYPE**

PART NUMBER	FUNCTION	PORT SIZE	ORIFICE SIZE	PRICE
ZA431-1C2	3-Way NC	1/8"	1.5 mm	£43.92



STANDARD SOLENOID VALVE
300 BODY TYPE

300 BODY TYPE				2530
PART NUMBER	FUNCTION	INLET	OUTLET	PRICE
ZA331-3C2	3-Way NC	M5	1/8"	£35.42

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

STANDARD SOLENOID VALVE WITH MANUAL OVERRIDE 300 BODY TYPE

PART NUMBER	FUNCTION	INLET	OUTLET	PRICE
ZA331-4C2	3-Way NC	M5	1/8	£40.13



STANDARD SOLENOID VALVE

600 BODY TYPE

PART NUMBER	FUNCTION	O-RING	ORIFICE SIZE	PRICE
ZA631-AC2	3-Way NC	Rotatable	1.5 mm	£36.94





ORIFICE PART NUMBER **FUNCTION** O-RING PRICE SIZE ZA531-BC2 3-Way NC Fixed 1.5 mm £37.27

STANDARD SOLENOID VALVE 100 BODY TYPE



ORIFICE PART NUMBER **FUNCTION** O-RING PRICE ZA131-AC2 3-Way NC Rotatable 1.5 mm £35.90

Do you also need?





Find it on pages 395 - 397, section six



SOLENOID / SPRING VALVES - SERIES 3



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)



3/2 SOL / SPRING



PART NUMBER	FUNCTION	PORT SIZE	PRICE
Z338-015-02	3/2 NC	1/8"	£78.31
Z348-015-02	3/2 NO	1/8"	£78.31
5/2 SOL / SPRING	3		

Z358-015-02 £85.56 5/2 1/8



SERIES 3 3/2 SOL / SOL 2530 PART NUMBER FUNCTION PORT SIZE PRICE Z338-011-02 3/2 1/8' £107.92 5/2 SOL / SOL Z358-011-02 1/8' £116.76 5/2 5/3 SOL / SOL Z368-011-02 5/3 CC 1/8' £187.51 £187.51



SERIES 3

5/2 SOL / SPRING **EXTERNAL PILOT**





PART NUMBER	FUNCTION	PORT SIZE	PRICE
Z358-E11-02	5/2	1/8"	£130.28
5/3 SOL / SOL			
Z368-E11-02	5/3 CC	1/8"	£202.22

Z368-E11-02	5/3 CC	1/8"	£202.22
Z378-E11-02	5/3 CO	1/8"	£202.22
Z388-E11-02	5/3 C pressure	1/8"	£207.49

SERIES 3

3/2 SOL / SPRING

CAN BE MOUNTED ON MANIFOLD 2530

PART NUMBER	FUNCTION	PURI SIZE	PRICE
Z338L-015-2	3/2 NC	1/8"	£78.31
Z348L-015-2	3/2 NO	1/8"	£78.31



3/2 SOL / SOL



		=	
PART NUMBER	FUNCTION	PORT SIZE	PRICE
Z338L-011-2	3/2	1/8"	£107.92

Do you also need? **C**< CAMOZZI Coils & plugs Find it on pages 395 - 397, section six



SOLENOID / SPRING VALVES - SERIES 4

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 NI/min, 1/4" = 1250 NI/min, 1/2" = 1800 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 4

3/2 SOL / SOL

SERIES 4 3/2 SOL / SPRING



PART NUMBER	FUNCTION	PORT SIZE	PRICE
Z438-015-22	3/2 NC	1/8"	£95.12
Z434-015-22	3/2 NC	1/4"	£113.38
5/2 SOL / SPRING	3		
Z458-015-22	5/2	1/8"	£98.75

Z458-015-22	5/2	1/8"	£98.75
Z454-015-22	5/2	1/4"	£124.86
Z452-015-50	5/2	1/2"	£224.56
Z452-016-50	5/2	1/2"	£284.91



PART NUMBER FUNCTION PORT SIZE PRICE Z438-011-22 3/2 1/8" £144.21 Z434-011-22 3/2 1/4" £168.31 5/2 SOL / SOL Z458-011-22 £144.21 5/2 1/8" Z454-011-22 5/2 1/4" £168.31 Z452-011-50 5/2 1/2" £230.26 5/3 SOL / SOL

Z468-011-22	5/3 CC	1/8"	£213.06
Z464-011-22	5/3 CC	1/4"	£233.28
Z474-011-22	5/3 CO	1/4"	£233.28



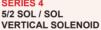
SERIES 4 5/2 SOL / SPRING VERTICAL SOLENOID



2530 DICE

PART NUMBER	FUNCTION	PORT SIZE	PRICE
Z454-V15-22	5/2	1/4"	£131.70
Z454-V16-22	5/2	1/4"	£143.10

SERIES 4
5/2 SOL /





 PART NUMBER
 FUNCTION
 PORT SIZE
 PRICE

 Z454-V11-22
 5/2
 1/4"
 £177.37

Coils & plugs

Find it on pages
395 – 397, section six



ISO 5599/1 SOLENOID & PNEUMATIC VALVES - SERIES 9



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







PART NUMBER	FUNCTION	ISO	PRICE
Z951-P15-23	5/2	1	£103.20
Z952-P15-23	5/2	2	£122.32
Z953-P15-23	5/2	3	£267.10





PART NUMBER	FUNCTION	ISO	PRICE
Z951-P11-23	5/2	1	£143.42
Z952-P11-23	5/2	2	£160.60
Z953-P11-23	5/2	3	£284.59
5/3			
Z961-P11-23	5/3 CC	1	£200.43
Z971-P11-23	5/3 CO	1	£200.43
Z971-P11-23 Z962-P11-23	5/3 CO 5/3 CC	1 2	£200.43 £213.17
	-,	· · · · · · · · · · · · · · · · · · ·	
Z962-P11-23	5/3 CC	2	£213.17
Z962-P11-23 Z972-P11-23	5/3 CC 5/3 CO	2	£213.17 £213.17

PNEU / SPRING 5/2



PART NUMBER	FUNCTION	ISO	PRICE
Z951-000-35	5/2	1	£67.12
Z952-000-35	5/2	2	£84.68
Z953-000-35	5/2	3	£200.38

PNEU / DIFF PNEU 5/2



PART NUMBER	FUNCTION	ISO	PRICE
Z951-000-34	5/2	1	£67.12
Z952-000-34	5/2	2	£86.68
Z953-000-34	5/2	3	£193.38

PNEU / PNEU 5/2



PART NUMBER	FUNCTION	ISO	PRICE
Z951-000-33	5/2	1	£67.12
Z952-000-33	5/2	2	£82.47
Z953-000-33	5/2	3	£193.38
5/3			

5/3			
Z961-000-33	5/3 CC	1	£99.49
Z971-000-33	5/3 CO	1	£99.49
Z962-000-33	5/3 CC	2	£123.46
Z972-000-33	5/3 CO	2	£123.46
Z963-000-33	5/3 CC	3	£247.05
Z973-000-33	5/3 CO	3	£239.15

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 NI/min, Size 2: 1610 NI/min Size 3: 3700 NI/min
Class of insulation	Class H
Protection class	IP54 DIN 40050 (IP65 with DIN 43650/PG9 connector)

SINGLE SUB-BASE

WITH SIDE OUTLETS



OIDE OOTE	2000		
PART NUMBER	INLET / EXHAUST	SIZE	PRICE
Z901-F1A	1/4"	ISO 1	£24.95
Z902-F2A	3/8"	ISO 2	£31.19
Z903-F3A	1/2"	ISO 3	£66.68

SINGLE SUB-BASE

WITH REAR OUTLETS



2530

PART NUMBER	INLET / EXHAUST	SIZE	PRICE	
Z901-G1A	1/4"	ISO 1	£26.73	
Z902-G2A	3/8"	ISO 2	£33.34	
Z903-G3A	1/2"	ISO 3	£66.68	

MANIFOLD SUB-BASE

WITH COMMON EXHAUST & INLET



PART NUMBER	INLET / EXHAUST	SIZE	PRICE
Z901-C1A	1/4"	ISO 1	£27.03
Z902-C2A	3/8"	ISO 2	£33.57
Z903-C3A	1/2"	ISO 3	£95.63

END BLOCK

FOR MANIFOLD SUB-BASE



PART NUMBER	INLET / EXHAUST	SIZE	PRICE
Z901-H1	1/4"	ISO 1	£31.84
Z902-H2	3/8"	ISO 2	£36.63
Z903-H3	1/2"	ISO 3	£97.81

END BLOCK WITH FRONT OUTLET



PART NUMBER	INLET / EXHAUST	SIZE	PRICE
Z901-N1	1/4"	ISO 1	£43.49
Z902-N2	3/8"	ISO 2	£56.17
Z903-N3	1/2"	ISO 3	£79.93

MANIFOLD SUB-BASE

WITH COMMON EXHAUST & INLET



PART NUMBER	INLET / EXHAUST	SIZE	PRICE
Z901-N1A	1/4"	ISO 1	£37.50

END BLOCK FOR MANIFOLD BASES



ı	PART NUMBER	INLET / EXHAUST	SIZE	PRICE
	Z901-HN1	1/4"	ISO 1	£63.77



SOLENOIDS FOR ELECTROPNEUMATICALLY OPERATED VALVES



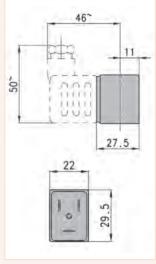
SOLENOID MOD. U7... / U7*EX & MOD. G7...

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	117* = PFT - 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

PART NUMBER

ZA8B24

ZA8D110

ZA8E220

ZA8324

18 MM FORM A



		2530
VOLTAGE		PRICE
50/60 Hz	5 VA	£25.55
50/60 Hz	5 VA	£25.55
50/60 Hz	5 VA	£25.55
DC	4 W	£25.55



SOLENOIDS LATCHING COIL

STANDARD PLUG



2530

PART NUMBER	VOLTAGE		PRICE
ZG9324	24 V	DC	£57.22



SOLENOIDS - PET STANDARD DIN PLUG



24 V

110 V

220 V

24 V

PART NUMBER		VOLTAGE		PRICE
ZU7H	12 V	DC	3.1 W	£17.22
ZU7K	110 V	AC 50/60 Hz	3.8 VA	£17.22
ZU7J	240 V	AC 50/60 Hz	4 VA	£17.22
ZU79	48 V	DC	3.1 W	£17.22
ZU77	48 V	50/60 Hz	3.5 VA	£17.22
ZU72	12 V	DC	5 W	£17.22
ZU73	24 V	DC	5 W	£17.22
ZU74	48 V	DC	5 W	£17.22
<i>7</i> U76	110 V	DC	5 W	£17.22



SOLENOIDS - NYLON STANDARD DIN PLUG

ZG77

11 MM



50/60 Hz

48 V

3.5 VA

£14.86



PART N

2530

SOLENOIDS PRE-WIRED **EXPLOS**

LOSION PRO	OF	EA -00'C 140'C 130'M		2530
RT NUMBER		VOLTAGE		PRICE
ZH8D110	110 V	50/60 Hz	5 VA	£153.50
ZH8E220	220 V	50/60 Hz	5 VA	£153.50
ZH8324	24 V	DC	4 W	£153.50

Size 10.2 mm



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.



SOLENOID DIN CONNECTORS



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





PART NUMBER	TYPE (LED VOLTAGE AC/DC)	CABLE ENTRY	PRICE
ZKB2000B9	Black	PG9	£2.51
ZKB2V54T9	Transparent (24 V LED)	PG9	£13.07
ZKB2V55T9	Transparent (115 V LED)	PG9	£13.07
ZKB2V56T9	Transparent (230 V LED)	PG9	£13.56

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



PART NUMBER	DESCRIPTION	PRICE
Z121-803	With 300 mm cable	£5.82
Z121-806	With 600 mm cable	£8.16
Z121-810	With 1000 mm cable	£10.77

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



PART NUMBER	TYPE (VOLTAGE AC/DC)	CABLE ENTRY	PRICE
ZKA132000B9	Black	PG9	£2.51
ZKA2000A9	Grey	PG9	£2.50

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





SOLENOID DIN CONNECTORS



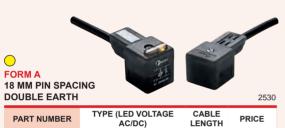
DESCRIPTION

ZMA11000530

ZMA61V54530

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	$3 \times 0.75 \ \text{mm}^2$ conductors PVC H05 VVF $3 \times 0.50 \ \text{mm}^2$ conductors PVC H03 VVF



Cable connector (24 V LED) For use with Series 4 valves - 1/2, Series 6 & A80 coils

3 m

3 m

£11.75

£24.82

Cable connector only



PART NUMBER	TYPE (LED VOLTAGE AC/DC)	CABLE LENGTH	PRICE
ZMB15000530	Cable connector only	3 m	£15.72
ZMB65V54530	Cable connector (24 V LED)	3 m	£24.82
ZMB65V55530	Cable connector (115 V LED)	3 m	£24.82
ZMB65V56530	Cable connector (230 V LED)	3 m	£24.82

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



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



For use with Series EN & Series P valves







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



PNEUMATIC / SPRING

3/2

PART NUMBER	FUNCTION	PORT SIZE	PRICE
Z338-035	3/2	1/8"	£43.23
Z338L-035	3/2	1/8"	£43.23
Z438-035	3/2	1/8"	£55.31
Z434-035	3/2	1/4"	£76.97

L - Can be mounted on manifolds

5/2

Z358-035	5/2	1/8"	£45.73
Z458-035	5/2	1/8"	£61.38
Z454-035	5/2	1/4"	£77.18
Z452-035	5/2	1/2"	£219.82



2530

PNEUMATIC / PNEUMATIC 3/2



253

PART NUMBER	FUNCTION	PORT SIZE	PRICE
Z338-033	3/2	1/8"	£48.05
Z338L-033	3/2	1/8"	£48.05
Z438-033	3/2	1/8"	£57.80
Z434-033	3/2	1/4"	£76.97

L - Can be mounted on manifolds

5/2

Z358-033	5/2	1/8"	£50.43
Z458-033	5/2	1/8"	£62.34
Z454-033	5/2	1/4"	£81.64
Z452-033	5/2	1/2"	£212.58

5/3

Z468-033	5/3 CC	1/8"	£104.71
Z464-033	5/3 CC	1/4"	£119.88
Z474-033	5/3 CO	1/4"	£119.88



2530

PNEUMATIC / PNEUMATIC DIFFERENTIAL

3/2

<u></u>			
PART NUMBER	FUNCTION	PORT SIZE	PRICE
Z438-034	3/2	1/8"	£64.97
Z434-034	3/2	1/4"	£79.11
5/2			
Z458-034	5/2	1/8"	£64.97
Z454-034	5/2	1/4"	£83.79
Z452-034	5/2	1/2"	£212.58





MECHANICALLY OPERATED MINI VALVES - SERIES 2



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.	

Aluminium valve body, NBR seals, OT58 brass poppet & plunger, stainless steel spools

yer, staffiess steer spuois



£24.48

4 mm

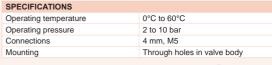
PLUNGER 3/2

Materials

 PART NUMBER
 FUNCTION
 PORT SIZE
 PRICE

 Z235-945
 3/2
 M5
 £20.14

3/2





PANEL MOUNTED PLUNGER

3/2

PART NUMBER	FUNCTION	PORT SIZE	PRICE
Z235-985	3/2	M5	£23.41
Z234-985	3/2	4 mm	£27.70



ROLLER LEVER

Z234-945

3/2

٠				
	PART NUMBER	FUNCTION	PORT SIZE	PRICE
	Z235-955	3/2	M5	£26.49
	Z234-955	3/2	4 mm	£30.93

ONE WAY TRIP

3/2

2530

PART NUMBER	FUNCTION	PORT SIZE	PRICE
Z235-965	3/2	M5	£29.68
Z234-965	3/2	4 mm	£33.93

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		



PLUNGER

Z358-945

Z158-945

Z154-945

3/2

PART NUMBER	FUNCTION	PORT SIZE	PRICE
Z338-945	3/2	1/8"	£27.69
Z138-945	3/2 NC	1/8"	£32.24
Z148-945	3/2 NO	1/8"	£37.81
Z134-945	3/2	1/4"	£53.09
5/2			

5/2

5/2

5/2



1/8'

1/8"

ROLLER LEVER ONE WAY TRIP

3/2

3/2			2530
PART NUMBER	FUNCTION	PORT SIZE	PRICE
Z338-965	3/2	1/8"	£51.68
Z138-965	3/2	1/8"	£63.53
5/2			
Z358-965	5/2	1/8"	£52.30

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

2530

£33.78

£58.60

PART NUMBER	FUNCTION	PORT SIZE	PRICE
Z338-955	3/2	1/8"	£39.76
Z138-955	3/2	1/8"	£42.16
Z134-955	3/2	1/4"	£61.47

Z358-955	5/2	1/8"	£42.45
Z158-955	5/2	1/8"	£86.45
Z154-955	5/2	1/4"	£119.92





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



LEVER

3/2

PART NUMBER	FUNCTION	PORT SIZE	PRICE
Z338-D159A5	3/2 NC	1/8"	£78.81
10			

5/2

Z358-D159A5	5/2	1/8"	£83.05

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



PUSH BUTTON

PART NUMBER	FUNCTION	PORT SIZE	PRICE
Z235-895	3/2 NC	M5	£38.90
Z234-895	3/2 NC	4 mm tube	£42.92



KEY LOCKABLE

2530

PART NUMBER	FUNCTION	PORT SIZE	PRICE
Z235-904	3/2 NC	M5	£66.38
Z234-904	3/2 NC	4 mm tube	£70.91



SELECTOR SWITCH

3/2 - 2-POSITION

FUNCTION	PORT SIZE	PRICE
3/2 NC	M5	£50.87
3/2 NC	4 mm tube	£55.32
	3/2 NC	3/2 NC M5





2530

PART NUMBER	FUNCTION	PORT SIZE	PRICE
Z285-870	5/3	M5	£75.19
Z284-870	5/3	4 mm tube	£84.11







PALM SWITCH SPRING RETURN 3/2

PART NUMBER	FUNCTION	PORT SIZE	PRICE
Z235-975	3/2 NC	M5	£52.08
Z234-975	3/2 NC	4 mm tube	£56.54



3/2 2530 PART NUMBER FUNCTION PORT SIZE PRICE Z235-000 3/2 NC M5 £24.38 Z234-000 3/2 NC £28.83 4 mm tube Z245-000 3/2 NO M5 £27.57 Z244-000 3/2 NO £31.27 4 mm tube



PALM SWITCH LATCHING - TWIST TO RELEASE 3/2

PART NUMBER	FUNCTION	PORT SIZE	PRICE
Z235-972	3/2 NC	M5	£57.23
Z234-972	3/2 NC	4 mm tube	£61.68



SINGLE BRACKET PART NUMBER DESCRIPTION PRICE Z210-000 Single £1.86



PALM SWITCH STABLE 3/2

PART NUMBER	FUNCTION	PORT SIZE	PRICE
Z234-970	3/2 NC	4 mm tube	£57.45



	_	2000
PART NUMBER	DESCRIPTION	PRICE
Z220-000	Double	£2.82



JOYSTICK

3/2

PART NUMBER	FUNCTION	PORT SIZE	PRICE
Z235-905	3/2 NC	M5	£53.01

ART NUMBER	FUNCTION	PORT SIZE	PRICE
Z235-905	3/2 NC	M5	£53.01
Z234-905	3/2 NC	4 mm tube	£57.45

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.



SWITCH

3/2

PART NUMBER Z338-990	FUNCTION 3/2 NC	PORT SIZE 1/8"	PRICE £45.73			
5/2						
Z358-990	5/2	1/8"	£50.43			



PUSH BUTTON

3/2

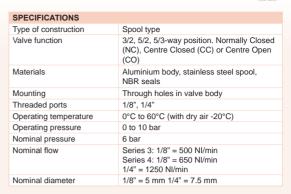
PART NUMBER	FUNCTION	PORT SIZE	COLOUR	PRICE
Z338-895	3/2 NC	1/8"	Black	£38.36
Z338-896	3/2 NC	1/8"	Green	£38.36
Z338-897	3/2 NC	1/8"	Red	£38.36
5/2				
Z358-895	5/2	1/8"	Black	£48.05
Z358-896	5/2	1/8"	Green	£48.05
Z358-897	5/2	1/8"	Red	£48.05



PALM SWITCH

3/2

PART NUMBER	FUNCTION	PORT SIZE	COLOUR	PRICE	
Z338-975	3/2 NC	1/8"	Black	£45.73	
Z338-976	3/2 NC	1/8"	Green	£45.73	
Z338-977	3/2 NC	1/8"	Red	£45.73	
5/2					
Z358-975	5/2	1/8"	Black	£53.12	
Z358-976	5/2	1/8"	Green	£53.12	
Z358-977	5/2	1/8"	Red	£53.12	





PUSH / PULL

Z454-910

2530

5/2			2000
PART NUMBER	FUNCTION	PORT SIZE	PRICE
Z338-910	3/2 NC	1/8"	£33.78
Z434-910	3/2 NC	1/4"	£66.23
5/2			
Z358-910	5/2	1/8"	£38.36

5/2



£71.60

1/4"

PUSH & SPRING RETURN

3/2			2530			
PART NUMBER	FUNCTION	PORT SIZE	PRICE			
Z338-915	3/2 NC	1/8"	£33.78			
Z434-915	3/2 NC	1/4"	£66.23			
5/2						
Z358-915	5/2	1/8"	£38.36			
Z454-915	5/2	1/4"	£71.60			







1/8'

1/4"

LEVER

Z158-900

Z154-900

3/2

PART NUMBER	FUNCTION	PORT SIZE	PRICE
Z138-900	3/2 NC	1/8"	£59.65
Z134-900	3/2 NC	1/4"	£80.87
5/2			

5/2

5/2



£114.12

£138.85

LEVER

3/2

PART NUMBER	FUNCTION	PORT SIZE	PRICE
Z138-935	3/2 NC	1/8"	£39.07
Z134-935	3/2 NC	1/4"	£60.28



Z474-900

Z474-905

5/3 CO

5/3 CO



£93.70

£93.70

1/4"

1/4"

.EVER	
3/2	2530

PART NUMBER	FUNCTION	LEVER/SPRING	PORT SIZE	PRICE
Z338-900	3/2 NC	L/L	1/8"	£45.73
Z338-905	3/2 NC	L/S	1/8"	£47.74
Z434-900	3/2 NC	L/L	1/4"	£81.78
Z434-905	3/2 NC	L/S	1/4"	£81.78
5/2				
Z358-900	5/2	L/L	1/8"	£53.12
Z358-905	5/2	L/S	1/8"	£55.31
Z454-900	5/2	L/L	1/4"	£90.77
Z454-905	5/2	L/S	1/4"	£90.77
5/3				
Z368-900	5/3 CC	L/L/L	1/8"	£61.57
Z368-905	5/3 CC	L/S/L	1/8"	£68.96
Z378-900	5/3 CO	L/L/L	1/8"	£61.57
Z378-905	5/3 CO	L/S/L	1/8"	£68.96
Z464-900	5/3 CC	L/L/L	1/4"	£93.70
Z464-905	5/3 CC	L/S/L	1/4"	£93.70

L/L/L

L/S/L

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.

SPECIFICAT	SPECIFICATIONS - PNEUMATICALLY OPERATED	
Type of cons	truction	Spool type
Valve function	n	3/2 & 5/2
Materials		Valve body AL, stainless steel spool, NBR seals, plastic casing
Assembly		Valve built into pedal body
Operating te	mperature	0°C to 50°C (with dry air -10°C)
Operating pr	essure	2.5 to 8 bar
Rated flow		650 NI/min
Ports		1/4" nas



PNEUMATICALLY OPERATED FOOT VALVE

PART NUMBER	FUNCTION	PRICE
Z354925	5/2	£90.60





PART NUMBER	FUNCTION	PORT SIZE	PRICE
Z235-925	3/2 NC	M5	£77.86
Z234-925	3/2 NC	4 mm tube	£82.39



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.



SHUTTLE VALVE

ZSCS SERIES

PART NUMBER	PORT SIZE	PRICE
ZSCS668-06	1/8"	£21.77

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.

NON RETURN VALVES ZVNR SERIES



PART NUMBER	PORT SIZE	PRICE
ZVNR-205-M5	M5	£14.64
ZVNR210-1/8	1/8"	£12.98
ZVNR84307	1/4"	£22.11

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 Nl/min, 1/8" = 600 Nl/min, 1/4" = 1400 Nl/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.



QUICK EXHAUST VALVES ZVS SERIES

PART NUMBER	PORT SIZE	PRICE
ZVSC588	1/8"	£13.11
ZVSC544	1/4"	£15.68
ZVSC522	1/2"	£24.61

SPECIFICATIONS
Type of construction

Type of construction		roppet type	
Valve group		Automatic	
Materials		OT58 (brass) body. NBR seals ZVSO series. Desmopan seals ZVS series	
Pressure	ZVS 1/8" ZVS 1/4" ZVS 1/2" ZVSO	0.5 bar 0.3 bar 0.2 bar 1 bar	
Operating temper	erature	0°C to 80°C (with dry air -20°C)	
Nominal flow ZVS 1/8" ZVS 1/4" ZVS 1/2" ZVSO		P to A 530 Nl/min, A to R 940 Nl/min P to A 860 Nl/min, A to R 1600 Nl/min P to A 4700 Nl/min, A to R 6250 Nl/min P to A = 50 Nl/min, A to R 330 Nl/min	
Fluid		Filtered air: without lubrication. If lubricated air is used, it is recommended that ISO VG32 oil is used. Once applied the	

Ponnet type

QUICK EXHAUST VALVES

ZVSO SERIES



QUICK EXHAUST VALVES

ZVSO SERIES



lubrication should never be interrupted





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

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



FLOW CONTROL VALVE UNIDIRECTIONAL

PART NUMBER	PORT SIZE	ORIFICE SIZE	PRICE
ZRFU-452	M5	1.5 mm	£16.54
ZRFU-482	1/8"	2.0 mm	£14.95
ZRFU-483	1/8"	3.0 mm	£14.95
ZRFU-444	1/4"	4.0 mm	£24.61
ZRFU-446	1/4"	6.0 mm	£24.61
ZRFU-429	1/2"	9.0 mm	£76.27

BIDIRECTIONAL

ZRFO-352	M5	1.5 mm	£16.54
ZRFO-382	1/8"	2.0 mm	£14.95
ZRFO-383	1/8"	3.0 mm	£14.95
ZRFO-344	1/4"	4.0 mm	£24.61
ZRFO-346	1/4"	6.0 mm	£24.61

BLOCKING VALVES UNIDIRECTIONAL

PART NUMBER	PORT SIZE	PRICE
ZVBU-1/8	1/8"	£44.89
ZVBU-1/4	1/4"	£49.35
ZVBU-3/8	3/8"	£62.60

BIDIRECTIONAL

ZVBO-1/8	1/8"	£44.89
ZVBO-1/4	1/4"	£49.35
ZVBO-3/8	3/8"	£62.60



SLIDE VALVE

OLIDE VALVE		2000
PART NUMBER	PORT SIZE	PRICE
ZVMS-105	M5	£15.28
ZVMS-118	1/8"	£16.61
ZVMS-114	1/4"	£17.75
ZVMS-138	3/8"	£22.93
ZVMS-112	1/2"	£28.27
ZVMS-134	3/4"	£37.96



FEATURES

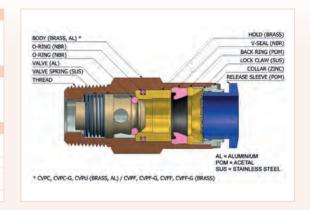
- Suitable for low pressure applications
- Allows compressed air from one side to flow & blocks the inverse flow to protect & maintain the vacuum line
- Easily applied to low pressure piping

APPLICATIONS

- · Used where air should flow in only one direction
- Used where air pressure of the ventilation section should be kept uniformed
- 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	PRICE each
CDCVPC0401	4 mm	1/8" BSPT	£9.06
CDCVPC0601	6 mm	1/8" BSPT	£12.01
CDCVPC0602	6 mm	1/4" BSPT	£12.01
CDCVPC0801	8 mm	1/8" BSPT	£10.75
CDCVPC0802	8 mm	1/4" BSPT	£11.32
CDCVPC1003	10 mm	3/8" BSPT	£23.74
CDCVPC1004	10 mm	1/2" BSPT	£24.98
CDCVPC1203	12 mm	3/8" BSPT	£24.61
CDCVPC1204	12 mm	1/2" BSPT	£25.74



STRAIGHT

METRIC MALE

PART NU	MBEK	TOBE OD	IHKEAD	PRICE each
CDCVPC	04M5	4 mm	M5 x 0.8	£8.48
CDCVPC04M6		4 mm	M6 x 1.0	£8.48
BSPP MALE				
CDCVPC	04G1	4 mm	1/8" BSPP	£9.06
000100			1/01/ 0.000	040.04

CDCVPC04G1	4 mm	1/8" BSPP	£9.06
CDCVPC06G1	6 mm	1/8" BSPP	£12.01
CDCVPC06G2	6 mm	1/4" BSPP	£12.01
CDCVPC08G1	8 mm	1/8" BSPP	£10.75
CDCVPC08G2	8 mm	1/4" BSPP	£11.32
CDCVPC10G3	10 mm	3/8" BSPP	£23.74
CDCVPC10G4	10 mm	1/2" BSPP	£24.98
CDCVPC12G3	12 mm	3/8" BSPP	£24.61
CDCVPC12G4	12 mm	1/2" BSPP	£25.74

THREAD TO THREAD

BUSH

BSPT FEMALE / BSPT MALE

CDCVPF0404



SSPT FEMALE / BSPT MALE			3700
PART NUMBER	FEMALE THREAD	MALE THREAD	PRICE each
CDCVPF0101	1/8" BSPT	1/8" BSPT	£12.01
CDCVPF0202	1/4" BSPT	1/4" BSPT	£11.32
CDCVPF0303	3/8" BSPT	3/8" BSPT	£12.01

1/2" BSPT

BUSH

BSPP FEMALE / BSPP MALE



£22.34

3700

PART NUMBER	FEMALE THREAD	MALE THREAD	PRICE each
CDCVPF01G1	1/8" BSPP	1/8" BSPP	£12.01
CDCVPF02G2	1/4" BSPP	1/4" BSPP	£11.32
CDCVPF03G3	3/8" BSPP	3/8" BSPP	£12.01
CDCVPF04G4	1/2" BSPP	1/2" BSPP	£22.34

1/2" BSPT

STRAIGHT UNIONS

BSPT FEMALE

PART NUMBER	THREAD	PRICE each
CDCVFF01-01	1/8" BSPT	£10.71
CDCVFF02-02	1/4" BSPT	£14.20
CDCVFF03-03	3/8" BSPT	£20.90
CDCVFF04-04	1/2" BSPT	£23.72

METRIC TUBE TO TUBE



STRAIGHT UNIONS

PART NUMBER	TUBE OD	PRICE each
CDCVPU04	4 mm	£9.06
CDCVPU06	6 mm	£12.01
CDCVPU08	8 mm	£12.45
CDCVPU10	10 mm	£28.00
CDCVPU12	12 mm	£29.75



Fitting material aluminium





£54.13

SLIDE & NON-RETURN VALVES

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



NON-RETURN VALVE

METRIC FEMALE

PART NUMBER	THREAD	PRESSURE	PRICE
B/V6062-M5	M5	8 bar	£15.87
NON DETUDNING	1375		

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BSPP	FEM	IALE		

B/V6062-02	1/8" BSPP	8 bar	£15.08
B/V6062-04	1/4" BSPP	8 bar	£18.63
B/V6062-06	3/8" BSPP	8 bar	£40.61
B/V6062-08	1/2" BSPP	8 bar	£41.75

SLIDE VALVE **BSPP FEMALE**

B/V6060-08



1/2" BSPP



10 bar

NON-RETURN VALVE

METRIC MALE / METRIC FEMALE

PART NUMBER	THREAD	THREAD	PRESSURE	PRICE
B/V6063-M5	M5	M5	8 bar	£16.63

BSPP MALE / BSPP FEMALE

B/V6063-02	1/8" BSPP	1/8" BSPP	8 bar	£15.87
B/V6063-04	1/4" BSPP	1/4" BSPP	8 bar	£19.53
B/V6063-06	3/8" BSPP	3/8" BSPP	8 bar	£42.71
B/V6063-08	1/2" BSPP	1/2" BSPP	8 bar	£43.78

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

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	Grev	White	Black
Body	Polypropylene	PVDF	Acetal

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



DUAL TECH VALVE

GREY - EPDM O-RING

PART NUMBER	MALE THREAD	FEMALE THREAD	PRICE
TF-23002504043	1/4" BSPT	1/4" BSPT	£15.01

WHITE - FKM O-RING

TF-23002904041	1/4" BSPT	1/4" BSPT	£31.76

QUATRO TECH VALVE

BSPT MALE FIXED CONNECTOR





DUAL TECH VALVE

BLACK - NBR O-RING

PART NUMBER	MALE THREAD	FEMALE THREAD	PRICE
TF-23002404042	1/4" BSPT	1/4" BSPT	£16.08



QUATRO TECH VALVE

BARB UNION CONNECTOR

PART NUMBER	INLET	HOSE ID	PRICE
TF-23003408083	1/4" BSPT	8 mm	£23.67

