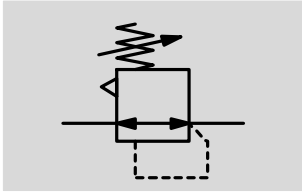


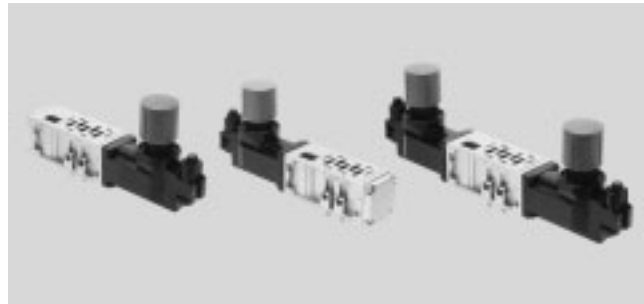
Standard valves to ISO 5599-1, pressure regulator

Accessories

Function



The pressure regulator enables the manual setting of a particular pressure in the regulated port upstream or downstream of the valve.



| General technical data | | | |
|-----------------------------|--------------------------|--------------------------|--------------------|
| Type | VABF-S1-1-R... | VABF-S1-2-R... | LR-ZP-...-3 |
| Width [mm] | 42 | 52 | 65 |
| Based on standard | ISO 5599-1 | ISO 5599-1 | ISO 5599-1 |
| Pneumatic vertical stacking | Pressure regulator | Pressure regulator | Pressure regulator |
| Design | - | - | Piston |
| Regulator function | Output pressure constant | Output pressure constant | - |
| | With secondary venting | With secondary venting | - |
| Mounting position | Any | Any | - |
| Type of mounting | On individual sub-base | On individual sub-base | - |
| | On manifold sub-base | On manifold sub-base | - |
| Optional pressure gauge | Possible | Possible | - |
| Pressure gauge connection | With retaining clamp | With retaining clamp | - |
| Degree of protection | IP65 | IP65 | - |
| | NEMA4 | NEMA4 | - |

| Materials | | | |
|-------------------|--------------------|--------------------|---|
| Type | VABF-S1-1-R... | VABF-S1-2-R... | LR-ZP-...-3 |
| Regulator housing | Die-cast aluminium | Die-cast aluminium | Die-cast aluminium, steel |
| Control section | PA | PA | - |
| Seals | - | - | NBR |
| Note on materials | RoHS-compliant | RoHS-compliant | RoHS-compliant |
| | PWIS-free | PWIS-free | Contains PWIS (paint-wetting impairment substances) |

| Operating and environmental conditions | | | |
|--|--|----------------|--------------------|
| Type | VABF-S1-1-R... | VABF-S1-2-R... | LR-ZP-...-3 |
| Operating medium | Compressed air to ISO 8573-1:2010 [7:4:4] | | - |
| Note on operating/pilot medium | Lubricated operation possible (in which case lubricated operation will always be required) | | - |
| Supply pressure 1 [bar] | +0.5 ... +10 | +0.5 ... +10 | Max. 14 |
| Ambient temperature [°C] | -5 ... +50 | -5 ... +50 | - |
| Certification | - | - | UL Recognised (OL) |

| Product weight | | | |
|----------------|----------------|----------------|-------------|
| Type | VABF-S1-1-R... | VABF-S1-2-R... | LR-ZP-...-3 |
| Regulated port | 1 | 640 g | 1190 g |
| | 2 | 640 g | 1230 g |
| | 4 | 640 g | 1230 g |
| | 2 and 4 | 920 g | 1990 g |

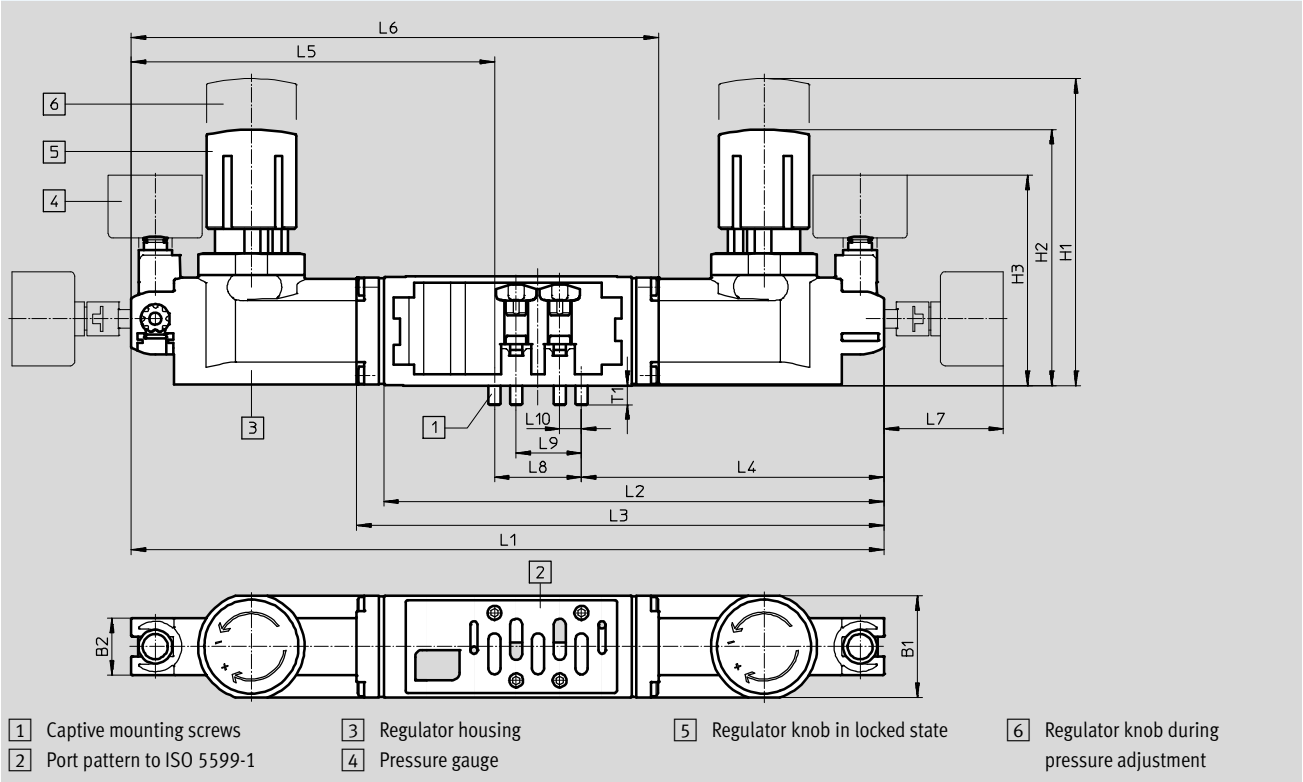
Standard valves to ISO 5599-1, pressure regulator

Accessories

Dimensions

Download CAD data → www.festo.com

VABF-S1-1-..., VABF-S1-2-...



| Type | B1 | B2 | H1 | H2 | H3 | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L8 | L9 | L10 | T1 |
|-------------------------------------|------|------|-----|-----|------|-------|-------|-------|-------|-------|-------|------|----|----|-----|-----|
| Regulator plate, width 42 mm | | | | | | | | | | | | | | | | |
| VABF-S1-1-R1... | 42.1 | 23.6 | 115 | 112 | 87.1 | - | 207.1 | - | 125.3 | - | - | 49.4 | 36 | 27 | 9 | 7.9 |
| VABF-S1-1-R2... | | | | | | - | - | 216.2 | 125.3 | - | - | | | | | |
| VABF-S1-1-R3... | | | | | | - | - | - | 125.3 | 150.3 | 216.1 | | | | | |
| VABF-S1-1-R4... | | | | | | 311.6 | - | - | - | - | - | | | | | |
| VABF-S1-1-R5... | | | | | | 311.6 | - | - | - | - | - | | | | | |
| VABF-S1-1-R6... | | | | | | - | - | 216.2 | 125.3 | - | - | | | | | |
| VABF-S1-1-R7... | | | | | | - | - | - | 125.3 | 150.3 | 216.1 | | | | | |
| Regulator plate, width 52 mm | | | | | | | | | | | | | | | | |
| VABF-S1-2-R1... | 54 | 23.6 | 182 | 167 | 94.4 | - | 250.2 | - | 152.2 | - | - | 49.4 | 48 | 38 | 12 | 10 |
| VABF-S1-2-R2... | | | | | | - | - | 264.2 | 152.2 | - | - | | | | | |
| VABF-S1-2-R3... | | | | | | - | - | - | 152.2 | 180.2 | 264.2 | | | | | |
| VABF-S1-2-R4... | | | | | | 380.4 | - | - | - | - | - | | | | | |
| VABF-S1-2-R5... | | | | | | 380.4 | - | - | - | - | - | | | | | |
| VABF-S1-2-R6... | | | | | | - | - | 264.2 | 152.2 | - | - | | | | | |
| VABF-S1-2-R7... | | | | | | - | - | - | 152.2 | 180.2 | 264.2 | | | | | |

Standard valves to ISO 5599-1, pressure regulator

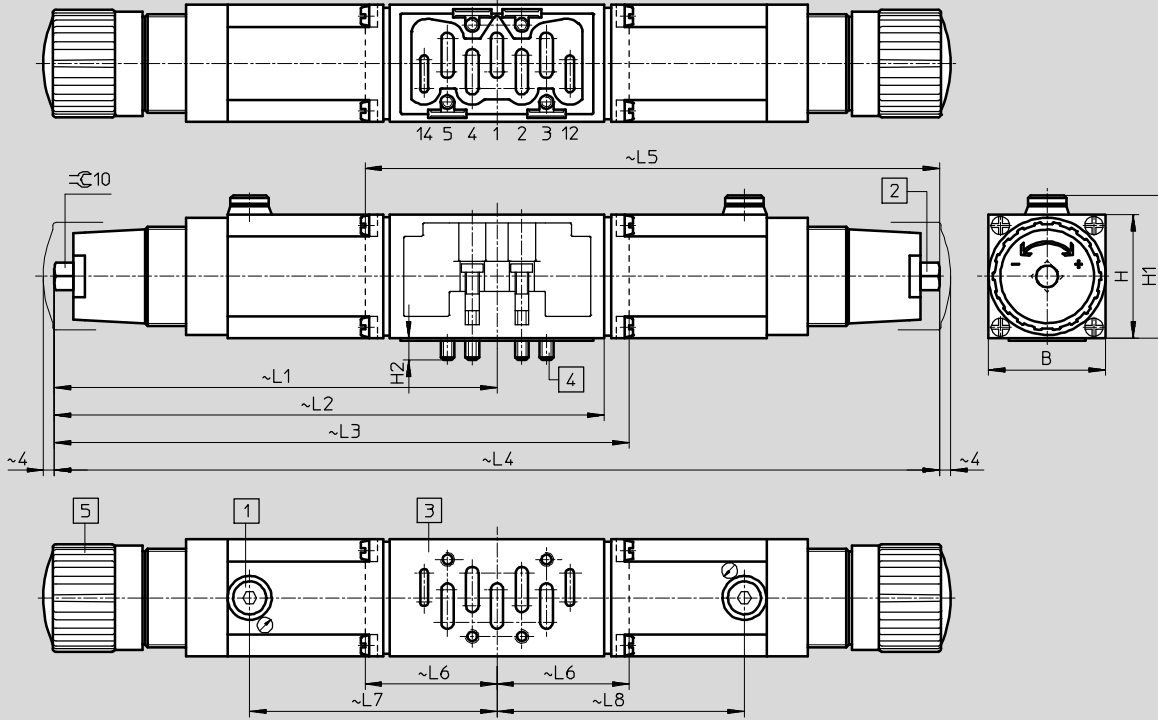
Accessories

FESTO

Dimensions

Download CAD data → www.festo.com

LR-ZP-...-3



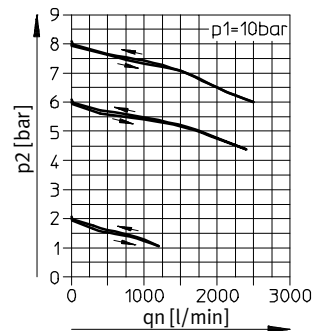
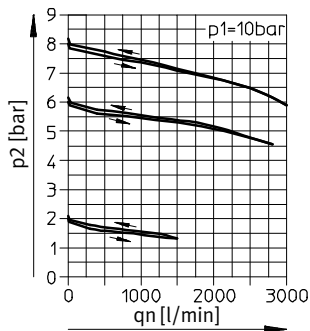
- 1 Pressure gauge connection G1/8
- 2 Regulating screw
- 3 Port pattern to ISO 5599-1
- 4 Captive mounting screws
- 5 Rotary knob

| Type | B | H | H1 | H2 | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L8 |
|------------------------------|----|----|----|----|-------|-----|-----|-----|-----|------|-----|-----|
| Regulator plate, width 65 mm | | | | | | | | | | | | |
| LR-ZP-P-D-3 | 70 | 63 | 65 | 14 | 201.5 | - | 274 | - | - | - | 119 | - |
| LR-ZP-B-D-3 | | | | | 201.5 | - | - | - | 274 | 72.5 | - | 119 |
| LR-ZP-A-D-3 | | | | | 201.5 | - | - | 403 | - | - | 119 | 119 |
| LR-ZP-A/B-D-3 | | | | | 201.5 | 260 | - | - | - | - | 119 | - |

Flow rate qn as a function of output pressure p2

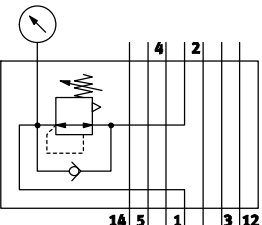
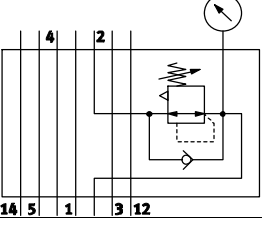
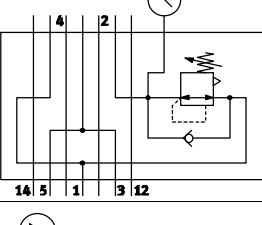
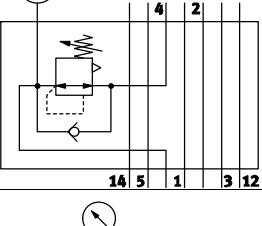
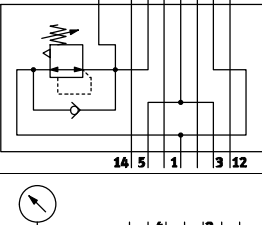
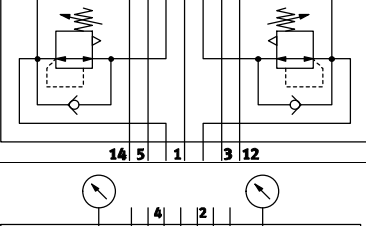
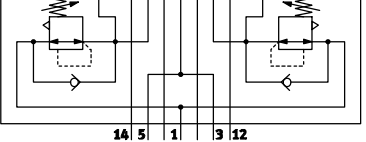
LR-ZP-A-D-3, LR-ZP-B-D-3, LR-ZP-A/B-D-3

LR-ZP-P-D-3



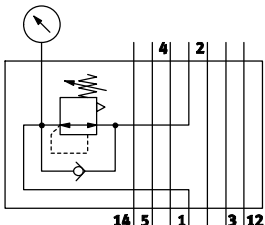
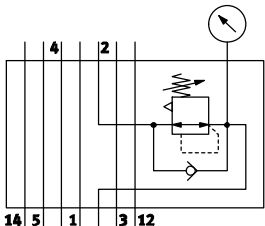
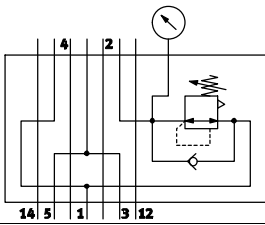
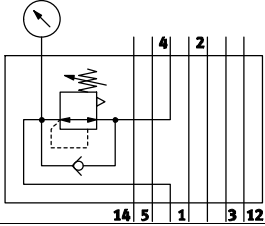
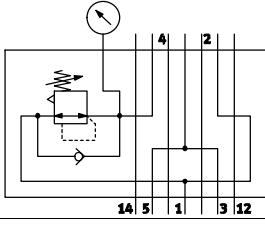
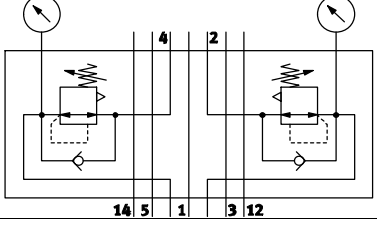
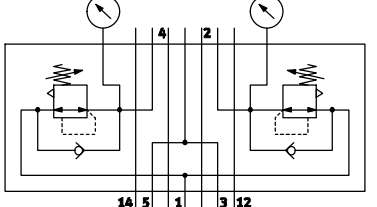
Standard valves to ISO 5599-1, pressure regulator

Accessories

| Ordering data | | | | | |
|---|---------------------|-----------|----------------|----------|---------------------|
| | Regulated port | Regulator | Control range | Part No. | Type |
| Regulator plate, width 42 mm | | | | | |
|  | 1 | P | 0.5 ... 6 bar | 546817 | VABF-S1-1-R1C2-C-6 |
| | | | 0.5 ... 10 bar | 546818 | VABF-S1-1-R1C2-C-10 |
|  | 2 | B | 1 ... 6 bar | 546821 | VABF-S1-1-R2C2-C-6 |
| | | | 1 ... 10 bar | 546822 | VABF-S1-1-R2C2-C-10 |
|  | 2, reversible | B | 0.5 ... 6 bar | 546827 | VABF-S1-1-R6C2-C-6 |
| | | | 0.5 ... 10 bar | 546828 | VABF-S1-1-R6C2-C-10 |
|  | 4 | A | 1 ... 6 bar | 546819 | VABF-S1-1-R3C2-C-6 |
| | | | 1 ... 10 bar | 546820 | VABF-S1-1-R3C2-C-10 |
|  | 4, reversible | A | 0.5 ... 6 bar | 546829 | VABF-S1-1-R7C2-C-6 |
| | | | 0.5 ... 10 bar | 546830 | VABF-S1-1-R7C2-C-10 |
|  | 2 and 4 | AB | 1 ... 6 bar | 546823 | VABF-S1-1-R4C2-C-6 |
| | | | 1 ... 10 bar | 546824 | VABF-S1-1-R4C2-C-10 |
|  | 2 and 4, reversible | AB | 0.5 ... 6 bar | 546825 | VABF-S1-1-R5C2-C-6 |
| | | | 0.5 ... 10 bar | 546826 | VABF-S1-1-R5C2-C-10 |

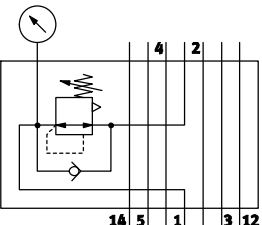
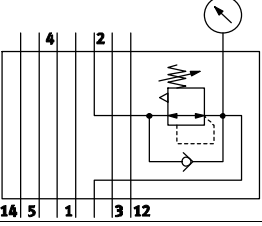
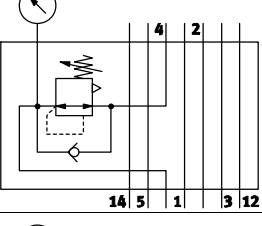
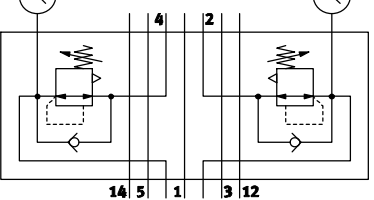
Standard valves to ISO 5599-1, pressure regulator

Accessories

| Ordering data | | | | | |
|---|---------------------|-----------|----------------|----------|---------------------|
| | Regulated port | Regulator | Control range | Part No. | Type |
| Regulator plate, width 52 mm | | | | | |
|  | 1 | P | 0.5 ... 6 bar | 555757 | VABF-S1-2-R1C2-C-6 |
| | | | 0.5 ... 10 bar | 555758 | VABF-S1-2-R1C2-C-10 |
|  | 2 | B | 1 ... 6 bar | 555759 | VABF-S1-2-R2C2-C-6 |
| | | | 1 ... 10 bar | 555760 | VABF-S1-2-R2C2-C-10 |
|  | 2, reversible | B | 0.5 ... 6 bar | 555767 | VABF-S1-2-R6C2-C-6 |
| | | | 0.5 ... 10 bar | 555768 | VABF-S1-2-R6C2-C-10 |
|  | 4 | A | 1 ... 6 bar | 555761 | VABF-S1-2-R3C2-C-6 |
| | | | 1 ... 10 bar | 555762 | VABF-S1-2-R3C2-C-10 |
|  | 4, reversible | A | 0.5 ... 6 bar | 555769 | VABF-S1-2-R7C2-C-6 |
| | | | 0.5 ... 10 bar | 555770 | VABF-S1-2-R7C2-C-10 |
|  | 2 and 4 | AB | 1 ... 6 bar | 555763 | VABF-S1-2-R4C2-C-6 |
| | | | 1 ... 10 bar | 555764 | VABF-S1-2-R4C2-C-10 |
|  | 2 and 4, reversible | AB | 0.5 ... 6 bar | 555765 | VABF-S1-2-R5C2-C-6 |
| | | | 0.5 ... 10 bar | 555766 | VABF-S1-2-R5C2-C-10 |

Standard valves to ISO 5599-1, pressure regulator

Accessories

| Ordering data | | | | | |
|---|----------------|-----------|----------------|----------|---------------|
| | Regulated port | Regulator | Control range | Part No. | Type |
| Regulator plate, width 65 mm | | | | | |
|  | 1 | P | 0 ... 12 bar | 35968 | LR-ZP-P-D-3 |
|  | 2 | B | 0 ... 12 bar | 35426 | LR-ZP-B-D-3 |
|  | 4 | A | 0 ... 12 bar | 35971 | LR-ZP-A-D-3 |
|  | 2, 4 | AB | 0.5 ... 12 bar | 35429 | LR-ZP-A/B-D-3 |

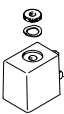
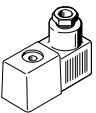
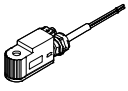

| Ordering data – Accessories | | | | |
|---|-------|------------|----------|--------------|
| | Width | Weight [g] | Part No. | Type |
| Pressure gauge for intermediate pressure regulator plates LR-ZP | 65 mm | 64.5 | 345395 | MA-40-16-1/8 |

· || · Note: This product conforms to ISO 1179-1 and to ISO 228-1

Standard valves to ISO 5599-1


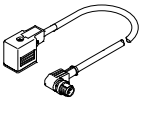
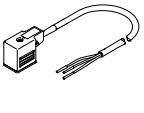


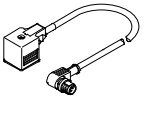

Accessories

FESTO

| Ordering data | | | | | |
|---|------------------------------------|--|-----------------------------|----------------|------------------------------|
| | Description | Voltage | Cable length [m] | Part No. | Type |
| Solenoid coil MSF | | | | | |
|  | Solenoid coil | 12 V DC | – | 34410 | MSFG-12DC-OD |
| | | 24 V DC and 42 V AC, 50 ... 60 Hz | – | 34411 | MSFG-24/42-50/60-OD |
| | | 42 V DC | – | 34413 | MSFG-42DC-OD |
| | | 24 V AC | – | 34415 | MSFG-24AC-OD |
| | | 48 V AC, 50 ... 60 Hz | – | 34418 | MSFW-48AC-OD |
| | | 110 V AC, 50 ... 60 Hz and 120 V AC, 60 Hz | – | 34420 | MSFW-110AC-OD |
| | | 230 V AC, 50 ... 60 Hz and 240 V AC, 60 Hz | – | 34422 | MSFW-230AC-OD |
| | | 240 V AC, 50 ... 60 Hz | – | 34424 | MSFW-240AC-OD |
|  | Solenoid coil with socket MSSD | 12 V DC | – | 4526 | MSFG-12 |
| | | 24 V DC and 42 V AC, 50 ... 60 Hz | – | 4527 | MSFG-24/42-50/60 |
| | | 24 V AC | – | 4534 | MSFW-24-50/60 |
| | | 110 V AC, 50 ... 60 Hz and 120 V AC, 60 Hz | – | 6720 | MSFW-110-50/60 |
| | | 230 V AC, 50 ... 60 Hz and 240 V AC, 60 Hz | – | 4540 | MSFW-230-50/60 |
|  | Solenoid coil for ATEX environment | 24 V DC | 1 | 8059804 | VACF-B-K1-1-1-EX4-M |
| | | | 5 | 8059805 | VACF-B-K1-1-5-EX4-M |
| | | 24 V AC, 50 ... 60 Hz | 1 | 8059808 | VACF-B-K1-1A-1-EX4-M |
| | | | 5 | 8059812 | VACF-B-K1-16B-5-EX4-M |
| | | 110 V AC, 50 ... 60 Hz | 1 | 8059811 | VACF-B-K1-16B-1-EX4-M |
| | | | 5 | 8059812 | VACF-B-K1-16B-5-EX4-M |
| | | 230 V AC, 50 ... 60 Hz | 1 | 8059809 | VACF-B-K1-3A-1-EX4-M |
| 5 | 8059810 | | VACF-B-K1-3A-5-EX4-M | | |
| Solenoid coil MSN1 | | | | | |
|  | Solenoid coil | 24 V DC | – | 123060 | MSN1G-24DC-OD |
| | | 12 V DC and 24 V AC, 50 ... 60 Hz | – | 170152 | MSN1W-24AC/12DC |
| | | 110 V AC, 50 ... 60 Hz | – | 123061 | MSN1W-110AC-OD |
| | | 230 V AC, 50 ... 60 Hz | – | 123062 | MSN1W-230AC-OD |

Standard valves to ISO 5599-1


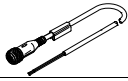
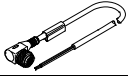

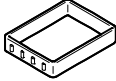
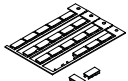


Accessories

| Ordering data | | | | | | |
|---|---|------------------------------------|---|------------------|----------------------|-----------------------------------|
| | Description | | | Cable length [m] | Part No. | Type |
| Electrical accessories for solenoid coil MSF | | | | | | |
|  | Angled socket | Screw terminal | Cable conduit fitting Pg9 | – | 34431 | MSSD-F |
| | | | Cable conduit fitting M16 | – | 59710 | MSSD-F-M16 |
| | | Insulation displacement connection | Cable conduit fitting M16 | – | 192746 | MSSD-F-S-M16 |
|  | PUR cable coating, connection technology M12x1, A-coded | 24 AC/DC | • Signal status display • Protective circuit | 0.3 | 3679773 | NEBV-B2W3F-P-K-0.3-N-M12W3 |
| | | | | 0.6 | 3679774 | NEBV-B2W3F-P-K-0.6-N-M12W3 |
| | | 110 AC/DC | – | 0.3 | 3579463 | NEBV-B2W3-K-0.3-N-M12W3 |
| | | | | 0.6 | 3579464 | NEBV-B2W3-K-0.6-N-M12W3 |
|  | PUR cable coating | 24 AC/DC | • Signal status display • Protective circuit | 0.6 | 3679778 | NEBV-B2W3F-P-K-0.6-N-LE3 |
| | | | | 230 AC/DC | – | 0.6 |
| | PVC cable coating | 24 V DC | Signal status display | 2.5 | 30935 | KMF-1-24DC-2,5-LED |
| | | | | 5 | 30937 | KMF-1-24DC-5-LED |
| | | | | 10 | 193458 | KMF-1-24DC-10-LED |
| | | 230 V AC | – | 2.5 | 30936 | KMF-1-230AC-2,5 |
| | | | 5 | 30938 | KMF-1-230AC-5 | |
|  | Illuminating seal | 12 ... 24 V DC | Signal status display | – | 19143 | MF-LD-12-24DC |
| | | 230 V DC/V AC | Signal status display | – | 19144 | MF-LD-230AC |
| Electrical accessories for solenoid coil MSN1 and MD | | | | | | |
|  | Angled socket | Screw terminal | Cable conduit fitting Pg9 | – | 34583 | MSSD-C |
| | | | Cable conduit fitting M16 | – | 539709 | MSSD-C-M16 |
| | | Insulation displacement connection | Cable conduit fitting M16 | – | 192748 | MSSD-C-S-M16 |
|  | PUR cable coating, connection technology M12x1, A-coded | 24 AC/DC | • Signal status display • Protective circuit | 0.3 | 3679771 | NEBV-A1W3F-P-K-0.3-N-M12W3 |
| | | | | 0.6 | 3679772 | NEBV-A1W3F-P-K-0.6-N-M12W3 |
| | | 110 AC/DC | – | 0.3 | 3579461 | NEBV-A1W3-K-0.3-N-M12W3 |
| | | | | 0.6 | 3579462 | NEBV-A1W3-K-0.6-N-M12W3 |
|  | PUR cable coating | 24 AC/DC | • Signal status display • Protective circuit | 0.6 | 3679776 | NEBV-A1W3F-P-K-0.6-N-LE3 |
| | | | | 230 AC/DC | – | 0.6 |
| | PVC cable coating | 24 V DC | Signal status display | 2.5 | 30931 | KMC-1-24DC-2,5-LED |
| | | | | 5 | 30933 | KMC-1-24DC-5-LED |
| | | | | 10 | 193459 | KMC-1-24DC-10-LED |
| | | 230 V AC | – | 2.5 | 30932 | KMC-1-230AC-2,5 |
| | | | 5 | 30934 | KMC-1-230AC-5 | |
|  | Illuminating seal | 12 ... 24 V DC | Signal status display | – | 19145 | MC-LD-12-24DC |
| | | 230 V DC/V AC | Signal status display | – | 19146 | MC-LD-230AC |

Standard valves to ISO 5599-1

Accessories

FESTO

| Ordering data | | | | |
|---|---|--------------------------------------|---------------|-----------------------------|
| | Description | | Part No. | Type |
| Electrical accessories for valves with central plug | | | | |
|  | Angled socket, M12, 4-pin, type A, screw terminal | – | 12956 | SIE-WD-TR |
|  | Connecting cable, straight socket, M12x1, 5-pin, open cable end, 4-wire | 2.5 | 550326 | NEBU-M12G5-K-2,5-LE4 |
| | | 5 | 541328 | NEBU-M12G5-K-5-LE4 |
|  | Connecting cable, angled socket, M12x1, 5-pin, open cable end, 4-wire | 2.5 | 550325 | NEBU-M12W5-K-2,5-LE4 |
| | | 5 | 541329 | NEBU-M12W5-K-5-LE4 |
| Pressure gauge | | | | |
|  | With cartridge connection for regulator | 10 bar | 543487 | PAGN-26-16-P10 |
| | | 6 bar | 543488 | PAGN-26-10-P10 |
| Seal | | | | |
|  | Enables the valves with central plug M12, 3-pin, to be assembled on the sub-bases of the valve terminal VTSA/VTSA-F (2 included in the scope of delivery) | | 571343 | VABD-S2-1-S-C |
| Inscription label | | | | |
|  | Inscription label for valves | Scope of delivery 24 labels in frame | 161937 | IBS-9x17 |
|  | Clip-on inscription label holder for valve cap, for valves with central plug M12, 3-pin | Scope of delivery 5 holders | 540888 | ASCF-T-S6 |
| Manual override | | | | |
|  | Tool for manual override | Valves MN1H/MFH | 157651 | AHB-MD/MF/MW |