



Application

Solenoid valve to control pneumatic actuators with NAMUR interface according to VDI/VDE 3845, with integral attachment according to VDI/VDE 3847 or with NAMUR rib according to IEC 60534

Intrinsically safe, low-power binary signals issued by automation equipment or fieldbus systems can be used for controlling purposes. Different nominal signals and connection types allow the solenoid valve to be optimally adapted for the specific task.

Special features

- High level of operational reliability due to the flapper/nozzle assembly and booster valve with a seat and plug
- Standard version for nominal signals 6, 12, 24 V DC
- Type of protection: intrinsic safety Ex ia and non-sparking Ex nA
- Certification according to ATEX, IECEx, EAC (GOST), NEPSI and TR CMU 1055
- Power consumption: 6 to 27 mW
- Electrical connection using M16x1.5 cable gland
- Corrosion-resistant enclosure with degree of protection IP 65
- Pilot supply 1.4 to 10 bar
- Ambient temperature -45 to $+80$ °C, depending on type of protection, temperature class and seals
- Use with safety shut-off valves, certification for safety-instrumented systems according to IEC 61508 (SIL), optional

Implementation

- 3/2-way solenoid valve with K_{VS} 0.32 and NAMUR interface according to VDI/VDE 3845 and VDI/VDE 3847
- 3/2-way booster valve with K_{VS} 1.4, 2.0, 2.9 or 4.3
- 5/2-way booster valve with K_{VS} 1.4 or 2.9
- 5/3-way booster valve with K_{VS} 1.4
- Attachment to actuators with NAMUR interface, with integral attachment or with NAMUR rib
- Restrictor plate with exhaust air or supply restrictor (optional)
- Booster valves with NAMUR interface according to VDI/VDE 3845 (optional)
- Aluminum or stainless steel

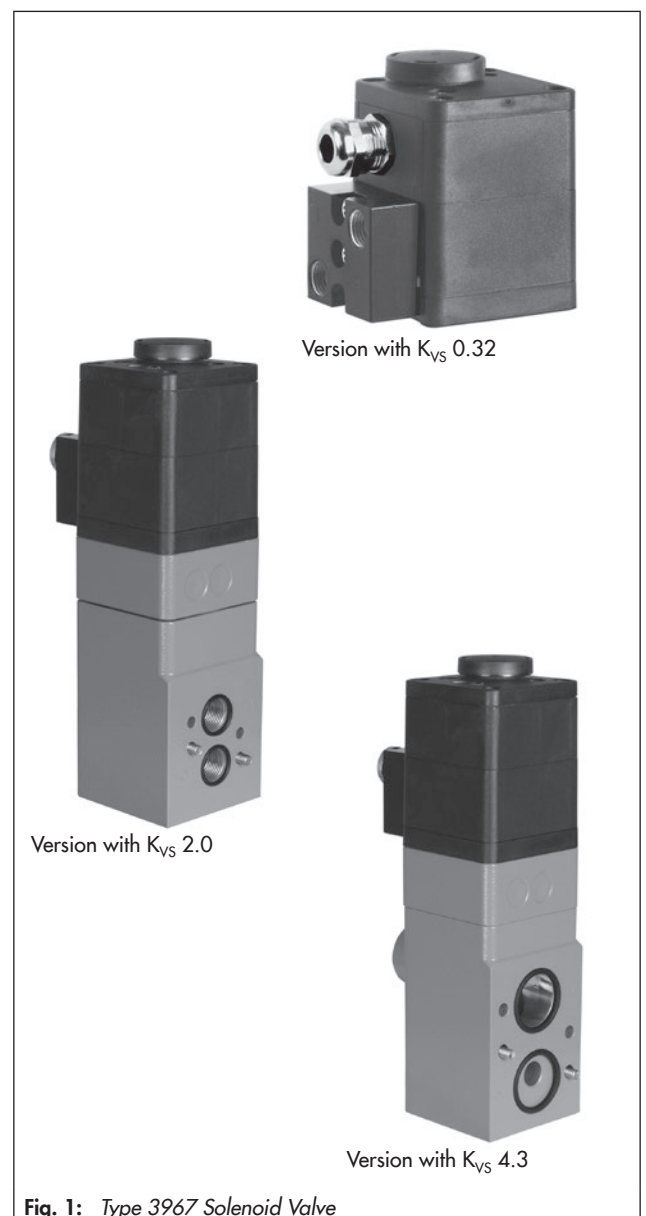
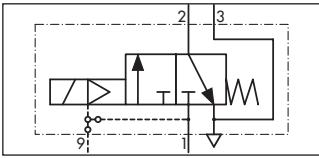


Fig. 1: Type 3967 Solenoid Valve

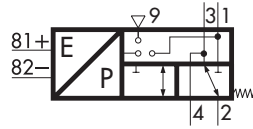
Solenoid valve version

K_{VS} 0.32



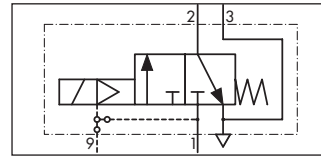
- 3/2-way function
- NAMUR interface ¼

K_{VS} 1.4

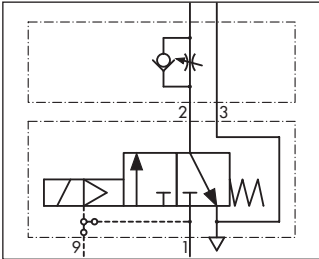


- 3/2-way function
- NAMUR interface ¼

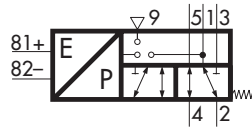
K_{VS} 2.0



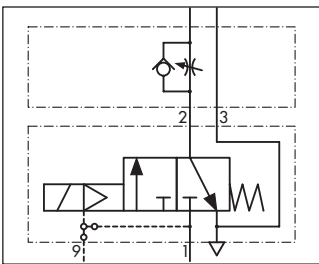
- 3/2-way function
- NAMUR interface ¼



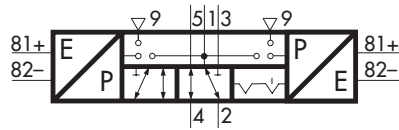
- 3/2-way function
- NAMUR interface ¼
- Exhaust air restrictor plate



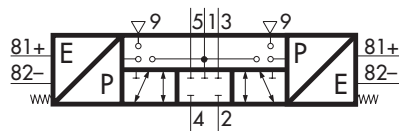
**5/2-way function
NAMUR interface ¼**



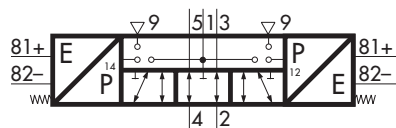
- 3/2-way function
- NAMUR interface ¼
- Supply air restrictor plate



- 5/2-way function with two detent positions
- NAMUR interface ¼



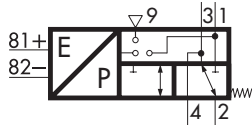
- 5/3-way function with spring-centered mid-position (ports 2 and 4 closed)
- NAMUR interface ¼



- 5/3-way function with spring-centered mid-position (ports 2 and 4 vented)
- NAMUR interface ¼

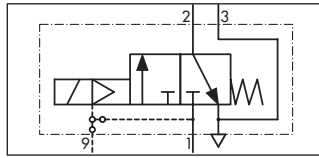
Solenoid valve version

K_{VS} 2.9

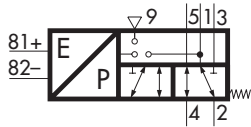


- 3/2-way function
- NAMUR interface 1/2

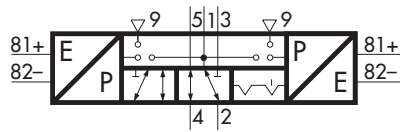
K_{VS} 4.3



- 3/2-way function
- NAMUR interface 1/2



- 5/2-way function
- NAMUR interface 1/4



- 5/2-way function with two detent positions
- NAMUR interface 1/4

Function

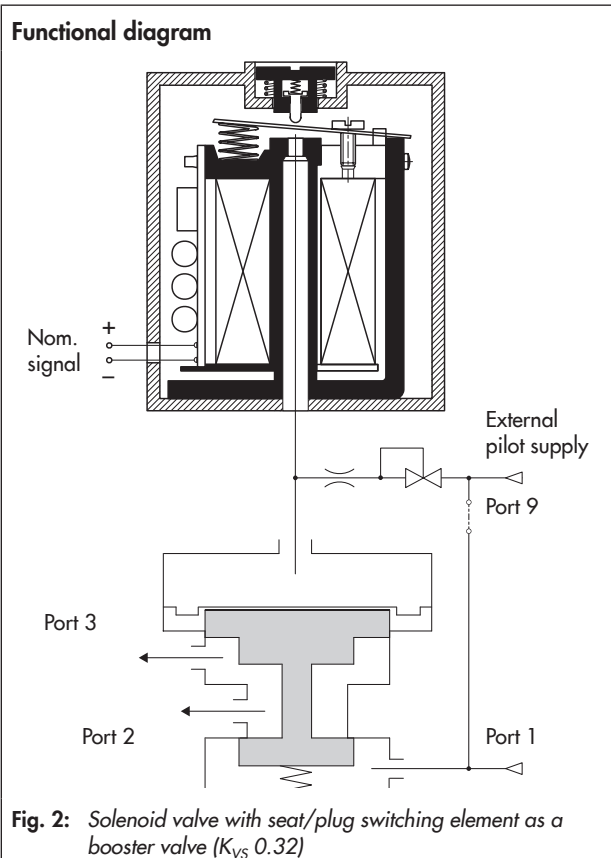
The solenoid valve consists of an electropneumatic binary converter with manual override and integrated booster valve actuated on one side with return spring.

The pilot supply for the electropneumatic binary converter is fed internally over port 1 or externally over port 9. By turning the turnable gasket, the pilot supply can be changed (see mounting and operating instructions ► EB 3967).

The pressure reducer reduces the pilot pressure to 1.4 bar.

In the idle position, the flapper is lifted off the outlet nozzle by the spring. As a result, a pressure lower than the deactivation pressure of the integrated booster valve builds up in the pressure divider, which consists of the restrictor and outlet nozzle. When the solenoid coil is energized by an electric binary signal, the outlet nozzle is closed by the flapper against the force of the spring. This causes the pressure in the pressure divider to rise above the activation pressure of the integrated booster valve and switches it to the operating position. After the solenoid coil is de-energized, the integrated booster valve is switched to the idle position again by a return spring.

Optionally, the solenoid valve can be upgraded to become a pneumatic booster valve actuated on one side. This results in higher K_{VS} coefficients (see Data Sheet ► T 3756).




Summary of explosion protection approvals

| Type | Certification | | | Type of protection/comments |
|-------------|---------------------------------|-------------------------|---|--|
| 3967-1 | EC type examination certificate | Number | PTB 06 ATEX 2027 | II 2G Ex ia IIC T6 Gb II 2D Ex ia IIIC T80 °C Db |
| | | Date | 2019-07-03 | |
| | IECEX | Number | ECEX PTB 08.0036 | Ex ia IIC T6...T4 Gb Ex ia IIIC T80 °C Db |
| | | Date | 2022-08-23 | |
| | CCC Ex | Number | 2021322307003632 | Ex ia IIC T4...T6 Gb Ex ia IIIC T80 °C Db |
| | | Date | 2023-04-15 | |
| Valid until | | 2026-01-07 | | |
| EAC | Number | RU C-DE.EX01.B.00160/20 | 1Ex ia IIC T6...T4 Gb Ex ia IIIC T80 °C Db | |
| | Date | 2020-01-29 | | |
| | Valid until | 2025-01-28 | | |
| TR CMU 1055 | Number | ZETC/111/2021 | Module D | |
| | Date | 2021-08-25 | | |
| | Valid until | 2024-08-24 | | |
| | Number | ZETC/37/2021 | | |
| 3967-8 | Statement of conformity | Number | PTB 06 ATEX 2028 X | II 3G Ex nA II T6 II 3G Ex ic IIC T6 II 3D Ex tD A21 IP65 T80 °C |
| | | Date | 2008-01-09 | |
| | IECEX | Number | IECEX PTB 08.0038X | Ex nA II T6 Ex nL IIC T6 Ex tD A22 IP65 T80 ° |
| | | Date | 2008-08-28 | |
| | EAC | Number | RU C-DE.EX01.B.00160/20 | 2Ex nA IIC T6...T4 Gc X 2Ex ic IIC T6...T4 Gc Ex tc IIIC T80 °C Dc |
| | | Date | 2020-01-29 | |
| | | Valid until | 2025-01-28 | |

| Type | Certification | | Type of protection/comments |
|--------|---------------|-------------|--|
| 3967-8 | TR CMU 1055 | Number | ZETC/111/2021 |
| | | Date | 2021-08-25 |
| | | Valid until | 2024-08-24 |
| | | Number | ZETC/37/2021 |
| | | Date | 2021-07-26 |
| | | Valid until | 2024-07-25 |
| | | | Module D |
| | | | II 3G Ex nA II T6 Gc II 3G Ex ic IIC T6 Gc II 3D Ex tc IIIC T80 °C Dc IP65 |

Technical data

| General data | | |
|----------------------|---|--|
| Design | Solenoid with flapper/nozzle assembly and plug/seat valve with return spring | |
| Degree of protection | IP 65 with filter check valve | |
| Conformity |  | |
| Material | Enclosure | Polyamide PA 6-3-T-GF35, black |
| | Connecting plate | AlMgSiPb, powder coated, black or stainless steel 1.4404 |
| | Adapter plate | AlMgSiPb, powder coated, gray beige RAL 1019 or stainless steel 1.4404 |
| | Screws | Stainless steel A2-70 |
| | Springs | Stainless steel 1.4310 |
| | Seals | Silicone rubber |
| Ambient temperature | See Electric data | |
| Mounting orientation | Any | |

| Electric data | | | | | |
|-----------------------------------|--|---------------------|-----------------|----------------|---------|
| Nominal signal | U_N | 6 V DC | 12 V DC | 24 V DC | |
| | U_{max} | 27 V | 40 V | 60 V | |
| Switching point | ON | $U_{80\text{ °C}}$ | ≥4.8 V | ≥9.6 V | |
| | | $I_{20\text{ °C}}$ | ≥1.41 mA | ≥1.52 mA | |
| | | $P_{20\text{ °C}}$ | ≥5.47 mW | ≥13.05 mW | |
| | OFF | $U_{-25\text{ °C}}$ | ≤1.0 V | ≤2.3 V | ≤4.6 V |
| | | $R_{20\text{ °C}}$ | 2.6 kΩ | 5.3 kΩ | 10.5 kΩ |
| Effect of temperature | | 0.4 %/°C | 0.2 %/°C | 0.1 %/°C | |
| Type of protection | Intrinsic safety (see table "Summary of explosion protection approvals") | | | | |
| | Non-sparking (see table "Summary of explosion protection approvals") | | | | |
| Output voltage ¹⁾ | U_i (V) | 32 | | | |
| Output current ¹⁾ | I_i (mA) | 150 | | | |
| Power dissipation ¹⁾ | P_i (mW) | 250 | No restrictions | | |
| Outer inductance ¹⁾ | L_i | Negligibly small | | | |
| Outer capacitance ¹⁾ | C_i | Negligibly small | | | |
| Ambient temperature ²⁾ | -45 to +60 °C (temperature class T6) | | | | |
| | -45 to +70 °C (temperature class T5) | | | | |
| | -45 to +80 °C (temperature class T4) | | | | |
| Connection | Screw terminal, 2-pole, with cable gland M16x1.5 | | | | |

¹⁾ Permissible maximum values when connected to a certified intrinsically safe circuit.

²⁾ The permissible ambient temperature depends on the permissible ambient temperature of the components, type of protection and temperature class.

| Pneumatic data for solenoid valve with K_{VS} 0.32 ¹⁾ , actuated on one side | | |
|---|---|---|
| Switching function | 3/2-way function | |
| K_{VS} ²⁾ | 0.32 | |
| Safety approval | SIL ³⁾ | |
| Compressed air quality according to ISO 8573-1 | Max. particle size and density: Class 4 · Oil content: Class 3 · Pressure dew point: Class 3 or at least 10 K below the lowest ambient temperature to be expected | |
| Pilot supply | Medium | Instrument air, free from corrosive substances and nitrogen |
| | Pressure ⁴⁾ | 1.4 to 10 bar |
| Operating medium | Instrument air, free from corrosive substances and nitrogen | |
| Operating pressure | Max. 10 bar | |
| Air consumption | ≤ 80 l _n /h at 1.4 bar pilot supply in neutral position | |
| | ≤ 25 l _n /h at 1.4 bar pilot supply in operating position | |
| Switching time | ≤ 65 ms | |
| Connection | G 1/4 or 1/4 NPT and NAMUR interface 1/4 ⁵⁾ | |
| Weight | 0.45 kg | |
| | 0.80 kg (with adapter plate) | |

1) The solenoid valve version with K_{VS} 0.32 can be fitted with a restrictor plate to adjust the actuating time of the pneumatic actuator.

2) The air flow rate when $p_1 = 2.4$ bar and $p_2 = 1.0$ bar is calculated using the following formula:

$$Q = K_{VS} \times 36.22 \text{ in m}^3/\text{h.}$$

3) SIL according to IEC 61508

4) When using the solenoid valve with an operating pressure of 10 bar, a minimum pilot pressure of 1.9 bar is required.

5) NAMUR interface according to VDI/VDE 3845 and VDI/VDE 3847

| Booster valve with NAMUR interface, K_{VS} 1.4 or 2.9, actuated on one side | | |
|---|---|--|
| Switching function | 3/2-way function with exhaust air feedback | 5/2-way function |
| K_{VS} ¹⁾ | 1.4 or 2.9 | |
| Safety approval | – | – |
| Design | Spool, metal-to-metal seat, zero overlap, with return spring | |
| Material | Enclosure | Aluminum, powder coated, gray-beige RAL 1019 1.4404 (see Versions and ordering data for special versions) |
| | Seals | Silicone |
| | Filter | Polyethylene |
| | Screws | 1.4571 |
| Actuation | Type 3797 Solenoid Valve | |
| Operating medium | Instrument air (free from corrosive substances) or nitrogen, air containing oil or non-corrosive gases | |
| Compressed air quality according to ISO 8573-1 | Max. particle size and density: Class 4 · Oil content: Class 3 · Pressure dew point: Class 3 or at least 10 K below the lowest ambient temperature to be expected | |
| Max. operating pressure | 10 bar | |
| Ambient temperature ²⁾ | –45 to +80 °C | |
| Switching cycles | $\geq 2 \times 10^7$ | |
| Connection | K_{VS} 1.4 | G 1/4 or 1/4 NPT, NAMUR interface ³⁾ |
| | K_{VS} 2.9 | G 1/2 or 1/2 NPT, NAMUR interface ³⁾ |
| Approx. weight | K_{VS} 1.4 | 485 g (standard version) |
| | K_{VS} 2.9 | 1760 g (standard version) |

1) The air flow rate when $p_1 = 2.4$ bar and $p_2 = 1.0$ bar is calculated using the following formula: $Q = K_{VS} \times 36.22$ in m^3/h .

2) The permissible ambient temperature of the solenoid valve depends on the permissible ambient temperature of the components, type of protection and temperature class.

3) NAMUR interface according to VDI/VDE 3845

| Booster valve with NAMUR interface, K_{VS} 1.4 or 2.9, actuated on both sides | | | |
|---|--------------|---|---|
| Switching function | | 5/2-way function with two detent positions | 5/3-way function with spring-centered mid-position (ports 2 and 4 closed) |
| K_{VS} ¹⁾ | | 1.4 or 2.9 | 1.4 (2.9 on request) |
| Safety approval | | – | – |
| Design | | Spool, metal-to-metal seat, zero overlap | |
| Material | Enclosure | Aluminum, powder coated, gray beige RAL 1019 1.4404 (see Versions and ordering data for special versions) | |
| | Seals | Silicone | |
| | Filter | Polyethylene | |
| | Screws | 1.4571 | |
| Actuation | | Type 3797 Solenoid Valve | |
| Operating medium | | Instrument air (free from corrosive substances) or nitrogen, air containing oil or non-corrosive gases | |
| Compressed air quality according to ISO 8573-1 | | Max. particle size and density: Class 4 · Oil content: Class 3 · Pressure dew point: Class 3 or at least 10 K below the lowest ambient temperature to be expected | |
| Max. operating pressure | | 10 bar | |
| Ambient temperature ²⁾ | | –45 to +80 °C | |
| Switching cycles | | $\geq 2 \times 10^7$ | |
| Connection | K_{VS} 1.4 | G 1/4 or 1/4 NPT, NAMUR interface ³⁾ | |
| | K_{VS} 2.9 | G 1/2 or 1/2 NPT, NAMUR interface ³⁾ | |
| Approx. weight | K_{VS} 1.4 | 685 g (standard version) | |
| | K_{VS} 2.9 | 2180 g (standard version) | |

¹⁾ The air flow rate when $p_1 = 2.4$ bar and $p_2 = 1.0$ bar is calculated using the following formula: $Q = K_{VS} \times 36.22$ in m³/h.

²⁾ The permissible ambient temperature of the solenoid valve depends on the permissible ambient temperature of the components, type of protection and temperature class.

³⁾ NAMUR interface according to VDI/VDE 3845

| Booster valve with NAMUR interface, K_{VS} 2.0 or 4.3, actuated on one side | | | |
|---|-------------|---|--|
| Switching function | | 3/2-way function | |
| K_{VS} ¹⁾ (direction of flow) | | 1.1 (4»3) | 1.9 (4»3) |
| | | 2.0 (3»5) | 4.3 (3»5) |
| Safety approval | | SIL ²⁾ | |
| Design | | Poppet valve with diaphragm actuator, soft seated, with return spring | |
| Material | Enclosure | Aluminum, powder coated, gray beige RAL 1019 or stainless steel 1.4404 | |
| | Diaphragms | Chloroprene rubber (–20 to +80 °C) or silicone rubber (–45 to +80 °C) | |
| | Seals | Chloroprene rubber (–20 to +80 °C) or silicone rubber (–45 to +80 °C) | |
| | Screws | Stainless steel 1.4571 | |
| | Springs | Stainless steel 1.4310 | |
| Operating medium | | Instrument air (free from corrosive substances) or nitrogen, air containing oil or non-corrosive gases | |
| Compressed air quality according to ISO 8573-1 | | Max. particle size and density: Class 4 · Oil content: Class 3 · Pressure dew point: Class 3 or at least 10 K below the lowest ambient temperature to be expected | |
| Actuation | | Type 3967 Solenoid Valve | |
| Pilot supply | | 1.4 to 6 bar | |
| Max. operating pressure | | 10.0 bar | |
| Ambient temperature ³⁾ | | –20 to +80 °C –45 to +80 °C | |
| Connection | Supply air | G 1/4 or 1/4 NPT and NAMUR interface 1/4 ⁴⁾ with G (NPT) 3/8 | G 1/2 or 1/2 NPT and NAMUR interface 1/2 ⁴⁾ |
| | Exhaust air | G 1/2 or 1/2 NPT and NAMUR interface 1/4 ⁴⁾ with G (NPT) 3/8 | G 1/2 or 1/2 NPT and NAMUR interface 1/2 ⁴⁾ |
| Approx. weight | | 1.38 kg | 1.5 kg |

¹⁾ The air flow rate when $p_1 = 2.4$ bar and $p_2 = 1.0$ bar is calculated using the following formula:

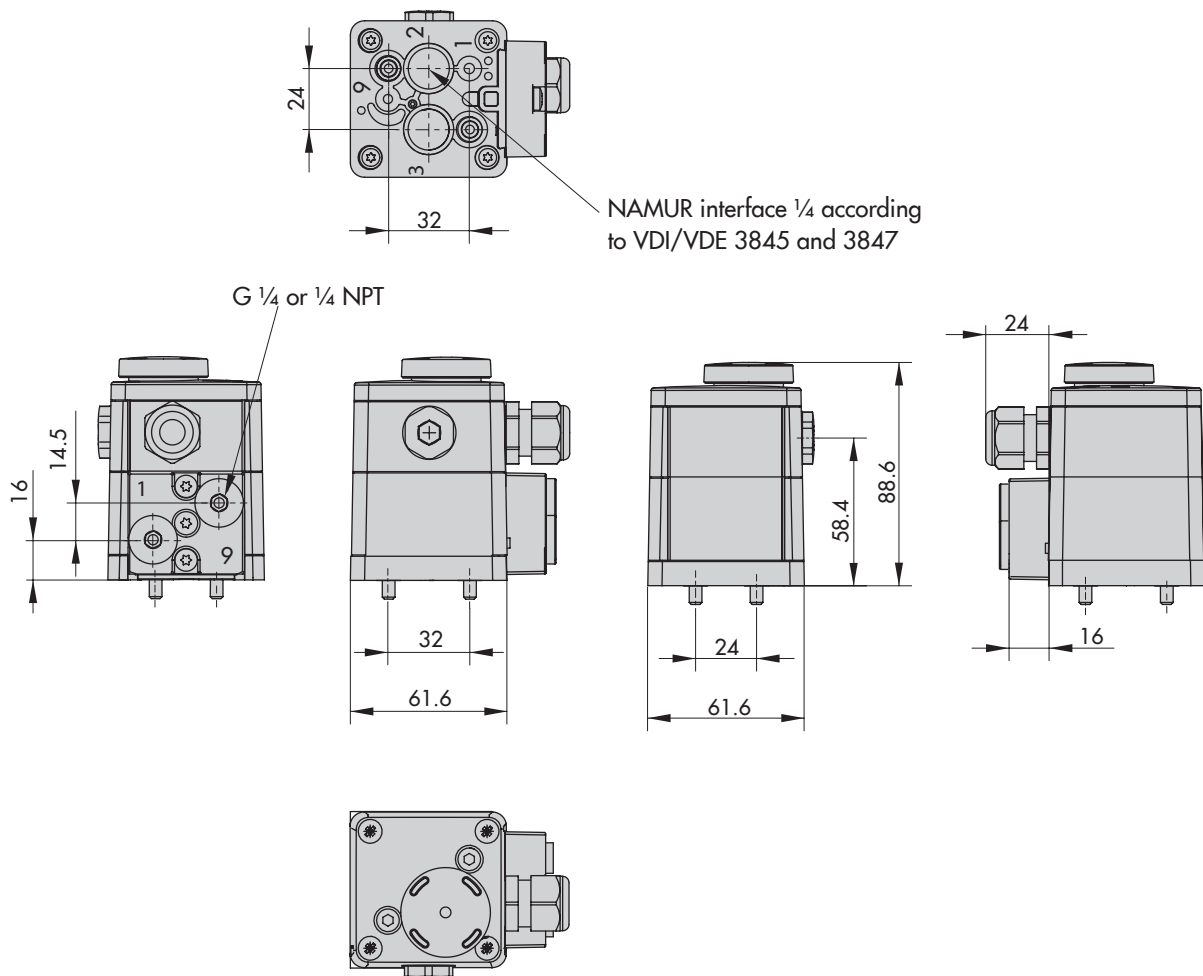
$$Q = K_{VS} \times 36.22 \text{ in m}^3/\text{h.}$$

²⁾ SIL according to IEC 61508

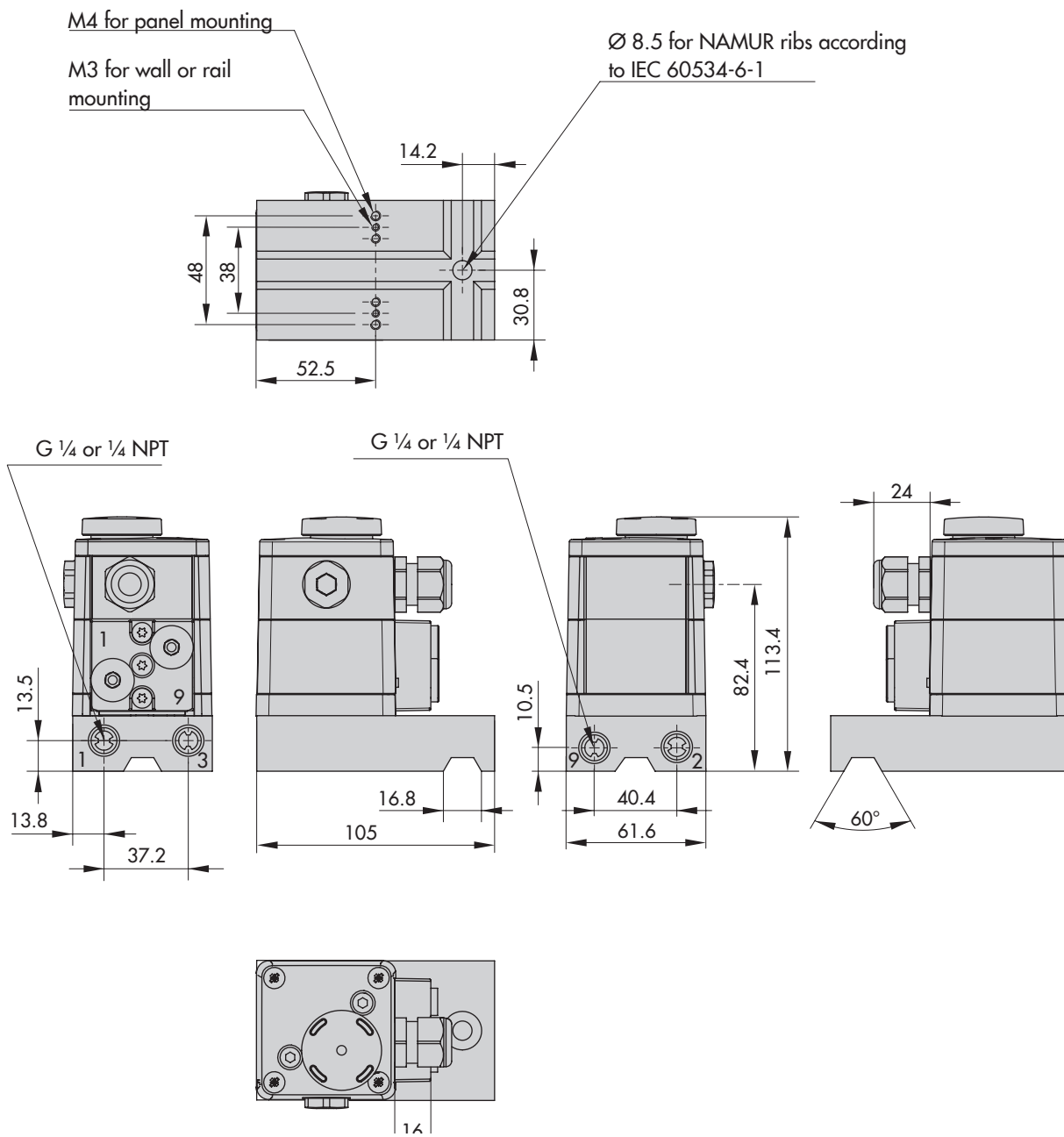
³⁾ The permissible ambient temperature depends on the permissible ambient temperature of the components, type of protection and temperature class.

⁴⁾ NAMUR interface according to VDI/VDE 3845

Version with NAMUR interface $\frac{1}{4}$ according to VDI/VDE 3845 and direct attachment according to VDI/VDE 3847

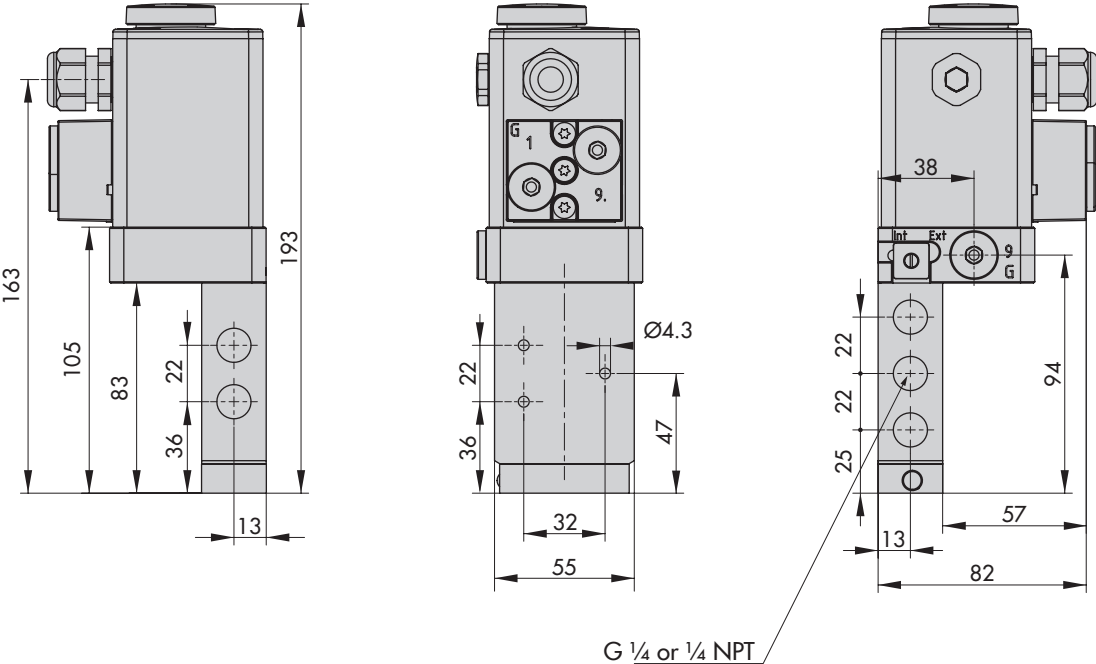


Version with adapter plate for linear actuators with NAMUR rib according to IEC 60534-6-1

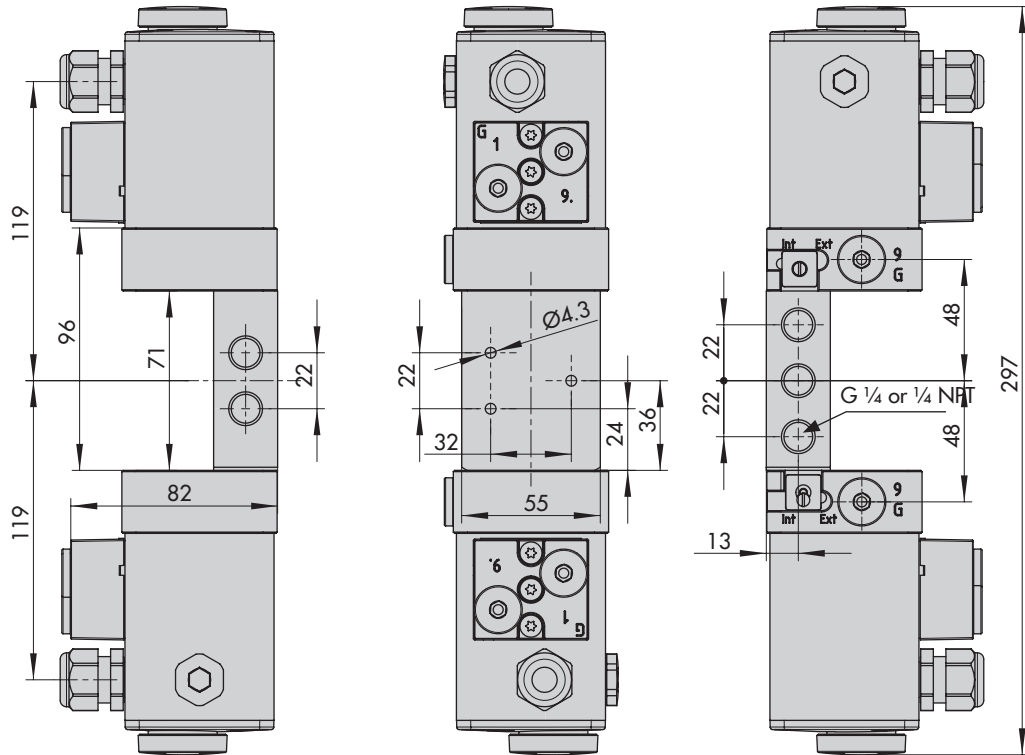


Dimensions (in mm)

Version with booster valve (K_{VS} 1.4)

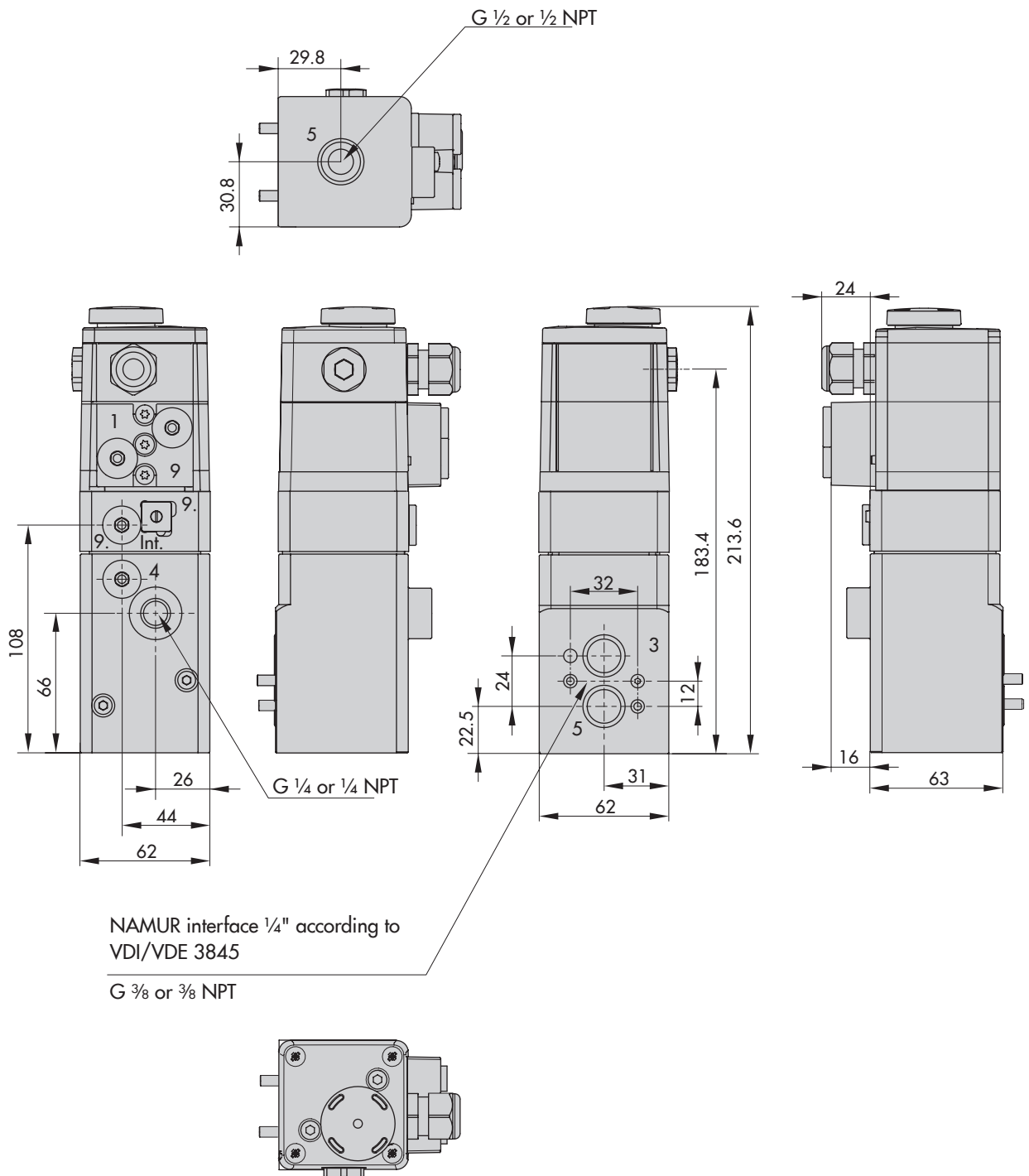


Version with booster valve (K_{Vs} 1.4, actuated on both sides)

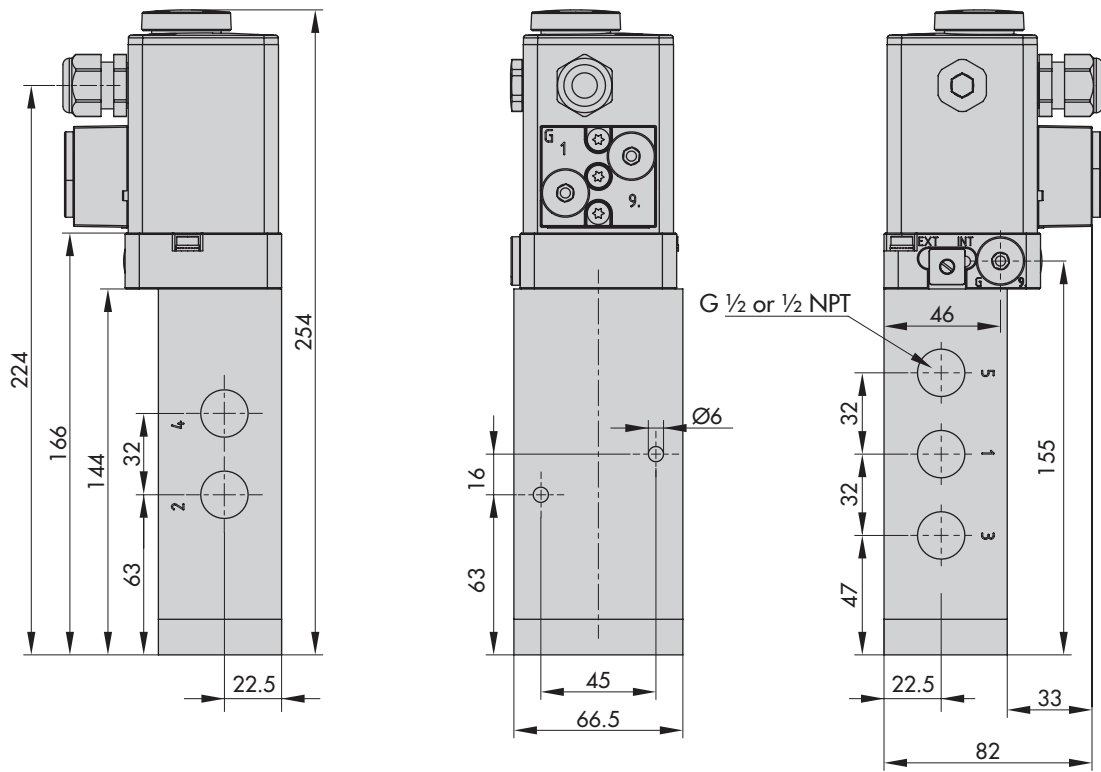


Dimensions (in mm)

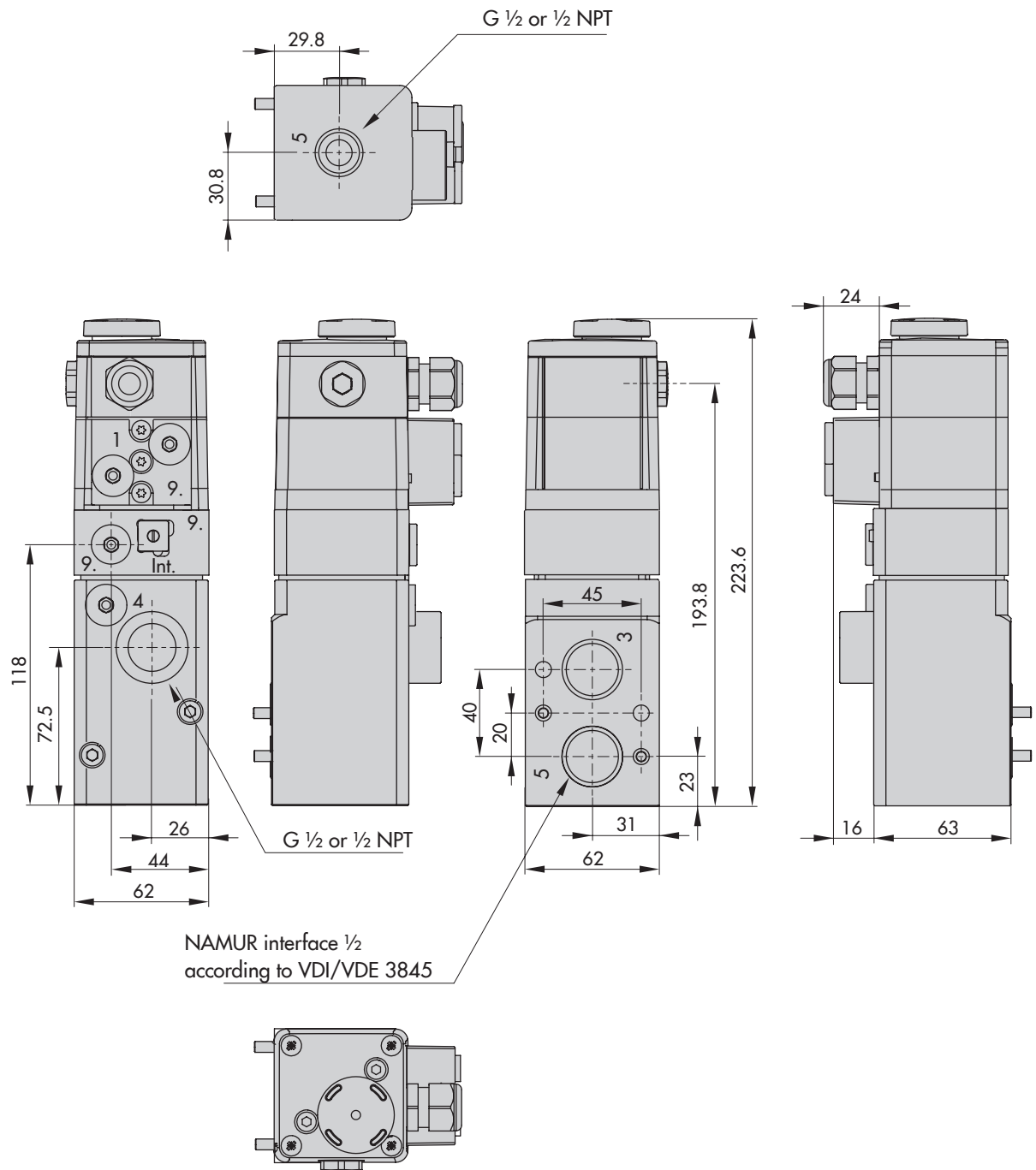
Version with booster valve (K_{VS} 2.0)



Version with booster valve (K_{Vs} 2.9)



Version with booster valve (K_{VS} 4.3)



Spare parts and accessories

| Spare parts | |
|---|-----------|
| Designation | Order no. |
| Enclosure cover with pushbutton | 1089-1527 |
| Enclosure cover with switch | 1089-1528 |
| Enclosure cover | 1099-6236 |
| Gasket (for enclosure cover) | 0430-1941 |
| Blanking plug G ¼, stainless steel 1.4571 (for threaded connections) | 0070-0858 |
| Blanking plug ¼ NPT, stainless steel 1.4571 (for threaded connections) | 0070-0862 |
| O-ring 14x1.5 made of nitrile butadiene rubber (for blanking plug) | 8421-0070 |
| Turnable gasket (for connecting plate) | 0430-1884 |
| Screw DIN 7964, 5x20 (for connecting plate) | 8336-1108 |
| Filter ¼ (for connecting plate) | 0550-0213 |
| Molded seal (for NAMUR interface ¼, K _{VS} 0.32) | 0430-1883 |
| O-ring 13x3.5, -45 to +80 °C (for booster valves with NAMUR interface ¼, K _{VS} 1.4) | 8421-9002 |
| O-ring 16x2, -20 to +80 °C (for booster valves with NAMUR interface ¼, K _{VS} 2.0) | 8421-0364 |
| O-ring 16x2, -45 to +80 °C (for booster valves with NAMUR interface ¼, K _{VS} 2.0) | 8421-0368 |
| O-ring 28x2, -45 to +80 °C (for booster valves with NAMUR interface ½, K _{VS} 2.9) | 8421-0419 |
| O-ring 30x2, -45 to +80 °C (for booster valves with K _{VS} 2.9) | 8421-0439 |
| O-ring 24x2, -20 to +80 °C (for booster valves with NAMUR interface ½, K _{VS} 4.3) | 8421-1077 |
| O-ring 24x2, -45 to +80 °C (for booster valves with NAMUR interface ½, K _{VS} 4.3) | 8421-0425 |
| O-ring 36x2, -20 to +80 °C (for booster valves with K _{VS} 2.0, 2.9 and 4.3) | 8421-0102 |
| Screw M5x60 A4 (for booster valves with NAMUR interface, K _{VS} 2.0) | 8333-1303 |
| Spring washer A5-A4 (for booster valves with NAMUR interface, K _{VS} 2.0) | 8392-0651 |
| Screw M5x60 A4 (for booster valves with NAMUR interface, K _{VS} 4.3) | 8333-0538 |
| Spring washer A5-A4 (for booster valves with NAMUR interface, K _{VS} 4.3) | 8392-0658 |

| Accessories | |
|---|-----------|
| Designation | Order no. |
| M16x1.5 cable gland made of black polyamide, 5 to 10 mm cable diameter | 8808-1010 |
| Cable gland M16x1.5 made of black polyamide, 5.5 to 10 mm cable diameter (Ex e, CEAG) | 8808-2007 |
| Cable gland M16x1.5 made of blue polyamide, 4 to 8 mm cable diameter | 8808-2008 |
| Cable gland M16x1.5, nickel-plated brass, 4 to 8 mm cable diameter | 8808-2009 |
| Cable gland M16x1.5, brass, blue, 4 to 8 mm cable diameter | 1991-6471 |
| Extension cable gland M16x1.5 on M20, black polyamide, 5.5 to 13 mm cable diameter (-20 to +70 °C) (Ex e) | 8808-2011 |
| Blanking plug M16x1.5, black polyamide (for cable entry) | 8808-1024 |
| O-ring 14x1.5 made of nitrile butadiene rubber (for cable gland and blanking plug) | 8421-0070 |
| Cover for start-up | 1402-1378 |

| Accessories for K _{VS} 0.32 | |
|---|-----------|
| Designation | Order no. |
| Adapter plate for NAMUR rib according to IEC 60534-6-1, panel, wall or rail mounting, including fastening screw | |
| Aluminum with Ematal coating, G ¼ connection | 1400-9598 |
| Aluminum, powder coated, gray beige RAL 1019, ¼ NPT connection | 1400-9599 |
| Stainless steel 1.4404, G ¼ connection | 1400-9600 |
| Stainless steel 1.4404, ¼ NPT connection | 1400-9601 |
| Mounting base according to EN 60715 | |
| G-profile rail 32 (2 pcs. required) | 1400-5930 |
| For 35 mm rail mounting (2 pcs. required) | 1400-5931 |
| Mounting plate for wall mounting including fastening screws | 1400-6726 |

| Accessories for K _{V5} 0.32 | |
|--|------------------|
| Designation | Order no. |
| Restrictor plate | |
| With exhaust air restrictor and safety plate, K _{V5} 0 to 0.27, adjustable; made of aluminum with Ematal coating | 100088769 |
| With exhaust air restrictor and safety plate, K _{V5} 0.002 to 0.27, adjustable; made of aluminum with Ematal coating SIL | 100087311 |
| With exhaust air restrictor and lock nut, K _{V5} 0 to 0.28, adjustable; made of aluminum, powder coated, gray beige | 100200794 |
| With exhaust air restrictor and lock nut, K _{V5} 0.01 to 0.28, adjustable; made of aluminum, powder coated, gray beige SIL | 100200795 |
| With exhaust air restrictor and lock nut, K _{V5} 0 to 0.28, adjustable; made of stainless steel 1.4404 | 100200796 |
| With exhaust air restrictor and lock nut, K _{V5} 0.01 to 0.28, adjustable; made of stainless steel 1.4404 SIL | 100200797 |
| With supply air restrictor and safety plate, K _{V5} 0 to 0.27, adjustable; made of aluminum with Ematal coating | 100084937 |
| With supply air restrictor and safety plate, K _{V5} 0.002 to 0.27, adjustable; made of aluminum with Ematal coating SIL | 100084935 |
| With supply air restrictor and lock nut, K _{V5} 0 to 0.28, adjustable; made of aluminum, powder coated, gray beige | 100200790 |
| With supply air restrictor and lock nut, K _{V5} 0.01 to 0.28, adjustable; made of aluminum, powder coated, gray beige SIL | 100200791 |
| With supply air restrictor and lock nut, K _{V5} 0 to 0.28, adjustable; made of stainless steel 1.4404 | 100200792 |
| With supply air restrictor and lock nut, K _{V5} 0.01 to 0.28, adjustable; made of stainless steel 1.4404 SIL | 100200793 |
| Adapter plate for NAMUR interface ¼ on NAMUR rib ¼ with external connections | |
| Aluminum with Ematal coating, G ¼ connection | 1402-0695 |
| Aluminum, powder coated, gray beige RAL 1019, ¼ NPT connection | 1402-0697 |
| Stainless steel 1.4404, G ¼ connection | 1402-0696 |
| Stainless steel 1.4404, ¼ NPT connection | 1402-0698 |
| Double-axial adapter | |
| 90°, aluminum, powder coated, gray beige RAL 1019 | 1993-0089 |
| 270°, aluminum, powder coated, gray beige RAL 1019 | 1993-0220 |
| 180°, aluminum, powder coated, gray beige RAL 1019 | 1402-0280 |
| Adapter plate for NAMUR interface ¼ on NAMUR rib ½ | |
| Aluminum with Ematal coating | 1380-1652 |
| Stainless steel 1.4404 | 1380-1797 |
| Adapter plate with NAMUR interface ¼ | |
| For SAMSON Type 3351 | 1402-0095 |
| For SAMSON Type 3353 and Type 3354 | 1409-3001 |
| Hex socket head screw M5x6 (required in addition to 1409-3001) | 8333-1237 |
| M5 seal (required in addition to 1409-3001) | 0790-6118 |
| Mounting block for SAMSON Type 3277 Pneumatic Actuator | |
| G ¼ connection | 1400-8817 |
| ¼ NPT connection | 1400-8818 |
| Pressure gauge mounting block, 1x Output and 1x Supply, made of stainless steel/brass (for mounting block) | 1400-6950 |
| Piping for actuator with fail-safe action "stem retracts" | |
| 240 cm² actuator area, zinc-plated steel | 1400-6444 |
| 240 cm² actuator area, CrNiMo steel | 1400-6445 |
| 350 cm² actuator area, zinc-plated steel | 1400-6446 |
| 350 cm² actuator area, CrNiMo steel | 1400-6447 |
| 700 cm² actuator area, zinc-plated steel | 1400-6448 |
| 700 cm² actuator area, CrNiMo steel | 1400-6449 |

| Accessories for K_{VS} 1.4 and 2.0 | |
|--|------------------|
| Designation | Order no. |
| Adapter plate for NAMUR rib acc. to IEC 60534-6-1 | |
| Aluminum, powder coated, gray beige RAL 1019, G ¼ connection | 1400-6751 |
| Aluminum with Ematal coating, ¼ NPT connection | 1400-9924 |
| Adapter plate for NAMUR interface ¼ on NAMUR rib ½ | |
| Aluminum, powder coated, gray beige RAL 1019 | 1380-1652 |
| Stainless steel 1.4404 | 1380-1797 |
| Distance plate with NAMUR interface ¼ on rotary actuators ¼ (K _{VS} 1.4 only) | |
| Aluminum with Ematal coating, G ¼ connection | 1400-9741 |
| Stainless steel 1.4404, G ¼ connection | 1402-0234 |
| Accessories for K_{VS} 4.3 and 2.9 | |
| Designation | Order no. |
| Adapter plate for NAMUR interface ½ to thread ½ | |
| Aluminum, powder coated, gray beige RAL 1019, G ½ connection | 0360-3945 |
| Aluminum, powder coated, gray beige RAL 1019, ½ NPT connection | 0360-3946 |
| Stainless steel 1.4404, G ½ connection | 0360-3947 |
| Stainless steel 1.4404, ½ NPT connection | 0360-3948 |
| Adapter plate for NAMUR interface ½ on NAMUR rib ½ | |
| Aluminum with Ematal coating | 1380-1795 |
| Stainless steel 1.4404 | 1380-1796 |
| Adapter plate for NAMUR rib acc. to IEC 60534-6-1 | |
| Aluminum, powder coated, gray beige RAL 1019, G ½ connection | 1402-0827 |
| Aluminum, powder coated, gray beige RAL 1019, ½ NPT connection | 1402-0829 |
| Stainless steel 1.4404, G ½ connection | 1402-0828 |
| Stainless steel 1.4404, ½ NPT connection | 1402-0830 |
| Double-axial adapter | |
| 90°, aluminum, powder coated, gray beige RAL 1019 | 1402-0602 |
| 90°, stainless steel 1.4404 | 1402-0603 |