Pilot-Operated NAMUR Valve for Process Actuation



6519 EExi

3/2- or 5/2-Way, PN 2 – 8 bar

- ✓ **PTB EEx ia IIC T6 approved**
- ✓ **FM IS / I, II, III / ABCDEFG approved**
- ✓ **High flow rates**
- ✓ **Long service life**
- ✓ **High and low impedance version available**

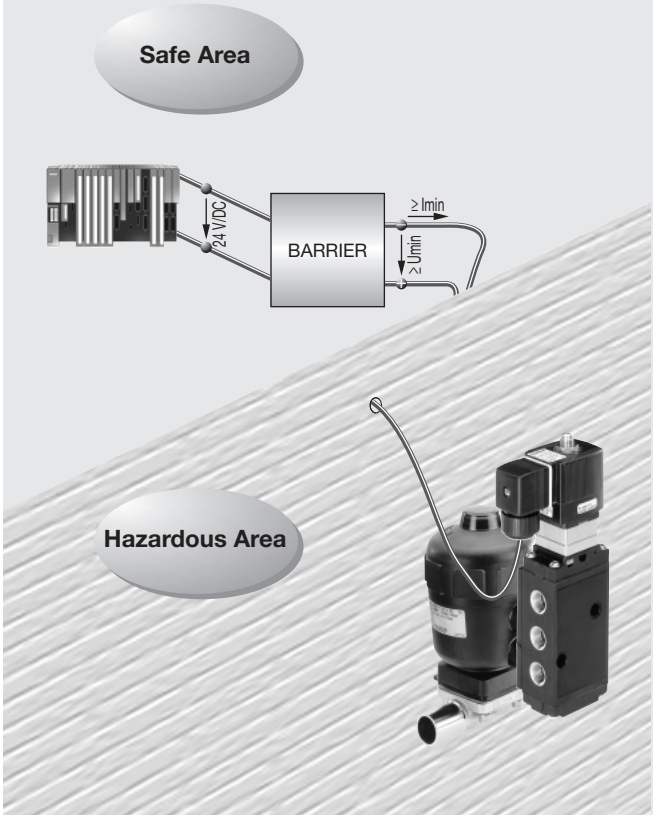
The 6519 EExi valves are used for process actuation in hazardous areas.
Thanks to the intrinsically safe design and the choice of corrosion resistant materials, the valves can be used in a wide variety of demanding applications.
The NAMUR flange allows easy mounting directly to process valves.

Its circuit function can easily be changed from H (5/2-way) to C (3/2-way) simply by changing the adapter plate, which is within scope of supply.

Process Specification

Nominal voltage	24 V/DC (for further information also consult our data sheet „Recommended Barriers“)
Pneumatic connections	
Supply port 1, 3 and 5	G 1/4
Service port 2 and 4	NAMUR flange
Protection class	IP 65 with cable plug
Materials	
Pilot valve	Brass or stainless steel (1.4305)
Body	PA (glass-fibre reinforced)
Seal	FPM, NBR + PUR
Fluids	Lubricated or unlubricated compressed air, instrument air and nitrogen
Ambient temperatures	-25 up to +55°C
Environmental conditions	Outdoor, chemical atmosphere
Cycling rate	100% continuously rated
Electrical connections	Tag connectors according to DIN 43650A for cable plug type 2508
Mounting position	Any, preferably solenoid system upright

Applications:
- Chemical industry
- Pharmaceutical processing equipment
- Industrial waste water treatment
- Oil and gas industry

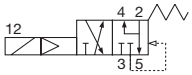


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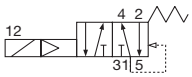
Technical Data

Circuit Function

C 3/2-way valve, servo-assisted, with exhaust air return, in de-energized position port 2 exhausted internally



H 5/2-way valve, servo-assisted, in de-energized position, port 1 connected to port 2, port 4 exhausted



Circuit function	Orifice DN [mm]	Q_{Nn}-Value (air) [l/min]	Pressure range [bar]	Response times opening [ms]	Response times closing [ms]	Weight [g]
C (3/2-way) and H (5/2-way)	6.0	900	2 – 8	75	115	670

Flow rate: Q_{Nn}-value air [l/min]
Measured at +20°C, 6 bar pressure at valve inlet and 1 bar pressure difference
Pressure ranges [bar]
Measured as overpressure to the atmospheric pressure
Response times [ms]
Measured at valve outlet at 6 bar and +20°C
Opening Pressure rise from 0 to 90%
Closing Pressure drop from 100 to 10%

Specifications - Ordering Chart (Other Versions on Request)

Delivered with adapter plate to change circuit functions.

Circuit function	Impedance	Orifice DN [mm]	Nominal pressure [bar]	Seal material	Body material (pilot)	Supply port material	Item-No.
H & C	Low	6.0	2 – 8	NBR + PUR	SS (1.4305)	SS	144 482 N
	Low				SS (1.4305)	Brass, nickel plated	144 483 P
	Low				Brass	Brass, nickel plated	147 244 H
	High				SS (1.4305)	SS	147 712 W
	High				SS (1.4305)	Brass, nickel plated	147 901 V

Stainless steel versions have connnection screws in stainless steel as well.

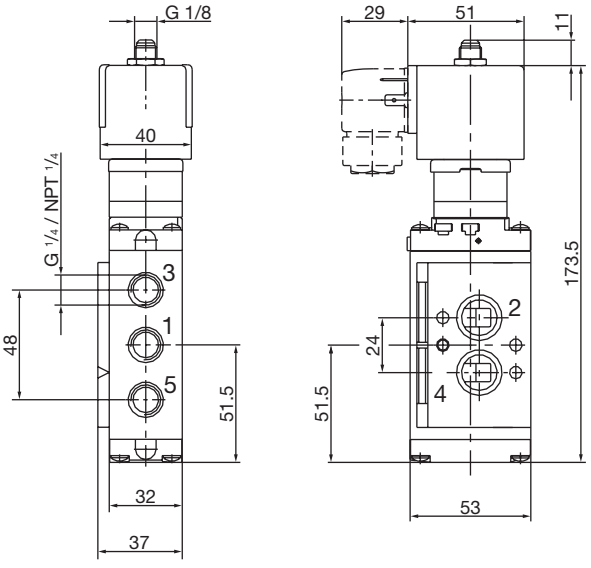
Ordering Chart Accessories



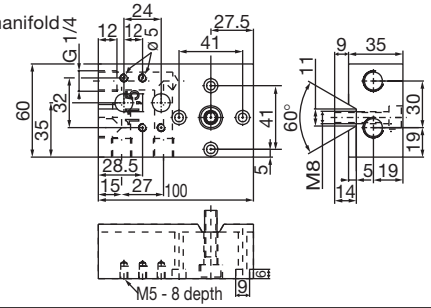
Item	Description	Material	Item-No.
Cap nut	Additional protection against moisture	Stainless steel	649 554 P

Dimensions [mm]

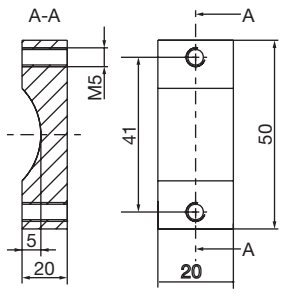
Type 6519 NAMUR EExi



NAMUR manifold



Assembly bracket



In case of special application requirements, please consult for advice.

We reserve the right to make technical changes without notice.
112-GB/ 1-0257

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