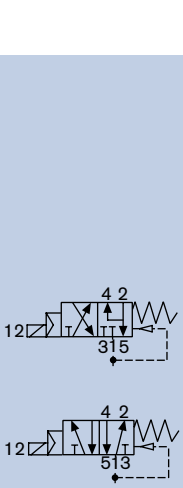
5/2- from 3/2-way Convertible Pneumatic Solenoid Valve, NAMUR Ex i Version

G 1/4" NAMUR

- Intrinsically Safe
- High flow rate
- High reliability
- Corrosion-resistant design



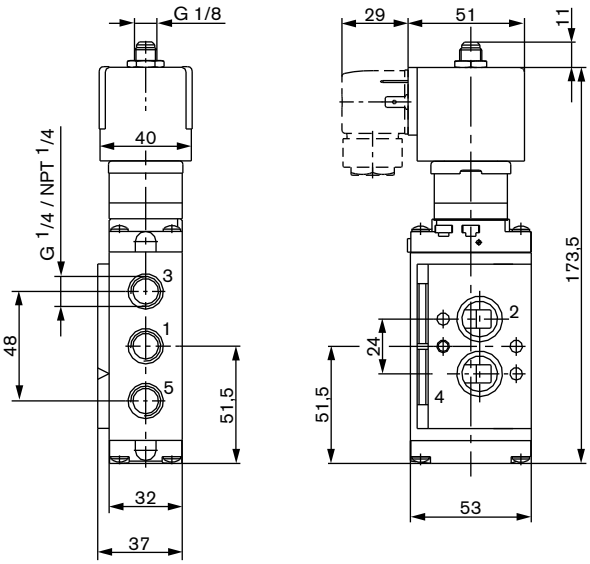
Type 6519 NAMUR Ex i is used for the pneumatic control of double or single-acting actuators with a NAMUR adapter plate flange. The circuit function can easily be changed using an adapter plate. In the 3/2-way function, feedback of the exhaust air takes place in the spring area of the armature drive. The diaphragm-controlled valve seats work with very low friction, ensuring reliable switching of the valve even after long shutdown periods and at ambient temperatures below 0 °C. The valves work without a continuous air consumption.

Technical Data

Orifice	DN6.0 mm
Body materials	
Pilot valve	Stainless steel 1.4305 or brass
Main valve	Polyamide, glass-fibre reinforced
Thread insert material	Stainless steel or brass, nickel plated
Seal materials	FKM, NBR and PUR
Pneumatic connection	
Supply ports 1,3,5	Threaded port G 1/4"
Service ports 2 and 4	NAMUR flange acc. to VDI/VDE 3845
Electrical connection	Tag connector acc. to DIN EN 175301-803 Form A (previously DIN 43650) for cable plug Type 2508 (not included). Ensure correct polarity!
Protection class	IP65 with cable plug
Ambient temperature	-25 °C to +55 °C
Medium	Lubricated or non-lubricated compressed air, instrument air, nitrogen
Environmental conditions	Open air, chemical atmosphere
Response times [1]	
Opening	75 ms
Closing	115 ms

[1] Measured at valve outlet at 6 bar and +20 °C acc. to ISO 12238.
Opening: Pressure rise 0 to 90%
Closing: Pressure drop 100 to 10%

Envelope Dimensions [mm] (see datasheet for details)

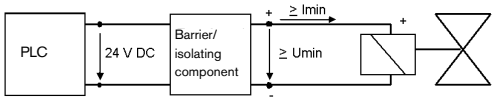


Options

- With manual override
- High impedance coil

Note

The units may only be used in explosive atmospheres in the manner approved by the Federal Institute of Physics and Technology (PTB), i.e., the permissible maximum electrical values must be complied with. Suitable barriers and isolating modules are available for this.



The valve is intended for operation on 24 VDC outputs via the intermediate switching of a corresponding intrinsically-safe operating resource (isolating module or barrier). If required, request the "Recommended Barrier and Isolating Module" data sheet.

Electrical data - coil AC10 Ex i		
Approval	II 2G Ex ia IIC T6 PTB 01 ATEX 2101 II 2D Ex ia D21 T 80°C	
Functional values for valve switching function[1]	**at +20°C**	**at +55°C**
Minimum switching current	29 mA	29 mA
Nominal resistance of the coil	310 Ω	360 Ω
Minimum terminal voltage	9.0 V	10.4 V
Permissible maximum values acc. to certificate of conformity		
Ui	35 V	
Ii	0.9 A	
Pi	1.1 W	

[1] With high impedance coil on request

Ordering Chart

Thread insert material	Port (P) [inch]	Orifice [mm]	QNn [l/min]	Pressure range [bar]	Item no.
Type 6519 NAMUR version, Ex i, 5/2-way convertible to 3/2-way 1)					
stainless steel	G 1/4	6	900	2 - 8	144 482
brass nickelplated	G 1/4	6	900	2 - 8	144 483
brass nickelplated	G 1/4	6	900	2 - 8	147 244