DATA SHEET

Type 0293





Direct-acting 2/2 way plunger valve

- Gas valve with DVGW approval acc. to EN 161, Group B
- Compact design
- Up to DN25 and 150 mbar
- Body in brass
- · Dirt filter in the inlet



Product variants described in the data sheet may differ from the product presentation and description.

Type description

Type 293 switches without pressure difference from zero bar. The valve is especially good for switching low-pressure combustible gases. The direct-acting solenoid valve is delivered with circuit function A. It is normally closed. Upon switching, the magnetic core is tightened against the spring and the valve opens. A filter is built-in to the inlet. A dirt trap $\leq\!500~\mu m$ (example our type TFU001) needs to be installed before the valve when using DN 25. This dirt trap needs to be accessible for maintenance.



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1. General technical data

Product properties						
Materials						
Body material	Brass					
Inner part valve	Stainless steel					
Seal material	NBR					
Duty cycle	100 % continuous rating					
Flow rate: K _v value water	Measured at +20 °C, 1 bar pressure at valve inlet and free outlet (flow rate values see					
Tiow rate. Ity value water	table below)					
Pressure values	Overpressure with respect to atmospheric pressure (pressure values see table below)					
Switching times	Measured at valve outlet at 150 mbar and +20 °C (switching times see table below)					
Opening	Pressure rise 090%					
Closing	Pressure relief 10010 %					
Special features	Sieve in inlet, for DN25 it is necessary to install a dirt filter, (max. 500 um) upstream of the valve, which is accessible during maintenance work, e.g. Type TFU001					
Electrical data						
Operating voltages	230 V/50 Hz / 230 V/UC					
Voltage tolerance	±10%					
Medium data						
Medium (for NBR)	Fuel gases of the 1st, 2nd and 3rd gas families					
Medium temperature (for NBR)	-15 °C+60 °C					
Approvals and Certificates						
DVGW	Group 2, class B					
Fulfilled standards	DIN EN 161					
Protection class	IP65 with cable plug acc. DIN EN 175301-803					
Product connections						
Orifice	DN20DN25 mm					
Port connection	Threaded ports G ¾ and G 1					
Electrical connection	Cable plug for Ø 7 mm cable (included in delivery)					
Environment and installation						
Ambient temperature	-15 °C+60 °C					
Ambient	Also open air (open cover recommended)					
Installation	As required, preferably with actuator upright					
Accessories						
Strainer	Brass body Detailed information can be found in chapter "4.4. Ordering chart accessories" on page 5.					

Orifice	Port connection	K _v value water	Pressure range	Response times ^{1.)}		Closing				Weight
				Opening	Closing	Inrush		Hold		
						AC	UC	AC	UC	
[mm]		[m³/h]	[mbar]	[ms]	[ms]	[VA]	[W]	[VA/W]	[W]	[kg]
20	G ¾	5.0	0150	130250	120150	100-120	100	25/16	9	1.3
25	G 1	10.0	0150	130250	120150	100-120	100	25/16	9	1.7

^{1.)} With UC coil, depending on duty cycle and ambient temperature max. 15 switchings/min.

2. Circuit functions

Circuit Function	Description
2 (A) 1 (P)	Type: A, solenoid valve 2/2 way Direct-acting Normally closed

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