DATA SHEET

Type 0285





Direct-acting 2/2 way plunger valve

- Gas valve with DVGW approval in accordance with EN 161, size A
- Compact design, up to DN 12/500 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

The direct acting plunger solenoid valve Type 0285 is normally closed by spring force. During switching the core of the seal is tightened against the spring force, and opens the valve. The inlet has a gauze fi lter fi tted. The valve is delivered as standard with a bracket fi tment. Type 0285 is best suited to fl ammable gases.



burkert

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1. General Technical Data

Material Seal NBR, FKM Body Brass Internal parts of valve Stainless steel 1.4105, 1.4571 Nominal diameter DN 6DN 12 Switching function Detailed information can be found in chapter "2. Circuit functions" on page 3. Special feature Gauze filter in inlet Performance data Duty cycle 100 % continuous operation Switching frequency ca. 1000/min Electrical data Operating voltage 24 V DC, 220230 V/50 Hz, 220230/UC Power consumption Detailed information can be found in chapter "4.1. Power consumption" on page 4. Voltage tolerance ±10 % Medium data Medium temperature NBR 0 °C+80 °C FKM 0 °C+80 °C Operating medium NBR Flammable mediums like energy gas, natural gas, liquid gas, acetylene, hydrogen FKM As NBR, however with more volatile substances, e.g. solvents, hydrosulphide etc. Process/Port connection & communication Medium connectors Internal thread Rp¼ and Rp½ according to DIN EN 10226-1 Electrical connection Cable plug for cable Ø 7 mm (included in delivery) Approvals and certificates Degree of protection IP65 with cable plug DVGW-Approval Group 2, Class A Fest regulations DIN EN 161 Environment and installation Installation instructions With retaining bracket	Product properties	
NBR, FKM	Dimensions	Detailed information can be found in chapter "3. Dimensions" on page 4.
Brass Internal parts of valve Stainless steel 1.4105, 1.4571 Nominal diameter DN 6DN 12 Switching function Detailed information can be found in chapter "2. Circuit functions" on page 3. Special feature Gauze filter in inlet Performance data Duty cycle 100 % continuous operation Switching frequency ca. 1000/min Electrical data Operating voltage 24 V DC, 220230 V/50 Hz, 220230/UC Power consumption Detailed information can be found in chapter "4.1. Power consumption" on page 4. Voltage tolerance 10 % Medium temperature NBR 0 ° C+80 ° C PFKM 0 ° C+80 ° C Operating medium NBR Flammable mediums like energy gas, natural gas, liquid gas, acetylene, hydrogen FKM As NBR, however with more volatile substances, e.g. solvents, hydrosulphide etc. Process/Port connection & communication Medium connectors Internal thread Rp¼ and Rp½ according to DIN EN 10226-1 Electrical connection Cable plug for cable Ø 7 mm (included in delivery) Approvals and certificates Degree of protection IP65 with cable plug DVGW-Approval Group 2, Class A Fest regulations Installation Installation Installation instructions With retaining bracket	Material	
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Woltage tolerance ±10 % Medium data Medium temperature NBR 0 °C+80 °C FKM 0 °C+80 °C Operating medium NBR Flammable mediums like energy gas, natural gas, liquid gas, acetylene, hydrogen As NBR, however with more volatile substances, e.g. solvents, hydrosulphide etc. Process/Port connection & communication Medium connectors Internal thread Rp¼ and Rp½ according to DIN EN 10226-1 Electrical connection Cable plug for cable Ø 7 mm (included in delivery) Approvals and certificates Degree of protection IP65 with cable plug DVGW-Approval Group 2, Class A Test regulations DIN EN 161 Environment and installation Installation position As required, preferably with actuator upright Installation instructions With retaining bracket	Operating voltage	24 V DC, 220230 V/50 Hz, 220230/UC
Medium temperature NBR 0 °C+80 °C FKM 0 °C+80 °C Operating medium NBR Flammable mediums like energy gas, natural gas, liquid gas, acetylene, hydrogen As NBR, however with more volatile substances, e.g. solvents, hydrosulphide etc. Process/Port connection & communication Medium connectors Internal thread Rp¼ and Rp½ according to DIN EN 10226-1 Electrical connection Cable plug for cable Ø 7 mm (included in delivery) Approvals and certificates Degree of protection IP65 with cable plug DVGW-Approval Group 2, Class A Test regulations DIN EN 161 Environment and installation Installation position As required, preferably with actuator upright Installation instructions With retaining bracket	Power consumption	Detailed information can be found in chapter "4.1. Power consumption" on page 4.
Medium temperature NBR 0 °C+80 °C PKM 0 °C+80 °C Operating medium NBR Flammable mediums like energy gas, natural gas, liquid gas, acetylene, hydrogen As NBR, however with more volatile substances, e.g. solvents, hydrosulphide etc. Process/Port connection & communication Medium connectors Internal thread Rp¼ and Rp½ according to DIN EN 10226-1 Electrical connection Cable plug for cable Ø 7 mm (included in delivery) Approvals and certificates Degree of protection IP65 with cable plug DVGW-Approval Group 2, Class A Test regulations DIN EN 161 Environment and installation Installation position As required, preferably with actuator upright Installation instructions With retaining bracket	Voltage tolerance	±10%
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Electrical connection Cable plug for cable Ø 7 mm (included in delivery) Approvals and certificates Degree of protection DVGW-Approval Group 2, Class A Test regulations DIN EN 161 Environment and installation Installation position As required, preferably with actuator upright Installation instructions With retaining bracket	Process/Port connection & comm	
Electrical connection Cable plug for cable Ø 7 mm (included in delivery) Approvals and certificates Degree of protection DVGW-Approval Group 2, Class A Test regulations DIN EN 161 Environment and installation Installation position As required, preferably with actuator upright Installation instructions With retaining bracket	Medium connectors	Internal thread Rp¼ and Rp½ according to DIN EN 10226-1
Approvals and certificates Degree of protection IP65 with cable plug DVGW-Approval Group 2, Class A Test regulations DIN EN 161 Environment and installation Installation position As required, preferably with actuator upright Installation instructions With retaining bracket	Electrical connection	
Degree of protection IP65 with cable plug DVGW-Approval Group 2, Class A Test regulations DIN EN 161 Environment and installation Installation position As required, preferably with actuator upright Installation instructions With retaining bracket	Approvals and certificates	MY/VV
DVGW-Approval Group 2, Class A Test regulations DIN EN 161 Environment and installation Installation position As required, preferably with actuator upright Installation instructions With retaining bracket	Degree of protection	IP65 with cable plug
Test regulations DIN EN 161 Environment and installation Installation position As required, preferably with actuator upright Installation instructions With retaining bracket	DVGW-Approval	
Environment and installation Installation position As required, preferably with actuator upright Installation instructions With retaining bracket	Test regulations	
Installation position As required, preferably with actuator upright Installation instructions With retaining bracket	Environment and installation	
Installation instructions With retaining bracket	Installation position	As required, preferably with actuator upright
Ambient temperature 0 °C+60 °C	Installation instructions	
	Ambient temperature	0 °C+60 °C

2. Circuit functions

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



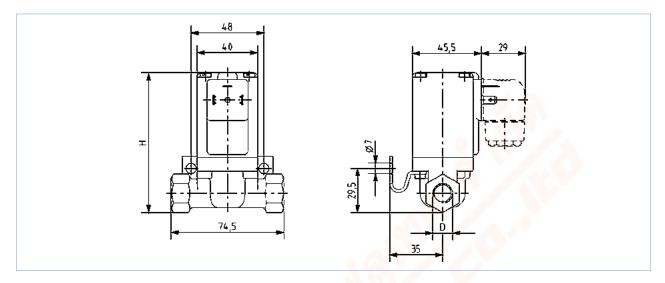
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3. Dimensions

Note:

- Valve with fitting bracket
- Dimensions in mm



Port connection	Н
Rp 1/4	93
Rp ½	95.5

4. Performance specifications

4.1. Power consumption

Orifice	e Port connection acc. to DIN EN 10226-1	K _v value water ^{1.)}	Pressure range ^{2.)}		Response times ^{3.)}		Power consumption			Weight
			AC	DC/UC	Opening	Closing	Inrush AC	Hold AC	DC	
[mm]		[m³/h]	[bar]	[bar]	[ms]	[ms]	[VA]	[VA/W]	[W]	[kg]
6	Rp ¼, Rp ½	0.7	3.5	3.5	1020	2030	3075	16/10	12	0.7
12	Rp ½	1.8	-	0.2						0.7
12	Rp ½	1.8	0.5	-						0.7

- 1.) Measured at +20 °C, 1 bar^{2.)} pressure at valve inlet and free outlet
- 2.) Overpressure to atmospheric pressure
- 3.) Response times: measured with water at valve outlet at 6 bar and +20 °C. Opening: pressure build-up 0...90 %, closing: pressure decay 100...10 %



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5. Ordering information

5.1. Bürkert eShop - Easy ordering and quick delivery



Bürkert eShop - Easy ordering and fast delivery

You want to find your desired Bürkert product or spare part quickly and order directly? Our online shop is available for you 24/7. Sign up and enjoy all the benefits.

Order online now

5.2. Bürkert product filter



Bürkert product filter - Get quickly to the right product

You want to select products comfortably based on your technical requirements? Use the Bürkert product filter and find suitable articles for your application quickly and easily.

Try out our product filter

5.3. Ordering chart

Note:

- All valves with brass body and with cable plugs
- Fitting bracket included in delivery unless otherwise stated
- All UC (AC/DC) with integrated rectifier

Circuit function	Orifice [mm]	Port con- nection DIN EN 10226-1	K _v value water [m³/h]	rate at P _{max}	Pressure range	Remark	Seal material	Voltage/ Frequency	Article no.
					[bar]			[V/Hz]	
A, solenoid valve	6.0	Rp 1/4	0.7	41	03.5	_	NBR	230/50	041910 ≒
2/2 way Direct-acting		Rp ½	0.7	41	03.5	_		24/DC	047782 ≒
Normally closed					03.5	_		230/50	057044 ≒
2 (A)					03.5	without fitting bracket		230/50	072896 ≒
					03.5	_		230/UC	043765 ≒
11 (P)					03.5	low-noise		230/UC	088689 ≒
					03.5	_	FKM	230/50	055012 ≒
					02.0	_		230/UC	047750 ≒
	12.0	Rp ½	1.8	33	00.2	_	NBR	24/DC	023552 ≒
		Etilid Co.		33	00.5	_		230/50	043582 ≒
				33	00.5	without fitting bracket		230/50	043757 ≒
				21	00.2	_		230/UC	020807 📜
				21	00.2	low-noise		230/UC	021510 🖫
				33	00.5	_	FKM	230/50	067200 ≒
				21	00.2	low-noise	<u> </u>	230/UC	057691 🛱

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