

2/2 Directional Valves DN 5 and 10



For neutral gaseous and liquid fluids
Direct solenoid actuated poppet valves
Port size G 1/4 to G 1/2
Operating pressure 0 to 10 bar

Catalog Register
A 4

Publication 7501270.06.03.96

**OBsolete
DOCUMENT**
Technical
Reference
Only

Description (standard unit)

Solenoid valve for air, water, oil

Flow direction:	DN 5 optional DN 10 determined
Temperature min.:	DN 5 -25 °C DN 10 -20 °C
Temperature max.:	Fluid +80 °C Ambience +55 °C
Mounting position:	Optional, preferably solenoid vertical
Material used:	
– Body:	Brass
– Seat seal:	NBR (Perbunan) FKM (Viton) PTFE (Teflon) EPDM
– Inner parts:	Stainless steel, brass

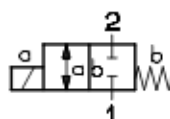
For contaminated fluids insertion of a dirt trap is recommended (see accessories).

Features

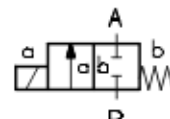
- Working from 0 bar up
- Suited for medium-high vacuum down to $1.33 \cdot 10^{-2}$ mbar
- Compact design



DN 5



DN 10



Switching function:
Normally closed

Parameters

DN	Line connection	Operating pressure [bar]		k _v -value (C _v (US) ≈ k _v x 1.2)	Material		Weight [kg]	Sectional drawing No.	Dimensional drawing No.	Cat. No.		Cat. No.	
		min.	max.		Body	Seat seal				Valve	Solenoid DC	Valve	Solenoid AC

Solenoid valves with basic protection

5	G 1/4	0	10	0.46	Ms	NBR	0.75	01	01	2102300.0801	2102300.0807
5	G 1/4	0	10	0.46	Ms	FKM	0.75	01	01	2102308.0801¹⁾	2102308.0807¹⁾
5	G 1/4	0	10	0.46	Ms	EPDM	0.75	01	01	2102318.0801	2102318.0807
10	G 1/2	0	10	1.00	Ms	NBR	0.95	01	02	2102500.0801	2102500.0807
10	G 1/2	0	10	1.00	Ms	FKM	0.95	01	02	2102503.0801¹⁾	2102503.0807¹⁾
10	G 1/2	0	10	1.00	Ms	EPDM	0.95	01	02	2102533.0801	2102533.0807
10	G 1/2	0	10	1.00	Ms	PTFE	0.95	01	02	2102507.0801³⁾	2102507.0807³⁾
10	NPT 1/2	0	10	1.00	Ms	NBR	0.95	01	02	2102506.0801	2102506.0807
10	G 1/2	0	10	1.00	Ms	NBR	0.95	01	02	2102535.0801²⁾	2102535.0807²⁾

Solenoid valves in protection class EEx d IIC T6/T5

5	G 1/4	0	10	0.46	Ms	NBR	1.20	01	03	2102310.3616	2102310.3617
5	G 1/4	0	10	0.46	Ms	FKM	1.20	01	03	2102312.3616	2102312.3617

State voltage [V] and frequency [Hz]

Solenoids

Standard voltages	DC	AC 40 ... 60 Hz	Other voltages on request
	24 V	230 V	

Designs to VDE 0580
100 % duty cycle

For more technical details on solenoids see:
Publication 7500784 (solenoids 08XX),
Publication 7502236 (solenoids 36XX).

Current draw:

Solenoid	DC	Solenoid	AC Inrush	Holding
0801	16 W	0807	18 VA	18 VA
3616	14 W	3617	15 VA	15 VA

Protection class to DIN 40050: IP 65

Electric connection:

Solenoid 080X: Connector to DIN 43650

Solenoid 36XX: Cable inlet 1/2-14 NPT

Further versions on request

- Body and inner parts of stainless steel
- Seat seal of FKM (Viton)
- With manual override 351 (hand wheel) or 360 (push button)
- In protection classes (Ex)s, EEx e
- In protection class (Ex)d 3n G5

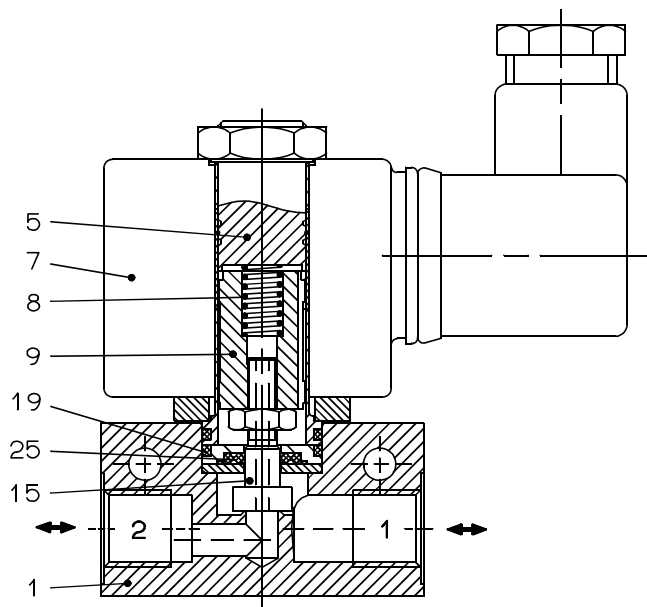
¹⁾ Suitable for oxygen

²⁾ Manual override with detent

³⁾ Suitable for liquid fluids only

Sectional drawing

01



- 1 Body
- 5 Core tube
- 7 Solenoid
- 8 Spring *
- 9 Plunger
- 15 Spindle assly. *
- 19 O-ring *
- 25 Washer *

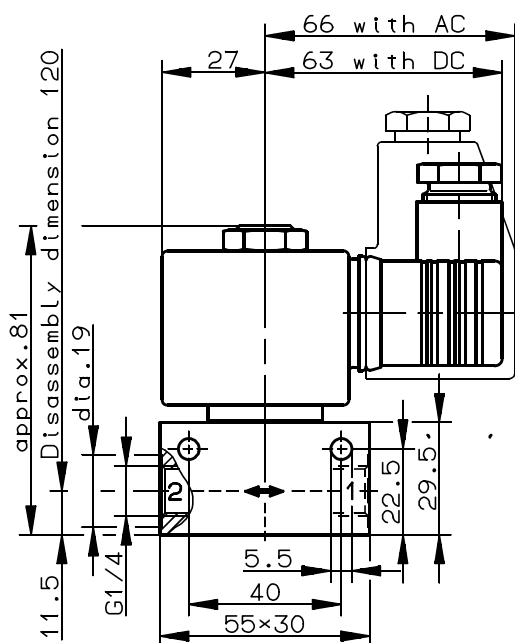
All parts marked with an asterisk are included in spare parts kit.
When ordering spares, please state also valve Cat. No.

Spare parts kits

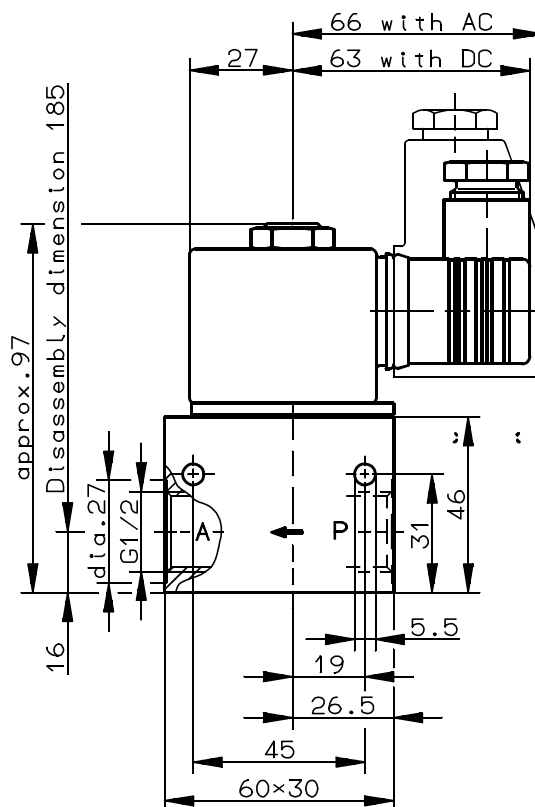
Cat. No. Valve	Cat. No. Spare parts kit
2102300	0602793
2102308	0603464
2102310	0605244
2102312	0605242
2102318	0610503
2102500	0602794
2102503	0604147
2102506	0602794
2102507	0604148
2102533	0606793
2102535	0610392

Dimensional drawings

01



02



Dimensional drawings

03

