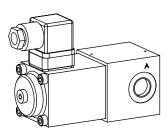


Solenoid operated poppet valve

Installation in pipes

- ◆ 2/2-way
- ◆ normally open and normally closed
- ◆ threaded connection 3/8"
- \bullet $\Omega_{max} = 40 \text{ l/min}$
- ightharpoonup p_{max} = 350 bar

NG6	
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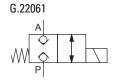
DESCRIPTION

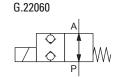
Direct operated 2/2-way solenoid poppet valve for installation in pipes. By means of the pressure tight switching solenoid, the poppet valve spool is opened or closed acting against the spring. Due to the poppet spool construction with pressure compensation on both sides, the flow through the valve is possible in both directions. The seat spool guide is sealed by means of an O-ring. The metallically sealing seat closes the valve virtually leak free.

APPLICATION

Poppet valves are used where tight closing functions of the valve are essential like leakage-free load holding, clamping or gripping.

SYMBOL





TYPE CODE

Threaded connection						G	2 2 	06 [- [# [_
Solenoid, Medium Solenoid, Super		M S											l
2 way (connections)													1
2 switching positions													1
Nominal size 6													l
Normally closed Normally open		0											
Nominal voltage U _N	12 VDC 24 VDC	G12 G24	115 VAC 230 VAC	R115 R230									1
Sealing material	NBR FKM (Viton)	D1											1
Design index (subject to change)													Ì

COMMISSIONING

Attention!

1 11-2840

When commissioning, the valve must be vented under pressure (max. 2 rotations of screw E).

ACTUATION

Actuation	Switching solenoid, wet pin push type, pressure tight
Execution	Medium: SIN45V (Data sheet 1.1-120) Super: SIS45V (Data sheet 1.1-125)
Connection	Connector socket EN 175301 – 803



GENERAL SPECIFICATIONS

Designation	2/2-way poppet valve
Construction	Direct operated
Mounting	Installation in pipes
Nominal size	NG6
Connection	Threaded connection G3/8"
Actuation	Switching solenoid
Ambient temperature	-25+70 °C (NBR) -20+70 °C (FKM)
Weight	≤ 1,7 kg
MTTFd	150 years

ELECTRICAL SPECIFICATIONS

Protection class	IP65
Relative duty factor	100 % DF
Switching frequency	15'000 / h
Service life time	10 ⁷ (number of switching cycles, theoretically)
Voltage tolerance	± 10 % with regard to nominal voltage
Standard nominal voltage	12 VDC, 24VDC, 115 VAC, 230 VAC AC = 50 to 60 Hz, rectifier integrated in the connector socket

Note!

Other electrical specifications see data sheet 1.1-120 (Medium) and 1.1-125 (Super)

SEALING MATERIAL

NBR or FKM (Viton) as standard, choice in the type code

HYDRAULIC SPECIFICATIONS

Working pressure	Medium: p _{max} = 160 bar Super: p _{max} = 350 bar
Maximum volume flow	Q _{max} = 40 l/min, see characteristic
Volume flow direction	Any (see characteristic)
Leakage oil	Seat tight, max. 0,05 ml / min (approx. 1 drop / min) at 30 cSt
Fluid	Mineral oil, other fluid on request
Viscosity range	12 mm²/s320 mm²/s
Temperature range fluid	-20+70 °C
Contamination efficiency	Class 20 / 18 / 14
Filtration	Required filtration grade β 1016 \geq 75, see data sheet 1.0-50

STANDARDS

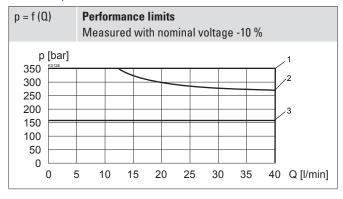
Solenoids	DIN VDE 0580
Connection execution D	EN 175301 – 803
Protection class	EN 60 529
Contamination efficiency	ISO 4406

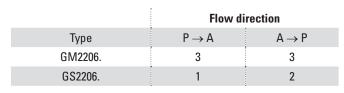
SURFACE TREATMENT

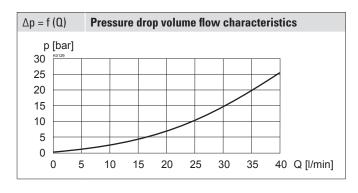
◆ The valve body, the solenoid, the cover and the socket head srews are zinc coated

PERFORMANCE SPECIFICATIONS

Oil viscosity $\upsilon = 30 \text{ mm}^2/\text{s}$







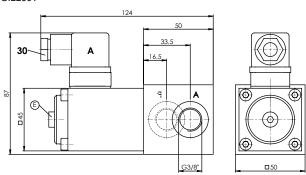


VALVES INSTALLED

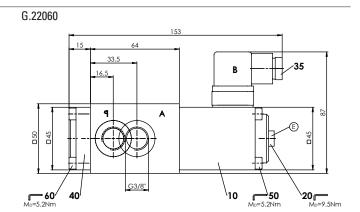
The central functioning element is the poppet valve cartridge NG6, data sheet 1.11-2030.

DIMENSIONS

G.22061



E = Air bleed screw



PARTS LIST

Position	Article	Description
10	260.6 260.7	Solenoid SIN45V Solenoid SIS45V
20	239.2033	Screw plug HB0 (incl. seal)
30	219.2001	Electric plug A (grey)
35	219.2002	Electric plug B (black)
40	058.4215	Cover
50	246.2160	Socket head screw M5 x 60 DIN 912
80	246.2117	Socket head screw M5 x 16 DIN 912

MANUAL OVERRIDE

Screw plug (HB0), no actuation possible Optionally: HB6; HN(K) or HR(K)

→ See data sheet 1.1-311

INSTALLATION NOTES

Mounting position	Any, preferably horizontal

ACCESSORIES

Technical explanations	Data sheet 1.0-100
Hydraulic fluids	Data sheet 1.0-50
Filtration	Data sheet 1.0-50
Relative duty factor	Data sheet 1.1-430