

- > Port size: 1/4" (ISO G or NPT), NAMUR Interface
- > Main application: Single and double acting actuators
- > TÜV-approval based on type examination DGRL 97/23/EC and IEC 61508, multichannel up to SIL 3 (12 years)
- > Add-on manual override or inductive limit switches on request
- > Suited for outdoor use under critical environment conditions.
- > Variable valve solenoid combination



Technical features

Medium:

Compressed air, filtered, non-lubricated and dry. Other gas and liquid fluids on request. (Viscosity for gaseous or liquid fluids up to 40 mm²/s)

Operation:

Direct solenoid operated poppet valve

Operating pressure:

0 ... 10 bar (0 ... 145 psi)

Orifice:

5 mm

Flow:

Gaseous fluids: 340 l/min
Liquid fluids: Cv 0,34

Port size:

G1/4, 1/4 NPT
NAMUR Interface with integrated recirculation from the exhaust air to the actuator spring chamber

Flow direction:

Optional

Mounting position:

Any, but preferably with solenoid vertical

Ambient/Media temperature:

NBR:
-25 ... +80°C (-13 ... +176°F)
FPM:
-10...+120°C (+14 ... +248°F)
Water +95°C (+203°F)
VMQ:
-40... +60°C (-40 ... +140°F)
Depending on solenoid system
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (35°F).
For outdoor installations must be protected all connections against the penetration of moisture and a solenoid with IP66 protection must be used!

Materials:

Body: Aluminium anodized (suitable for high humidity, sulphuric, sodium chloride or ammonia environments), brass 2.0401 (Ms 58) or stainless steel 1.4404 (316 L)
Seal: FPM, NBR, VMQ
Inner parts: stainless steel, brass

Flow conversion:

Cv US Gallon/min (water) =
l/min (air) x 0,001
Kv m³/h (water) =
l/min (air) x 0,000906

Technical data

Housing: Brass

Symbol	Port size	Orifice (mm)	Operating pressure (bar) (psi)	Material Seat seal	Manual override	Test certificate IEC 61508 97/23/EC	Weight (kg)	Drawing No.	Solenoid group	Model *1)
	G1/4	5	0 ... 10 0 ... 145	NBR	Not possible	X —	0,65	1	A + B	2401103
	G1/4	5	0 ... 10 0 ... 145	NBR	Push only	X —	0,70	1	A + B	2401107
	G1/4	5	0 ... 10 0 ... 145	NBR	Turn and lock	— —	0,70	1	A + B	2401119
	G1/4	5	0 ... 10 0 ... 145	NBR	Not possible	X X	0,65	1	A + B	2401149
	G1/4	5	0 ... 10 0 ... 145	FPM	Not possible	X —	0,65	1	A + B	2401126
	G1/4	5	0 ... 10 0 ... 145	VMQ	Not possible	X —	0,65	1	A + B	2401153
	G1/4	5	0 ... 10 0 ... 145	VMQ	Semi automatic	X —	0,70	1	A + B	2401154
	1/4 NPT	5	0 ... 10 0 ... 145	NBR	Not possible	X X	0,65	1	A + B	2401138
	1/4 NPT	5	0 ... 10 0 ... 145	NBR	Push only	X —	0,70	1	A + B	2401148
	1/4 NPT	5	0 ... 10 0 ... 145	NBR	Turn and lock	— —	0,70	1	A + B	2401136
	1/4 NPT	5	0 ... 10 0 ... 145	NBR	Semi automatic	X —	0,70	1	A + B	2401140
	1/4 NPT	5	0 ... 10 0 ... 145	FPM	Not possible	X —	0,65	1	A + B	2401131
	1/4 NPT	5	0 ... 10 0 ... 145	VMQ	Not possible	X —	0,65	1	A + B	2401106
	1/4 NPT	5	0 ... 10 0 ... 145	VMQ	Push only	X —	0,70	1	A + B	1025226

*1) When ordering please indicate solenoid, voltage and current type (frequency).

• Particularly for valves with TÜV approval and attachment in plants based on safety standard IEC 61511, taking into account to the operating and maintenance instructions document 7503444.