



2/2 way Solenoid Valve Servo Operated for High Pressure

- Push-over solenoid system
- special versions, up to 250 bar, up to DN12
- stainless steel body

The servo-assisted Type 2400 valve has a servo-piston with a 2-way servo-control. It is designed for high pressures.

The speciality of this valve design lies in the layout of the seat and sealing element. An additional radial seal make very good sealing possible.

The tapered sealing element of the servocontrol permits the switching of high pressure at relatively low coil power.

| Technical data | |
|------------------------------|--|
| Body material | stainless steel, brass and brass, nickel-plated |
| Valve internals | stainless steel |
| Sealing material | PEEK/FKM; PCTFE/FKM; PTFE/FKM |
| Media | neutral gases and fluids |
| Medium temperature | |
| PEEK/FKM | -10 to +80 °C |
| PCTFE/FKM | -10 to +80 °C |
| PTFE/FKM | -10 to +80 °C |
| Ambient temperature | max. +55 °C |
| Viscosity | ca. 21 mm/s |
| Operating voltage | 24/DC 24/220 - 230 V / 50 Hz other voltages on request |
| Voltage tolerance | ± 10% |
| Cycling rate | ca. 80/min |
| Duty cycle | 100% continuous rating |
| Electrical connection | Cable plug (part of the delivery) |
| Protection class | IP65 with cable plug |
| Installation | as required, preferably with actuator upright |

Technical data

| Orifice [mm] | K _v value water [m/h] | Port connection | Pressure range | | Electrical power consumption | | | Response times | | Weight [kg] |
|-----------------|-------------------------------------|-----------------|----------------|----------|------------------------------|--------|------------|----------------|--------------|----------------|
| | | | AC [bar] | DC [bar] | | Inrush | Hold | Opening [ms] | Closing [ms] | |
| 5.0 | 0.6 | G ¼ | 1-250 | 1-200 | AC | 85 VA | 48 VA/20 W | 100 | 300 | 1.2 |
| 8.0 | 1.0 | G ⅜ | 1-250 | 1-210 | | | | bis | bis | 1.4 |
| 12.0 | 2.6 | G ½ | 1-250 | 1-160 | DC | 20 W | 20 W | 200 | 500 | 1.95 |

K_v value [m/h]: Flow rate value for water, measured at +20 °C and 1 bar pressure differential over a fully opened valve.

Pressure data [bar]: Overpressure with respect to atmospheric pressure

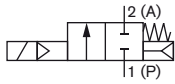
Response times [ms]: measured at valve outlet at 6 bar and +20 °C

Opening pressure build-up 0...90%

Closing: pressure relief 100...10%

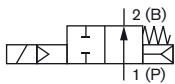
Circuit functions of the valve

Circuit function A



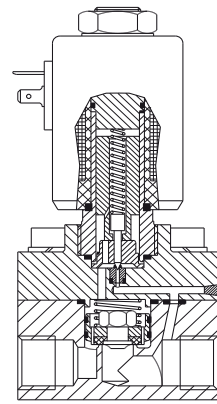
2/2 way servo-controlled solenoid valve, normally closed

Circuit function B

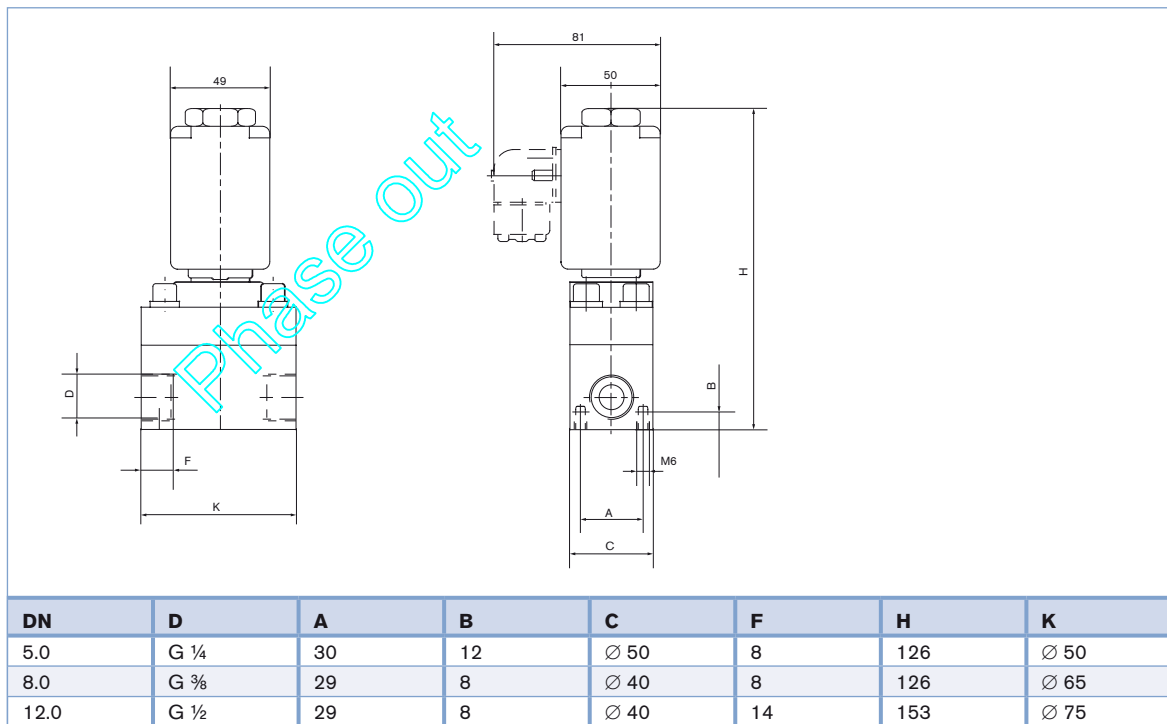


2/2 way servo-controlled solenoid valve, normally open

Schematic diagram



Dimensions [mm]



Ordering chart for valves (other versions on request)

| Circuit function | Orifice [mm] | Port connection | K _v value water [m/h] | Pressure range [bar] | Body material | Seal material | Voltage/frequency [V/Hz] | Article no. |
|------------------|--------------|-----------------|----------------------------------|----------------------|----------------------|---------------|--------------------------|-------------|
| A | 5.0 | G ¼ | 0.6 | 1 - 200 | Brass | PEEK/FKM | 24/DC | 002366 |
| | | | | 1 - 250 | Brass | PEEK/FKM | 220 - 230/50 | 002367 |
| | 8.0 | G ⅜ | 1.0 | 1 - 210 | Brass | PEEK/FKM | 24/DC | 002369 |
| | | | | 1 - 250 | Brass | PEEK/FKM | 24/50 | 132436 |
| | | | | | | | 230/50 | 002370 |
| | 12.0 | G ½ | 2.6 | 1 - 250 | Stainless steel | PCTFE/FKM | 24/DC | 000520 |
| | | | | | | | 24/50 | 134690 |
| | | | | | | | 220 - 230/50 | 000422 |
| | | | | 1 - 160 | Brass. nickel-plated | PTFE/FKM | 24/DC | 006725 |
| | | | | | | | 24/50 | 000284 |
| 220 - 230/50 | 000455 | | | | | | | |

- Circuit function B (normally open) and EEx ed IIC T4 model on request
- For spare part kit, please refer to Spare Part Catalogue.

Phase Out

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If case of special conditions,
please consult for advice.

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1801/04_EU-en_00891942