

# Product data sheet

Angle valve with soft-pump function Series 292, DN 100 (ID 4'') Ordering No. 29240-QA41-0001

### Description

Flange		ISO-K 100
Actuator		with solenoid valve with position indicator
	– Main – Softpump	Pneumatic, single acting with closing spring Pneumatic, single acting with closing spring
Feedthrough	– Main – Softpump	Shaft feedthrough Bellows
Technical data		
Leak rate (static)	<ul><li>Valve body</li><li>Valve seat</li></ul>	< 1 · 10 <sup>-9</sup> mbar Is <sup>-1</sup> < 1 · 10 <sup>-9</sup> mbar Is <sup>-1</sup>
Pressure range		$1 \cdot 10^{-7}$ mbar to 2 bar (abs)
Differential pressure on the plate	<ul> <li>In opening direction</li> <li>In closing direction</li> </ul>	≤ 1.2 bar ≤ 2 bar
Differential pressure at opening		$\leq$ 1 bar [1 bar with reduced number of cycles]
Conductance (molecular flow)		440 ls <sup>-1</sup>
Actuation time main	– Closing – Opening	≤ 1 sec. ≤ 1 sec.
Actuation time softpump	– Closing – Opening	≤ 0.2 sec. ≤ 0.2 sec.
Cycles until first service (Tmax 80°C, under clean conditions)	– Main – Softpump	1 million 3 million
Temperature (Maximum values: depending on operating conditions and sealing materials)	– Valve body – Actuator – Solenoid valve – Position indicator	≤ 150 °C ≤ 120 °C ≤ 50 °C ≤ 80 °C
Material	<ul> <li>Body main</li> <li>Body softpump</li> <li>Actuator</li> <li>Plate main</li> <li>Plate soft</li> <li>Feedthrough main</li> <li>Feedthrough soft</li> <li>Spring</li> <li>Snap ring for axle</li> </ul>	Aluminum (EN AC-42000) Aluminum (EN AW-6060) Aluminum Aluminum (EN AW 6082) AISI 316L (1.4404) Aluminum (EN AW 6082) AISI 316L (1.4404, 1.4435), AISI 316 Ti (1.4571) AISI 301 (1.4310) AISI 301 (1.4310)
Seal	<ul> <li>Bonnet O-ring</li> <li>Plate O-ring</li> <li>Feedthrough O-ring</li> <li>Actuator O-ring</li> </ul>	FKM (Viton®) FKM (Viton®) FKM (Viton®) FKM (Viton®)
Weight		9.5 kg / 21 lbs
Mounting position		any

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Volume of pneumatic actuator	– № – S
Compressed air min. – max. overpressure	– N – S
Compressed air connection	– N – S
Behavior in case of compressed air pressure drop	– V – V

Behavior in case of power failure

_	Main
_	Softpump

- Main
- Softpump
- Main
- Softpump
- Valve closed
- Valve opened
- During actuation
- Valve closed
- Valve opened
- During actuation

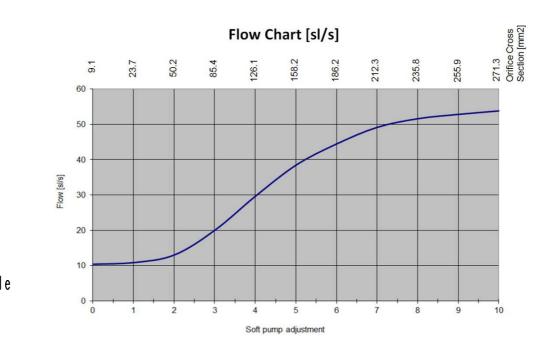
0.3 | / 0.01 ft3 0.011 | / 0.0004 ft3

4.5 – 7 bar / 65 – 102 psi 4 – 8 bar / 58 – 115 psi

G<sup>1</sup>/<sub>8</sub>" female M5 (10-32 UNF suitable)

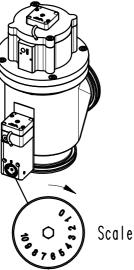
Valve remains closed and leaktight Valve closes leaktight Valve closes leaktight

Valve remains closed and leaktight Valve closes leaktight Valve closes leaktight



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#### Conductance diagram





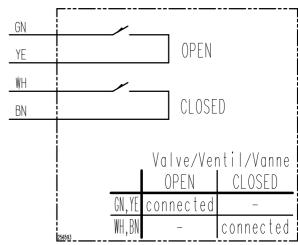
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#### **Electrical connection**

#### **Position indicator Main and** Soft

Туре	Micro switch
Voltage	$\leq 50$ V AC / DC
Current	5100 mA
Short circuit protected	No
Connection	cable, 4 wire
Cable length	500 mm
Wire cross section	0.25 mm²



#### Wiring diagram

#### **Solenoid valve Main** Туре 3/2 way Voltage See label on solenoid Connection type plug, male M8x1 Additional feature LED orange; overvoltage protection; adjustable

emergency operation; silencer

#### Solenoid valve Soft

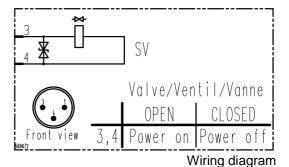
Туре Voltage

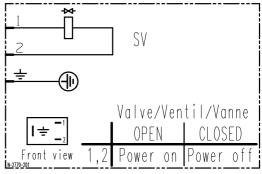
Connector

Cable

## 3/2-way

See label on solenoid Rectangle plug, Type B (DIN standard) Ø6 – 8 mm





Wiring diagram

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