

Product data sheet

Angle valve with soft-pump function Series 292, DN 100 (ID 4") Ordering No. 29240-QE44-0001

Description

Flange ISO-K 100

Actuator with solenoid valve

with position indicator

Main
 Pneumatic, double acting

Softpump
 Pneumatic, single acting with closing spring

Feedthrough – Main Shaft feedthrough

SoftpumpBellows

Technical data

Leak rate (static) - Valve body $< 1 \cdot 10^{-9}$ mbar ls⁻¹

- Valve seat < 1 · 10⁻⁹ mbar Is⁻¹

Pressure range $1 \cdot 10^{-7}$ mbar to 2 bar (abs)

Differential pressure on the plate − In opening direction ≤ 1.2 bar

- In closing direction ≤ 2 bar

Differential pressure at opening \leq 1 bar [1 bar with reduced number of cycles]

Conductance (molecular flow) 440 Is⁻¹

Actuation time main - Closing ≤ 1 sec.

- Opening \leq 1 sec.

Actuation time softpump — Closing $\leq 0.2 \text{ sec.}$

- Opening ≤ 0.2 sec.

Cycles until first service – Main 2 million (Tmax 80°C, under clean – Softpump 3 million

conditions)

Temperature - Valve body \leq 150 °C (Maximum values: depending on operating conditions and - Solenoid valve \leq 50 °C

sealing materials) — Position indicator ≤ 80 °C

Material – Body main AISI 316L (1.4404)

Body softpump AISI 316L (1.4404)

ActuatorAluminum

Plate main
 Plate soft
 Feedthrough main
 AISI 316L (1.4404)
 AISI 304 (1.4301)

- Feedthrough soft AISI 316L (1.4404, 1.4435), AISI 316 Ti (1.4571)

Seal – Bonnet O-ring FKM (Viton®) – Plate O-ring FKM (Viton®)

- Feedthrough O-ring FKM (Viton®)
- Actuator O-ring FKM (Viton®)

Weight 12 kg / 26 lbs

Mounting position any

Volume of pneumatic actuator — Main 0.3 I / 0.01 ft3

Softpump 0.011 I / 0.0004 ft3

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Compressed air - Main 4.5 - 7 bar / 65 - 102 psi 4 – 8 bar / 58 – 115 psi min. - max. overpressure - Softpump

Compressed air connection G1/8" female Main

- Softpump M5 (10-32 UNF suitable)

Behavior in case of compressed

air pressure drop

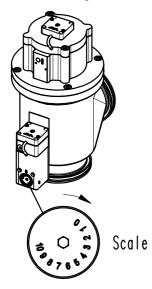
Behavior in case of power failure

- Valve closed depending on customer installation depending on customer installation - Valve opened - During actuation depending on customer installation

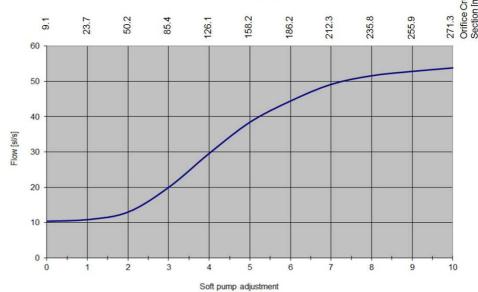
- Valve closed valve remains closed and leaktight - Valve opened valve closes leaktight

- During actuation valve closes leaktight

Conductance diagram



Flow Chart [sl/s]



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Electrical connection

Position indicator Main and

Soft

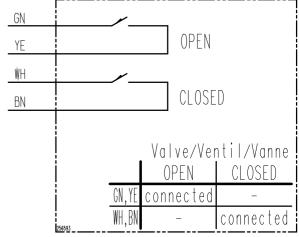
Type Micro switch Voltage $\leq 50 \text{ V AC / DC}$ Current 5...100 mA

Short circuit protected No

Connection cable, 4 wire

Cable length 500 mm

Wire cross section 0.25 mm²



Wiring diagram

Solenoid valve Main

Type 5/2 way

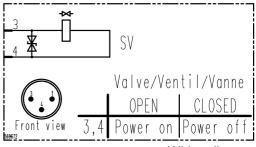
Voltage See label on solenoid

Connection type plug, male M8x1

Additional feature LED orange; overvoltage

protection; adjustable emergency operation;

silencer



Wiring diagram

Solenoid valve Soft

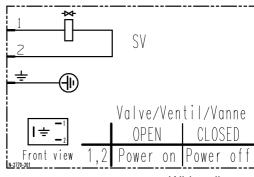
Type 3/2-way

Voltage See label on solenoid

Connector Rectangle plug,

Type B (DIN standard)

Cable Ø6 – 8 mm



Wiring diagram

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