

Product data sheet

Angle valve with soft-pump function Series 292, DN 100 (ID 4") Ordering No. 29240-QE24-0001

Description

Flange ISO-K 100

Actuator without solenoid valve

with position indicator

Main
 Pneumatic, double acting

Softpump Pneumatic, single acting with closing spring

Feedthrough – Main Shaft feedthrough

Softpump Bellows

Technical data

Leak rate (static) – Valve body $< 1 \cdot 10^{-9}$ mbar Is⁻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 ≤ 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 ≤ 150 °C (Maximum values: depending – Actuator ≤ 120 °C on operating conditions and – Position indicator ≤ 80 °C

on operating conditions and sealing materials)

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
 Actuator O-ring
 FKM (Viton®)
 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 min. - max. overpressure - Main - Softpump

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

Compressed air connection

1/8" ISO/NPT female Main - Softpump M5 (10-32 UNF suitable)

Behavior in case of compressed

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

air pressure drop

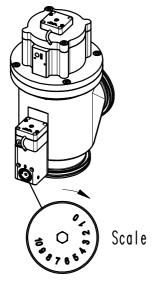
- During actuation

depending on customer installation

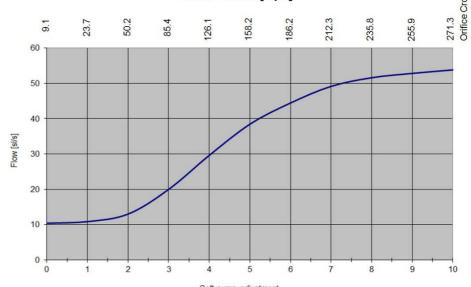
Behavior in case of power failure

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

Conductance diagram



Flow Chart [sl/s]



Soft pump adjustment

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Electrical connection

Position indicator Main and

Soft

Type Micro switch

Voltage $\leq 50 \text{ V AC / DC}$

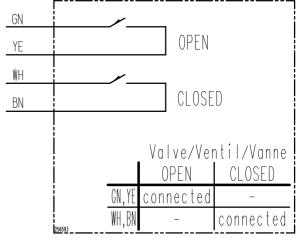
Current 5...100 mA

Short circuit protected No

Connection cable, 4 wire

Cable length 500 mm

Wire cross section 0.25 mm²



Wiring diagram

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