

Product data sheet

Angle valve with soft-pump function Series 292, DN 100 (ID 4") Ordering No. 29240-QA21-0001

Description

ISO-K 100 Flange

Actuator without solenoid valve

with position indicator

- Main Pneumatic, single acting with closing spring Softpump Pneumatic, single acting with closing spring

Feedthrough - Main Shaft feedthrough

> **Bellows** - Softpump

Technical data

Leak rate (static) Valve body < 1 · 10⁻⁹ mbar ls⁻¹

- Valve seat $< 1 \cdot 10^{-9} \, \text{mbar Is}^{-1}$

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

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 \leq 1 sec.

> - Opening \leq 1 sec.

Actuation time softpump Closing \leq 0.2 sec.

- Opening \leq 0.2 sec.

Cycles until first service - Main 1 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

sealing materials)

 Position indicator ≤ 80 °C

Material - Body main Aluminum (EN AC-42000)

Aluminum (EN AW-6060) Body softpump

- Actuator Aluminum

- Plate main Aluminum (EN AW 6082) Plate soft AISI 316L (1.4404) - Feedthrough main Aluminum (EN AW 6082)

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

- Spring

AISI 301 (1.4310) - Snap ring for axle AISI 301 (1.4310)

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

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

Weight 9.5 kg / 21 lbs

Mounting position any

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Volume of pneumatic actuator

- Main 0.3 I / 0.01 ft3 0.011 I / 0.0004 ft3 - Softpump

Compressed air

Main min. - max. overpressure - Softpump

4 – 8 bar / 58 – 115 psi

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

Behavior in case of compressed

air pressure drop

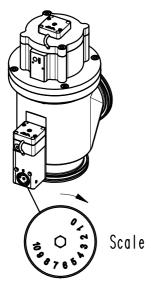
- Valve closed Valve remains closed and leaktight

- Valve opened Valve closes leaktight - During actuation Valve closes leaktight

- Valve closed Valve remains closed and leaktight Behavior in case of power failure

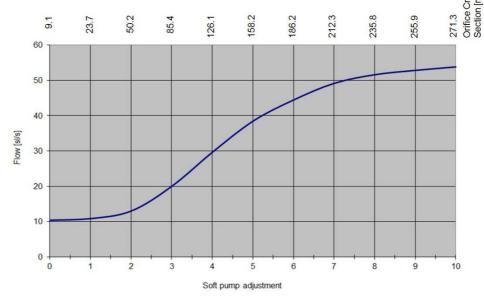
- Valve opened Depending on customer installation - During actuation Depending on customer installation

Conductance diagram



Flow Chart [sl/s]

4.5 - 7 bar / 65 - 102 psi



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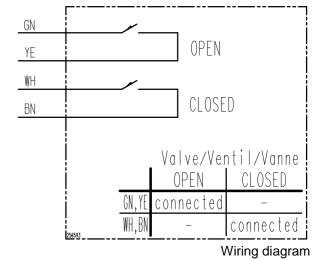
Electrical connection

Position indicator

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



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