

## Product data sheet

# Angle valve with soft-pump function Series 292, DN 100 (ID 4") Ordering No. 29240-QA44-0001

### **Description**

Flange ISO-K 100

Actuator with solenoid valve with position indicator

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<sup>-1</sup>

- Valve seat < 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 − 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<sup>-1</sup>

Actuation time main - Closing  $\leq 1$  sec.

- Opening  $\leq$  1 sec.

Actuation time softpump - Closing  $\leq 0.2$  sec.

- Opening ≤ 0.2 sec.

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

conditions)

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

sealing materials) — Position indicator ≤ 80 °C

Material – Body main Aluminum (EN AC-42000)

- Body softpump Aluminum (EN AW-6060)

ActuatorAluminum

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

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-ringActuator O-ringFKM (Viton®)FKM (Viton®)

Weight 9 kg / 20 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

Compressed air connection

Behavior in case of compressed

air pressure drop

Behavior in case of power failure

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

− MainG¼" female

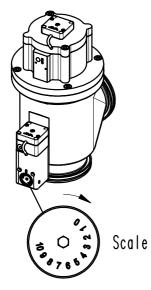
Softpump
 M5 (10-32 UNF suitable)

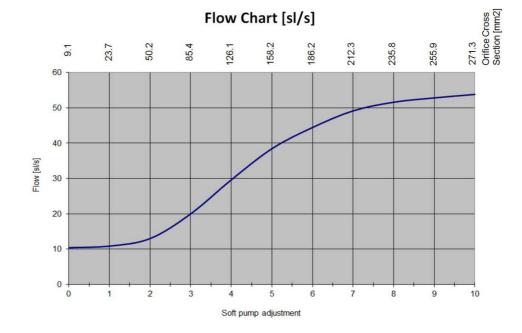
Valve closed depending on customer installation
 Valve opened depending on customer installation
 During actuation depending on customer installation

During actuation depending on customer installationValve closed valve remains closed and leaktight

Valve opened valve closes leaktightDuring actuation valve closes leaktight

## Conductance diagram





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#### **Electrical connection**

Position indicator Main and

Soft

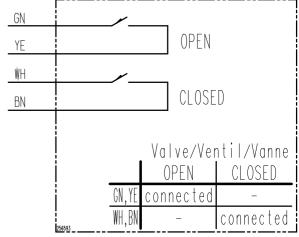
Type Micro switch Voltage  $\leq 50 \text{ V AC / DC}$  Current 5...100 mA

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

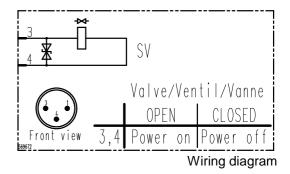
Voltage See label on solenoid

Connection type plug, male M8x1

Additional feature LED orange; overvoltage

protection; adjustable emergency operation;

silencer



### Solenoid valve Soft

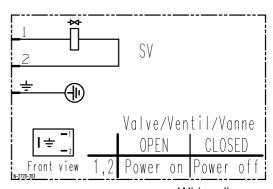
Type 3/2-way

Voltage See label on solenoid

Connector Rectangle plug,

Type B (DIN standard)

Cable Ø6 – 8 mm



Wiring diagram

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