

## Product data sheet

# Angle valve with soft-pump function Series 292, DN 100 (ID 4") Ordering No. 29240-QA34-0001

## **Description**

Flange ISO-K 100

Actuator with solenoid valve

without position indicator

- Main Pneumatic, double acting

Softpump Pneumatic, single acting with closing spring

Feedthrough - Main Shaft feedthrough

> - Softpump **Bellows**

**Technical data** 

 $< 1 \cdot 10^{-9} \, \text{mbar Is}^{-1}$ Leak rate (static) Valve body

- 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 ls<sup>-1</sup>

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 2 million 3 million Softpump

(Tmax 80°C, under clean

conditions) **Temperature** 

 Valve body ≤ 150 °C

(Maximum values: depending Actuator ≤ 120 °C on operating conditions and - Solenoid valve ≤ 50 °C

sealing materials)

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)

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

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

9 kg / 20 lbs Weight

Mounting position any

0.3 I / 0.01 ft3 Main Volume of pneumatic actuator

 Softpump 0.011 I / 0.0004 ft3

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

Compressed air connection — Main  $G\frac{1}{8}$ " female

Softpump
 M5 (10-32 UNF suitable)

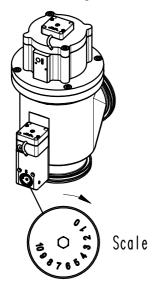
Behavior in case of compressed — Valve closed air pressure drop — Valve opened

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

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

Valve opened valve closes leaktightDuring actuation valve closes leaktight

### Conductance diagram



# Flow Chart [sl/s] 80.1 Flow Chart [sl/s] Flow Ch

Soft pump adjustment



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## **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

# SV Valve/Ventil/Vanne OPEN CLOSED Front view 3,4 Power on Power off

Wiring diagram

## Solenoid valve Soft

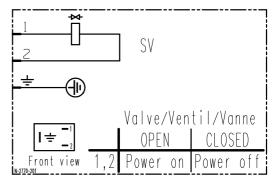
Type 3/2-way

Voltage See solenoid

Connector Rectangle plug,

Type B (DIN standard)

Cable Ø6 – 8 mm



Wiring diagram

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