

### Product data sheet

## Angle valve with soft-pump function Series 292, DN 100 (ID 4") Ordering No. 29240-QE34-0001

### **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 (Tmax 80°C, under clean Softpump

conditions)

Material

**Temperature**  Valve body ≤ 150 °C (Maximum values: depending Actuator ≤ 120 °C - Solenoid valve ≤ 50 °C

on operating conditions and

sealing materials)

- Body main AISI 316L (1.4404)

 Body softpump AISI 316L (1.4404)

- Actuator Aluminum

- Plate main AISI 316L (1.4404) Plate soft AISI 316L (1.4404) Feedthrough main 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

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 4 – 8 bar / 58 – 115 psi min. - max. overpressure - Softpump

G⅓" female Compressed air connection Main

> - Softpump M5 (10-32 UNF suitable)

Behavior in case of compressed

air pressure drop

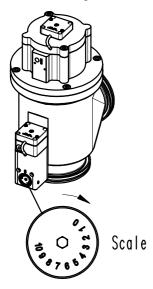
Behavior in case of power failure

- Valve closed depending on customer installation - Valve opened depending on customer installation - During actuation depending on customer installation - Valve closed valve remains closed and leaktight

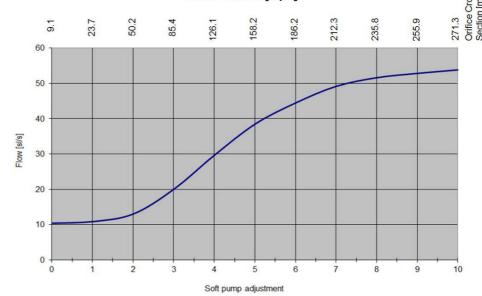
- Valve opened valve closes leaktight

- During actuation valve closes leaktight

#### Conductance diagram



### Flow Chart [sl/s]





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#### **Electrical connection**

**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

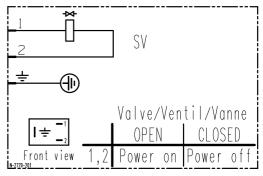
Type 3/2-way

Voltage See label on solenoid

Connector Rectangle plug,

Type B (DIN standard)

Cable Ø6 – 8 mm



Wiring diagram

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