

### Product data sheet

# Angle valve with soft-pump function Series 292, DN 100 (ID 4") Ordering No. 29240-QA14-0001

### **Description**

ISO-K 100 Flange

Actuator without solenoid valve

without position indicator

- Main Pneumatic, double acting

Softpump Pneumatic, single acting with closing spring

Feedthrough - Main Shaft feedthrough

> **Bellows** - Softpump

**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

on operating conditions and

sealing materials)

- Body main

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)

Aluminum (EN AC-42000)

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

Created by: LIN	Release date: 19.11.2013	1/2
Modified by:	Release date:	604136EA



## **Product data sheet**

# Angle valve with soft-pump function Series 292, DN 100 (ID 4") Ordering No. 29240-QA14-0001

Compressed air min. - max. overpressure

- Softpump

- Main

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

depending on customer installation

air pressure drop

- Valve opened - During actuation

depending on customer installation depending on customer installation

Behavior in case of power failure

- Valve closed - Valve opened

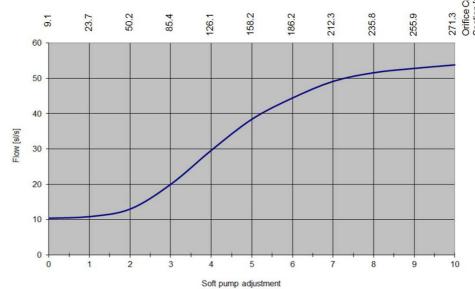
depending on customer installation depending on customer installation

- During actuation depending on customer installation

### Conductance diagram

# Scale

# Flow Chart [sl/s]



Created by: LIN	Release date: 19.11.2013	2/2
Modified by:	Release date:	604136EA