

Product data sheet

Angle valve with soft-pump function Series 292, DN 100 (ID 4") Ordering No. 29240-QE14-0001

Description

Flange ISO-K 100

Actuator without solenoid valve

without 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 Is⁻¹

- Valve seat < 1 · 10⁻⁹ mbar Is⁻¹

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⁻¹

Actuation time main - Closing ≤ 1 sec.

- Opening ≤ 1 sec.

Actuation time softpump — Closing $\leq 0.2 \text{ sec.}$

- Opening ≤ 0.2 sec.

Cycles until first service – Main 2 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)

Material – Body main AISI 316L (1.4404)

Body softpump AISI 316L (1.4404)

ActuatorAluminum

Plate main
Plate soft
Feedthrough main
AISI 316L (1.4404)
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
Actuator O-ring
FKM (Viton®)
FKM (Viton®)

Weight 12 kg / 26 lbs

Mounting position any

Volume of pneumatic actuator — Main 0.3 I / 0.01 ft3

Softpump 0.011 I / 0.0004 ft3

Created by: LIN	Release date: 19.11.2013	1/2
Modified by:	Release date:	604141EA



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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 - Valve opened depending on customer installation depending on customer installation

air pressure drop

- During actuation

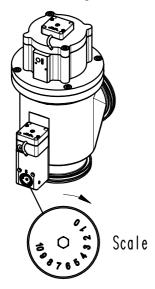
depending on customer installation

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



Flow Chart [sl/s]

