

Product data sheet

Angle valve with Soft-Pump Function Series 292, DN 160 (ID 6") Ordering No. 29244-QE14-0001

Description

ISO-K 160 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 · 10⁻⁹ mbar ls⁻¹ Valve body Leak rate (static)

- 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) 1000 ls⁻¹

Actuation time main Closing ≤ 1.5 sec.

Opening \leq 1.5 sec.

Actuation time softpump Closing \leq 0.2 sec.

- Opening \leq 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 on operating conditions and

sealing materials)

- Actuator ≤ 120 °C

Material - 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 16 kg / 35 lbs

Mounting position any

0.35 I / 0.012 ft3 Main Volume of pneumatic actuator Softpump 0.011 I / 0.0004 ft3

| Modified by: | Release date: | 604144EA |
|------------------------|--------------------------|----------|
| Created by: M. Lindner | Release date: 2013-11-19 | 1 of 2 |



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Compressed air min. – max. overpressure

Compressed air connection

– max. overpressure –

Behavior in case of compressed

air pressure drop

Behavior in case of power failure

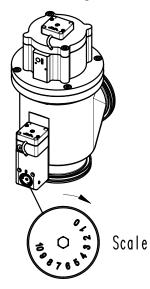
Main
 Softpump
 4.5 - 7 bar / 65 - 102 psi
 4 - 8 bar / 58 - 115 psi

– Main
– Softpump
½" ISO/NPT female
M5 (10-32 UNF suitable)

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

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

Conductance diagram



Flow Chart [sl/s]

