

### Product data sheet

## Angle valve with Soft-Pump Function Series 292, DN 160 (ID 6") Ordering No. 29244-QE24-0001

### Description

Flange ISO-K 160

Actuator without solenoid valve

with 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<sup>-1</sup>

Valve seat
 1 · 10<sup>-9</sup> mbar Is<sup>-1</sup>

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  $\leq$  2 bar

Differential pressure at opening ≤ 1 bar [1 bar with reduced number of cycles]

Conductance (molecular flow) 1000 ls<sup>-1</sup>

Actuation time main - Closing  $\leq 1.5$  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 – Actuator ≤ 120 °C

(Maximum values: depending — Actuator ≤ 120 °C on operating conditions and — Position indicator ≤ 80 °C

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

Weight 16 kg / 35 lbs

Mounting position any

Volume of pneumatic actuator — Main 0.35 I / 0.012 ft3

Softpump 0.011 I / 0.0004 ft3

Created by: M. Lindner	Release date: 2013-11-19	1 of 2
Modified by:	Release date:	604133EA



### **Product data sheet**

# Angle valve with Soft-Pump Function Series 292, DN 160 (ID 6") Ordering No. 29244-QE24-0001

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

Compressed air connection – Main – Main 1/8" ISO/NPT female – Softpump M5 (10-32 UNF suitable)

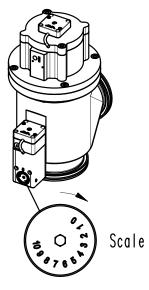
– Soπpump M5 (10-32 UNF suitable

Behavior in case of compressed — Valve closed depending on customer installation depending on customer installation depending on customer installation depending on customer installation

Behavior in case of power failure — Valve closed depending on customer installation — Valve opened depending on customer installation

During actuation depending on customer installation

### Conductance diagram



# Soft pump adjustment

### **Electrical connection**

# Position indicator Main and Soft

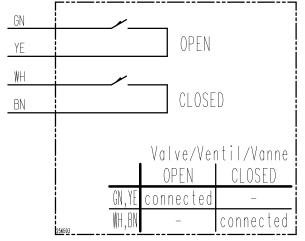
Type Micro switch Voltage  $\leq 50 \text{ V AC / DC}$  Current 5...100 mA

Short circuit protected No

Connection cable, 4 wire

Cable length 500 mm

Wire cross section 0.25 mm²



Wiring diagram

Modified by:	Release date:	604133EA
Created by: M. Lindner	Release date: 2013-11-19	2 of 2