

#### Product data sheet

# Angle valve with soft-pump function Series 292, DN 160 (ID 6") Ordering No. 29244-QA14-0001

### **Description**

Flange ISO-K 160

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) 1000 ls<sup>-1</sup>

Actuation time main Closing  $\leq$  1.5 sec.

> - Opening ≤ 1.5 sec.

Actuation time softpump Closing  $\leq$  0.2 sec.

- Opening  $\leq$  0.2 sec.

Cycles until first service - Main 2 million 3 million Softpump

(Tmax 80°C, under clean

conditions) **Temperature** 

Material

- Valve body ≤ 150 ° C

(Maximum values: depending - Actuator ≤ 120 ° C

on operating conditions and

sealing materials)

- Body main Aluminum (EN AC-42000)

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)

Seal - Bonnet O-ring FKM (Viton®) FKM (Viton®) - Plate O-ring

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

Weight 13 kg / 20 lbs

Mounting position any

0.35 I / 0.012 ft3 Main Volume of pneumatic actuator

Softpump 0.011 I / 0.0004 ft3

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Compressed air

min. - max. overpressure

Compressed air connection

Behavior in case of compressed

air pressure drop

Behavior in case of power failure

- Main

Softpump

MainSoftpump

Valve closed

Valve openedDuring actuation

Valve closedValve opened

During actuation

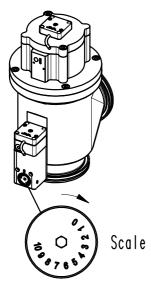
4.5 – 7 bar / 65 – 102 psi 4 – 8 bar / 58 – 115 psi

1/8" ISO/NPT female M5 (10-32 UNF suitable)

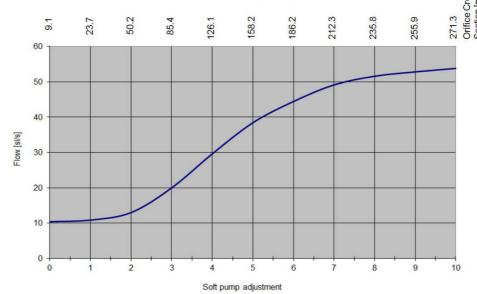
depending on customer installation depending on customer installation depending on customer installation

depending on customer installation depending on customer installation depending on customer installation

#### Conductance diagram



## Flow Chart [sl/s]



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