

Product data sheet

Angle valve with soft-pump function Series 292, DN 160 (ID 6") Ordering No. 29244-QA34-0001

Description

Flange ISO-K 160

Actuator with 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⁻¹

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**

 Valve body ≤ 150 °C

(Maximum values: depending Actuator ≤ 120 °C on operating conditions and - Solenoid valve ≤ 50 °C

sealing materials)

Material - 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®) Plate O-ring FKM (Viton®)

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

Weight 13 kg / 29 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 - Main 4.5 - 7 bar / 65 - 102 psi 4 – 8 bar / 58 – 115 psi min. - max. overpressure - Softpump

> 9.1 60

Compressed air connection G1/8" female Main

> - Softpump M5 (10-32 UNF suitable)

Behavior in case of compressed

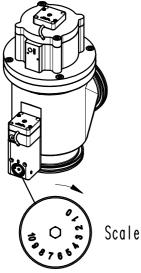
air pressure drop

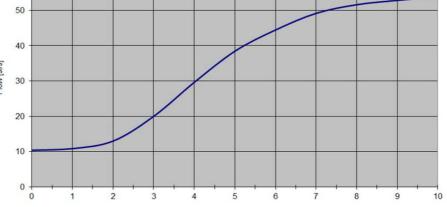
Behavior in case of power failure

- Valve closed depending on customer installation depending on customer installation - Valve opened - During actuation depending on customer installation - Valve closed valve remains closed and leaktight

- Valve opened valve closes leaktight - During actuation valve closes leaktight

Conductance diagram





Soft pump adjustment

Flow Chart [sl/s]

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Electrical connection

Solenoid valve Main

Type 5/2 way

Voltage See label on solenoid

Connection type plug, male M8x1

Additional feature LED orange; overvoltage

protection; adjustable emergency operation;

silencer

SV

Valve/Ventil/Vanne
OPEN CLOSED

Front view 3,4 Power on Power off

Wiring diagram

Solenoid valve Soft

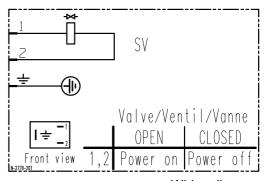
Type 3/2-way

Voltage See label on solenoid

Connector Rectangle plug,

Type B (DIN standard)

Cable Ø6 – 8 mm



Wiring diagram

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