

Product data sheet

Angle valve with soft-pump function Series 292, DN 160 (ID 6") Ordering No. 29244-QA44-0001

Description

ISO-K 160 Flange

Actuator with solenoid valve

with position indicator

- Main Pneumatic, double acting

Softpump Pneumatic, single acting with closing spring

Feedthrough - Main Shaft feedthrough

> - Softpump **Bellows**

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 2 million Main Softpump 3 million

(Tmax 80°C, under clean

conditions)

- Valve body ≤ 150 °C

Temperature (Maximum values: depending Actuator ≤ 120 °C

on operating conditions and Solenoid valve ≤ 50 °C sealing materials) Position indicator ≤ 80 °C

- Body main Material Aluminum (EN AC-42000)

 Body softpump Aluminum (EN AW-6060)

- 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 min. - max. overpressure - Softpump 4-8 bar / 58-115 psi

Compressed air connection – Main G1/8" female

0 .

Softpump
 M5 (10-32 UNF suitable)

Behavior in case of compressed air pressure drop

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

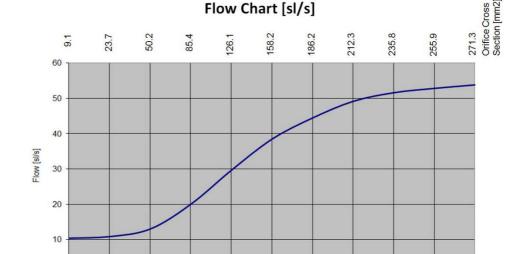
Behavior in case of power failure - Val

Valve closedValve remains closed and leaktightValve openedValve closes leaktight

During actuation valve closes leaktight

Conductance diagram

Scale



Soft pump adjustment

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Electrical connection

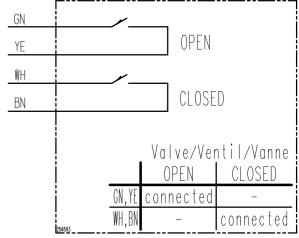
Position indicator Main and

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

Solenoid valve Main

Type 5/2 way

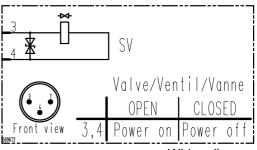
Voltage See label on solenoid

Connection type plug, male M8x1

Additional feature LED orange; overvoltage

protection; adjustable emergency operation;

silencer



Wiring diagram

Solenoid valve Soft

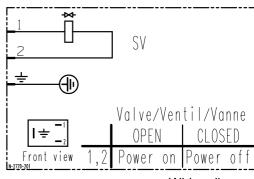
Type 3/2-way

Voltage See label on solenoid

Connector Rectangle plug,

Type B (DIN standard)

Cable Ø6 – 8 mm



Wiring diagram

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