

Product data sheet

Angle valve with soft-pump function Series 292, DN 160 (ID 6") Ordering No. 29244-QA41-0001

Description

ISO-K 160 Flange

Actuator with solenoid valve

with position indicator

- Main Pneumatic, single acting with closing spring Softpump Pneumatic, single acting with closing spring

Feedthrough - Main Shaft feedthrough

> **Bellows** - Softpump

Technical data

Leak rate (static) Valve body < 1 · 10⁻⁹ mbar ls⁻¹

- Valve seat < 1 · 10⁻⁹ mbar ls⁻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 1 million

(Tmax 80°C, under clean Softpump 3 million

conditions)

Temperature - Valve body ≤ 150 °C (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)

- Spring AISI 301 (1.4310)

- Snap ring for axle AISI 301 (1.4310)

Seal - Bonnet O-ring FKM (Viton®)

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

Weight 16.5 kg / 36 lbs

Mounting position any

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- Main Volume of pneumatic actuator

0.65 I / 0.023 ft3 0.011 I / 0.0004 ft3 - Softpump

Compressed air

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

Compressed air connection

G1/8" female - Main

- Softpump M5 (10-32 UNF suitable)

Behavior in case of compressed

- Valve closed

Valve remains closed and leaktight

air pressure drop

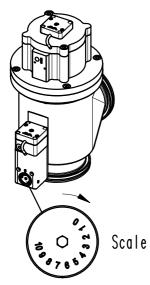
- Valve opened Valve closes leaktight - During actuation Valve closes leaktight

Behavior in case of power failure

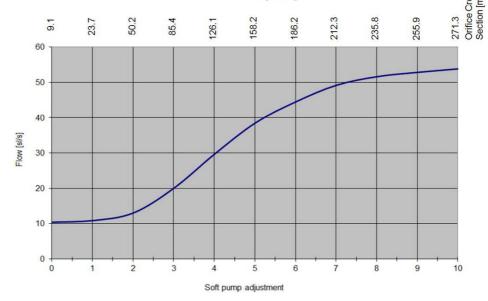
- Valve closed Valve remains closed and leaktight

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

Conductance diagram



Flow Chart [sl/s]



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Electrical connection

Position indicator Main and

Soft

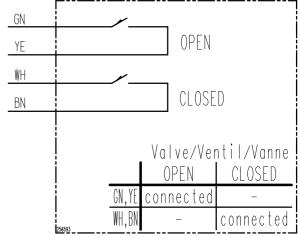
Type Micro switch Voltage $\leq 50 \text{ V AC / DC}$ Current 5...100 mA

Short circuit protected No

Connection cable, 4 wire

Cable length 500 mm

Wire cross section 0.25 mm²



Wiring diagram

Solenoid valve Main

Type 3/2 way

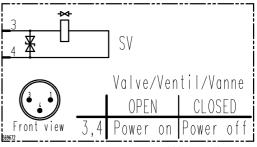
Voltage See label on solenoid

Connection type plug, male M8x1

Additional feature LED orange; overvoltage

protection; adjustable emergency operation;

silencer



Wiring diagram

Solenoid valve Soft

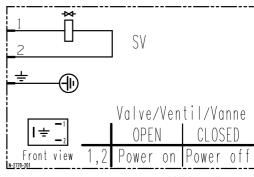
Type 3/2-way

Voltage See label on solenoid

Connector Rectangle plug,

Type B (DIN standard)

Cable Ø6 – 8 mm



Wiring diagram

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