

Product data sheet

Angle valve with soft-pump function Series 292, DN 160 (ID 6") Ordering No. 29244-QE44-0001

Description

Flange ISO-K 160

Actuator with 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⁻¹

- Valve seat < 1 · 10⁻⁹ mbar Is⁻¹

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 ≤ 2 bar

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

Conductance (molecular flow) 1000 Is⁻¹

Actuation time main - Closing ≤ 1.5 sec.

- Opening \leq 1.5 sec.

Actuation time softpump - Closing ≤ 0.2 sec.

- Opening ≤ 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 on operating conditions and – Solenoid valve ≤ 50 °C

sealing materials) — Position indicator ≤ 80 °C

Material – Body main AISI 316L (1.4404)

- Body softpump AISI 316L (1.4404)

Actuator
Plate main
Plate soft
AlSI 316L (1.4404)
AlSI 316L (1.4404)

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

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Compressed air - Main min. - max. overpressure

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

Compressed air connection

G1/8" female Main

Behavior in case of compressed

- Softpump - Valve closed M5 (10-32 UNF suitable)

air pressure drop

- Valve opened

depending on customer installation depending on customer installation

Behavior in case of power failure

- During actuation

depending on customer installation valve remains closed and leaktight

- Valve closed - Valve opened

9.1

60

50

40

30

20

0 .

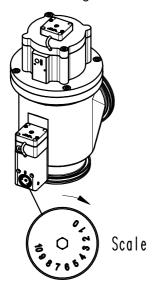
valve closes leaktight

- During actuation

valve closes leaktight

Flow Chart [sl/s]

Conductance diagram



26.1

Soft pump adjustment

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Electrical connection

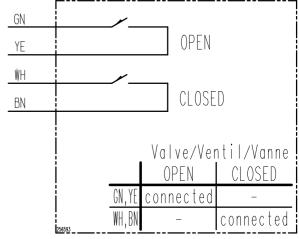
Position indicator Main and

Soft

Micro switch Type Voltage \leq 50 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

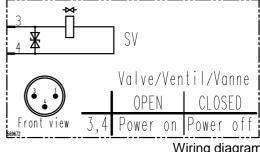
Voltage See label on solenoid

Connection type plug, male M8x1

Additional feature LED orange; overvoltage

> protection; adjustable emergency operation;

silencer



Wiring diagram

Solenoid valve Soft

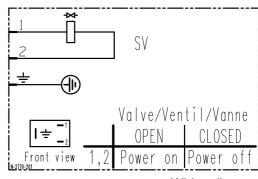
3/2-way Type

See label on solenoid Voltage

Connector Rectangle plug,

Type B (DIN standard)

Cable Ø6 - 8 mm



Wiring diagram

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