

Product data sheet

Angle valve with soft-pump function Series 290, DN 25 (ID 1") Ordering No. 29028-KE21-0001

Description

Flange ISO-KF 25

Actuator Pneumatic, single acting with closing spring

- without solenoid valve

with position indicator

Feedthrough - Main **Bellows**

> - Soft-pump Shaft feedthrough

Technical data

 $< 1 \cdot 10^{-9} \, \text{mbar Is}^{-1}$ Leak rate - Valve Body

 $< 1 \cdot 10^{-9} \text{ mbar ls}^{-1}$ Valve seat

1 · 10⁻⁸ mbar to 1.2 bar (abs) Pressure range

Differential pressure on the plate In opening direction ≤ 1.2 bar

 In closing direction ≤ 1.2 bar

Differential pressure at opening ≤ 1 bar 14 ls⁻¹ Conductance (molecular flow) 2 million

Cycles until first service

(Tmax 80 °C, under clean

conditions)

Temperature ≤ 150 °C Valve Body (Maximum values: depending Actuator ≤ 120 °C on operating conditions and Position indicator ≤ 80 °C

sealing materials)

Material Valve body AISI 304 (1.4301)

> - Actuator Aluminum

- Plate AISI 316L (1.4435 ESU)

- Bellows AISI 316L (1.4404, 1.4435) AISI 316 Ti (1.4571)

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

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

Mounting position any

0.011 I / 0.0004 ft³ Volume of pneumatic actuator

4 - 8 bar / 58 - 116 psi Compressed air

min. - max. overpressure

Compressed air connection M5 female (10-32 UNF suitable)

Actuation time - Closing ≤ 0.20 sec.

Weight 0.76 kg / 1.68 lbs

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Behavior in case of compressed

air pressure drop

Valve closedValve opened

- During actuation

During actuation

valve remains closed and leaktight

valve closes leaktight valve closes leaktight

Behavior in case of power failure

Valve closedValve opened

valve remains closed and leaktight depending on customer installation

depending on customer installation

Electrical connections

Position indicator

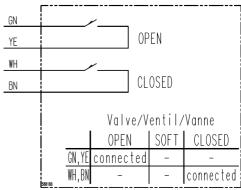
Type Micro switch Voltage $\leq 50 \text{ V AC / DC}$ Current 5 - 100 mA

Short circuit protected No

Connection Cable, 4 wires

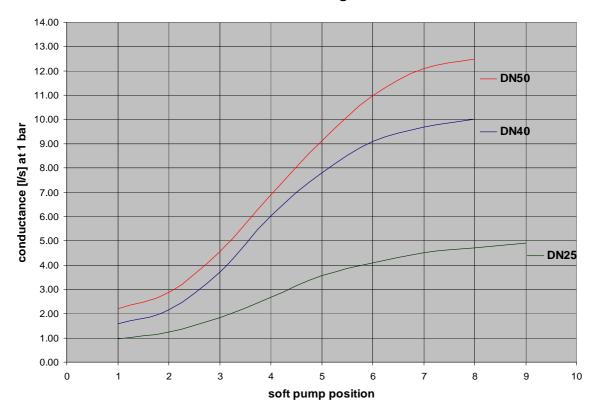
Cable length 500 mm

Cable cross section 0.25 mm²



Wiring diagram

conductance diagram



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