

Product data sheet

Angle valve with soft-pump function Series 290, DN 25 (ID 1") Ordering No. 29028-KA41-0001

Description

Flange ISO-KF 25

Actuator Pneumatic, single acting with closing spring

> - with solenoid valve with position indicator

Feedthrough - Main **Bellows**

> - Soft-pump Shaft feedthrough

Technical data

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

Cycles until first service 2 million

(Tmax 80 °C, under clean conditions)

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

Material Valve body Aluminum (EN AW-6082)

Aluminum - Actuator

- 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 closed
 valve remains closed and leaktight

Valve opened valve closes leaktightDuring actuation valve closes leaktight

Behavior in case of power failure - Valve closed

Valve closed
Valve remains closed and leaktight
Valve closes leaktight
During actuation
valve remains closed and leaktight
valve closes leaktight

Electrical connections

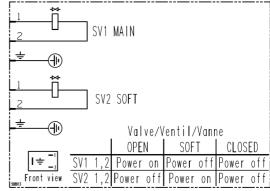
Solenoid valve

Type 3/2-way

Voltage See solenoid
Power See solenoid
Connector Rectangle pluc

Rectangle plug, Type B (DIN standard)

Cable Ø6 – 8 mm



Wiring diagram

Position indicator

Type Micro switch Voltage $\leq 50 \text{ V AC / DC}$

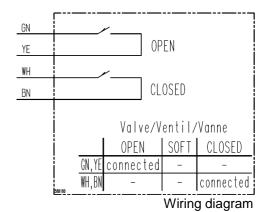
Current 5 – 100 mA

Short circuit protected No

Connection Cable, 4 wires

Cable length 500 mm

Cable cross section 0.25 mm²



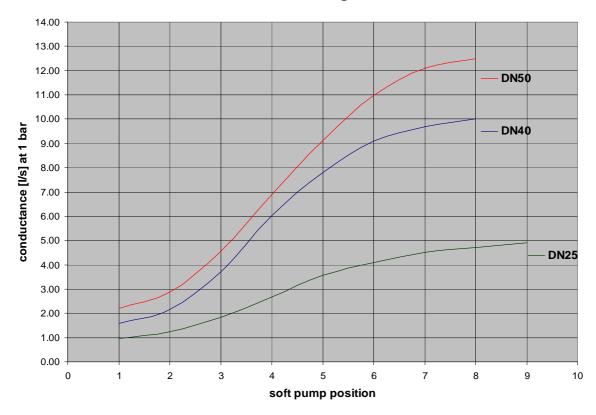
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conductance diagram



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