

Product data sheet

Angle valve with soft-pump function Series 290, DN 50 (ID 2") Ordering No. 29034-KA41-0003

Description

Flange ISO-KF 50

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 $80 \, \text{ls}^{-1}$ 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

0.047 I / 0.0017 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)

≤ 0.65 sec. Actuation time - Closing

Weight 2.05 kg / 4.52 lbs

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Behavior in case of compressed

air pressure drop

Valve closed val

valve remains closed and leaktight

Valve openedDuring actuationvalve closes leaktight

Behavior in case of power failure

Valve closed valve remains closed and leaktight

Valve opened valve closes leaktightDuring actuation valve closes leaktight

Electrical connections

Solenoid valve

Connector

Cable

Type 3/2-way

Voltage See solenoid
Power See solenoid

Rectangle plug, Type B (DIN standard)

Ø6 – 8 mm

SV1 MAIN

SV2 SOFT

SV2 SOFT

Valve/Ventil/Vanne
OPEN SOFT CLOSED

SV1 1,2 Power on Power off Power off
Front view SV2 1,2 Power off Power on Power off

Wiring diagram

Position indicator

Type Micro switch

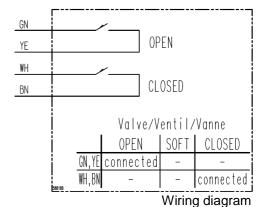
Voltage $\leq 50 \text{ V AC / DC}$ Current 5 - 100 mA

Short circuit protected No

Connection Cable, 4 wires

Cable length 500 mm

Cable cross section 0.25 mm²



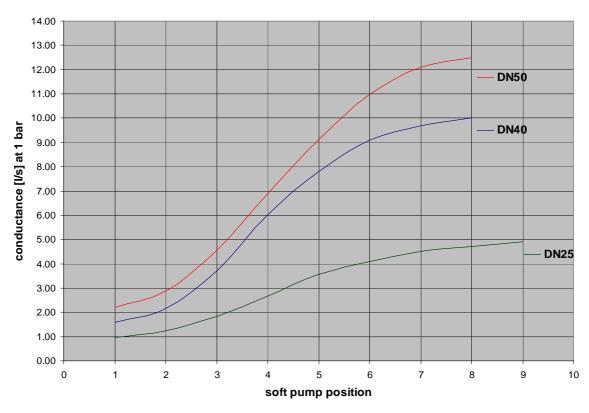
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conductance diagram



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