

Product data sheet

Angle valve with soft-pump function Series 290, DN 40 (ID 1 1/2") Ordering No. 29032-KE41-0001

Description

Flange ISO-KF 40

Actuator Pneumatic, single acting with closing spring

with solenoid valvewith position indicator

Feedthrough – Main Bellows

Soft-pumpShaft feedthrough

Technical data

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

– Valve seat < 1 · 10⁻⁹ mbar Is⁻¹

Pressure range $1 \cdot 10^{-8}$ mbar to 1.2 bar (abs)

Differential pressure on the plate - In opening direction ≤ 1.2 bar

In closing direction ≤ 1.2 bar

Differential pressure at opening \leq 1 bar Conductance (molecular flow) 45 ls⁻¹ Cycles until first service 2 million

(Tmax 80 °C, under clean

conditions)

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

Material – Valve body AISI 304 (1.4301)

ActuatorAluminum

Plate AISI 316L (1.4435 ESU)

- Bellows 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[®])

Mounting position any

Volume of pneumatic actuator 0.035 I / 0.0012 ft³

Compressed air 4-8 bar / 58-116 psi

min. - max. overpressure

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

Actuation time - Closing ≤ 0.55 sec.

Weight 1.50 kg / 3.31 lbs

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Behavior in case of compressed

air pressure drop

Valve closed
 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

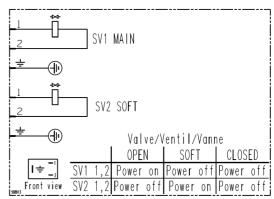
Type 3/2-way

Voltage See solenoid
Power See solenoid

Connector Rectangle plug,

Type B (DIN standard)

Cable $\emptyset6-8 \text{ mm}$



Wiring diagram

Position indicator

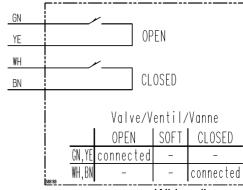
Type Micro switch Voltage $\leq 50 \text{ V AC / DC}$ Current 5-100 mA

Short circuit protected No

Connection Cable, 4 wires

Cable length 500 mm

Cable cross section 0.25 mm²



Wiring diagram

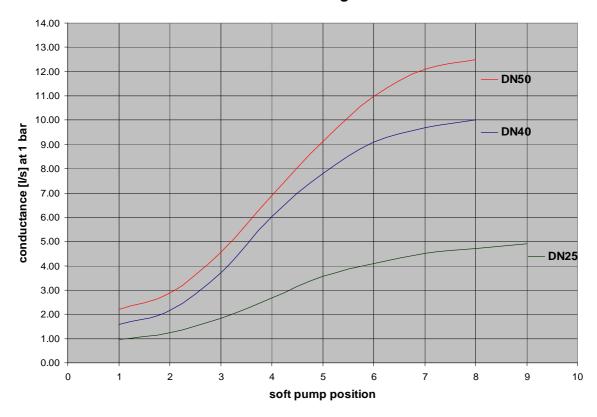
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conductance diagram



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