

## **Product data sheet**

# Angle valve with soft-pump function Series 290, DN 50 (ID 2") Ordering No. 29034-KE31-0002

### **Description**

Flange ISO-KF 50

Actuator Pneumatic, single acting with closing spring

with solenoid valvewithout 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<sup>-9</sup> mbar Is<sup>-1</sup>

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

Differential pressure on the plate - In opening direction  $\le 1.2$  bar

In closing direction ≤ 1.2 bar

Differential pressure at opening  $\leq$  1 bar Conductance (molecular flow) 80 ls<sup>-1</sup> Cycles until first service 2 million

(Tmax 80 °C, under clean

conditions)

Temperature - Valve Body  $\le 150$  °C (Maximum values: depending on operating conditions and - Solenoid valve  $\le 80$  °C  $\le 80$  °C

sealing materials)

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<sup>®</sup>)
 FKM (Viton<sup>®</sup>)

Mounting position any

Volume of pneumatic actuator 0.047 I / 0.0017 ft<sup>3</sup>

Compressed air 4-8 bar / 58-116 psi

min. - max. overpressure

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

Actuation time – Closing  $\leq 0.65$  sec.

Weight 2.20 kg / 4.85 lbs

Created by: WARO	Release date: 25.08.2014	1/2
Modified by:	Release date:	765544EA



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Behavior in case of compressed

air pressure drop

Valve closedValve openedValve opened

valve remains closed and leaktight

valve closes leaktight valve closes leaktight

Behavior in case of power failure

Valve closed

- During actuation

valve remains closed and leaktight

- Valve opened valve closes leaktight

During actuation valve closes leaktight

#### **Electrical connections**

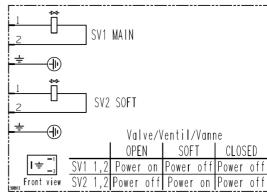
#### Solenoid valve

Type 3/2-way

Voltage See solenoid
Power See solenoid
Connector Rectangle plug,

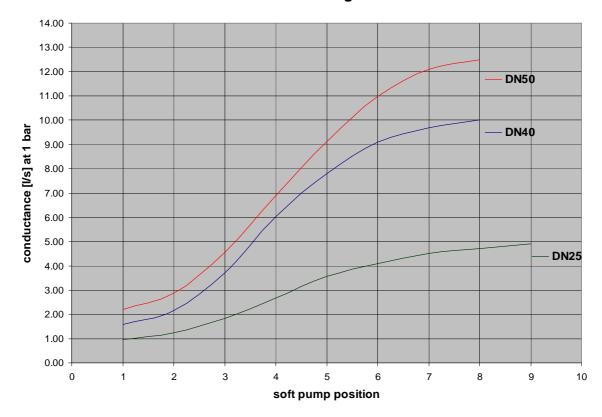
Type B (DIN standard)

Cable Ø6 – 8 mm



Wiring diagram

#### conductance diagram



Created by: WARO	Release date: 25.08.2014	2/2
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