

Product data sheet

Angle valve with soft-pump function Series 290, DN 25 (ID 1") Ordering No. 29028-KE31-0001

Description

Flange ISO-KF 25

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 · 10⁻⁹ 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) 14 ls⁻¹

Cycles until first service (Tmax 80 °C, under clean

conditions)

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

sealing materials)

Material – Valve body AISI 304 (1.4301)

ActuatorAluminum

Plate AISI 316L (1.4435 ESU)

2 million

- 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 0.011 I / 0.0004 ft³

Compressed air 4-8 bar / 58-116 psi

min. – max. overpressure

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

Actuation time – Closing \leq 0.20 sec.

Weight 0.85 kg / 1.87 lbs

Created by: WARO	Release date: 25.08.2014	1/2
Modified by:	Release date:	765469EA



Product data sheet

Angle valve with soft-pump function Series 290, DN 25 (ID 1") Ordering No. 29028-KE31-0001

Behavior in case of compressed

air pressure drop

Valve closedValve openedDuring actuation

valve remains closed and leaktight

valve closes leaktight valve 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

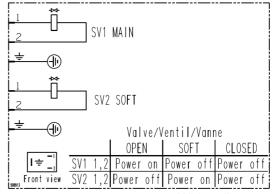
Solenoid valve

Type 3/2-way

Voltage See solenoid
Power See solenoid
Connector Rectangle plug.

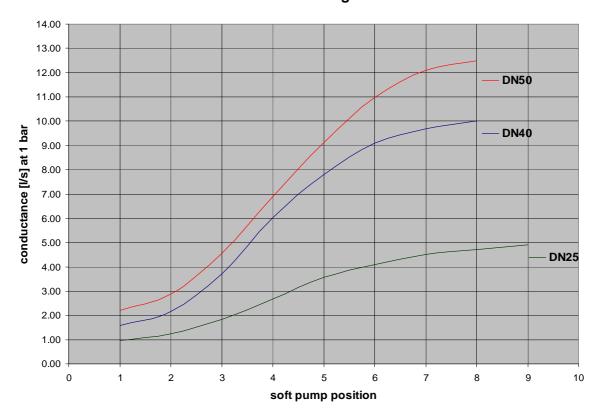
Type B (DIN standard)

Cable Ø6 – 8 mm



Wiring diagram

conductance diagram



Created by: WARO	Release date: 25.08.2014	2/2
Modified by:	Release date:	765469EA