

Product data sheet

Angle valve with soft-pump function Series 290, DN 50 (ID 2") Ordering No. 29034-KE21-0002

Description

Flange ISO-KF 50

Actuator Pneumatic, single acting with closing spring

- without solenoid valve

- with 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) 80 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 operating conditions are conditional conditions.- Valve Body ≤ 120 °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[®])
 FKM (Viton[®])

Mounting position any

Volume of pneumatic actuator 0.047 I / 0.0017 ft³

Compressed air 4-8 bar / 58-116 psi

min. - max. overpressure

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

Actuation time - Closing ≤ 0.65 sec.

Weight 2.10 kg / 4.63 lbs

Created by: WARO	Release date: 25.08.2014	1/2
Modified by:	Release date:	765549EA



Product data sheet

Angle valve with soft-pump function Series 290, DN 50 (ID 2") Ordering No. 29034-KE21-0002

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 closedValve opened

During actuation

valve remains closed and leaktight depending on customer installation

depending on customer installation

Electrical connections

Position indicator

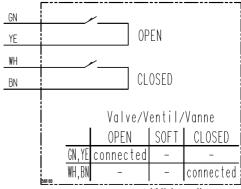
Type Micro switch Voltage $\leq 50 \text{ V AC / DC}$ Current 5 - 100 mA

Short circuit protected No

Connection Cable, 4 wires

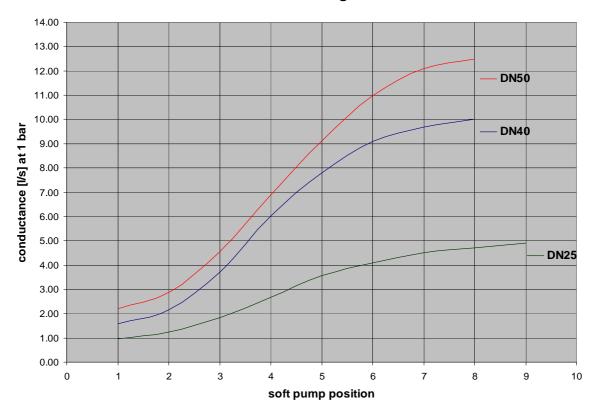
Cable length 500 mm

Cable cross section 0.25 mm²



Wiring diagram

conductance diagram



Created by: WARO	Release date: 25.08.2014	2/2
Modified by:	Release date:	765549EA