

Product data sheet

Angle valve with soft-pump function Series 290, DN 40 (ID 1 1/2") Ordering No. 29032-KA41-0001

Description

Flange ISO-KF 40

Actuator Pneumatic, single acting with closing spring

with solenoid valve

with position indicator

Feedthrough - Main **Bellows**

> - Soft-pump Shaft feedthrough

Technical data

 $< 1 \cdot 10^{-9} \, \text{mbar Is}^{-1}$ 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 45 Is⁻¹ Conductance (molecular flow) Cycles until first service 2 million

(Tmax 80 °C, under clean

conditions)

≤ 150 °C **Temperature** 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)

- Actuator Aluminum

- 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

0.035 I / 0.0012 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)

Actuation time - Closing ≤ 0.55 sec.

Weight 1.37 kg / 3.02 lbs

Created by: WARO	Release date: 25.08.2014	1/3
Modified by:	Release date:	764930EA



Product data sheet

Angle valve with soft-pump function Series 290, DN 40 (ID 1 1/2") Ordering No. 29032-KA41-0001

Behavior in case of compressed

air pressure drop

Valve closed
 valve remains closed and leaktight

Valve openDuring actuationvalve closes leaktightvalve closes leaktight

Behavior in case of power failure

Valve closed valve remains closed and leaktight

Valve openDuring actuationvalve closes leaktight

Electrical connections

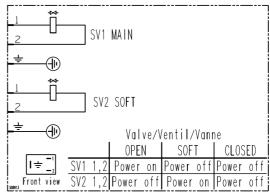
Solenoid valve

Type 3/2-way

Voltage See solenoid
Power See solenoid
Connector Rectangle plug,

Type B (DIN standard)

Cable Ø6 – 8 mm



Wiring diagram

Position indicator

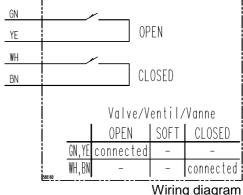
Type Micro switch Voltage $\leq 50 \text{ V AC / DC}$ Current 5-100 mA

Short circuit protected No

Connection Cable, 4 wires

Cable length 500 mm

Cable cross section 0.25 mm²



vviring diagram

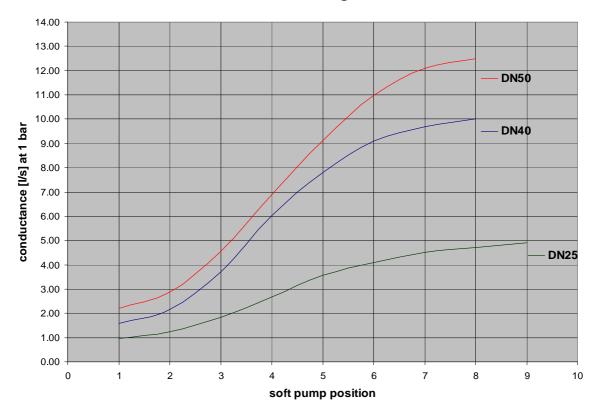
Created by: WARO	Release date: 25.08.2014	2/3
Modified by:	Release date:	764930EA



Product data sheet

Angle valve with soft-pump function Series 290, DN 40 (ID 1 1/2") Ordering No. 29032-KA41-0001

conductance diagram



Created by: WARO	Release date: 25.08.2014	3/3
Modified by:	Release date:	764930EA