

# **Product data sheet**

Angle valve with soft-pump function Series 290, DN 40 (ID 1 1/2") Ordering No. 29032-KA11-0001

## Description

Flange		ISO-KF 40
Actuator		Pneumatic, single acting with closing spring – without solenoid valve – without position indicator
Feedthrough	– Main – Soft-pump	Bellows Shaft feedthrough
Technical data		
Leak rate	<ul> <li>Valve Body</li> <li>Valve seat</li> </ul>	< 1 · 10 <sup>-9</sup> mbar ls <sup>-1</sup> < 1 · 10 <sup>-9</sup> mbar ls <sup>-1</sup>
Pressure range		$1 \cdot 10^{-8}$ mbar to 1.2 bar (abs)
Differential pressure on the plate	<ul> <li>In opening direction</li> <li>In closing direction</li> </ul>	≤ 1.2 bar ≤ 1.2 bar
Differential pressure at opening		≤ 1 bar
Conductance (molecular flow)		45 ls <sup>-1</sup>
Cycles until first service (Tmax 80 °C, under clean conditions)		2 million
Temperature (Maximum values: depending on operating conditions and sealing materials)	<ul> <li>Valve Body</li> <li>Actuator</li> </ul>	≤ 150 °C ≤ 120 °C
Material	– Valve body – Actuator – Plate – Bellows	Aluminum (EN AW-6082) Aluminum AISI 316L (1.4435 ESU) AISI 316L (1.4404, 1.4435), AISI 316 Ti (1.4571)
Seal	<ul> <li>Bonnet O-ring</li> <li>Plate O-ring</li> <li>Feedthrough O-ring</li> <li>Actuator O-ring</li> </ul>	FKM (Viton <sup>®</sup> ) FKM (Viton <sup>®</sup> ) FKM (Viton <sup>®</sup> ) FKM (Viton <sup>®</sup> )
Mounting position		any
Volume of pneumatic actuator		0.035 l / 0.0012 ft <sup>3</sup>
Compressed air min. – max. overpressure		4 – 8 bar / 58 – 116 psi
Compressed air connection		M5 female (10-32 UNF suitable)
Actuation time	<ul> <li>Closing</li> </ul>	≤ 0.55 sec.
Weight		1.20 kg / 2.65 lbs

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Behavior in case of compressed air pressure drop

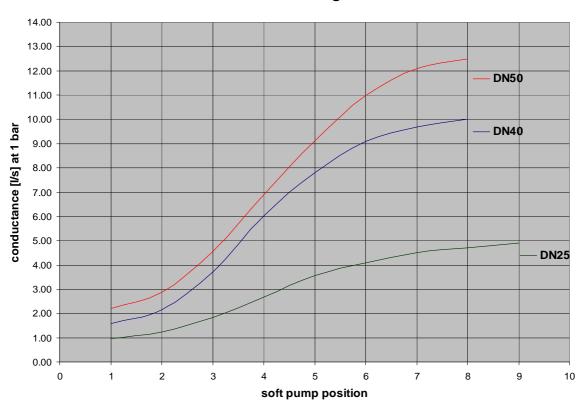
- Valve closed
- Valve opened
- During actuation

Behavior in case of power failure

- Valve closedValve opened
- During actuation

valve remains closed and leaktight valve closes leaktight valve closes leaktight

valve remains closed and leaktight depending on customer installation depending on customer installation



#### conductance diagram

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