

Product data sheet

Inline valve with soft-pump function Series 291, DN 50 (ID 2") Ordering No. 29134-KE11-0001

Description

Flange ISO-KF 50

Actuator Pneumatic, single acting with closing spring

without solenoid valvewithout position indicator

Feedthrough - Main Bellows

Soft-pumpShaft feedthrough

Technical data

Leak rate - Valve Body $< 1 \cdot 10^{-9}$ mbar ls⁻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 – Actuator ≤ 120 °C

on operating conditions and

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®)

Find (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 2.5 kg / 5.51 lbs

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Behavior in case of compressed air pressure drop

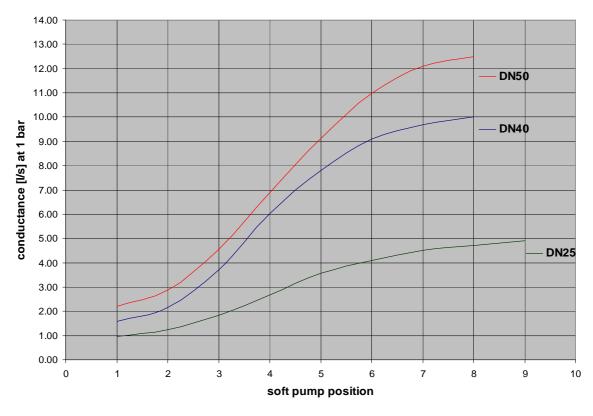
- Valve closed valve remains closed and leaktight

Valve openedDuring actuationvalve closes leaktight

Behavior in case of power failure

Valve closed
Valve opened
During actuation
Valve remains closed and leaktight
depending on customer installation
depending on customer installation

conductance diagram



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