

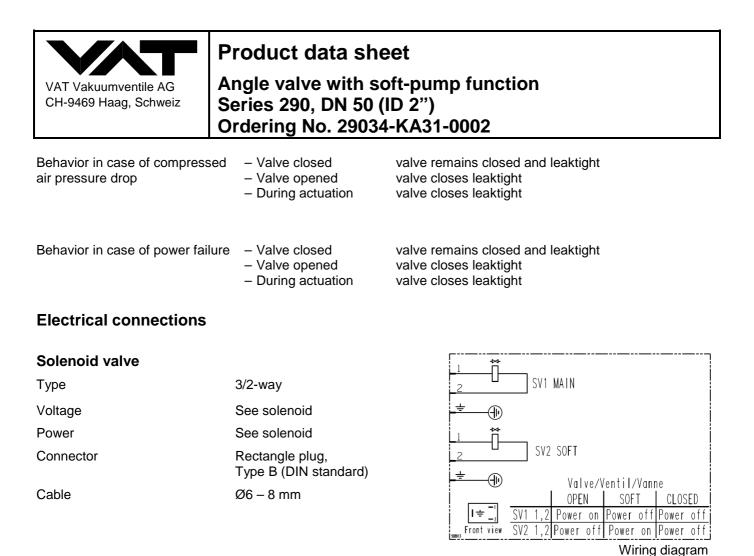
Product data sheet

Angle valve with soft-pump function Series 290, DN 50 (ID 2") Ordering No. 29034-KA31-0002

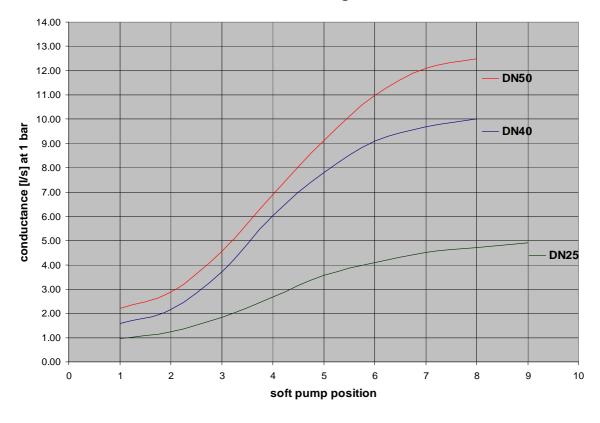
Description

Flange		ISO-KF 50
Actuator		Pneumatic, single acting with closing spring – with solenoid valve – without position indicator
Feedthrough	– Main – Soft-pump	Bellows Shaft feedthrough
Technical data		
Leak rate	Valve BodyValve seat	< 1 · 10 ⁻⁹ mbar Is ⁻¹ < 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 In closing direction 	≤ 1.2 bar ≤ 1.2 bar
Differential pressure at opening		≤ 1 bar
Conductance (molecular flow)		80 ls ⁻¹
Cycles until first service (Tmax 80 °C, under clean conditions)		2 million
Temperature (Maximum values: depending on operating conditions and sealing materials)	 Valve Body Actuator Solenoid valve 	≤ 150 °C ≤ 120 °C ≤ 80 °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	 Bonnet O-ring Plate O-ring Feedthrough O-ring Actuator O-ring 	FKM (Viton [®]) FKM (Viton [®]) FKM (Viton [®]) FKM (Viton [®])
Mounting position		any
Volume of pneumatic actuator		0.047 l / 0.0017 ft ³
Compressed air min. – max. overpressure		4 – 8 bar / 58 – 116 psi
Compressed air connection		M5 female (10-32 UNF suitable)
Actuation time	 Closing 	≤ 0.65 sec.
Weight		2.05 kg / 4.52 lbs

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conductance diagram



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