



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

Angle valve with Soft-Pump Function Series 290, DN 63 (ID 2 1/2") Ordering No. 29036-QE21-0003

Description

Flange		ISO-K 63
Actuator		Pneumatic, single acting with closing spring – without solenoid valve – with position indicator “open” and “closed”
Feedthrough	– Main	Bellows
	– Soft pump	Bellows

Technical data

Leak rate	– Valve body	$< 1 \cdot 10^{-9}$ mbar ls ⁻¹
	– Valve seat	$< 1 \cdot 10^{-9}$ mbar ls ⁻¹
Pressure range		$1 \cdot 10^{-8}$ mbar to 4 bar (abs)
Differential pressure on the plate	– In opening direction	≤ 1.2 bar
	– In closing direction	≤ 4 bar
Differential pressure at opening		≤ 1 bar
Conductance (molecular flow)		160 ls ⁻¹
Closing time	– Main	≤ 0.4 sec.
	– Soft pump	≤ 0.2 sec.
Cycles until first service (Tmax 80°C, under clean conditions)	– Main	3 million
	– Soft pump	3 million
Temperature (Maximum values: depending on operating conditions and sealing materials)	– Valve body	≤ 120 °C
	– Actuator	≤ 80 °C
	– Position indicator	≤ 80 °C
Material	– Body main	AISI 316L (1.4404)
	– Actuator	Aluminum
	– Plate	AISI 316L (1.4404)
	– Bellows	AISI 316L (1.4404, 1.4435), AISI 316 Ti (1.4571)
Seal	– Bonnet O-ring	FKM (Viton®)
	– Plate O-ring	FKM (Viton®)
	– Actuator O-ring	FKM (Viton®)
Mounting position		any
Volume of pneumatic actuator	– Main	0.112 l / 0.0040 ft ³
	– Soft pump	0.011 l / 0.0004 ft ³
Compressed air min. – max. overpressure		4 – 8 bar / 58 – 116 psi
Compressed air connection	– Main valve	Female 1/8" (ISO/NPT)
	– Soft pump valve	Female M5 (10-32 UNF suitable)

Created by: M. Eggenberger	Release date: 2015-10-15	1 of 2
Modified by:	Release date:	816053EA



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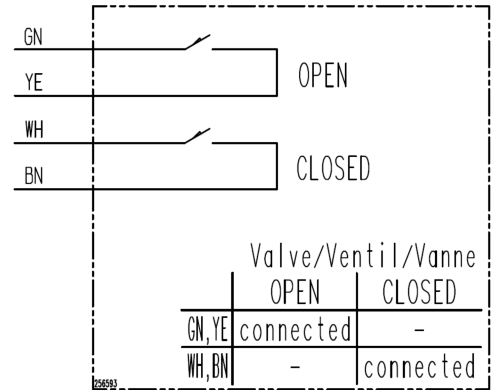
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Electrical connections

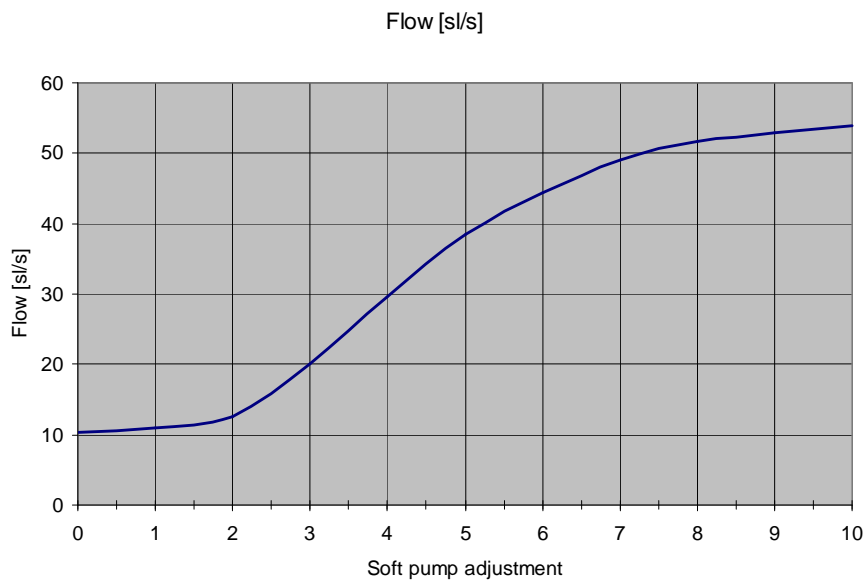
Position indicator

Type	Micro switch
Voltage	≤ 50 V AC / DC
Current	5 - 100 mA
Short circuit protected	No
Cable length	500 mm



Wiring diagram

Conductance diagram:



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