



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

UHV angle valve
Series 284, DN 63 (2 1/2")
Ordering No. 28436-GE41-0003

Description

Flange	CF-R 63
Actuator	Pneumatic, single acting with closing spring – with solenoid valve – with position indicator “open” and “closed”
Feedthrough	Bellows

Technical data

Leak rate	– Valve body	$< 5 \cdot 10^{-10}$ mbar ls ⁻¹
	– Valve seat	$< 1 \cdot 10^{-9}$ mbar ls ⁻¹
Pressure range		$5 \cdot 10^{-10}$ mbar to 5 bar (abs)
Differential pressure on the plate	– in opening direction	≤ 2 bar
	– in closing direction	≤ 5 bar
Differential pressure at opening		≤ 1 bar
Conductance (molecular flow)		160 ls ⁻¹
Closing time		≤ 0.70 sec.
Cycles until first service (T _{max} 80°C, under clean conditions)		3 million
Temperature (Maximum values: depending on operating conditions and sealing materials)	– Valve body	≤ 150 °C
	– Actuator	≤ 150 °C
	– Solenoid	≤ 80 °C
	– Position indicator	≤ 80 °C
Material	– Valve body	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 Seal	Metal
	– Plate O-ring	FKM (Viton®)
	– Actuator O-ring	FKM (Viton®)
Weight		4.76 kg / 10.494 lbs
Mounting position		any
Volume of pneumatic actuator		0.112 l / 0.0040 ft ³
Compressed air min. – max. overpressure		4 – 8 bar / 58 – 116 psi
Compressed air connection		Female G1/8”

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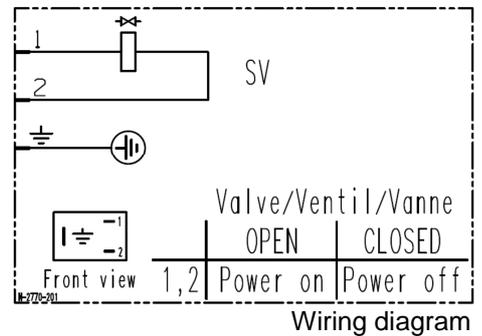
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Behavior in case of compressed air pressure drop	<ul style="list-style-type: none"> - Valve closed - Valve opened - During actuation 	<ul style="list-style-type: none"> valve remains closed and leaktight valve closes leaktight valve closes leaktight
Behavior in case of power failure	<ul style="list-style-type: none"> - Valve closed - Valve opened - During actuation 	<ul style="list-style-type: none"> valve remains closed and leaktight valve closes leaktight valve 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



Position indicator

Type	Micro switch
Voltage	≤ 50 V AC / DC
Current	5 – 100 mA
Short circuit protected	No
Connection	Cable, 4 wires
Cable length	500 mm
Cable cross section	0.25 mm ²

