



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

UHV angle valve
Series 284, DN 40 (ID 1 1/2")
Ordering No. 28432-GE21-0001

Description

Flange	CF-R 40
Actuator	Pneumatic, single acting with closing spring – without solenoid valve – with position indicator “open” and “closed”
Feedthrough	Bellows

Technical data

Leak rate	– Valve body – Valve seat	$\leq 5 \cdot 10^{-10}$ mbar ls ⁻¹ $< 1 \cdot 10^{-9}$ mbar ls ⁻¹
Pressure range		$1 \cdot 10^{-10}$ mbar to 5 bar (abs)
Differential pressure on the plate	– In opening direction – In closing direction	≤ 2 bar ≤ 5 bar
Differential pressure at opening		≤ 1 bar
Conductance (molecular flow)		45 ls ⁻¹
Closing time		≤ 0.55 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 – Actuator – Position indicator	≤ 150 °C ≤ 120 °C ≤ 80 °C
Material	– Valve body – Actuator – Plate – Bellows	AISI 304 (1.4301) Aluminum AISI 316L (1.4404) AISI 316L (1.4404, 1.4435) AISI 316 Ti (1.4571)
Seal	– Bonnet O-ring – Plate O-ring – Actuator O-ring	Metal FKM (Viton®) FKM (Viton®)
Weight		1.68 kg / 3.70lbs
Mounting position		any
Volume of pneumatic actuator		0.035 l / 0.0012 ft ³
Compressed air min. – max. overpressure		4 – 8 bar / 58 – 116 psi
Compressed air connection		M5 female (10-32 UNF suitable)

Created by: WARO	Release date: 26.09.2014	1/2
Modified by:	Release date:	740768EB



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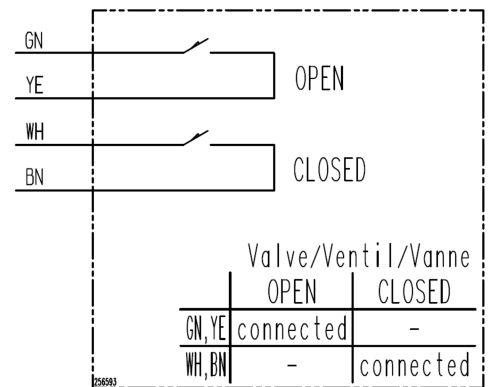
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Behavior in case of compressed air pressure drop	<ul style="list-style-type: none"> - Valve closed - Valve opened - During actuation 	<ul style="list-style-type: none"> valve remains closed and leaktight valve closes leaktight valve closes leaktight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

Electrical connections

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



Wiring diagram

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