



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

UHV angle valve
Series 284, DN 63 (2 1/2")
Ordering No. 28436-GE31-0002

Description

Flange	CF-R 63
Actuator	Pneumatic, single acting with closing spring – with solenoid valve – without position indicator
Feedthrough	Bellows

Technical data

Leak rate	– Valve body – Valve seat	$< 5 \cdot 10^{-10}$ 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)		160 ls ⁻¹
Closing time		≤ 0.70 sec.
Cycles until first service (Tmax 80°C, under clean conditions)		3 million
Temperature (Maximum values: depending on operating conditions and sealing materials)	– Valve body – Actuator – Solenoid	≤ 150 °C ≤ 150 °C ≤ 80 °C
Material	– Valve body – Actuator – Plate – Bellows	AISI 316L (1.4404) Aluminum AISI 316L (1.4404) AISI 316L (1.4404, 1.4435), AISI 316 Ti (1.4571)
Seal	– Bonnet Seal – Plate O-ring – Actuator O-ring	Metal FKM (Viton®) 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"

Created by: WARO	Release date: 2014-09-26	1 of 2
Modified by:	Release date:	603809EB



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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

