



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

UHV angle valve
Series 284, DN 100 (ID 4'')
Ordering No. 28440-QE08-CQS1

Description

Flange		ISO-K 100
Actuator		Manual actuator – with position indicator
Feedthrough		Bellows
Options	CQS =	– Product: valve type ITER 25 – Gate: seal material EPDM – Position indicator: Glenair 4 pin connector; 120 °C

Technical data¹

Leak rate	– Valve body – Valve seat	$\leq 1 \cdot 10^{-8}$ mbar ls ⁻¹ $< 1 \cdot 10^{-8}$ mbar ls ⁻¹
Leak rate (accidental condition)	– Valve body – Valve seat	$\leq 1 \cdot 10^{-8}$ mbar ls ⁻¹ n/a
Pressure range		$1 \cdot 10^{-8}$ mbar to 1.5 bar (abs)
Differential pressure on the plate ²	– In opening direction – In closing direction	≤ 1.2 bar ≤ 1.5 bar
Differential pressure at opening		≤ 1 bar
Conductance (molecular flow)		440 ls ⁻¹
Cycles until first service (Tmax 80 °C, under clean conditions)		10 000
Temperature (Maximum values: depending on operating conditions and sealing materials)	– Valve body – Hand wheel – Position indicator	≤ 150 °C ≤ 120 °C ≤ 80 °C
Material	– Valve body – Actuator – Hand wheel ³ – Plate – Bellows	AISI 316L (1.4404) Aluminum Plastic AISI 316L (1.4404) AISI 316L (1.4404, 1.4435) AISI 316 Ti (1.4571)
Seal	– Bonnet – Plate	metal EPDM
Weight		9 kg / 20 lbs
Mounting position		any
Radiation resistance		10^6 Gy (10^8 rad)
Maximum magnetic field levels		≤ 150 mT
Assembly cleanliness level		ISO Class 8

¹ Values according technical specification D_R8752R v.1.1

² Deviation to technical specification D_R8752R v.1.1 in agreement with responsible IO department

³ Removable

Created by: BRR	Release date: 14.09.2018	1/2
Modified by: Phil Schneider	Release date: 15.02.2021	953962EA



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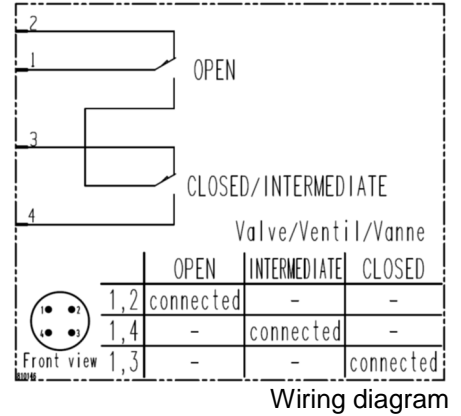
Related documents

Dimensional drawing No. 881462 Rev A
STEP file No. 881461 Rev A

Electrical connections

Position indicator

Type Micro switch
Voltage ≤ 50 V AC / DC
Current 5 – 100 mA
Short circuit protected No
Connector on the valve: 8070-2530-02Z16-4GA
Mating connector:* 8070-3039-01Z16-4KA
(pins compatible with AWG 20 wire)



*The mating connector is not part of the valve and needs to be ordered separately at Glenair.

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