



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

UHV angle valve
Series 284, DN 100 (ID 4'')
Ordering No. 28440-QE01-CQS1

Description

Flange		ISO-K 100
Actuator		Manual actuator
Feedthrough		Bellows
Options	CQS =	– Product: valve type ITER 25 – Gate: seal material EPDM

Technical data¹

Leak rate	– Valve body	$\leq 1 \cdot 10^{-8}$ mbar ls ⁻¹
	– Valve seat	$< 1 \cdot 10^{-8}$ mbar ls ⁻¹
Leak rate (accidental condition)	– Valve body	$\leq 1 \cdot 10^{-8}$ mbar ls ⁻¹
	– Valve seat	n/a
Pressure range		$1 \cdot 10^{-8}$ mbar to 1.5 bar (abs)
Differential pressure on the plate ²	– In opening direction	≤ 1.2 bar
	– In closing direction	≤ 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	≤ 150 °C
	– Hand wheel	≤ 120 °C
Material	– Valve body	AISI 316L (1.4404)
	– Actuator	Aluminum
	– Hand wheel ³	Plastic
	– Plate	AISI 316L (1.4404)
	– Bellows	AISI 316L (1.4404, 1.4435) AISI 316 Ti (1.4571)
Seal	– Bonnet	metal
	– Plate	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

Related documents

Dimensional drawing No.	862113 Rev A
STEP file No.	862112 Rev A

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

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