



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

UHV angle valve, Series 284, DN 40 (ID 1 1/2")
Ordering No. 28432-KE01-CQS1

Description

Flange		ISO-KF 40
Actuator		Manual actuator
Feedthrough		Bellows
Options	CQS =	– Product: valve type ITER 25 – Gate: seal material EPDM

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	– In either direction	≤ 1.5 bar
Differential pressure at opening		≤ 1 bar
Conductance (molecular flow)		45 ls ⁻¹
Cycles until first service (tested at room temp. under clean and static vacuum conditions)		10'000
Temperature (Maximum values: depending on operating conditions and sealing materials)	– Valve body – Hand wheel	≤ 150 °C ≤ 120 °C
Material	– Valve body – Actuator – Hand wheel ² – Plate – Bellows	AISI 304 (1.4301) Aluminum Plastic AISI 316L (1.4404) AISI 316L (1.4404, 1.4435) AISI 316 Ti (1.4571)
Seal	– Bonnet seal – Plate O-ring	Metal EPDM
Weight		1.36 kg / 2.998 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.	862125 Rev -
STEP file No.	862124 Rev -

¹ Values according technical specification D_R8752R v.1.1
² Removable

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