



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet

**UHV inline valve, Series 285, DN 40 (ID 1 1/2")**  
**Ordering No. 28532-KE01-CQS1**

### Description

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

### Technical data<sup>1</sup>

Leak rate	– Valve body – Valve seat	$\leq 1 \cdot 10^{-8}$ mbar ls <sup>-1</sup> $< 1 \cdot 10^{-8}$ mbar ls <sup>-1</sup>
Leak rate (accidental condition)	– Valve body – Valve seat	$\leq 1 \cdot 10^{-8}$ mbar ls <sup>-1</sup> n/a
Pressure range		$1 \cdot 10^{-8}$ mbar to 1.5 bar (abs)
Differential pressure on the plate	– In either direction	$\leq 1.5$ bar
Differential pressure at opening		$\leq 1$ bar
Conductance (molecular flow)		45 ls <sup>-1</sup>
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	$\leq 150$ °C $\leq 120$ °C
Material	– Valve body – Actuator – Hand wheel <sup>2</sup> – 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		1.45 kg / 3.2 lbs
Mounting position		any
Radiation resistance		$10^6$ Gy ( $10^8$ rad)
Maximum magnetic field levels		$\leq 150$ mT
Assembly cleanliness level		ISO Class 8

### Related documents

Dimensional drawing No.	920278 Rev -
STEP file No.	920277 Rev -

<sup>1</sup> Values according technical specification D\_R8752R v.1.1

<sup>2</sup> Removable

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