



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet

### Quick Shut-off Valve Series 257, DN 100 (4") Ordering No. 25740-QE99-0001

#### Description

Flange ISO-K 100

#### Technical data

Leak rate	– Valve body	$< 1 \cdot 10^{-9}$ mbar ls <sup>-1</sup>
	– Valve seat	$< 1 \cdot 10^{-6}$ mbar ls <sup>-1</sup>
Pressure range		Vacuum to 1.2 bar (abs)
Differential pressure on the plate	– in closing direction	$\leq 1$ bar
Conductance (laminar flow) <sup>1</sup>		6 000 ls <sup>-1</sup>
Cycles until first service		recommended after each backflow event or with regular maintenance cycles
Temperature	– Valve	$\leq 200$ °C
(Maximum values: depending on operating conditions and sealing materials)		
Heating and cooling rate		$\leq 50$ °C h <sup>-1</sup>
Material	– Valve body	AISI 304 (1.4301)
	– Plate	AISI 304 (1.4301)
Seal	– Bonnet	FKM
	– Plate	FKM
Mounting position		Fore line installation vertical only plate facing chamber
Trigger pressure	– $\Delta P$ at the gate	$\geq 5$ mbar
Closing time	– plate move time	$\leq 10$ ms
Weight		3.7 kg / 8.16 lbs

#### Related documents

Dimensional drawing No. 1052057

<sup>1</sup> Boundary conditions for calculation: P<sub>tot</sub> (foreline) 150 Pa, Medium: air at 150°C (assumption), Pump performance: 960 m<sup>3</sup>/h

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