

Oil tightness

Components are considered oil-tight if, depending on the application, no oil ingress or egress can be detected within a defined period.

In industrial leak testing, the tightness against various media is tested with air or other gases for practical reasons.

The following guideline values apply:

Characteristic	Air leakage		Note
	<i>from</i>	<i>to</i>	
Water Tightness	0.5 cm ³ /min	12 cm ³ /min	
Oil tightness	0.6 cm ³ /min	4.5 cm ³ /min	
Fuel tightness	0.1 cm ³ /min	3 cm ³ /min	Values for liquid fuel
	0.0006 cm ³ /min		Current value for USA export

Note:

The extremely low value for petrol tightness results from the requirement for fuel systems to be tight against vapours. The higher value represents the liquid tightness against petrol.