

UHV All-Metal Variable Leak Valve

Technical Data		
UHV-All-Metal Variable Leak Valve		
Connection flange	DN	16 CF-R
Position indication		Linear scale - scale ring
Leak rate to the outside seat "closed position"	mbar x l/s mbar x l/s	$\leq 1 \times 10^{-10}$ $\leq 1 \times 10^{-10}$
Molecular conductance	l/s	0.05
Adjustable gas flow [air, 1 bar, RT]	mbar x l/s	1×10^{-10} - 500
Dead volume seat port side port	cm ³ cm ³	2.7 1.1
Pressure range	bar (abs.)	UHV to 10
Test pressure	bar	1
Differential pressure	bar	≤ 10
Max. differential pressure at opening	bar	≤ 10
Cycles until first service		20.000
Bake-out temperature open closed actuator	°C °C °C	≤ 300 ≤ 300 ≤ 300
Heating and cooling rate	°C/h	≤ 60
Material body diaphragm		1.4943, AISI 660 / 1.4404, AISI 316 L 1.4310, AISI 301, gold plated
Mounting position		any
Radiation resistance	Gy (rad)	10^8 (10^{10})
Turns from open to close		22
Weight	kg (lbs)	0.94 (2.07)