



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

All-metal gate valve, Series 482, DN 160 (ID 6'')
Ordering No. 48244-CE01-0002

Description

Flange		DN 160 CF-F
Actuator		Manual
Feed through		Bellows
Option	=	Standard

Technical data

Leak rate	– Valve body	$< 1 \cdot 10^{-10}$ mbar ls ⁻¹
	– Valve seat	$< 1 \cdot 10^{-10}$ mbar ls ⁻¹
Pressure range		XUHV to 2 bar (abs)
Test pressure		1 bar
Differential pressure on the gate		≤ 2 bar
Differential pressure at opening		≤ 500 mbar, 1 bar with reduced cycle life
Conductance (molecular flow)		4'200 ls ⁻¹
Cycles until first service		20'000
Bake-out temperature (Maximum values: depending on operating conditions and sealing materials)	– Valve body	≤ 300 °C
	– Actuator	≤ 140 °C
Heating and cooling rate		≤ 50 °C h ⁻¹
Material	– Valve body	1.4435, AISI 316 L
	– Flange	1.4435 ESU, AISI 316 L ESR
	– Gate	1.4435, AISI 316 L
	– Mechanism	1.4435, AISI 316 L
	– Bellows	1.4435, AISI 316 L
Seal	– Bonnet	metal, silver plated
	– Gate	metal, silver plated
Mounting position		any
Radiation resistance	– Valve body	10 ⁸ Gy (10 ¹⁰ rad)
	– Actuator	10 ⁵ Gy (10 ⁷ rad)
Turns per stroke		66
Weight		39.0 kg / 85 lbs

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