



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

All-metal angle valve, Series 570, DN 160 (ID 6'')

Ordering No. 57044-GE02-0005

Description

Flange		DN 160 CF-R
Actuator		Manual, hexagon head SW 36
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	- T = 200°C	XUHV to 5 bar (abs)
	- T = 450°C	XUHV to 3.5 bar (abs)
Test pressure		1 bar
Differential pressure on the gate		≤ 5 bar
Differential pressure at opening		≤ 1 bar, > 1 bar with reduced cycle life
Conductance (molecular flow)		940 ls ⁻¹
Cycles until first service		10 000
Bake-out temperature (Maximum values: depending on operating conditions and sealing materials)	- Valve open	≤ 450 °C
	- Valve closed	≤ 350 °C
	- Actuator	≤ 300 °C
Heating and cooling rate		≤ 60 °C h ⁻¹
Material (in contact with media)	- Valve body	1.4435/1.4404, AISI 316 L
	- Mechanism	1.4435 ESU, AISI 316 L ESR
	- Bellows	1.4404, AISI 316 L
Seal	- Bonnet	metal, silver plated
	- Gate	metal, silver plated
Mounting position		any
Radiation resistance		10 ⁸ Gy (10 ¹⁰ rad)
Turns per stroke		8
Closing torque		125 Nm / 92 lbf.ft
Weight		28 kg / 62 lbs

Related documents

Dimensional drawing No. 366188

Comments

The VATRING patented by VAT guarantees a constant closing torque during the specified cycle life of 10'000 cycles. No service except regreasing of the spindledrive after high bakeout is necessary during this cycle time.

Valve DN	Hexagon head (mm)	Mnom (Nm)	Mmax (Nm)
160	36	125	154

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