



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

All-Metal Angle Valve, Series 57.0, DN 63 (ID 2 1/2")

Ordering No. 57036-GE02-0007

Description

Flange	DN 63 CF-R
Actuator	manual, hexagon head SW 22
Feedthrough	bellows

Technical data

Leak rate	
- To the outside	$\leq 1 \cdot 10^{-10} \text{ mbar ls}^{-1}$
- Seat	$\leq 1 \cdot 10^{-10} \text{ mbar ls}^{-1}$
Molecular flow conductance	125 ls^{-1}
Pressure range	UHV to 5 bar (abs)
Test pressure	1 bar
Differential pressure on the gate	
- in closing and opening direction	$\leq 5 \text{ bar}$
Max. differential pressure at opening	
- in closing and opening direction	1 bar (> 1 bar at reduced cycle lifetime)
Cycles until first service	10'000
Bake-out temperature (incl. actuator)	
- open	$\leq 450^\circ\text{C}$
- closed	$\leq 300^\circ\text{C}$
Heating and cooling rate	$\leq 60^\circ\text{Ch}^{-1}$
Material	
- Body, Mechanism (in contact with media)	1.4435/1.4404, AISI 316 L; 1.4435, AISI 316 L, ESU
- Bellows	1.4404, AISI 316 L
Seal	
- Bonnet, Plate	metal
Mounting position	any
Radiation resistance	
- Valve / Actuator	$10^8 \text{ Gy (} 10^{10} \text{ rad)}$
Turns per stroke	4.5
Torque	45 Nm / 33 lbf ft
Weight	7,8 kg / 16,4 lbs

Attachments

Dimensional drawing No. 233847

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.

The following torques are required to close the valve:

Valve DN	Hexagon head (mm)	M_{nom} (Nm)	M_{min} (Nm)	M_{max} (Nm)
63	22	45	34	51

Created by: Kurt Sonderegger	Release date: 23.04.2005	Page 1 of 1
Modified by:	Release date:	260090EA