



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

PRODUCT DATA SHEET

All-Metal Angle Valve, Series 57.1, DN 16 (ID 5/8")

Ordering No. 57124-GE02-0002

Description

Flange	DN16, CF-R
Actuator	manual, hexagon head SW 13
Feedthrough	bellows

Technical data

Leak rate	
- To the outside	$\leq 1 \cdot 10^{-10}$ mbar ls ⁻¹
- Seat	$\leq 1 \cdot 10^{-10}$ mbar ls ⁻¹
Molecular flow conductance	5 ls ⁻¹
Pressure range	UHV to 5 bar (abs)
Test pressure	1 bar
Differential pressure on the gate	
- in closing and opening direction	≤ 5 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	$\leq 350^{\circ}\text{C}$
Heating and cooling rate	$\leq 60^{\circ}\text{C h}^{-1}$
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 Gy (10^{10} rad)
Turns per stroke	6
Weight	approx. 0.8 kg / 1.8 lbs

Attachments

Dimensional drawing No. 316488

Comments

The all-metal angle valves Series 57.1 are sealed with the patented VATRING sealing system (hard to hard). VAT Series 57.1 all-metal angle valves, with manual actuator, use a hexagon head for closing. The valve has not to be closed with a specific closing torque, it is closed to a mechanical stop.

During the specified cycle life of 10'000 cycles no service is necessary.

Editor: Daniel Brandner	Date: 2009-12-14	Page 1 of 1
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