



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product Data Sheet

All-Metal Angle Valve, Series 57.1, DN 40 (ID 1½")

OSL Article No. 57132-GE14-0003

Description

Flange	DN40, CF-R
Actuator	Pneumatic actuator double acting without position indicator without solenoid valve
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	50 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	
- Valve body	$\leq 450^{\circ}\text{C}$ if valve is opened
- Valve body	$\leq 350^{\circ}\text{C}$ if valve is closed
- Pneumatic actuator	$\leq 150^{\circ}\text{C}$ (max. 100h)
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
- Actuator	Viton [®]
Mounting position	any
Radiation resistance	
- Valve	10^8 Gy (10^{10} rad)
- Actuator	10^5 Gy (10^7 rad)
Compressed air pressure min. - max.	4 - 5 bar / 55 - 70 psig (overpressure)
Volume of air cylinder	0.32 l / 0.011 ft ³
Compressed air connection	R 1/8" (USA 1/8" NPT)
Action at power failure	depending on control
Action at compressed air failure	
- Valve closed	undefined
- Valve open	undefined
Closing time / Opening time	2s
Weight	app. 6.5 kg / 14.3 lbs

Dimensions

Dimensional drawing No. 240903

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