



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

PRODUCT DATA SHEET

All-Metal Angle Valve, Series 57.1, DN 40 (ID 1 1/2")

Ordering No. 57132-GE11-0004

Description

Flange	CF-R 40
Actuator	pneumatic actuator without position indicator, without solenoid, valve single acting, closing spring
Feedthrough	bellows

Technical data

Leak rate	
- To the outside	$< 1 \cdot 10^{-10}$ mbar ls ⁻¹
- Seat	$< 1 \cdot 10^{-10}$ 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 with reduced cycle life)
Cycles until first service	10'000
Bake-out temperature	
Valve - open	$\leq 450^{\circ}\text{C}$
- closed	$\leq 350^{\circ}\text{C}$
Pneumatic actuator	$\leq 150^{\circ}\text{C}$
Heating and cooling rate	60°C/h-1
Material	
- Body, Mechanism (in contact with media)	1.4435, AISI 316 L
- Bellows	1.4404, AISI 316 L
Seal	
- Bonnet, Plate	metal
- Actuator	FKM (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.	6 - 9 bar / 85 - 130 psig (overpressure)
Volume of air cylinder	0.35 l / 0.01 ft ³
Compressed air connection	R 1/8" (USA 1/4" NPT)
Weight	16.5 kg / 36.5 lbs

Attachments

Dimensional drawing No. 430249

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