



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

All-Metal Angle Valve, Series 57.1, DN 10 (ID 3/8")

Ordering No. 57120-XE11-AAN1

Description

Flange	CF-R DN16
Actuator	pneumatic single acting (normally closed), without position indicator, without solenoid
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	2 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	≤ 250°C in open and closed position
- Pneumatic actuator	≤ 150°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	0.12 l / 0.004 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	no change
- Valve open	valve closes
Opening / Closing time	0.5 s
Weight	app. 2 kg / 4.3 lbs

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Dimensions

Dim. Drawing

546541

Option

AAN = flange: CF-R 16, with boreholes

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