VAT Vakuumventile AG
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Product data sheet

«Easy close» all-metal angle valve, Series 54 DN 40 (ID 1 ½")

OSL-Article No. 54132-GE02-0001

Description

Flange	DN 40 CF-R
Actuator	manual, hexagon head SW 17 mm or inside □ ⅜"
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	XHV to 2 bar (abs)
Test pressure	1 bar
Differential pressure on the gate	
- in closing and opening direction	≤ 2 bar
Max. differential pressure at opening	
- in closing and opening direction	1 bar (> 1 bar with reduced cycle life)
Lifetime	≥ 1'000 cycles
Bake-out temperature (incl. actuator)	≤ 300°C (open and closed)
Heating and cooling rate	≤ 60°C h^{-1}
Material	
- Body, Mechanism (in contact with media)	1.4404 / 1.4435, AISI 316L
- Bellow	1.4404, AISI 316 L
Seal	
- Bonnet	metal
- Plate	metal
Mounting position	any
Radiation resistance	
- Valve / actuator	10^8 Gy (10^{10} rad)
Turns per stroke	11
Weight	1.9 kg / 4.2 lbs

Attachments

Dimensional drawing No. 505482

Comments

The VAT «Easy close» all-metal angle valves Series 54 are sealed with patented sealing system (hard to hard).

During the specified lifetime no service is necessary under clean operating conditions.

VAT Series 54 all-metal angle valves 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. No torque wrench is needed to operate the valve.