



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet

**All-Metal Angle Valve, Series 57, DN 160 (ID 6")**

**OSL-Article No. 57044-GE21**

### Description

Flange	DN 160 CF-R
Actuator	pneumatic single acting with closing spring, with position indicator, without solenoid
Feedthrough	bellows

### Technical data

Leak rate	
- To the outside	$\leq 1 \cdot 10^{-10}$ mbar ls <sup>-1</sup>
- Seat	$\leq 1 \cdot 10^{-10}$ mbar ls <sup>-1</sup>
Molecular flow conductance	940 ls <sup>-1</sup>
Pressure range (T= 200°C)	extreme UHV to 5 bar (abs)
(T= 450°C)	extreme UHV to 3.5 bar (abs)
Test pressure	1 bar
Differential pressure on the gate	
- in closing and opening direction	$\leq 5$ bar
Max. differential pressure at opening	
- in closing and opening direction	1 bar (any differential pressure at opening might reduce the lifetime of the valve)
Cycles until first service	10'000
Bake-out temperature	
Valve body	
- open	$\leq 450^\circ\text{C}$
- closed	$\leq 350^\circ\text{C}$
Pneumatic actuator (spring closing)	$\leq 150^\circ\text{C}$
Position indicator	$\leq 80^\circ\text{C}$
Heating and cooling rate	$\leq 60^\circ\text{C h}^{-1}$
Material	
- Body, Mechanism (in contact with media)	1.4306, AISI 304 L; 1.4435, AISI 316 L,
- Bellows	1.4404, AISI 316 L
- actuator	aluminium
Seal	
- Bonnet, Plate	metal
- actuator	FKM (Viton®)
Mounting position	any
Position indicator contact rating	$\leq 50$ V AC / DC; $\leq 1.2$ A
Radiation resistance	
- Valve	$10^8$ Gy ( $10^{10}$ rad)
- Actuator	$10^5$ Gy ( $10^7$ rad)
- Position indicator	$10^5$ Gy ( $10^7$ rad)
Compressed air pressure	6 – 9 bar / 85-130 psig (over pressure)

Created by: D.Brandner	Release date: 2010-04-21	Page 1 of 2
Modified by::	Release date:	<b>284058EA</b>



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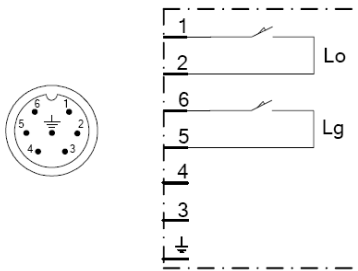
Compressed air connection	R 1/8"
Volume compressed air cylinder	4.8 l / 0.17 ft <sup>3</sup>
Behaviour in case of power failure	depends on solenoid
Behaviour in case of compressed air pressure drop	
Valve closed	Valve remains closed and leaktight
Valve open	Valve closes
Weight	136 kg / 299 lbs

### Attachments

Dimensional drawing No. 376658

### Connection diagrams

Standard position indicator with  
make contact switches



Lo = position indicator open  
Lg = position indicator closed

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