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-GE08-0004

Description

Flange	DN40, CF-R
Actuator	manual, hexagon head SW 17, with position indicator
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 at reduced cycle lifetime)
Cycles until first service	10'000
Bake-out temperature (incl. actuator)	
- Open	≤ 150°C
- Closed	≤ 150°C
- Position indicator	≤ 80°C
Heating and cooling rate	≤ 60°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
Mounting position	any
Position indicator	
- 1 switch for «open» and 1 switch for «close»	
- Contact rating	≤ 50 V AC / DC; ≤ 1.2 A
- 1 x 7 pole plug	
Radiation resistance	
- Valve	10^8 Gy (10^{10} rad)
- Actuator	10^8 Gy (10^{10} rad)
- Position indicator	10^5 Gy (10^7 rad)
Turns per stroke	8
Weight	app. 2.8 kg / 6.2 lbs

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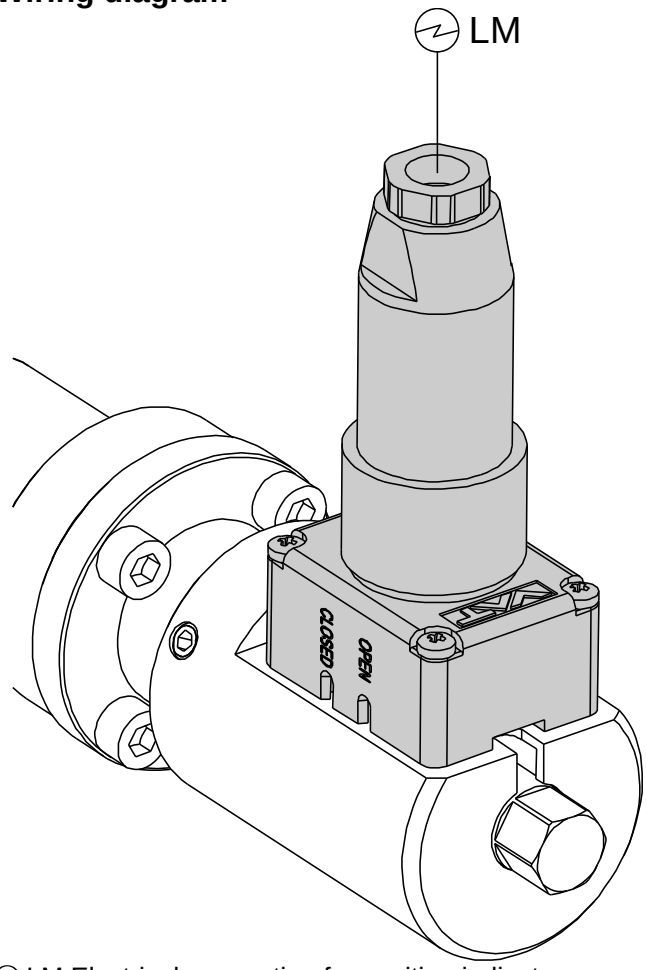
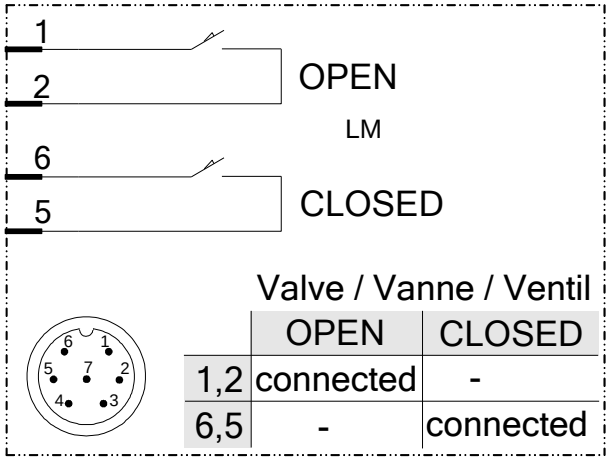
Dimensions

Dimensional drawing No. 252800

Wiring diagram





⏀ LM Electrical connection for position indicator

Comments

The all-metal angle valves Series 57.1 are sealed with the patented VATRING sealing system (hard to hard).
VAT Series 57.1 all-metal angle valves, with manual actuator, 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.
During the specified cycle life of 10'000 cycles no service is necessary.