



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

HV gate valve, Series 140, DN 160 (ID 6'')
Ordering No. 14044-CE44

Description

| | |
|-------------|--|
| Flange | CF-F 160 |
| Actuator | Pneumatic, double acting – with solenoid valve – with position indicator |
| Feedthrough | Rotary feedthrough |

Technical data

| | | |
|--|--|--|
| Leak rate | – Valve body – Valve seat | $< 1 \cdot 10^{-9}$ mbar ls ⁻¹ $< 1 \cdot 10^{-9}$ mbar ls ⁻¹ |
| Pressure range | | $1 \cdot 10^{-8}$ mbar to 2 bar (abs) |
| Differential pressure on the gate | | ≤ 2 bar |
| Differential pressure at opening | | ≤ 30 mbar |
| Conductance (molecular flow) | | 5 150 ls ⁻¹ |
| Cycles until first service | – Unheated and under clean conditions | 200 000 |
| Temperature (Maximum values: depending on operating conditions and sealing materials) | – Valve body – Pneumatic actuator – Solenoid valve – Position indicator | ≤ 150 °C ≤ 50 °C ≤ 50 °C ≤ 80 °C |
| Heating and cooling rate | | 50 °C h ⁻¹ |
| Material (main components) | – Valve body – Mechanism | AISI 304 (1.4301) AISI 304 (1.4301), AISI 316L (1.4404) |
| Seal | – Bonnet – Gate – Actuator | FKM (Viton®), Vulcanized FKM (Viton®), O-ring FKM (Viton®), NBR |
| Mounting position | | any |
| Volume of pneumatic actuator | | 0.32 l / 0.011 ft ³ |
| Compressed air min. – max. overpressure | | 4 – 7 bar / 58 – 102 psi |
| Compressed air connection | | G $\frac{1}{8}$ '' (1/8'' NPT for USA) |
| Actuation time | – closing – opening | 2.5 s 2.5 s |
| Weight | | 27 kg / 58 lbs |

| | | |
|------------------|--------------------------|-----------------|
| Created by: MAEM | Release date: 2017-04-05 | 1 of 2 |
| Modified by: | Release date: | 889539EA |



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Behavior in case of compressed air pressure drop – Valve closed
– Valve open

valve remains closed
undefined

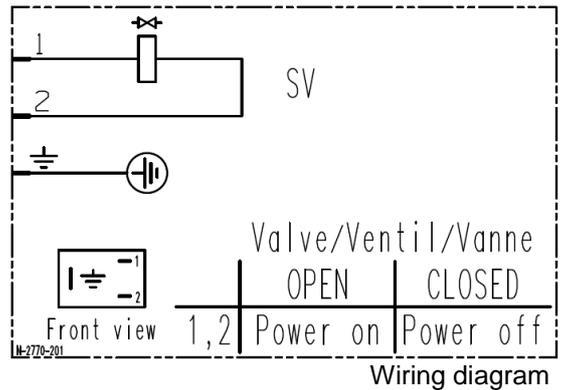
Behavior in case of power failure – Valve closed
– Valve open

valve remains closed
valve closes

Electrical connections

Solenoid valve

Type 5/2 way
Voltage Defined by order



Position indicator

Type Micro switch
Voltage ≤ 250 V AC ≤ 50 V DC
Current max. ≤ 5 A ≤ 3 A

