



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

All-metal gate valve, Series 482, DN 160 (ID 6")

Ordering No. 48244-CE72-0001

Description

Flange		DN 160 CF-F
Actuator		Pneumatic double acting, compact - without solenoid valve - with position indicator
Feed through		Bellows
Option	=	Standard

Technical data

Leak rate	- Valve body - Valve seat	$< 1 \cdot 10^{-10}$ mbar ls ⁻¹ $< 1 \cdot 10^{-10}$ mbar ls ⁻¹
Pressure range		XUHV to 2 bar (abs)
Test pressure		1 bar
Differential pressure on the gate		≤ 2 bar
Differential pressure at opening		500 mbar, 1 bar with reduced cycle life
Conductance (molecular flow)		4 200 ls ⁻¹
Cycles until first service		20 000
Bake-out temperature (Maximum values: depending on operating conditions and sealing materials)	- Valve body - Actuator - Position indicator	≤ 300 °C ≤ 200 °C (for max. 100h) ≤ 80 °C
Heating and cooling rate		≤ 50 °C h ⁻¹
Material	- Valve body - Flange - Gate - Mechanism - Bellows	1.4435, AISI 316 L 1.4435 ESU, AISI 316 L ESR 1.4435, AISI 316 L 1.4435, AISI 316 L 1.4435, AISI 316 L
Seal	- Bonnet - Gate - Actuator	metal, silver plated metal, silver plated FKM (Viton®)
Mounting position		any
Radiation resistance	- Valve body - Actuator - Position indicators	10 ⁸ Gy (10 ¹⁰ rad) 10 ⁵ Gy (10 ⁷ rad) 10 ⁵ Gy (10 ⁷ rad)
Volume of pneumatic actuator		4.3 l / 0.152 ft ³
Compressed air min. – max. overpressure		4 - 8 bar / 58 - 116 psig
Compressed air connections		R 1/8" (USA: 1/8" NPT)
Actuation time (valid for RT, Ø6mm tubing at 4 bar with flow rate of 400 l/min)	- Closing - Opening	≤ 9.0 sec ≤ 9.0 sec

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Weight		45 kg / 100 lbs
Behavior in case of compressed air pressure drop	– Valve closed – Valve open	Valve remains in closed position Undefined
Behavior in case of power failure		Depending on control

Related documents

Dimensional drawing No. 251429

Electrical connections

Position indicator

Type	micro switch
Voltage	≤ 50 V AC / DC
Current max.	≤ 1.2 A

