

Ordering No. 48148-CE74-0001

Description		
Flange		DN 250 CF-F
Actuator		Pneumatic double acting, compact - with solenoid valve - with position indicator
Feed through		Bellows
Option	=	Standard
Technical data		
	Value body	$< 1 \cdot 10^{-10}$ mbar ls ⁻¹
Leak rate	– Valve body – Valve seat	$< 1 \cdot 10^{-10}$ mbar is $< 1 \cdot 10^{-10}$ mbar is ⁻¹
Pressure range	valvo ooat	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)		12 700 ls ⁻¹
Cycles until first service		5 000
Bake-out temperature (Maximum values: depending on operating conditions and sealing materials)	 Valve body Actuator Position indicator Solenoid 	≤ 300 °C ≤ 200 °C(for max. 100h) ≤ 80 °C ≤ 80 °C
Heating and cooling rate		≤ 25 °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		Beam tube horizontal, actuator up or down
Radiation resistance	 Valve body Actuator Position indicator Solenoid 	10 ⁸ Gy (10 ¹⁰ rad) 10 ⁵ Gy (10 ⁷ rad) 10 ⁵ Gy (10 ⁷ rad) 10 ⁴ Gy (10 ⁶ rad)
Volume of pneumatic actuator		10.7 l / 0.378 ft ³
Compressed air min. – max. overpressure		4 - 8 bar / 58 - 116 psig
Compressed air connections		R 1⁄8" (USA: 1⁄8" NPT)

Created by: Martin Greuter	Release date: 02. September 2011	1 of 2
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Product data sheet All-metal gate valve, Series 481, DN 250 (ID 10'') Ordering No. 48148 CE74 0001

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Actuation time (valid for RT, Ø6mm tubing at 4 bar with flow rate of 400 l/min)	– Closing – Opening	≤ 20.0 sec ≤ 20.0 sec
Weight		155 kg / 342 lbs
Behavior in case of compressed air pressure drop	Valve closedValve open	Valve remains in closed position Undefined
Behavior in case of power failure	Valve closedValve open	Valve remains in closed position Valve closes
Related documents		

according to PO

 \leq 2.5 W

Related documents

Dimensional drawing No. 216811D

Electrical connections

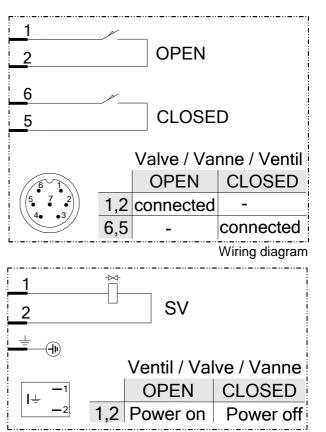
Position indicator

Solenoid

Power consumption

Voltage

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



Wiring diagram

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