

Ordering No. 47244-CE44-0001

Description		
Flange		DN 160 CF-F
Actuator		Pneumatic double acting, extended - with solenoid valve - with position indicator
Feed through		Bellows
RF - contact		Circular ID 150 mm
Option	0002	VAT - Standard
Technical data		
Leak rate	<ul> <li>Valve body</li> <li>Valve seat</li> </ul>	< 1 · 10 <sup>-10</sup> mbar Is <sup>-1</sup> < 1 · 10 <sup>-10</sup> mbar Is <sup>-1</sup>
Molecular flow conductance		3700 ls <sup>-1</sup>
Pressure range		XUHV to 2 bar (abs)
Test pressure		1 bar
Differential pressure on the gate		≤ 1 bar
Differential pressure at opening		≤ 500 mbar, 1 bar with reduced cycle life
Cycles until first service		10 000
Bake-out temperature (Maximum values: depending on operating conditions and sealing materials)	<ul> <li>Valve body</li> <li>Actuator</li> <li>Position indicator</li> <li>solenoid</li> </ul>	≤ 300 °C ≤ 200 °C (for max. 100h) ≤ 80 °C ≤ 80 °C
Heating and cooling rate		≤ 50 °C h <sup>-1</sup>
Material	<ul> <li>Valve body</li> <li>Flange</li> <li>Gate</li> <li>Mechanism</li> <li>Bellows</li> <li>RF contact</li> </ul>	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 1.4310, AISI 301 silver plated
Seal	– Bonnet – Gate – Actuator	metal, silver plated metal, silver plated Viton <sup>®</sup>
Mounting position		Any with beam tube horizontal
Radiation resistance	<ul> <li>Valve body</li> <li>Actuator</li> <li>Position indicators</li> <li>solenoid</li> </ul>	10 <sup>8</sup> Gy (10 <sup>10</sup> rad) 10 <sup>5</sup> Gy (10 <sup>7</sup> rad) 10 <sup>5</sup> Gy (10 <sup>7</sup> rad) 10 <sup>4</sup> Gy (10 <sup>6</sup> rad)

Created by: Kurt Sonderegger	Release date: 2014-04-30	1 of 2
Modified by:	Release date:	748084EA



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Volume of pneumatic actuator		5.0 I / 0.18 ft <sup>3</sup>
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
Weight		app. 59 kg / 130 lbs
Behavior in case of compressed air pressure drop	<ul><li>Valve closed</li><li>Valve open</li></ul>	Valve remains in closed position Valve remains in open position
Behavior in case of power failure	<ul><li>Valve closed</li><li>Valve open</li></ul>	Valve remains in closed position Valve closes

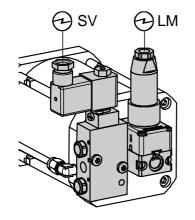
## **Related documents**

Dimensional drawing No.	207013
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## **Electrical connections**

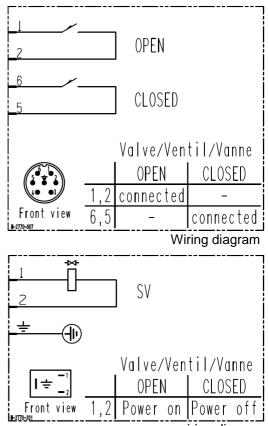
## **Position indicator - LM**

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



## Solenoid - SV

Voltageaccording to POPower consumption $\leq 2.5 \text{ W}$ 



wiring diagram

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