

Ordering No. 48240-CE74-0003

Description		
Flange		DN 100 CF-F
Actuator		Pneumatic double acting, compact - with solenoid valve - with position indicator
Feed through		Bellows
Option	=	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>
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)		1 400 ls <sup>-1</sup>
Cycles until first service		20 000
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	– 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 1.4435, AISI 316 L
Seal	– Bonnet – Gate – Actuator	metal, silver plated metal, silver plated FKM (Viton <sup>®</sup> )
Mounting position		any
Radiation resistance	<ul> <li>Valve body</li> <li>Actuator</li> <li>Position indicator</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)
Volume of pneumatic actuator		1.4 l / 0.049 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)

Created by: Martin Greuter	Release date: 2011-12-06	1 of 2
Modified by: René Brulc	Release date: 2014-02-21	291217EB



## **Product data sheet** All-metal gate valve, Series 482, DN 100 (ID 4")

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Actuation time (valid for RT, Ø6mm tubing at 4 bar with flow rate of 400 l/min)	– Closing – Opening	≤ 4.0 sec ≤ 4.0 sec
Weight		27 kg / 60 lbs
Behavior in case of compressed air pressure drop	<ul><li>Valve closed</li><li>Valve open</li></ul>	Valve remains in closed position Undefined
Behavior in case of power failure	<ul><li>Valve closed</li><li>Valve open</li></ul>	Valve remains in closed position Valve closes
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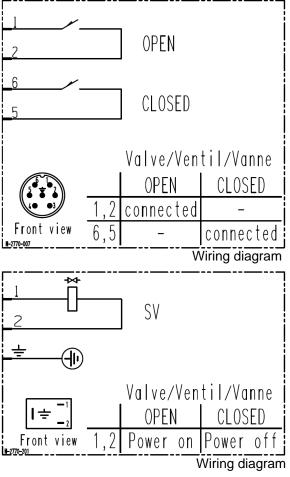
## **Related documents**

Dimensional drawing No.

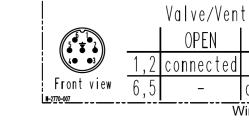
## **Electrical connections**

## **Position indicator**

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



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Solenoid

Voltage Power consumption according to PO  $\leq 2.5 \text{ W}$