

Description	
Flange	CF-F 80
Actuator	pneumatic, double acting – with solenoid valve – with position indicator
Feedthrough	Bellow
Technical data	
Leak rate	
<ul><li>Valve body</li><li>Valve seat</li></ul>	< $1 \cdot 10^{-9}$ mbar ls <sup>-1</sup> < $1 \cdot 10^{-7}$ mbar ls <sup>-1</sup>
Pressure range	$1 \cdot 10^{-8}$ mbar to 1.2 bar (abs)
Differential pressure on the gate	≤ 1.2 bar
Conductance (molecular flow)	890 ls <sup>-1</sup>
Max. differential pressure at opening in closing and opening direction with influence to the cycle life	counter seat side B
<ul> <li>Higher pressure on seat side A, the differential pressure acts in opening direction</li> </ul>	$\leq$ 1.0 bar with full cycle life
<ul> <li>Higher pressure on counter seat side B, the differential pressure acts in closing direction</li> </ul>	≤ 30mbar with full cycle life
<ul> <li>Higher pressure on counter seat side B, the differential pressure acts in closing direction</li> </ul>	$\leq$ 1.0 bar with reduced cycle life
Cycles until first service	5 000 (unheated and under clean conditions)
Bellows cycles	100 000 (unheated and under clean conditions)
Bake-out temperature – Valve body – Actuator – Solenoid – Position indicator	≤ 150 °C (bake-out max. 24h) ≤ 100 °C ≤ 50 °C ≤ 60 °C

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## Product data sheet HV gate valve, Series 091, DN 80 (ID 3'') Ordering No. 09138-CE44

Heating and cooling rate		50 °C h <sup>-1</sup>
Material – Valve body – Bonnet – Gate – Parts (in contact with media) – Bellows		AISI 304 (1.4301) EN AW-5083 (3.3547) AISI 304 (1.4301), (1.4308) A2 Ni-Teflon coated, PEEK AISI 633, (AM350)
Seal – Bonnet – Gate – Actuator		FKM (Viton <sup>®</sup> ) FKM (Viton <sup>®</sup> ) FKM (Viton <sup>®</sup> )
Mounting position		Any
Volume of pneumatic actuator		0.2 I / 0.007 ft <sup>3</sup>
Compressed air min. – max. overpressure Compressed air connection		4 – 7 bar / 58 – 101 psi G1/8" (NPT for USA)
Actuation time	– closing – opening	<2s <2s
Behavior in case of compressed air pressure drop	<ul> <li>Valve closed</li> <li>Valve open</li> <li>During actuation</li> </ul>	Valve remains closed (≥ 24h) undefined undefined
Behavior in case of power failure	<ul> <li>Valve closed</li> <li>Valve open</li> <li>During actuation</li> </ul>	valve remains closed valve closes valve closes

Weight

approx. 6.4 kg / 14.0 lbs

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## **Electrical connections**

## Solenoid valve

Position indicator

Type Voltage

Туре

Voltage

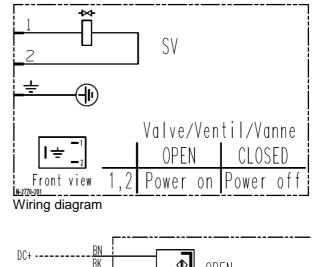
Current max.

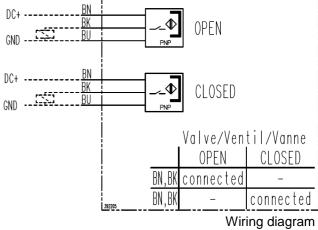
4/2 way Defined by order

PNP (NO with LED)

10..30 V DC

≤ 0.2 A





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