

Description		
Flange	ISO-F 100	
Actuator	pneumatic, double acting – with position indicator	
Feedthrough	Bellows feedthrough	
Technical data		
Leak rate – Valve body – Valve seat	< 1 · 10 <sup>-9</sup> mbar ls <sup>-1</sup> < 1 · 10 <sup>-7</sup> 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)	1 700 ls <sup>-1</sup>	
Max. differential pressure at opening in closing and opening direction with influence to the cycle life	seat side A	
<ul> <li>Higher pressure on seat side A, the differential pressure acts in opening direction</li> </ul>	≤ 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>	≤ 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 – Position indicator	≤ 150 °C (bake-out max. 24h) ≤ 100 °C ≤  60 °C	

Created by: LOO	Release date: 13.01.2015	1/2
Modified by:	Release date:	782931EA



## Product data sheet HV gate valve, Series 091, DN 100 (ID 4") Ordering No. 09140-PE24

Heating and cooling rate		50 °C h <sup>-1</sup>
Material – Valve body – Gate – Parts (in contact with media) – Bellows		AISI 304 (1.4301) AISI 304 (1.4301), (1.4308) A2 Ni-Teflon coated, PEEK AISI 633, (AM350)
Seal – Bonnet – Gate – Actuator Mounting position		FKM (Viton <sup>®</sup> ) FKM (Viton <sup>®</sup> ) FKM (Viton <sup>®</sup> ) any
Volume of pneumatic actuator		0.24 I / 0.008 ft <sup>3</sup>
Compressed air min. – max. overpressure		4 – 7 bar / 58 – 102 psi
Compressed air connection		M5 (10-32 UNF suitable)
Actuation time – closing – opening		≤ 2 s ≤ 2 s
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>	depending on customer installation depending on customer installation depending on customer installation
Weight		approx. 7.8 kg / 17.2 lbs
Position indicator		DC+BN
Туре	PNP (NO with LED)	$\rightarrow$
Voltage	1030 V DC	GND
Current max.	≤ 0.2 A	DC+BK GND
		Valve/Ventil/Vanne OPEN CLOSED

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connected

BN,BK connected

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BN,BK

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Modified by:	Release date:	782931EA