

Description		
Flange	ISO-F 80	
Actuator	pneumatic, double acting	
Feedthrough	Bellow	
Technical data		
Leak rate – Valve body – Valve seat	< 1 · 10 ⁻⁹ mbar Is ⁻¹ < 1 · 10 ⁻⁷ mbar Is ⁻¹	
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 ⁻¹	
Max. differential pressure at opening in closing and opening direction with influence to the cycle life	v seat side A counter seat side B	
 Higher pressure on seat side A, the differential pressure acts in opening direction 	≤ 1.0 bar with full cycle life	
 Higher pressure on counter seat side B, the differential pressure acts in closing direction 	≤ 30mbar with full cycle life	
 Higher pressure on counter seat side B, the differential pressure acts in closing direction 	\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	≤ 150 °C (bake-out max. 24h) ≤ 100 °C	

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Product data sheetProduct data sheet HV gate valve, Series 091, DN 80 (ID 3'') Ordering No. 09138-PE14

Heating and cooling rate		50 °C h ⁻¹
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		FKM (Viton [®]) FKM (Viton [®]) FKM (Viton [®])
Mounting position		Any
Volume of pneumatic actuator		0.2 1/0.007 ft ³
Compressed air min. – max. overpressure		4 – 7 bar / 58 – 101 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	– Valve closed – Valve open – During actuation	Valve remains closed (≥ 24h) undefined undefined
Behavior in case of power failure	 Valve closed Valve open During actuation 	

Weight

approx. 7 kg / 15.4 lbs

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