

Product data sheet HV gate valve, Series 091, DN 160 (ID 6'') Ordering No. 09144-PE24

Description	
Flange	ISO-F 160
Actuator	pneumatic, double acting – with position indicator
Feedthrough	Bellow
Technical data	
Leak rate – Valve body – Valve seat	< $1 \cdot 10^{-9}$ mbar ls ⁻¹ < $1 \cdot 10^{-7}$ mbar ls ⁻¹
Pressure range	$1 \cdot 10^{-8}$ mbar to 1.2 bar (abs)
Differential pressure on the gate	≤ 1.2 bar
Conductance (molecular flow)	5 000 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 	≤ 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	\leq 150 °C (bake-out max. 24h) \leq 100 °C \leq 60 °C
Heating and cooling rate	50 °C h ⁻¹

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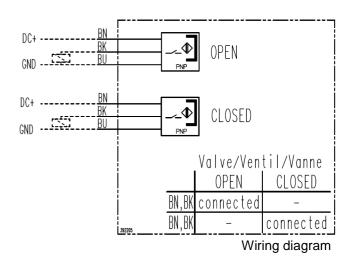
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Material – Valve body – Bonnet – Gate – Parts (in contact with media) – Bellows		AISI 304 (1.4301) EN AW-5083 (3.3547) AISI 304 (1.4301), (1.4308) A2 Ni-Teflon coated, PEEK AISI 633, (AM350)
Seal		
– Bonnet – Gate		FKM (Viton [®]) FKM (Viton [®])
- Actuator		FKM (Viton [®])
Mounting position		Any
Volume of pneumatic actuator		0.53 l / 0.017 ft ³
Compressed air min. – max. overpressure		4 – 7 bar / 58 – 102 psi
Compressed air connection		M5 (10 -32 UNF suitable)
Actuation time	– closing – opening	< 3.0 s < 3.0 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	depending on customer installation depending on customer installation depending on customer installation
Weight		approx. 16,5 kg / 36.3 lbs
0		

Position indicator

Туре	PNP (NO with LED
Voltage	1030 V DC
Current max.	≤ 0.2 A



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