

Description	
Flange	ISO-KF 50
Actuator	pneumatic, double acting – with position indicator
Feedthrough	Bellows feedthrough
Technical data	
Leak rate – Valve body – Valve seat	< 1 · 10 ⁻⁹ mbar ls ⁻¹ < 1 · 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)	250 ls ⁻¹
Max. differential pressure at opening in closing and opening direction with influence to the cycle life	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 – Position indicator	≤ 150 °C (bake-out max. 24h) ≤ 100 °C ≤ 60 °C

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Product data sheet HV gate valve, Series 091, DN 50 (ID 2'') Ordering No. 09134-KE24

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 Mounting position		FKM (Viton [®]) FKM (Viton [®]) FKM (Viton [®]) any
Volume of pneumatic actuator		0.08 I / 0.003 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		≤ 1.5 s ≤ 1.5 s
Behavior in case of compressed air pressure drop	 Valve closed Valve open During actuation 	Valve remains closed (≥ 24h) undefined undefined
Weight		approx. 3.4 kg / 7.5 lbs

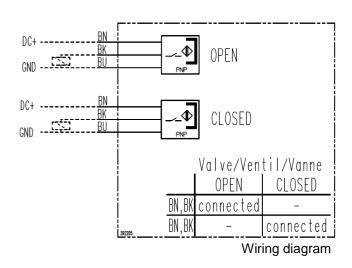
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Electrical connections

Position indicator	
Туре	PNP
Voltage	1030 V DC
Current max.	\leq 0.2 A



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