

Description		
Flange	CF-F 100	
Actuator	pneumatic, double acting – with position indicator	
Feedthrough	Bellows feedthrough	
Technical data		
Leak rate		
Valve bodyValve 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)	1 700 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 100 (ID 4'') Ordering No. 09140-CE24

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 Compressed air min. – max. overpressure		0.24 I / 0.008 ft ³ 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	 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. 7.8 kg / 17.2 lbs
Position indicator		DC+BN
Type Voltage	PNP (NO with LED) 1030 V DC	GNDBK
Current max.	≤ 0.2 A	DC+
		Valve/Ventil/Vanne

CLOSED

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connected

OPEN

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BN,BK connected

BN,BK

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Wiring diagram