

Product data sheet

HV gate valve Series 091, DN 63 (2 1/2") Ordering No. 09136-PE14-0003

Description

Flange		ISO-F 63
Actuator		Pneumatic, double acting
Feedthrough		Bellows
Technical data		
Leak rate	– Valve body – Valve seat	< 1 · 10 ⁻⁹ mbar ls ⁻¹ < 1 · 10 ⁻⁷ mbar ls ⁻¹
Pressure range		1 · 10 ⁻⁸ mbar to 1.2 bar (abs)
Differential pressure on the plate		≤ 1.2 bar
Differential pressure at actuation	 In opening direction In closing direction 	\leq 1 bar ¹ \leq 30 mbar (1 bar with reduced cycle life) ²
Conductance (molecular flow)		430 ls ⁻¹
Cycles until first service		5 000 (unheated and under clean conditions)
Temperature (Maximum values: depending on operating conditions and sealing materials)	– Valve body – Actuator	≤ 180 °C ≤ 100 °C
Heating and cooling rate		50 °C h ⁻¹
Material	– Valve body – Gate – Bellows – Small parts	AISI 304 (1.4301) AISI 304 (1.4301, 1.4308) AISI 633 (AM350) A2 Ni-PTFE coated, PEEK
Seal	– Bonnet – Gate – Actuator	FKM FKM FKM, PU
Mounting position		any
Volume of pneumatic actuator		0.17 I / 0.006 ft ³
Compressed air min. – max. overpressure		4 – 7 bar / 58 – 102 psi
Compressed air connection		G1/8" (NPT for USA)
Actuation time		≤ 0.35 s
Weight		5.7 kg / 12.6 lbs

Created by: BRR	Release date: 22.10.2021	1/2
Modified by:	Release date:	1131331EA

 ¹ Differential pressure supports gate to open
 ² Differential pressure supports gate to stay closed. Therefore cycle life reduced due to increased wear of gate seal

	Product data sh	roduct data sheet		
VAT Vakuumventile AG CH-9469 Haag, Schweiz	HV gate valve Series 091, DN 63 (2 1/2") Ordering No. 09136-PE14-0003			
Behavior in case of compres air pressure drop	sed – Valve closed – Valve open – During actuation	valve remains closed (≥ 24h) undefined undefined		
Behavior in case of power fa	ilure – Valve closed – Valve open – During actuation	depending on customer installation depending on customer installation depending on customer installation		

Related documents

Dimensional drawing No. 1095667

Created by: BRR	Release date: 22.10.2021	2/2
Modified by:	Release date:	1131331EA