



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

Low particle HV gate valve, Series 151, DN 63 (ID 2 1/2")

Ordering No. 15136-PA14

Description

Flange	ISO-F 63
Actuator	Pneumatic, double acting
Feedthrough	Bellows

Technical data

Leak rate	- Valve body	$< 1 \cdot 10^{-9}$ mbar ls ⁻¹
	- Valve seat	$< 1 \cdot 10^{-9}$ mbar ls ⁻¹
Pressure range		$1 \cdot 10^{-8}$ mbar to 1 bar (abs)
Differential pressure on the gate		≤ 1.2 bar
Differential pressure at opening		≤ 30 mbar
Conductance (molecular flow)		480 ls ⁻¹
Cycles until first service		500 000 (unheated and under clean conditions)
Temperature	- Valve Body	≤ 120 °C (bake-out max. 24h)
(Maximum values: depending on operating conditions and sealing materials)	- Actuator	≤ 100 °C
Heating and cooling rate		30 °C h ⁻¹
Material (main components)	- Valve Body	EN AW-6082 (3.2315)
	- Gate	EN AW-6082 (3.2315)
	- Bellows	AISI 633 (AM350)
Seal	- Bonnet	FKM (Viton®)
	- Gate	FKM (Viton®), vulcanized
	- Actuator	FKM (Viton®)
Mounting position		Any
Volume of pneumatic actuator		0.22 l / 0.008 ft ³
Compressed air min. – max. overpressure		4 – 7 bar / 58 – 102 psi
Compressed air connection		M5 (10-32 UNF suitable)
Actuation time	- closing	≤ 1.5 s
	- opening	≤ 1.5 s
Weight		8.0 kg / 17.6 lbs
Behavior in case of compressed air pressure drop	- Valve closed	- Undefined (not mechanically locked)
	- Valve open	- Undefined (not mechanically locked)
Behavior in case of power failure	- Valve closed	- Depending on customer installation
	- Valve open	- Depending on customer installation

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