VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

Vacuum gate valve, Series 121, DN 160 (ID 6'')
Ordering No. 12144-PA14

Description

Flange	ISO-F 160
Actuator	Pneumatic, double acting
Feedthrough	Shaft feedthrough

Technical data

Leak rate	– Valve body – Valve seat	$< 1 \cdot 10^{-9}$ mbar ls^{-1} $< 1 \cdot 10^{-9}$ mbar ls^{-1}
Pressure range		$1 \cdot 10^{-7}$ mbar to 1.6 bar (abs)
Differential pressure on the gate		≤ 1.6 bar
Differential pressure at opening		≤ 30 mbar
Conductance (molecular flow)		5 800 ls^{-1}
Cycles until first service		100 000 (unheated and under clean conditions)
Temperature (Maximum values: depending on operating conditions and sealing materials)	– Valve body – Actuator	≤ 120 °C ≤ 80 °C
Heating and cooling rate		30 °C h^{-1}
Material	– Valve body – Mechanism	EN AC-42100 (3.2371) EN AW-6082 (3.2315)
Seal	– Bonnet – Gate – Actuator	FKM (Viton®) FKM (Viton®), O-ring FKM (Viton®), NBR (BUNA N)
Mounting position		any
Volume of pneumatic actuator		0.5 l / 0.018 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	2.0 s 2.0 s
Weight		9.0 kg / 20 lbs
Behavior in case of compressed air pressure drop	– Valve closed – Valve open	– valve remains closed – undefined
Behavior in case of power failure	– Valve closed – Valve open	– depending on customer installation – depending on customer installation