VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

HV angle valve
Series 264, DN 160 (ID 6'')
Ordering No. 26444-QE31-0001

Description

Flange	ISO-K 160
Actuator	Pneumatic, single acting with closing spring – with solenoid valve – without position indicator
Feedthrough	Bellows

Technical data

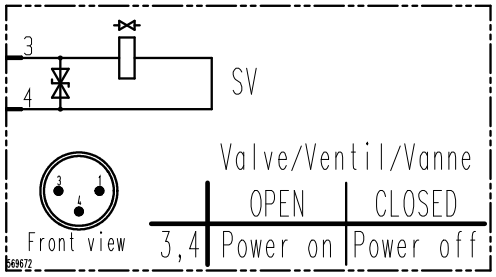
Leak rate	– Valve body – Valve seat	$< 1 \cdot 10^{-9}$ mbar ls^{-1} $< 1 \cdot 10^{-9}$ mbar ls^{-1}
Pressure range		$1 \cdot 10^{-8}$ mbar to 2 bar (abs)
Differential pressure on the plate	– In opening direction – In closing direction	≤ 1.2 bar ≤ 2 bar
Differential pressure at opening		≤ 1 bar [1 bar with reduced number of cycles]
Conductance (molecular flow)		1000 ls^{-1}
Actuation time	– Closing – Opening	≤ 1.5 sec. ≤ 1.5 sec.
Cycles until first service (tested at room temp. under clean and static vacuum conditions)		1 million
Temperature (Maximum values: depending on operating conditions and sealing materials)	– Valve body – Actuator – Solenoid valve	≤ 150 °C ≤ 120 °C ≤ 50 °C
Material	– Valve body – Actuator – Plate – Bellows	AISI 316L (1.4404) Aluminum AISI 316L (1.4404) AISI 316 Ti (1.4571)
Seal	– Bonnet O-ring – Plate O-ring – Actuator O-ring	FKM (Viton®) FKM (Viton®) FKM (Viton®)
Weight		14 kg / 31 lbs
Mounting position		any
Volume of pneumatic actuator		0.65 l / 0.023 ft^3
Compressed air min. – max. overpressure		4.5 – 7 bar / 65 – 102 psi
Compressed air connection		G⅛" female
Behavior in case of compressed air pressure drop	– Valve closed – Valve opened – During actuation	Valve remains closed and leaktight Valve closes leaktight Valve closes leaktight

Behavior in case of power failure	– Valve closed	Valve remains closed and leaktight
	– Valve opened	Valve closes leaktight
	– During actuation	Valve closes leaktight

Electrical connection

Solenoid valve

Type	3/2 way
Voltage	See label on solenoid
Connection type	plug, male M8x1
Additional feature	LED orange; overvoltage protection; adjustable emergency operation



Wiring diagram