VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet
Fast closing valve, Series 75.0, DN 160 (6'')
Ordering No. 75044-CE44-0004

Description

Flange	DN 160 CF-F
Actuator	Pneumatic double acting - with solenoid valves - with position indicator
Feed through	Bellows
Option	none

Technical data

Leak rate	– Valve body	$< 1 \cdot 10^{-10}$ mbar ls^{-1}
	– Valve seat	$< 1 \cdot 10^{-9}$ mbar ls^{-1}
Pressure range		UHV to 2 bar (abs)
Test pressure		1 bar
Differential pressure on the closed gate	– in closing direction	≤ 2 bar
	– in opening direction	≤ 0.5 bar
Differential pressure at opening	– in closing direction	≤ 50 mbar
	– in opening direction	≤ 1 bar
Conductance (molecular flow)		1 700 ls^{-1}
Cycles until first service		2 000
Bake-out temperature (Maximum values: depending on operating conditions and sealing materials)	– Valve	≤ 200 °C (for max. 200h)
	– Actuator	≤ 50 °C
	– Solenoid valve	≤ 50 °C
	– Position indicator	≤ 50 °C
Heating and cooling rate		≤ 80 °C h^{-1}
Material	– Valve body	1.4435, AISI 316 L
	– Flange	1.4435, AISI 316 L
	– Gate	Titanium
	– Bellows	1.4404/1.4435, AISI 316 L
Seal	– Bonnet	metal, silver plated
	– Gate	FKM
	– Actuator	NBR, PTFE/NBR
Mounting position		Any, marked seat side against the air inrush direction
Radiation resistance	– Body/Gate	10^5 Gy (10^7 rad)
	– Actuator	10^4 Gy (10^6 rad)
	– Position indicator	10^5 Gy (10^7 rad)
	– Solenoid	10^4 Gy (10^6 rad)

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Volume of pneumatic actuator		3 l / 0.11 ft^3
Compressed air min. – max. overpressure		5 - 8 bar / 73 - 116 psig
Compressed air connections		R ⅛" (USA: ⅛" NPT)
Actuation time	– Closing	≤ 23 ms
	– Opening	≤ 7 s
Weight		36 kg / 80 lbs
Behavior in case of compressed air pressure drop	– Valve closed	Valve remains in closed position
	– Valve open	Valve remains in open position
Behavior in case of power failure	– Valve closed	Valve remains in closed position *
	– Valve open	Valve remains in open position *

* depends on fast valve controller settings

Related documents

Dimensional drawing No. 416369

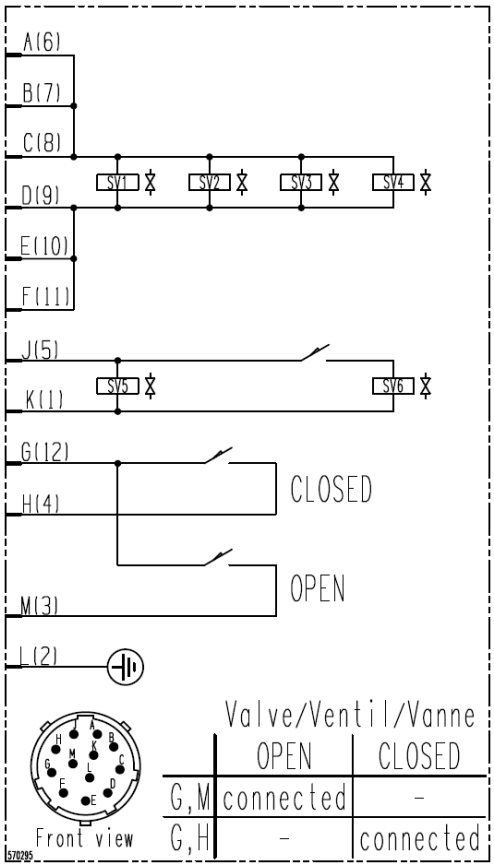
Electrical connections

Position indicator

Type	micro switch
Voltage	≤ 50 V AC / DC
Current max.	≤ 1.2 A

Solenoid

Voltage	≤ 24 V DC
Power consumption max.	≤ 30 W



Wiring diagram