



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

Large pendulum valve, Series 168, DN 400 (ID 16")
Ordering No. 16852-PA28

Description

Flange	ISO-F 400
Actuator	3-position pneumatic, double acting – with position indicator
Feedthrough	Rotary 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		$1 \cdot 10^{-8}$ mbar to 1.2 bar (abs)
Differential pressure on the gate		≤ 1.2 bar
Differential pressure at opening		≤ 30 mbar
Conductance (molecular flow)		50 000 ls ⁻¹
Minimum conductance (molecular flow) 3 rd position		150 ls ⁻¹
Cycles until first service		100 000
Temperature (Maximum values: depending on operating conditions and sealing materials)	– Valve body – Actuator – Position indicator	≤ 120 °C ≤ 80 °C ≤ 80 °C
Heating and cooling rate		≤ 30 °C h ⁻¹
Material	– Valve body – Mechanics – Gate – Feedthrough	EN AC-42100 (3.2371), EN AW-6082 (3.2315) EN AC-42100 (3.2371) EN AW-6082 (3.2315) EN AW-6082 (3.2315), AISI 303 (1.4305)
Seal	– Bonnet – Gate – Actuator – Feedthrough	FKM (Viton®) FKM (Viton®) FKM (Viton®), NBR FKM (Viton®)
Mounting position		any
Volume of pneumatic actuator		2 l / 0.07 ft ³
Compressed air min. – max. overpressure		5 – 7 bar / 73 – 102 psi
Compressed air connection		1/8" ISO / NPT

Created by: MAEM	Release date: 2013-01-31	1 of 2
Modified by:	Release date:	249126EB



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

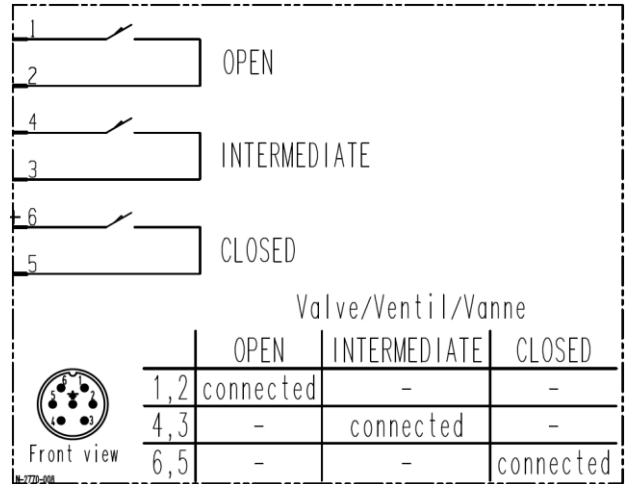
Product data sheet

Large pendulum valve, Series 168, DN 400 (ID 16")
Ordering No. 16852-PA28

Actuation time	– closing	12 s
	– opening	12 s
Weight		85 kg / 187 lbs
Behavior in case of compressed air pressure drop	– Valve closed	valve remains closed
	– Valve open	undefined
	– During actuation	undefined
Behavior in case of power failure	– Valve closed	depending on customer installation
	– Valve open	depending on customer installation
	– During actuation	depending on customer installation

Position indicator

Type	Micro switch
Voltage	≤ 50 V AC / DC
Current max.	≤ 3 A



Wiring diagram

Created by: MAEM	Release date: 2013-01-31	2 of 2
Modified by:	Release date:	249126EB