



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet No. 276862EA

Vacuum Inline Valve, Series 245, DN 80 (ID 3'')

Ordering No. 24538-QA41

Description

Flanges	ISO-K80
Actuator	- pneumatic, single acting with closing spring - with solenoid - with position indicator "open" and "closed"
Feedthrough	shaft feedthrough

Technical data

Leak rate	- body & valve seat	$< 1 \cdot 10^{-9}$ mbar ls ⁻¹
Molecular flow conductance		200 ls ⁻¹
Pressure range		$1 \cdot 10^{-7}$ mbar to 4 bar, abs
Differential pressure on the plate:		
- in opening direction		$\leq 1,2$ bar
- in closing direction		≤ 4 bar
Differential pressure at opening:		
- in opening direction		≤ 1 bar
- in closing direction		≤ 1 bar
		≤ 3 bar with reduced cycle lifetime (min. 450 000) (compressed air pressure > 5 bar required to open)
Closing time		$\leq 0,7$ sec.
Admissible temperature:		
- valve body, actuator		0°C - 120°C
- solenoid		0°C - 80°C
- position indicator		0°C - 80°C (option 120°C)
Cycles until first service		3 million (T_{max} 80°C, differential pressure max. 1 bar)
Material:		24538-QA41
- valve body		Aluminum (G-AlSi)
- pneumatic actuator		Aluminum
- valve plate		AISI 316L
- feedthrough		Aluminum
- bonnet & plate seal		Viton
- actuator o-rings		Viton
Weight		3,72 kg / 8,2 lbs
Mounting position		any
Volume of air cylinder		0,112 l / 0,0040 ft ³
Compressed air pressure for pneumatic		4 - 8 bar / 60 - 115 psi
Compressed air connection		R1/8" female (option others)
Position indicator: contact rating		
- Voltage		$\leq 50V$ AC / DC
- Current		$\leq 0.1A$
- Power		$\leq 1 W$
Solenoid		24V / DC (option others)

Created by: S. Vetter	Release date: 2008-09-04	Page 1 of 2
Modified by::	Release date:	276862EA



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