



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

PRODUCT DATA SHEET No. 266380EA

High Vacuum Gate Valve, Series 14, DN 80

Ordering No. 14038-PE24

Description

Flange	ISO-F flanges
Actuator	pneumatic, double acting with position indicator, without solenoid
Feedthrough	Rotary feedthrough

Technical data

Leak rate	
- To the outside	$< 1 \cdot 10^{-9}$ mbar ls ⁻¹
- Seat	$< 1 \cdot 10^{-7}$ mbar ls ⁻¹
Molecular flow conductance	800 ls ⁻¹
Pressure range	$1 \cdot 10^{-8}$ mbar to 2 bar (abs)
Differential pressure on the gate	
- in closing direction	2 bar
- in opening direction	2 bar
Max. differential pressure at opening	
- in closing direction	30 mbar
- in opening direction	30 mbar
Cycles until first service	200'000
Bake-out temperature	
- Valve	150°C
- Actuator	50°C
- Solenoid	50°C
- Position indicator	80°C
Heating and cooling rate	$< 50^\circ\text{C h}^{-1}$
Material	
- Body	1.4301, AISI 304
- Gate	1.4301, AISI 304
- Mechanism (in contact with media)	1.4301, AISI 304 1.4310, AISI 301 1.4034, AISI 420
Seal	
- Bonnet	Viton
- Gate	Viton
- Actuator	Nitrile
Mounting position	any
Pneumatic actuator	
- Supply voltage for solenoid	defined by order

Editor: FRP	Date: 19.03.2009	Page 1 of 2
Replaced by	Replacement for	266380EA
Modification No.	Modification No.	



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- Power required	2 W
Position indicator	
- Contact rating	5 A / 250 V AC
Compressed air pressure min. - max.	4 - 7 bar / 55 - 95 psig (overpressure)
Volume of air cylinder	0.13 l
Compressed air connection	R 1/8" (1/8" NPT for USA)
Action at power failure	
- Valve closed	valve remains closed
- Valve open	valve closes
Action at compressed air failure	
- Valve closed	valve remains closed
- Valve open	valve position is undefined
Closing time	approx. 1.5 s
Opening time	approx. 1.5 s
Weight	10 kg

Attachments

Dimensional drawing No. 308942

Editor: FRP	Date: 19.03.2009	Page 2 of 2
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