



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

PRODUCT DATA SHEET No. 257382EA

High Vacuum Gate Valve, Series 14, DN 350

Ordering No. 14051-JE24

Description

Flange	JIS flanges
Actuator	pneumatic, double acting, with position indicator, without solenoid
Feedthrough	Rotary feedthrough

Technical data

Leak rate	
- To the outside	$< 1 \cdot 10^{-9} \text{ mbar ls}^{-1}$
- Seat	$< 1 \cdot 10^{-9} \text{ mbar ls}^{-1}$
Molecular flow conductance	43'000 ls^{-1}
Pressure range	$1 \cdot 10^{-8} \text{ mbar}$ to 1,2 bar (abs)
Differential pressure on the gate	
- in closing direction	$\leq 1,2 \text{ bar}$
- in opening direction	$\leq 1,2 \text{ bar}$
Max. differential pressure at opening	
- in closing direction	$\leq 30 \text{ mbar}$
- in opening direction	$\leq 30 \text{ mbar}$
Cycles until first service	200'000
Bake-out temperature	
- Valve	$\leq 150^{\circ}\text{C}$
- Actuator	$\leq 50^{\circ}\text{C}$
- Position indicator	$\leq 80^{\circ}\text{C}$
Heating and cooling rate	$\leq 50^{\circ}\text{C h}^{-1}$
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

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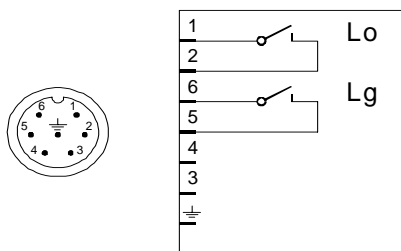
Mounting position	any
Position indicator Contact rating	5 A /250 V AC, 3 A/50 V DC
Compressed air pressure min. - max.	4 - 7 bar / 55 - 95 psig (overpressure)
Volume of air cylinder	0.75 l / 0.025ft ³
Compressed air connection	R 1/8" (1/8" NPT for USA)
Action at compressed air failure - Valve closed - Valve open	valve remains closed valve position is undefined
Closing time	approx. 4 s
Opening time	approx. 4 s
Weight	112 kg / 246 lbs

Wiring diagram

Position indicator

Lo = position indicator «open»

Lg = position indicator «closed»



Attachments

Dimensional drawing No. 256912

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