



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

PRODUCT DATA SHEET No. 253244EB
Vacuum gate valve, Series 12.1, DN 100 (ID 4")
Ordering No. 12140-PA03

Description

Flange	DN 100 ISO-F
Actuator	push rod
Feedthrough	shaft

Technical data

Leak rate	
- To the outside	$< 1 \cdot 10^{-9}$ mbar ls ⁻¹
- Seat	$< 1 \cdot 10^{-9}$ mbar ls ⁻¹
Molecular flow conductance	2'000 ls ⁻¹
Pressure range	$1 \cdot 10^{-7}$ mbar to 1.6 bar (abs)
Differential pressure on the gate	
- in closing and opening direction	1.6 bar
Max. differential pressure at opening	
- in closing and opening direction	30 mbar
Cycles until first service	100'000
Bake-out temperature	
- Body	150°C
- Actuator	80°C
Heating and cooling rate	50°C h ⁻¹
Material	
- Body	AlMg4,5Mn, A-5083
- Gate	1.4301, AISI 304
- Small parts (in contact with media)	1.4034, AISI 420; 1.4301, AISI 304; 1.4310, AISI 301
- Shaft	1.4305, AISI 303
Seal	
- Bonnet	FPM (Viton)
- Gate	FPM (Viton)
- Shaft feedthrough	FPM (Viton)
Mounting position	any
Max. torsional moment to the valve body	10'000 Nm / 7'370 lbf ft
Weight	4.8 kg / 10,5 lbs

Attachments

Dimensional drawing No. 253229

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Replaced by	Replacement for	253244EB
Modification No.	Modification No.	