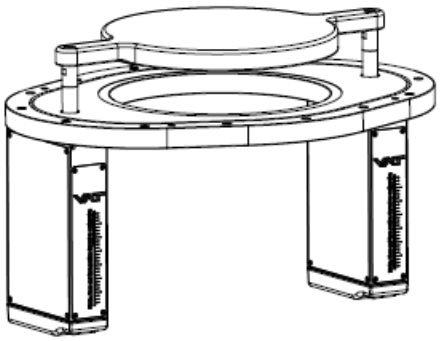
VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet
Series 670, DN 250 (I.D. 10")
Ordering No. 67048-JA52-AAT1

Description

This product is a symmetrical flow throttling and isolation valve. It is intended to use for downstream pressure control applications.

Flange	pump side	DN 250 (12"), JIS
	chamber side	customer defined
Actuator	type	stepper motor
	number of actuators	2
Controller	type	separate controller
Feedthrough	linear shafts	bellows
Seals	plate seal	Viton®
	actuator seals	Viton®
	flange seal	Viton®



Sample picture only

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Technical data

Symmetrical flow		functional principle (given)
Pressure range at 20 °C		1 x 10E-9 mbar to 1.2 bar (abs)
Leak rate to outside at 20 °C		1 x 10E-8 mbar l/s
Leak rate valve seat at 20 °C		1 x 10E-8 mbar l/s
Max. differential pressure on plate during isolation		1200 mbar (from chamber side)
		10 mbar (from pump side)
Max. differential pressure on plate during operation		30 mbar
Cycles until first service (under vacuum) - Isolation cycles (open - closed - open) - Throttling cycles (open - max. throttle - open)		 200'000 (unheated and under clean conditions) 2 Mio. (unheated and under clean conditions)
Admissible operating temperature		10 °C to +120 °C
Mounting position		Horizontal (actuators downwards)
Process side materials	flange	Aluminum EN AW-6061 T651 (3.2315.72)
	plate	Aluminum EN AW-6061 T651 (3.2315.72)
	actuator shafts	Stainless steel 316L (1.4435 or 1.4404)
	bellows	Stainless steel 633 (AM350)
	bolts	stainless steel A2 (304)
Seals	plate seal	Viton®
	actuator seals	Viton®
	flange seal	Viton®
Max. controllable conductance (N_2 molecular flow)		
Min. controllable conductance (N_2 molecular flow)		0.3 l/s
Actuating time	full open to closed (throttling)	typ. 1.0 s per 100 mm
	closed (throttling) to full open	typ. 1.0 s per 100 mm
	full open to closed (isolated)	typ. 1.0 s
	closed (isolated) to full open	typ. 1.0 s
Stroke	mechanical maximum	130 mm

General data

Weight	approx.	31 kg
Dimensional drawings		735954