

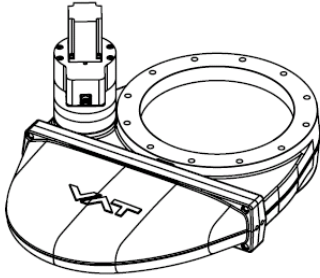


VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## PRODUCT DATA SHEET No. 287091EA

**Control Pendulum Valve**  
**Series 95.8, DN 500 (ID 20")**  
**Ordering No. 95854-PA52-0001**

### Description



Flange	DN500 ISO-F flanges
Actuator	4-pole stepper motor, 2 phases, ¼ step control
Feedthrough	rotary feedthrough

### Technical data

Leak rate	
- To the outside	$< 1 \cdot 10^{-9} \text{ mbar ls}^{-1} ( 1 \cdot 10^{-10} \text{ Pa m}^3 / \text{s} )$
- Seat	$< 1 \cdot 10^{-9} \text{ mbar ls}^{-1} ( 1 \cdot 10^{-10} \text{ Pa m}^3 / \text{s} )$
Molecular flow conductance	$90'000 \text{ ls}^{-1} ( 90 \text{ m}^3 / \text{s} )$
Minimum controllable conductance	$250 \text{ ls}^{-1}$
Pressure range	$1 \cdot 10^{-7} \text{ mbar to } 1.2 \text{ bar } ( 1 \cdot 10^{-5} \text{ Pa to } 1.2 \cdot 10^5 \text{ Pa} ) \text{ [abs]}$
Differential pressure on the gate	
- in closing and opening direction	$\leq 1.2 \text{ bar } ( 1.2 \cdot 10^5 \text{ Pa} )$
Max. differential pressure at opening	
- in closing and opening direction	$\leq 30 \text{ mbar } ( 3000 \text{ Pa} )$
Preventive maintenance	
- open / close / open	100'000 cycles
Bake-out temperature	
- Body	$< 120^\circ\text{C} \text{ (static)}$ $< 80^\circ\text{C} \text{ (dynamic)}$
- Actuator	$< 50^\circ\text{C}$
Heating and cooling rate	$< 30^\circ\text{C h}^{-1}$
Material	
- Body	G-AlSi7Mg,
- Gate	AlMgSi1
- Mechanism (in contact with media)	1.4034, AISI 420; 1.4301, AISI 304; 1.4310, AISI 301.4305, AISI 303

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### Technical data (continue)

#### Seal

- Bonnet	FPM (Viton)
- Gate	FPM (Viton)
- rotary feedthrough	FPM (Viton)

#### Mounting position

any

#### Action at power on

Valve position  
closed  
open  
intermediate

horizontal mounting  
no change  
no change  
no change

vertical mounting  
no change  
undefined  
undefined

#### Action at power failure

Valve position  
closed  
open  
intermediate

horizontal mounting  
no change  
no change  
no change

vertical mounting  
no change  
undefined  
undefined

#### Closing time

< 16 s

#### Opening time

< 16 s

#### Weight (circa)

111 kg / 245 lbs

### Attachments

Dimensional drawing No.

265717

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