



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

Door L-VAT

Series 075, DN 50x336 (1.97"x13.2")

Description

Actuator pneumatic, double acting, with position indicator,
pneumatic lock in closed position

Technical data

Leak rate (with $\Delta p = 1 \text{ bar}$ on gate in closing direction)

- gate blank or nickel plated plate FKM seal	$< 1 \cdot 10^{-9} \text{ mbar ls}^{-1}$
- gate with FFKM seal (inkl. Zalak5100)	$< 1 \cdot 10^{-7} \text{ mbar ls}^{-1}$
- gate with VMQ (FVMQ) seal	$< 1 \cdot 10^{-6} \text{ mbar ls}^{-1}$
- gate with hard anodized plate (FKM and FFKM seal)	$< 1 \cdot 10^{-5} \text{ mbar ls}^{-1}$

Pressure range

- on vacuum side	$1 \cdot 10^{-9} \text{ mbar}$ to 1.0 bar (abs)
- on atmosphere side	atmospheric pressure

Differential pressure on the gate (with FKM Viton vulcanized)

Opening size	In closing direction	In opening direction
51x210	$\leq 1 \text{ bar}$	$\leq 0.1 \text{ bar}$
51x420	$\leq 1 \text{ bar}$	$\leq 0.1 \text{ bar}$
46x236	$\leq 1 \text{ bar}$	$\leq 0.1 \text{ bar}$
50x336	$\leq 1 \text{ bar}$	$\leq 0.1 \text{ bar}$
51x420	$\leq 1 \text{ bar}$	$\leq 0.1 \text{ bar}$
56x496	$\leq 1 \text{ bar}$	$\leq 0.1 \text{ bar}$
Customer specific	$\leq 1 \text{ bar}$	On request

Cycles until first service $\geq 3 \text{ million}$

Operating temperatures

- actuator	$< 80^\circ\text{C}$
- gate	$< 50^\circ\text{C}$

Material

- aluminum gate	EN AW-6082, EN AW-6061 or EN AW-5083
- stainless steel gate	AISI 316L (1.4435, 1.4404)
- gate seal	FKM (VITON®) *)
- actuator seals	NBR / FKM (VITON®)

Mounting position

Actuator downwards or upwards

Position indicator

- contact rating reed switches	24VDC, max. 250mA *)
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Compressed air pressure min. - max.

4 - 7 bar / 55 - 95 psig

Air consumption per cycle

0.25 l / 0.007 ft³

Compressed air connection

push lock fittings for tubing O.D. 4 mm *)

VAT pneumatic connection recommendation

tube length $\geq 1 \text{ m}$, O.D. 4 mm tube

CDA flow rate

min. 600SLPM

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Action at power failure

depends on solenoid valve specified by customer

Action at compressed air failure

(fast pressure decrease of compressed air supply)

- door closed
- door open

remains closed for > 3 h (pneumatic lock)
undefined

Closing time 58.5mm stroke

<1 s *)

Opening time 58.5mm stroke

<1 s *)

Closing time 95mm stroke

<2 s *)

Opening time 95mm stroke

<2 s *)

Weight

Opening size	Aluminium gate	Stainless steel gate
46x236	5.0 kg	5.7 kg
50x336	5.2 kg	6.2 kg
56x496	6.4 kg	10.0 kg

Weights for other opening sizes on request. Note: These weights belong to standard 075 actuator.

*) Standard specification. Specifications for optional features are provided on the dimensional drawing of the product or needs to be requested.

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