

# Product data sheet

Rectangular gate valve TwinVAT Series 061, DN 100x1000-300x3800mm Ordering No. 061..-...1

#### Description

Flange	According to dimensional drawing				
Actuator	Pneumatic, double acting, with position indicator PNP (standard)				
Feedthrough	O-ring shaft seal (standard)				
Gate	TwinVAT configuration with FKM (Viton <sup>®</sup> ) seal				
Technical data					
Leak rate - Body (static) <b>(standard)</b> - Seat / gate (dynamic) <b>(standard)</b> - Body (static) – hard anodized * <b>) (optional)</b> - Seat / gate (dynamic) – hard anodized * <b>) (optional)</b>	<pre>&lt; 1x10<sup>-7</sup> mbar   s<sup>-1</sup> [1 x 10<sup>-8</sup> Pa m<sup>3</sup> s<sup>-1</sup>] &lt; 1x10<sup>-7</sup> mbar   s<sup>-1</sup> [1 x 10<sup>-8</sup> Pa m<sup>3</sup> s<sup>-1</sup>] &lt; 1x10<sup>-5</sup> mbar   s<sup>-1</sup> [1 x 10<sup>-6</sup> Pa m<sup>3</sup> s<sup>-1</sup>] &lt; 1x10<sup>-4</sup> mbar   s<sup>-1</sup> [1 x 10<sup>-5</sup> Pa m<sup>3</sup> s<sup>-1</sup>]</pre>				
Differential pressure on the gate(s) <ul> <li>In closing direction</li> <li>In opening direction</li> </ul>	≤ 1 bar ≤ 50 mbar				
Differential pressure at opening - In closing and opening direction	≤ 5 mbar				
Cycles until first service (unheated and under clean conditions)	Actuator downward / upward: 1 million (standard)				
Actuation time (valid for standard version)	Opening height         Closing time         Opening time           101 - 150 mm         < 2.5 s         < 2.5 s           151 - 200 mm         < 3 s         < 3 s           201 - 250 mm         < 3.5 s         < 3.5 s           251 - 300 mm         < 3.5 s         < 4 s         *) (optional)				
Operating temperature - Body - Gate - Actuator - Solenoid valve Temperature specifications - Heating and cooling rate - Temperature difference between seat and gate	Aluminium <b>(standard)</b> < 120°C < 120°C < 60°C < 50°C ≤ 40°C h <sup>-1</sup> ≤ 40°C				
Material of construction - Body, gate - Shafts - Feedthrough O-ring - Actuator and top cover flange seal - Gate seal - Actuator pneumatic seals	EN AW-5083 / EN AW-6082 AISI 316 FKM (Viton <sup>®</sup> ) <b>(standard)</b> FKM (Viton <sup>®</sup> ) FKM (Viton <sup>®</sup> ) FKM (Viton <sup>®</sup> )				
Mounting position	Actuator downward (standard) / upward *) (optional)				
Service position	Shaft in extended position (standard)				

Weight	
<ul> <li>complete valve</li> </ul>	tbd kg
<ul> <li>insert (included gate)</li> </ul>	tbd kg
- body	tbd kg
- gate	tbd kg

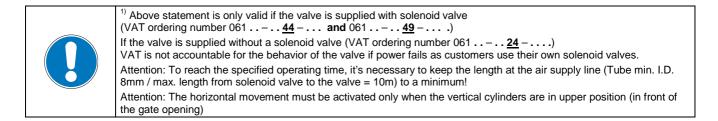
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Air volume (according to the matrix) tbd.....l at 1 bar vertical actuator - horizontal actuator tbd.....l at 1 bar Closing force tbd....N Compressed air connection Filtered (40µm), oiled or unoiled air - Air quality - Pneumatic connection According to dimensional drawing Required air pressure 5 - 6 bar / 73 - 86 psig / 0.5 - 0.6 MPa Required air flow > 700 slm per valve 061...-AA49-..: quick air connect  $\otimes$  10 mm Air connection Electrical connection see last page Behaviour in case of compressed air pressure drop Gate remains in closed position (pneumatically locked) - Valve closed Valve open Gate remains in open position (pneumatically locked) - During actuation Gate will remain on actual position Behaviour in case of power failure - Valve closed Gate remains in closed position (pneumatically locked) - Valve open Gate remains in open position (pneumatically locked) - During actuation Gate will remain on actual position



\*) (optional):

Specifications for optional features are provided on the dimensional drawing of the product.

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Signal specific	cation			Output signal / HexCode de	əfini	tion (see pin a	ssignment	in below tak	ole)
Input         Switching level         Signal 0 ≤5VDC         Signal 1 ≥15VDC         Switch-on debounce time       3ms         Switching logic       positive logic (PNP)         Input current per channel       typical 9 mA		Signal description			Pin 14 (Bit 1)	Pin 15 (Bit 2)	Pin 16 (Bit 3)		
		Undefined situation			0	0	0		
			Valve OPEN Valve CLOSE Service position 1 (description see manual)			1	0	0	
		P)				0	1	0	
						1	1	0	
<ul><li>Output</li><li>Current per</li></ul>	er channel	max. 100 mA		Service position 2 (description see manual)			0	0	1
<ul> <li>Reverse v</li> </ul>	oltage protection	yes for PNP type		Service position 3 (description see manual)			1	0	1
<ul> <li>Short circu</li> <li>Switching</li> </ul>	uit protection	yes for PNP type positive logic (PN	P)	ERROR 1 – two signals			0	1	1
<ul> <li>Maximum</li> </ul>	-	500 mA	.,	ERROR 2 – time delay		1	1	1	
						Supply 24V (+	⊦/-10%) / 0	.5A	
GND	×	12 1 2 3 4 5 6 7 14 14	Inpu Inpu Inpu Inpu Inpu Outp Outp	Controller age Input t - Valve OPEN t - Valve CLOSED t - Service 1 t - Service 2 t - Service 3 t - Reset Safety Mode/Error t - Reserve ut - Hexcode Bit 1 ut - Hexcode Bit 2 ut - Hexcode Bit 3 PNP Logic	F F		0%) Supply of the controller can be ply of the Input I/O		
D-Sub 25pol	le male UNC4-40	11.° 15 16 17 18 19 28 21 22 23 28 28 202394 Front view	پ 						

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