

Discontinue

Toggle valve for chemical liquid



TMDZ02/TMD002/TMD302 Series

Manual opening/closing with a single touch

● Orifice size: ø2, ø4, ø10, ø12



To be discontinued as of December 28, 2018

Export controlled items

* Target: MMD302 (connection Rc1/2 only)

Specifications

Descriptions	TMDZ02-*-2	TMD002-*-4	TMD302-*-*	
Working fluid	Chemical liquid, pure water, N2 gas, air (*5)			
Fluid temperature °C	5 to 60 (*4)			
Proof pressure MPa	1.4			
Working pressure (A→B) MPa	0 to 0.5			
Working pressure (B→A) MPa	0 to 0.3 (TMDZ/TMD0), 0 to 0.15 (TMD3)			
Valve seat leakage cm ³ /min	0 (water pressure)			
Back pressure MPa	0 to 0.3		0 to 0.15	
Ambient temperature °C	0 to 40			
Mounting orientation	Unrestricted			
Connection	Rc1/8 O.D. ø3 tube connection O.D. 1/8" tube connection	Rc1/8 O.D. ø6 tube connection O.D. 1/4" tube connection	Rc1/2 O.D. ø12 tube connection O.D. 1/2" tube connection	
Orifice size	ø2	ø4	ø10	ø12
Cv	0.08 (*1)	0.32	1.8	2.5

*1: The PFA body with Rc1/8 connection will have Cv = 0.12.

*2: Contact CKD for other bore sizes.

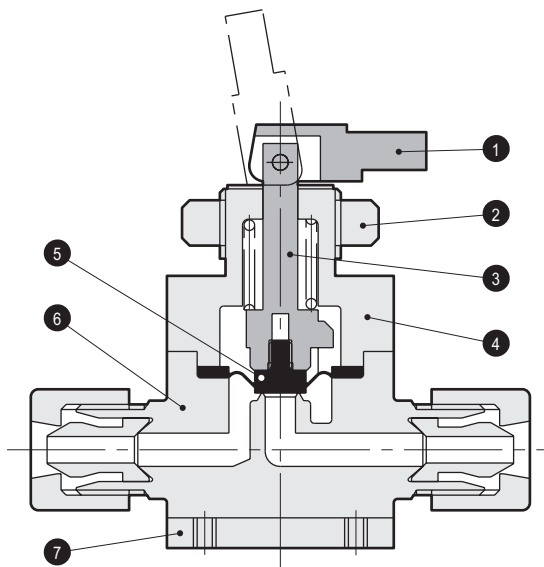
*3: Contact CKD regarding the operation of other knobs (180° movable, automatic return).

*4: 5 to 40°C for hydrofluoric acid.

*5: TMDZ02 and TMD002 cannot be used for oxidizing fluids.

Check the compatibility of product structural materials, working fluids and atmosphere. (Refer to the compatibility check list on Intro Page 15.)

Internal structure and parts list



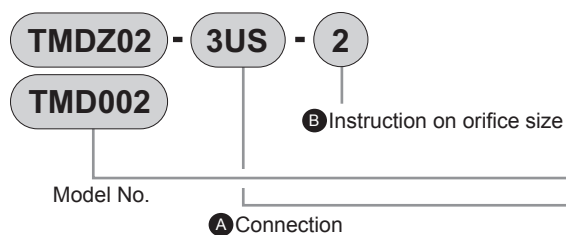
No.	Part name	Material (by model No.)		
		TMDZ02	TMD002	TMD302
1	Knob	CPVC		
2	Lock nut	CPVC		
3	Rod	CPVC		
4	Cover	CPVC		
5	Diaphragm	PTFE		
6	Body	PFA		
7	Mounting plate	SUS304	CPVC	

The material and structure may vary depending on the model number. Contact CKD for details.

Always read the precautions on Intro Pages 7 to 16 before use.

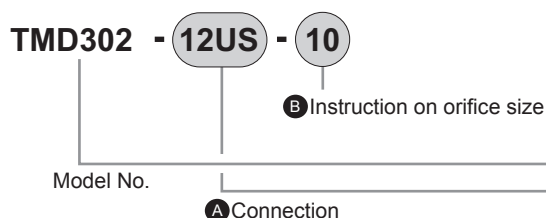
How to order

● TMDZ/TMD0 Series



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● TMD3 Series

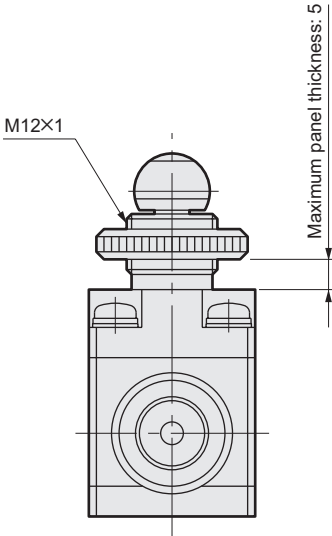
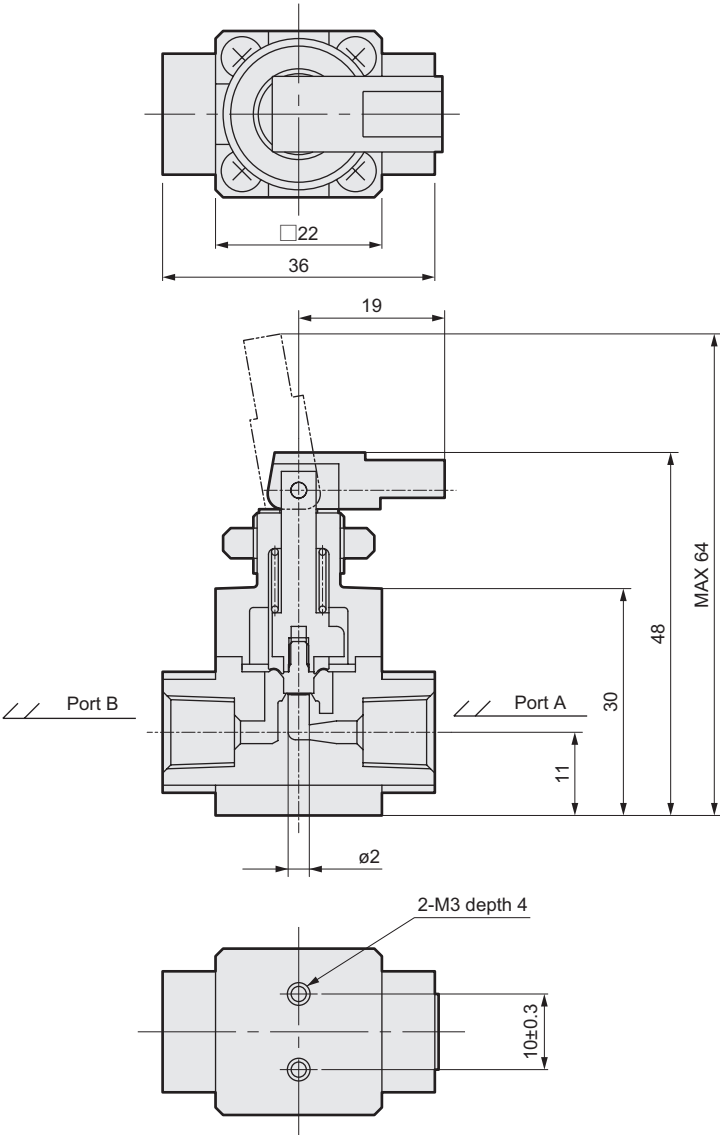


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TMDZ02 Series

Dimensions

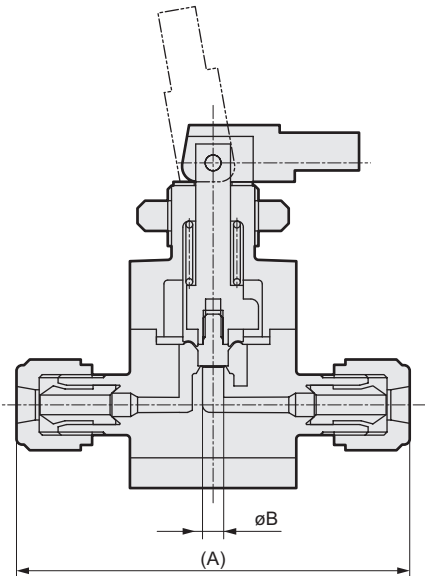
- Rc thread
- TMDZ02-6-2



- Integrated fitting
- TMDZ02-

*1

-2

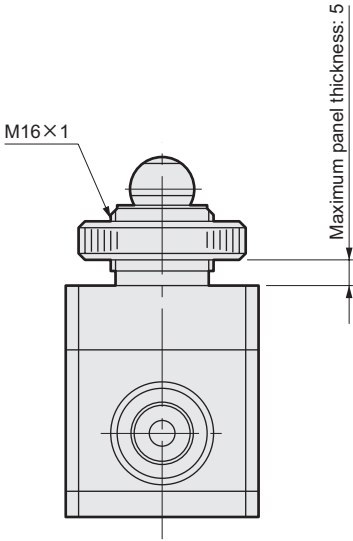
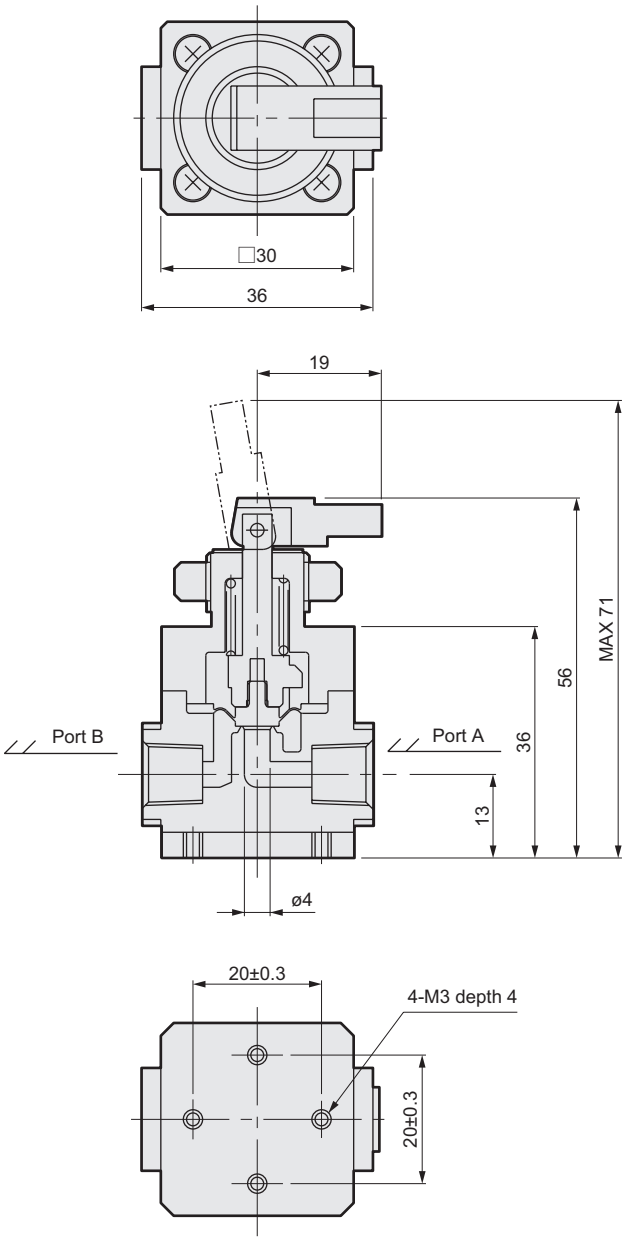


Dimensions		
*1 (Connection model No.)	A	B
3US	50	2
6BUS	50	2
3UF	40	2
3UR	57	1.6
6BUR	57	1.6

Dimensions

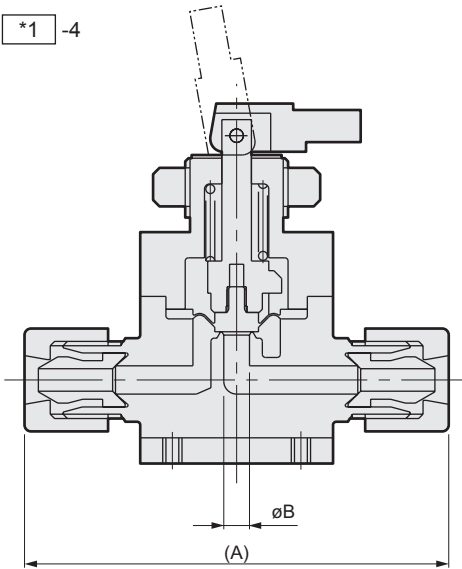
● Rc thread

·TMD002-6-4



● Integrated fitting

·TMD002- *1 -4



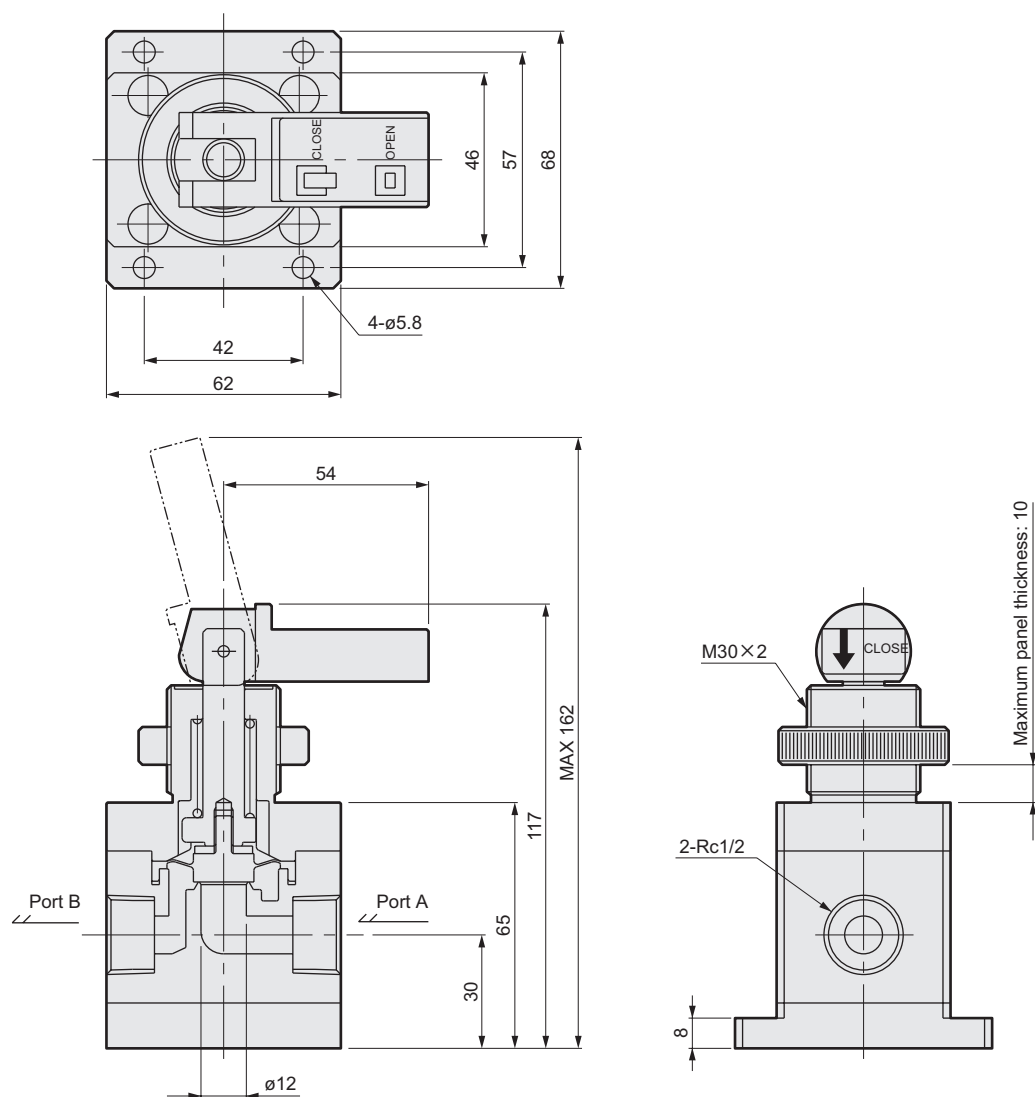
Dimensions	A	B
*1 (Connection model No.)		
6US	66	4
8BUS	66	4
6UP	68	4
8BUP	68	4

Dimensions	A	B
*1 (Connection model No.)		
6UF	64	4
8BUF	64	4
6UR	90	3.5
8BUR	92	3.5
6UK	71	4
8BUK	71	4
8BUW	86	3

Dimensions

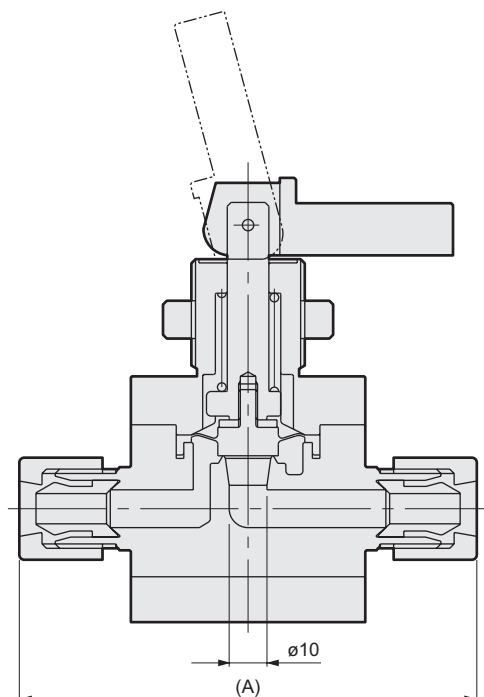
● Rc thread

·TMD302-15-12



● Integrated fitting

·TMD302-*1-10



Dimensions	
*1 (Connection model No.)	A
12US	121
15BUS	121
12UF	112
15BUF	112
12UA	112
15BUA	112