

Manual valve for chemical liquids

MMD303RN Series



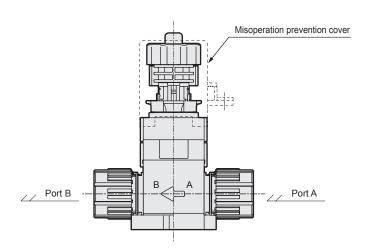


Specifications

Descriptions		MMD303RN			
Working fluid	Ì	Chemical liquids, pure	Chemical liquids, pure water, air, N ₂ gas (*1)		
Fluid temperature	°C	5 to	120		
Proof pressure	MPa	1.	.0		
Working pressure (A→B)	MPa	0 to 0.5 Refer to figure bel	ow for "Working pressure"		
Working pressure (B→A)	MPa	0 to 0.5 Refer to figure below for "Working pressure"			
Valve seat leakage	cm³/min	0 (water pressure)			
Back pressure	MPa	0 to 0.5			
Ambient temperature	°C	0 to 60			
Mounting orientation		Unrestricted			
Connection		O.D. ø10/ø12 tube connection (integrated fitting)			
O.D. 3/8" / 1/2" tube connection (integrated		nection (integrated fitting)			
Orifice size		ø8 ø10			
Cv		1.25			

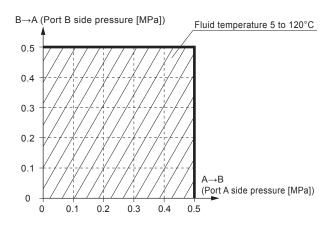
^{*1:} Check the compatibility of product structural materials, working fluids and atmosphere. (Refer to the compatibility check list on page 20.)
*2: For hydrofluoric acid or chemical liquids containing hydrofluoric acid, use within the range of 5 to 80°C.

Structure and parts list



Part name	Material		
Actuator	PVDF, PP, etc.		
Diaphragm	PTFE		
Body	PFA		
Mounting plate	PVDF		
Misoperation prevention cover	PP		

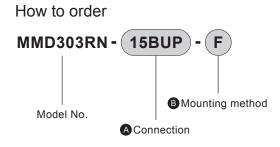
Working pressure



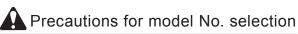
^{*3:} Refer to page 12 for flow characteristics.

MMD303RN Series

How to order



			A Co	nnectic	n		
			10UP	10BUP	12UP	15BUP	
				Super 300 Pillar fitting P Series integrated			
			ø10 x ø8 tube connection	3/8" x 1/4" tube connection	ø12 x ø10 tube connection	1/2" x 3/8" tube connection	
Code	Content	Orifice size	Ø	i8	Ø	10	
Mour	nting method (Note)						
F	Flange mounting						
Н	4-point flange mounting						
Х	Bottom mounting						



Note: Refer to the dimensions for the mounting method.

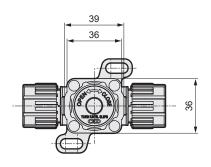
Misoperation prevention cover

MMD303RN-C

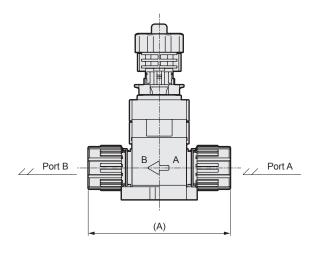
MMD303RN Series

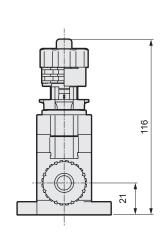
Dimensions

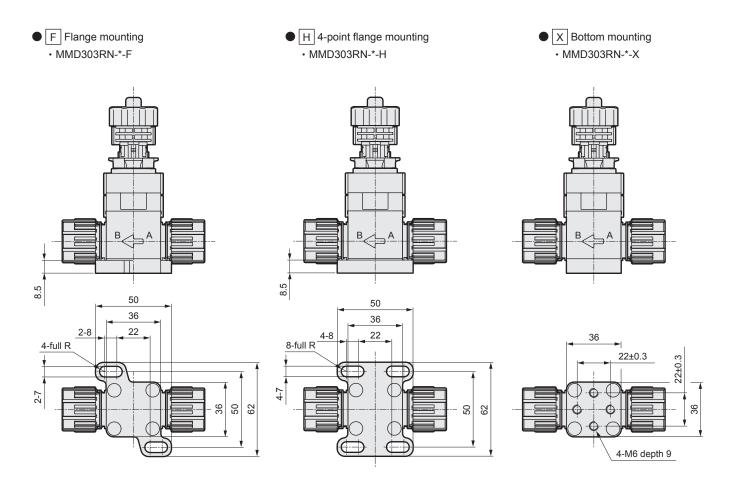




*1 Connection	Α
10UP	86
10BUP	00
12UP	94
15BUP	94

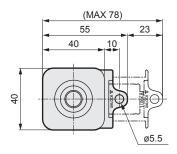


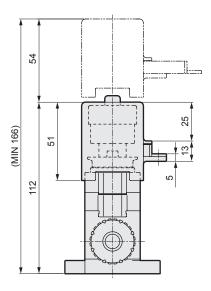




Dimensions

- Misoperation prevention cover
 - · MMD303RN-C





^{*}Mounting the misoperation prevention cover Mountable in any direction (4 ways).



Manual valve for chemical liquids

MMD403RN Series





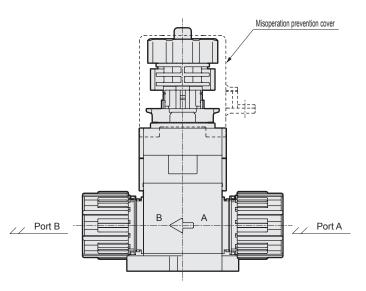
Export controlled items

Specifications

Descriptions		MMD403RN
Working fluid		Chemical liquids, pure water, air, N ₂ gas (*1)
Fluid temperature	°C	5 to 120 (*2)
Proof pressure	MPa	1.0
Working pressure (A→B)	MPa	0 to 0.5 Refer to figure below for "Working pressure"
Working pressure (B→A)	MPa	0 to 0.5 Refer to figure below for "Working pressure"
Valve seat leakage	cm³/min	0 (water pressure)
Back pressure	MPa	0 to 0.5
Ambient temperature	°C	0 to 60
Mounting orientation		Unrestricted
Connection		O.D. 3/4" tube connection (integrated fitting)
Orifice size		ø16
Cv		5

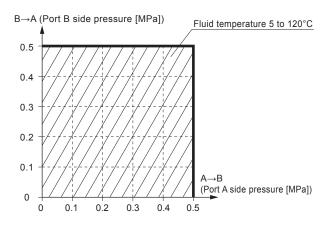
^{*1:} Check the compatibility of product structural materials, working fluids and atmosphere. (Refer to the compatibility check list on page 20.)

Structure and parts list



Part name	Material		
Actuator	PVDF, PP, etc.		
Diaphragm	PTFE		
Body	PFA		
Mounting plate	PVDF		
Misoperation prevention cover	PP		

Working pressure

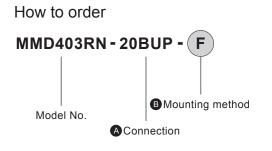


^{*2:} For hydrofluoric acid or chemical liquids containing hydrofluoric acid, use within the range of 5 to 80°C.

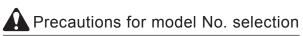
^{*3:} Refer to page 12 for flow characteristics.

MMD403RN Series

How to order



		A Connection
		20BUP
		Super 300
		Pillar fitting
		P Series integrated
		3/4"
		x
		5/8"
		tube connection
		tube connection
Code	Content Orifice s	size ø16
Mour	nting method (Note)	
F	Flange mounting	• •
Н	4-point flange mounting	• •
Х	Bottom mounting	• •
	l-	



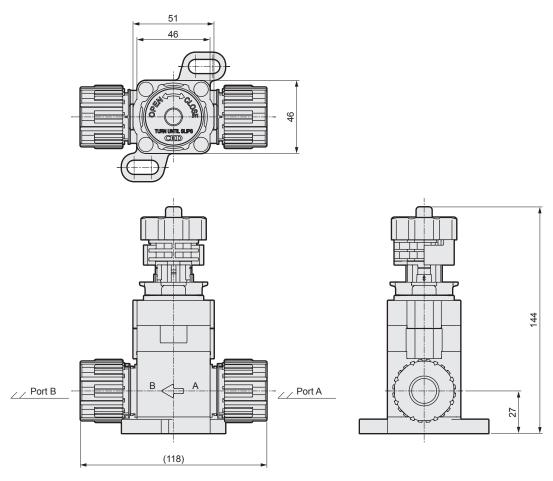
Note: Refer to the dimensions for the mounting method.

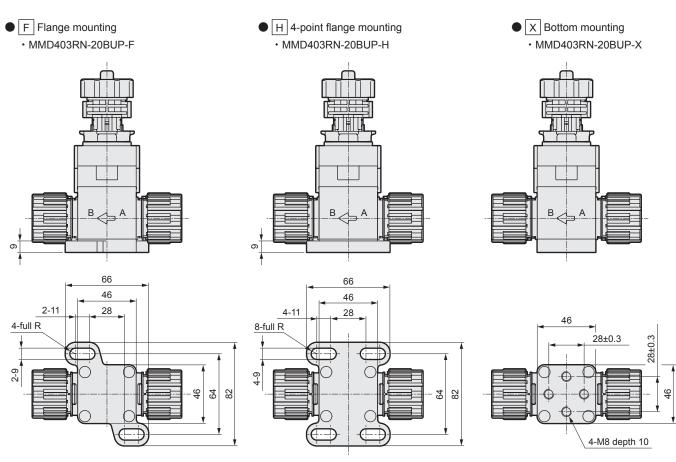
Misoperation prevention cover MMD403RN-C

MMD403RN Series

Dimensions

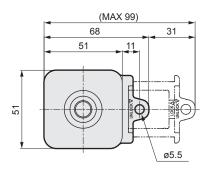
• MMD403RN-20BUP-*

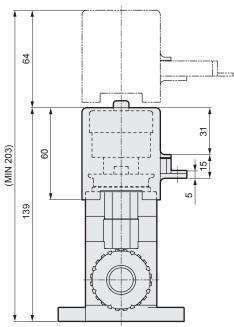




Dimensions

- Misoperation prevention cover
 - · MMD403RN-C





*Mounting the misoperation prevention cover Mountable in any direction (4 ways).



Manual valve for chemical liquids

MMD503RN Series





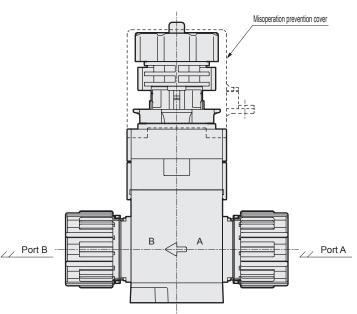
Export controlled items

Specifications

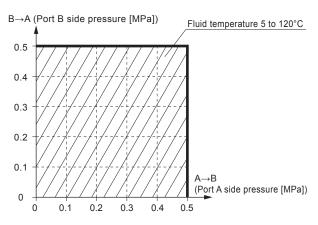
Descriptions		MMD503RN
Working fluid		Chemical liquids, pure water, air, N₂ gas (*1)
Fluid temperature	°C	5 to 120
Proof pressure	MPa	1.0
Working pressure (A→B)	MPa	0 to 0.5 Refer to figure below for "Working pressure"
Working pressure (B→A)	MPa	0 to 0.5 Refer to figure below for "Working pressure"
Valve seat leakage	cm³/min	0 (water pressure)
Back pressure	MPa	0 to 0.5
Ambient temperature	°C	0 to 60
Mounting orientation		Unrestricted
Connection		O.D. ø25 tube connection (integrated fitting)
Connection		O.D. 1" tube connection (integrated fitting)
Orifice size		ø20
Cv		8

^{*1:} Check the compatibility of product structural materials, working fluids and atmosphere. (Refer to the compatibility check list on page 20.)
*2: For hydrofluoric acid or chemical liquids containing hydrofluoric acid, use within the range of 5 to 80°C.

Structure and parts list



Working pressure

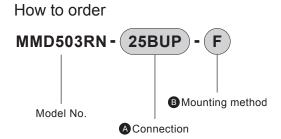


Part name	Material
Actuator	PVDF, PP, etc.
Diaphragm	PTFE
Body	PFA
Mounting plate	PVDF
Misoperation prevention cover	PP

^{*3:} Refer to page 12 for flow characteristics.

MMD503RN Series

How to order



			A Connection		
			25UP	25BUP	
			Super 300 Pillar fitting P Series integrated		
			ø25	1"	
			х	х	
			ø22	7/8"	
			tube connection	tube connection	
Code	Content	Orifice size	ø2	20	
Mour	nting method (Note)				
F	Flange mounting		•	•	
Н	4-point flange mounting		•	•	
Х	Bottom mounting		•	•	
	·				



Precautions for model No. selection

Note: Refer to the dimensions for the mounting method.

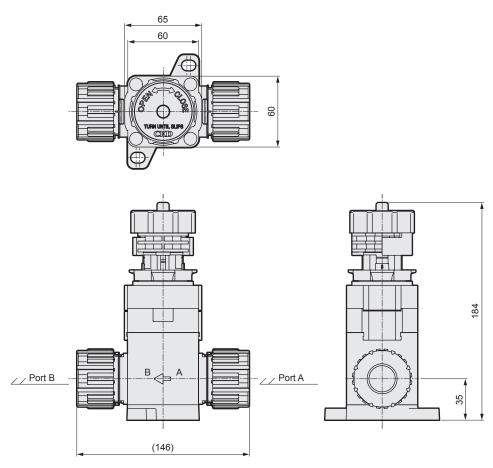
Misoperation prevention cover

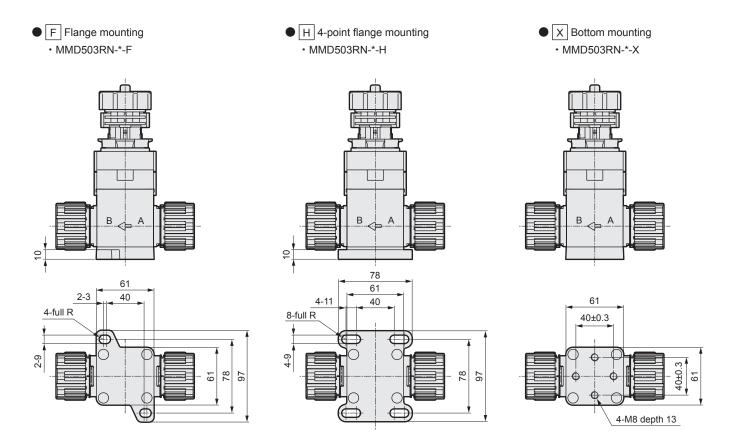
MMD503RN-C

MMD503RN Series

Dimensions

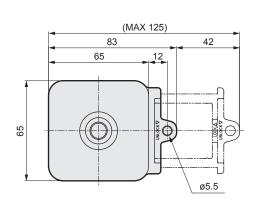
• MMD503RN-*-*

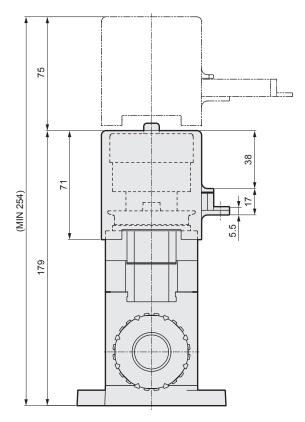




Dimensions

- Misoperation prevention cover
 - · MMD503RN-C





*Mounting the misoperation prevention cover Mountable in any direction (4 ways).

MMD303RN to MMD503RN Flow characteristics

● Flow characteristics (water)
Differential pressure - flow rate (): Cv value

