



Chemical liquid manual valve (manifold/branch valve)

# GMMD<sup>3</sup><sub>4</sub><sup>5</sup>02 Series

- Orifice: GMMD302: Ø6 to Ø10  
GMMD402: Ø14.7 to Ø16  
GMMD502: Ø20
- No. of stations: 1 to 5 stations

Subject to Export Trade Control Ordinances

\*Target: GMMD402 and 502 only

## Specifications

Descriptions	GMMD302	GMMD402	GMMD502
Working fluid	Chemical liquids, pure water (Note 1)		
Fluid temperature °C	5 to 90 (Note 3)		
Withstanding pressure MPa	1.2		
Working pressure range MPa	0 to 0.4		
Valve seat leakage cm <sup>3</sup> /min	0 (at, water pressure)		
Back pressure MPa	0 to 0.4		
Ambient temperature °C	0 to 60		
Installation attitude	Free		
Connection	ODØ10 tube connection (fitting integrated type) ODØ12 tube connection (fitting integrated type) OD3/8" tube connection (fitting integrated type) OD1/2" tube connection (fitting integrated type)	OD3/4" tube connection (fitting integrated type)	ODØ25 tube connection (fitting integrated type) OD1" tube connection (fitting integrated type)
Orifice	Ø6 to Ø10 (Note 2)	Ø14.7 to Ø16 (Note 2)	Ø20

Note 1: Check the compatibility of the product's configuration materials, working fluid, and ambient atmosphere before use.

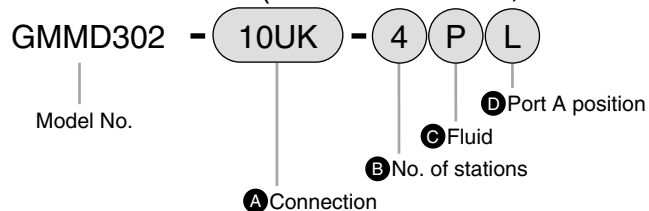
Note 2: Confirm the orifice for each connection in the Model indication section.

Note 3: 5 to 40 °C for hydrofluoric acids.

# GMMD302Series

## How to order

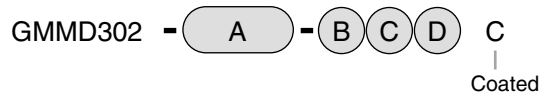
### ● GMMD3 Series (Connection: Ø10, 3/8" tube)



		A Connection												
		10US	10BUS	10UJ	10BUJ	10UP	10BUP	10UA	10BUA	10UR	10BUR	10UK	10BUK	10BUW
		Super type Pillar fitting integrated type		Super 300 type Pillar fitting J series integrated type		Super 300 type Pillar fitting P series integrated type		F-LOCK 20A series fitting integrated type		F-LOCK 60 series fitting integrated type		Final lock fitting integrated type		FLARTEC fitting integrated type
		Ø10 X 0.08 tube connection 3/8" X 1/4" tube connection		Ø10 X 0.08 tube connection 3/8" X 1/4" tube connection		Ø10 X 0.08 tube connection 3/8" X 1/4" tube connection		Ø10 X 0.08 tube connection 3/8" X 1/4" tube connection		Ø10 X 0.08 tube connection 3/8" X 1/4" tube connection		Ø10 X 0.08 tube connection 3/8" X 1/4" tube connection		3/8" X 1/4" tube connection
Symbol	Descriptions	Orifice												
		Ø8		Ø8		Ø8		Ø8		Ø7	Ø6	Ø8		Ø6.3
B No. of stations														
1 to 5	1 station to 5 stations	●	●	●	●	●	●	●	●	●	●	●	●	●
C Fluid														
Blank	Standard	●	●	●	●	●	●	●	●	●	●	●	●	●
M	For ammonia	●	●	●	●	●	●	●	●	●	●	●	●	●
P	For nitric acid, for hydrofluoric acid	●	●	●	●	●	●	●	●	●	●	●	●	●
D Port A position														
Blank	Right	●	●	●	●	●	●	●	●	●	●	●	●	●
L	Left	●	●	●	●	●	●	●	●	●	●	●	●	●
W	Both sides	●	●	●	●	●	●	●	●	●	●	●	●	●

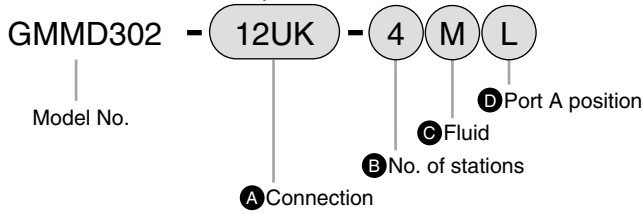
Available with PTFE machined body.

### ● Model No. for type with coated metal section



### How to order

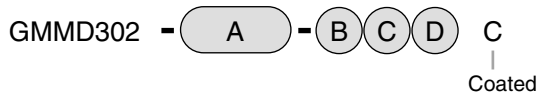
#### ● GMMD3 Series (Connection: Ø12, 1/2" tube)



		A Connection													
		12US	15BUS	12UJ	15BUJ	12UP	15BUP	12UA	15BUA	12UR	15BUR	12UK	15BUK	15BUW	
		Super type Pillar fitting integrated type		Super 300 type Pillar fitting J series integrated type		Super 300 type Pillar fitting P series integrated type		F-LOCK 20A series fitting integrated type		F-LOCK 60 series fitting integrated type		Final lock fitting integrated type		FLARTEC fitting integrated type	
		Ø12 X Ø10 tube connection	1/2" X 3/8" tube connection	Ø12 X Ø10 tube connection	1/2" X 3/8" tube connection	Ø12 X Ø10 tube connection	1/2" X 3/8" tube connection	Ø12 X Ø10 tube connection	1/2" X 3/8" tube connection	Ø12 X Ø10 tube connection	1/2" X 3/8" tube connection	Ø12 X Ø10 tube connection	1/2" X 3/8" tube connection	1/2" X 3/8" tube connection	
Symbol	Descriptions	Orifice													
		Ø10		Ø10		Ø10		Ø10		Ø9.5		Ø10		Ø9.4	
B No. of stations															
1 to 5	1 station to 5 stations	●	●	●	●	●	●	●	●	●	●	●	●	●	
C Fluid															
Blank	Standard	●	●	●	●	●	●	●	●	●	●	●	●	●	
M	For ammonia	●	●	●	●	●	●	●	●	●	●	●	●	●	
P	For nitric acid, for hydrofluoric acid	●	●	●	●	●	●	●	●	●	●	●	●	●	
D Port A position															
Blank	Right	●	●	●	●	●	●	●	●	●	●	●	●	●	
L	Left	●	●	●	●	●	●	●	●	●	●	●	●	●	
W	Both sides	●	●	●	●	●	●	●	●	●	●	●	●	●	

Available with PTFE machined body.

#### ● Model No. for type with coated metal section

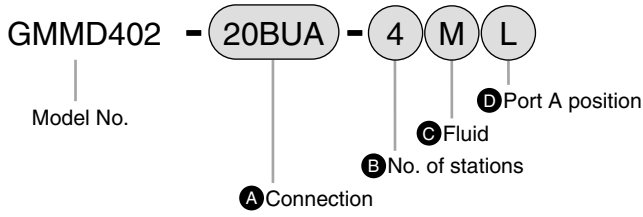


AMIDZ  
AMID0  
AMID0\*2  
AMID3\*2  
AMID4\*2  
AMID5\*2  
AMIGZ0  
AMIG00  
AMG\*02  
GAMID\*2  
High-pressure specifications  
AMID  
AMB  
Flow characteristics  
MMD\*02  
GMMD\*02  
MMD\*0  
TMD\*02  
AMS  
AMDS  
TOAS  
Fine regulator  
KML  
Others  
Solenoid valve

# GMMD402Series

## How to order

### ● GMMD4 Series

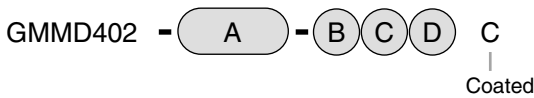


A Connection						
20BUS	20BUJ	20BUP	20BUA	20BUR	20BUK	20BUW
fitting integrated type	Super type Pillar fitting integrated type	Super 300 type Pillar fitting J series integrated type	Super 300 type Pillar fitting P series integrated type	Super 300 type Pillar fitting integrated type	F-L-OCK 20A series fitting integrated type	F-L-OCK 60 series fitting integrated type
					Final lock fitting integrated type	FLARTEC fitting integrated type

Symbol	Descriptions	Orifice						
		Ø16	Ø16	Ø16	Ø16	Ø15.9	Ø16	Ø14.7
<b>B No. of stations</b>								
1 to 5	1 station to 5 stations	●	●	●	●	●	●	●
<b>C Fluid</b>								
Blank	Standard	●	●	●	●	●	●	●
M	For ammonia	●	●	●	●	●	●	●
P	For nitric acid, for hydrofluoric acid	●	●	●	●	●	●	●
<b>D Port A position</b>								
Blank	Right	●	●	●	●	●	●	●
L	Left	●	●	●	●	●	●	●
W	Both sides	●	●	●	●	●	●	●

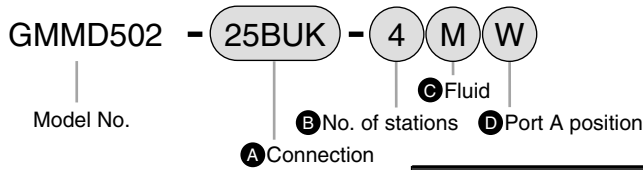
Available with PTFE machined body.

### ● Model No. for type with coated metal section



### How to order

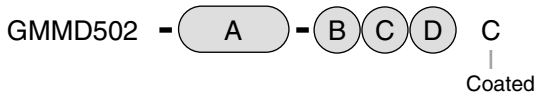
#### ● GMMD5 Series



		A Connection													
		25US	25BUS	25UJ	25BUJ	25UP	25BUP	25BUA	25UR	25BUR	25UK	25BUK	25BUW	15AU	20AU
		Super type Pillar fitting integrated type	Pillar fitting J series integrated type	Super 300 type Pillar fitting P series integrated type	FLOCK 20A series fitting integrated type	F-LOCK 60 series fitting integrated type	Final lock fitting integrated type	FLARTEC fitting integrated type	PVC union fitting integrated type						
		Ø25 X Ø22 tube connection	1" X 7/8" tube connection	Ø25 X Ø22 tube connection	1" X 7/8" tube connection	Ø25 X Ø22 tube connection	1" X 7/8" tube connection	Ø25 X Ø22 tube connection	1" X 7/8" tube connection	Ø25 X Ø22 tube connection	1" X 7/8" tube connection	Ø25 X Ø22 tube connection	1" X 7/8" tube connection	Nominal 16	Nominal 20
Symbol	Descriptions	Orifice													
B No. of stations															
1 to 4	1 station to 4 stations	●	●	●	●	●	●	●	●	●	●	●	●	●	●
C Fluid															
Blank	Standard	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M	For ammonia	●	●	●	●	●	●	●	●	●	●	●	●	●	●
P	For nitric acid, for hydrofluoric acid	●	●	●	●	●	●	●	●	●	●	●	●	●	●
D Port A position															
Blank	Right	●	●	●	●	●	●	●	●	●	●	●	●	●	●
L	Left	●	●	●	●	●	●	●	●	●	●	●	●	●	●
W	Both sides	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Available with PTFE machined body.

#### ● Model No. for type with coated metal section



#### ⚠ Note on model No. selection

Note 1: Also usable for the Ø25 x Ø22 diameter tube connection.

AM/DZ  
AM/D0  
AM/D0\*2  
AM/D3\*2  
AM/D4\*2  
AM/D5\*2  
AM/GZ0  
AM/G00  
AM/G\*02  
GAM/D\*\*2  
High pressure specifications  
AM/D  
AMB  
Flow characteristics  
MMD\*02  
GMMD\*02  
MMD\*0  
TMD\*02  
AMS  
AMDS  
TOAS  
Fine regulator  
KML  
Others  
Solenoid valve