



Air-operated valve for chemical liquids (manifold/branch valve)

GAMD^{3/4/5}*2 Series

- Orifice: GAMD3*2 Ø6 to Ø10
GAMD4*2 Ø14.7 to Ø16
GAMD5*2 Ø20

- No. of stations: 1 to 5 stations

Subject to Export Trade Control Ordinances

*Target: GAMD4*2 and 5*2 only

Specifications

Descriptions	GAMD3*2	GAMD4*2	GAMD5*2
Working fluid	Chemical liquids, pure water (Note 1)		
Fluid temperature °C	5 to 90 (5 to 160) (Note 5)		5 to 90 (Note 5)
Withstanding pressure MPa	0.9		
Working pressure range (A → B) MPa	0 to 0.3 (Note 4)		
Working pressure range (B → A) MPa	0 to 0.1 (Note 4)		
Valve seat leakage cm ³ /min	0 (at, water pressure)		
Back pressure MPa	0 to 0.1 (Note 4)		
Ambient temperature °C	0 to 60		
Frequency	30 times/min or less	20 times/min or less	
Installation attitude	Free		
Connection	ODØ10, Ø12 tube connection (fitting integrated type) OD3/8", 1/2 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 3)	Ø14.7 to Ø16 (Note 3)	Ø20
Operation section	Operation pressure range MPa	NC/NO 0.3 to 0.5, double acting 0.3 to 0.4	
	Operation pressure connection port	Rc1/8 (Note 2)	

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

Note 2: Connect a resin fitting when connecting to the operation port.

(When using a metal fitting, select one with a reinforcement ring.)

Note 3: Confirm the orifice for each connection in the Model indication section.

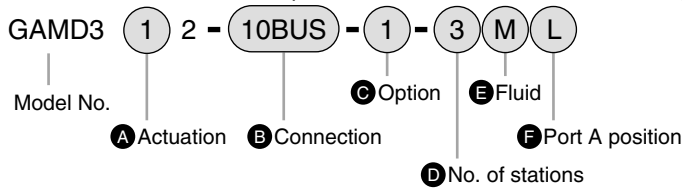
Note 4: See page 56 for high-pressure specifications.

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

GAMD3*2Series

How to order

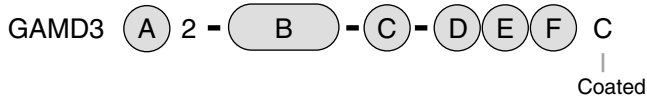
● GAMD3*2 Series (Connection: Ø10, 3/8" tube)



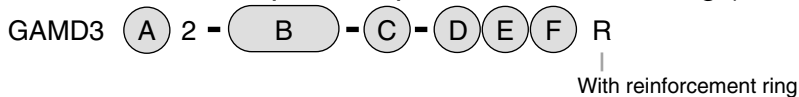
		B Connection												
		10US	10BUS	10UJ	10BUJ	10UP	10BUP	10UA	10BUA	10UR	10BUR	10UK	10BUK	10BUW
		Super type Pillar fitting integrated type	Super type Pillar fitting integrated type	Super 300 type Pillar fitting J series integrated type	Super 300 type Pillar fitting J series integrated type	Super 300 type Pillar fitting P series integrated type	Super 300 type Pillar fitting P series integrated type	F-LOCK 20A series fitting integrated type	F-LOCK 20A series fitting integrated type	F-LOCK 60 series fitting integrated type	F-LOCK 60 series fitting integrated type	Final lock fitting integrated type	Final lock fitting integrated type	FLARTEC fitting integrated type
		Ø10 X Ø8 tube connection	3/8" X 1/4" tube connection	Ø10 X Ø8 tube connection	3/8" X 1/4" tube connection	Ø10 X Ø8 tube connection	3/8" X 1/4" tube connection	Ø10 X Ø8 tube connection	3/8" X 1/4" tube connection	Ø10 X Ø8 tube connection	3/8" X 1/4" tube connection	Ø10 X Ø8 tube connection	3/8" X 1/4" tube connection	3/8" X 1/4" tube connection
Symbol	Descriptions	Orifice												
		Ø8	Ø8	Ø8	Ø8	Ø8	Ø8	Ø8	Ø8	Ø7	Ø6	Ø8	Ø8	Ø6.3
A Actuation														
1	NC (normally closed)	●	●	●	●	●	●	●	●	●	●	●	●	●
2	NO (normally open)	●	●	●	●	●	●	●	●	●	●	●	●	●
3	Double acting	●	●	●	●	●	●	●	●	●	●	●	●	●
C Option														
0	ON/OFF only	●	●	●	●	●	●	●	●	●	●	●	●	●
1	With flow adjustment	●	●	●	●	●	●	●	●	●	●	●	●	●
6	With indicator	●	●	●	●	●	●	●	●	●	●	●	●	●
D No. of stations														
1	1 station	●	●	●	●	●	●	●	●	●	●	●	●	●
to	to	●	●	●	●	●	●	●	●	●	●	●	●	●
5	5 stations	●	●	●	●	●	●	●	●	●	●	●	●	●
E Fluid														
Blank	Standard	●	●	●	●	●	●	●	●	●	●	●	● (Note 1)	● (Note 1)
M	For ammonia	●	●	●	●	●	●	●	●	●	●	●	● (Note 1)	● (Note 1)
P	For nitric acid, for hydrofluoric acid (Note 3)	●	●	●	●	●	●	●	●	●	●	●	● (Note 1)	● (Note 1)
Y	For high temperature (5 to 160°C) (Note 2)	●	●	●	●	●	●	●	●	●	●	●	● (Note 1)	● (Note 1)
F Port A position														
Blank	Right	●	●	●	●	●	●	●	●	●	●	●	●	●
L	Left	●	●	●	●	●	●	●	●	●	●	●	●	●
W	Both sides	●	●	●	●	●	●	●	●	●	●	●	●	●

Available with PTFE machined body.

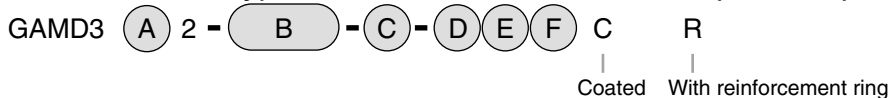
● Model No. for type with coated metal section



● Model No. with operation port reinforcement ring (Designate R at end of Model No.)



● Model No. for type with coated metal section + operation port reinforcement ring



⚠ Note on model No. selection

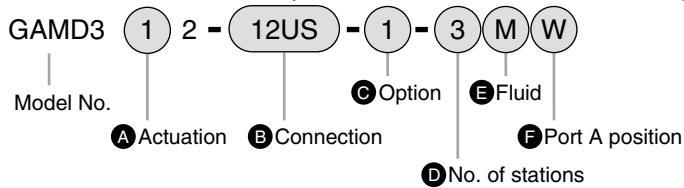
Note 1: The final lock fitting nut and operation air piping could interfere, so check dimensions before selecting.

Note 2: This valve is not compatible with nitric acid, hydrofluoric acid, or chlorine.

Note 3: C (with coated metal section) is included in the E Fluid P item.

How to order

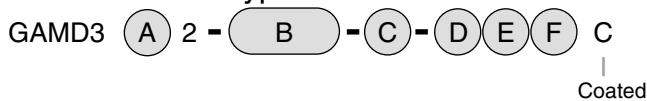
● GAMD3*2 Series (Connection: Ø12, 1/2" tube)



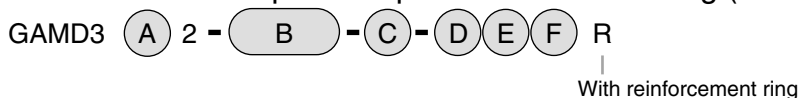
		B Connection												
		12US	15BUS	12UJ	15BUJ	12UP	15BUP	12UA	15BUA	12UR	15BUR	12UK	15BUK	15BUW
		Super type Pillar fitting integrated type	Super 300 type Pillar fitting J series integrated type	Super 300 type Pillar fitting J series integrated type	Super 300 type Pillar fitting P series integrated type	Super 300 type Pillar fitting P series integrated type	F-LOCK 20A series fitting integrated type	F-LOCK 20A series fitting integrated type	F-LOCK 60 series fitting integrated type	F-LOCK 60 series fitting integrated type	Final lock 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												
A Actuation														
1	NC (normally closed)	●	●	●	●	●	●	●	●	●	●	●	●	●
2	NO (normally open)	●	●	●	●	●	●	●	●	●	●	●	●	●
3	Double acting	●	●	●	●	●	●	●	●	●	●	●	●	●
C Option														
0	ON/OFF only	●	●	●	●	●	●	●	●	●	●	●	●	●
1	With flow adjustment	●	●	●	●	●	●	●	●	●	●	●	●	●
6	With indicator	●	●	●	●	●	●	●	●	●	●	●	●	●
D No. of stations														
1	1 station													
to	to	●	●	●	●	●	●	●	●	●	●	●	●	●
5	5 stations													
E Fluid														
Blank	Standard	●	●	●	●	●	●	●	●	●	●	●	●	●
M	For ammonia	●	●	●	●	●	●	●	●	●	●	●	●	●
P	For nitric acid, for hydrofluoric acid (Note 3)	●	●	●	●	●	●	●	●	●	●	●	●	●
Y	For high temperature (5 to 160°C) (Note 2)	●	●	●	●	●	●	●	●	●	●	●	●	●
F Port A position														
Blank	Right	●	●	●	●	●	●	●	●	●	●	●	●	●
L	Left	●	●	●	●	●	●	●	●	●	●	●	●	●
W	Both sides	●	●	●	●	●	●	●	●	●	●	●	●	●

Available with PTFE machined body.

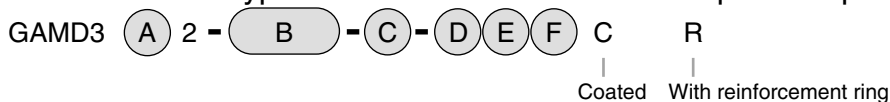
● Model No. for type with coated metal section



● Model No. with operation port reinforcement ring (Designate R at end of Model No.)



● Model No. for type with coated metal section + operation port reinforcement ring



⚠ Note on model No. selection

Note 1: The final lock fitting nut and operation air piping could interfere, so check dimensions before selecting.

Note 2: This valve is not compatible with nitric acid, hydrofluoric acid, or chlorine.

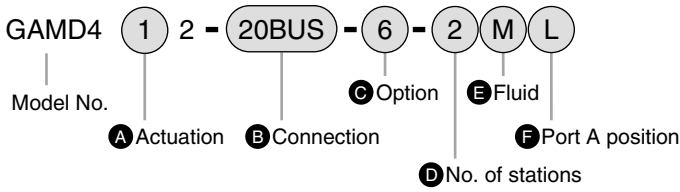
Note 3: C (with coated metal section) is included in the (E) Fluid P item.

AMDZ
AMD0*2
AMD3*2
AMD4*2
AMD5*2
AMGZ0
AMG00
AMG*02
GAMD*2
High-pressure specifications
AMB
Flow characteristics
MIMD*02
GMMD*02
MIMD*0
TMD*02
AMS
AMDS
TOAS
Fine regulator
KML
Others
Solenoid valve

GAMD4*2Series

How to order

● GAMD4*2 Series

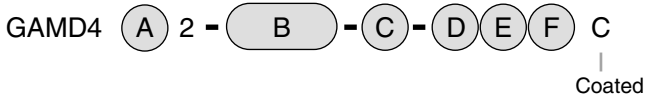


B Connection						
20BUS	20BUJ	20BUP	20BUA	20BUR	20BUK	20BUW
Super type Pillar fitting integrated type	Super 300 type Pillar fitting J series integrated type	Super 300 type Pillar fitting P series integrated type	fitting integrated type	F-LOCK 20A series fitting integrated type	F-LOCK 60 series fitting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

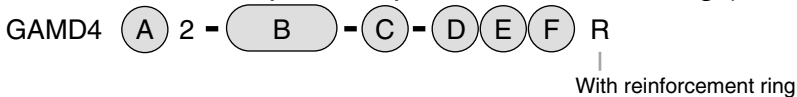
		3/4" X 5/8" tube connection							
Symbol	Descriptions	Orifice	Ø16	Ø16	Ø16	Ø16	Ø15	Ø16	Ø14.7
A Actuation									
1	NC (normally closed)		●	●	●	●	●	●	●
2	NO (normally open)		●	●	●	●	●	●	●
3	Double acting		●	●	●	●	●	●	●
C Option									
0	ON/OFF only		●	●	●	●	●	●	●
1	With flow adjustment		●	●	●	●	●	●	●
6	With indicator		●	●	●	●	●	●	●
D No. of stations									
1	1 station								
to	to		●	●	●	●	●	●	●
5	5 stations								
E Fluid									
Blank	Standard		●	●	●	●	●	●	●
M	For ammonia		●	●	●	●	●	●	●
P	For nitric acid, for hydrofluoric acid (Note 2)		●	●	●	●	●	●	●
Y	For high temperature (5 to 160°C) (Note 1)		●	●	●	●		●	
F Port A position									
Blank	Right		●	●	●	●	●	●	●
L	Left		●	●	●	●	●	●	●
W	Both sides		●	●	●	●	●	●	●

Available with PTFE machined body.

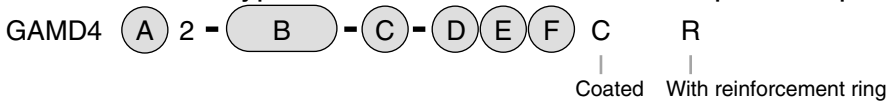
● Model No. for type with coated metal section



● Model No. with operation port reinforcement ring (Designate R at end of Model No.)



● Model No. for type with coated metal section + operation port reinforcement ring



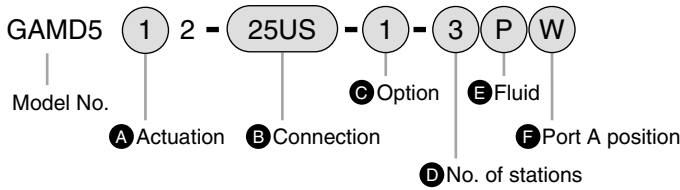
⚠ Note on model No. selection

Note 1: This valve is not compatible with nitric acid, hydrofluoric acid, or chlorine.

Note 2: C (with coated metal section) is included in the E Fluid P item.

How to order

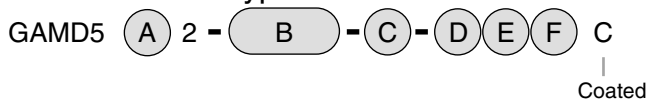
● GAMD5*2 Series



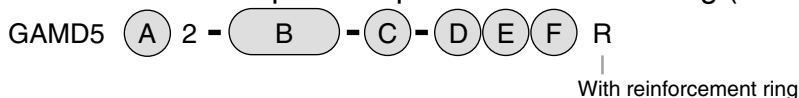
		B Connection											
		25US	25BUS	25UJ	25BUJ	25UP	25BUP	25BUA	25UR	25BUR	25UK	25BUK	25BUW
		Super type Pillar fitting integrated type	Super 300 type Pillar fitting J series integrated type		Super 300 type Pillar fitting P series integrated type		F-LOCK 20A series fitting integrated type	F-LOCK 60 series fitting integrated type		Final lock fitting integrated type		FLARTEC fitting integrated type	
		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
Symbol	Descriptions	Orifice											
		Ø20	Ø20	Ø20	Ø20	Ø20	Ø20	Ø20	Ø20	Ø20	Ø20	Ø20	Ø20
A Actuation													
1	NC (normally closed)	●	●	●	●	●	●	●	●	●	●	●	●
2	NO (normally open)	●	●	●	●	●	●	●	●	●	●	●	●
3	Double acting	●	●	●	●	●	●	●	●	●	●	●	●
C Option													
0	ON/OFF only	●	●	●	●	●	●	●	●	●	●	●	●
1	With flow adjustment	●	●	●	●	●	●	●	●	●	●	●	●
6	With indicator	●	●	●	●	●	●	●	●	●	●	●	●
D No. of stations													
1	1 station	●	●	●	●	●	●	●	●	●	●	●	●
to	to												
4	4 stations	●	●	●	●	●	●	●	●	●	●	●	●
E Fluid													
Blank	Standard	●	●	●	●	●	●	●	●	●	●	●	●
M	For ammonia	●	●	●	●	●	●	●	●	●	●	●	●
P	For nitric acid, for hydrofluoric acid (Note 1)	●	●	●	●	●	●	●	●	●	●	●	●
F Port A position													
Blank	Right	●	●	●	●	●	●	●	●	●	●	●	●
L	Left	●	●	●	●	●	●	●	●	●	●	●	●
W	Both sides	●	●	●	●	●	●	●	●	●	●	●	●

Available with PTFE machined body.

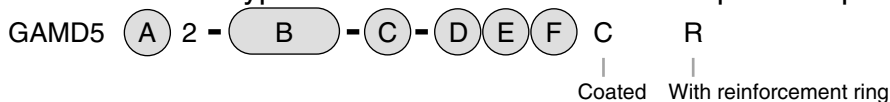
● Model No. for type with coated metal section



● Model No. with operation port reinforcement ring (Designate R at end of Model No.)



● Model No. for type with coated metal section + operation port reinforcement ring



⚠ Note on model No. selection

Note 1: C (with coated metal section) is included in the E Fluid P item.

Note 2: Also usable for the Ø25 x Ø22 diameter tube connection.

AMDZ
AMD0

AMD0*2

AMD3*2

AMD4*2

AMD5*2

AMGZ0
AMG00

AMG*02

GAMD*2

High-pressure
specifications

AMD

AMB

Flow
characteristics

MMD*02

GMMD*02

MMD*0

TMD*02

AMS

AMDS

TOAS

Fine
regulator

KML

Others

Solenoid
valve