



Air-operated valve for chemical liquids (3 port valve)

AMG³₄⁵02 Series

- Orifice: AMG302: Ø6 to Ø10
AMG402: Ø14.7 to Ø16
AMG502: Ø20

Subject to Export Trade Control Ordinances

*Target: AMG402 and 502 only

Specifications

Descriptions	AMG302	AMG402	AMG502
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		
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	0.3 to 0.5	
	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.

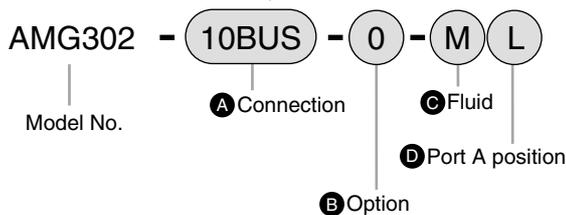
Note 4: See page 56 for high-pressure specifications.

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

AMG302Series

How to order

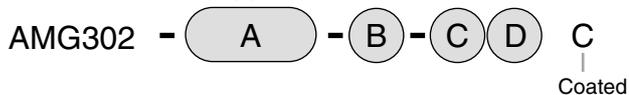
● AMG302 Series (Connection: Ø10, 3/8" tube)



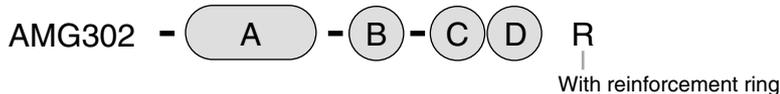
		A Connection												
		10US	10BUS	10UJ	10BUJ	10UP	10BUP	10UA	10BUA	10UR	10BUR	10UK	10BUK	10BUW
		Super type Pillar fitting integrated type		Super 300 type Pillar fitting J series integrated type		Super 300 type Pillar fitting P series integrated type		F-LOCK 20A series fitting integrated type		F-LOCK 60 series fitting integrated type		Final lock fitting integrated type		FLARTEC fitting integrated type
		Ø10 X 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
B Option														
0	ON/OFF only	●	●	●	●	●	●	●	●	●	●	●	●	●
1	With flow adjustment	●	●	●	●	●	●	●	●	●	●	●	●	●
6	With indicator	●	●	●	●	●	●	●	●	●	●	●	●	●
C 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)	
D Port A position														
Blank	Right	●	●	●	●	●	●	●	●	●	●	●	●	●
L	Left	●	●	●	●	●	●	●	●	●	●	●	●	●

Available with PTFE machined body.

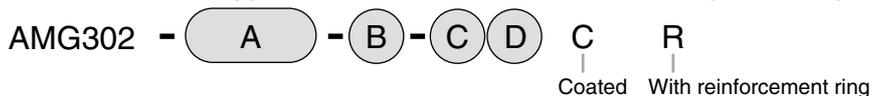
● Model No. for type with coated metal section



● Model No. for type with operation port reinforcement ring



● 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.

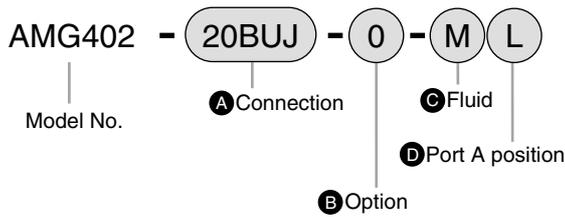
Note 2: This valve is not compatible with nitric acid, hydrofluoric acid, or chlorine.

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

AMG402Series

How to order

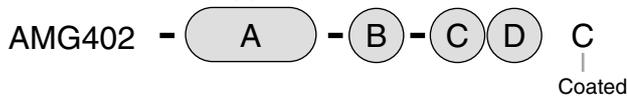
● AMG402 Series



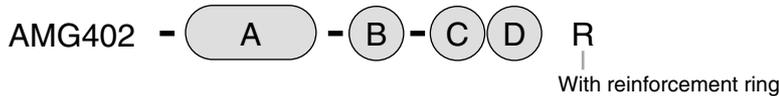
		A Connection							
		20BUS	20BUJ	20BUP	20BUA	20BUR	20BUK	20BUW	
		Super type Pillar fitting integrated type	Super 300 type Pillar fitting P series integrated type	Super 300 type Pillar fitting P series integrated type	F-LOCK 20A series fitting integrated type	F-LOCK 60 series fitting integrated type	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
B Option									
0	ON/OFF only		●	●	●	●	●	●	●
1	With flow adjustment		●	●	●	●	●	●	●
6	With indicator		●	●	●	●	●	●	●
C 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)		●	●	●	●		●	
D Port A position									
Blank	Right		●	●	●	●	●	●	●
L	Left		●	●	●	●	●	●	●

Available with PTFE machined body.

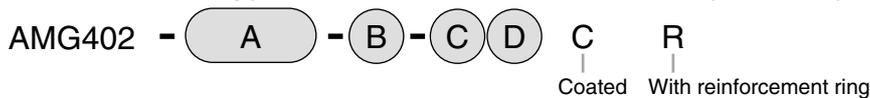
● Model No. for type with coated metal section



● Model No. for type with operation port reinforcement ring



● 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 C Fluid P item.

