

Air operated valve for chemical liquids

AMD0¹₃2 Series

The standard type uses special PPS to handle hydrofluoric acid

Orifice size: ø3 to ø4



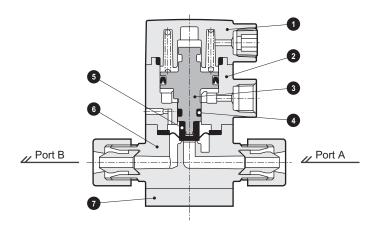


Specifications

Descriptions	AMD0	¹ / ₃ 2-*-4			
Working fluid	Pure water, chemical li	iquids, air, N₂ gas (*1)			
Fluid temperature °C	5 to 10	00 (*2)			
Proof pressure MPa	1				
Working pressure (A→B) MPa	0 to	0.5			
Working pressure (B→A) MPa	0 to	0.3			
Valve seat leakage cm ³ /min	0 (water p	0 (water pressure)			
Back pressure MPa	0 to	0 to 0.3			
Ambient temperature °C	0 to	0 to 60			
Frequency	30 times/m	30 times/min. or less			
Mounting orientation	Unrest	tricted			
Connection	Rc1/8, O.D. ø6 tube conno O.D. 1/4" tube connect	, , ,			
Orifice size	ø3.5	ø4			
Cv	0.28	0.32			
Operating Oper.Press. MPa	NC/NO 0.35 to 0.5, double acting 0.3	3 to 0.4 (0.2 to 0.3 for fluid code "P")			
section Operating port	Rc1	1/8			

^{*1:} 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 fluid code)						
NO.	Part Hairie	Standard	M	Р				
1	Cover	PF	PP					
2	Cylinder	PF	PP					
3	Piston rod	PF	PVDF					
4	O-ring	FKM	EPDM	FKM				
5	Diaphragm	PTFE						
6	Body	PFA, PTFE						
7	Mounting plate	PF	PS	PP				

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



^{*2:} For use with hydrofluoric acid, or when the fluid temperature exceeds 40°C, consult with CKD.

^{*3:} Refer to pages 123 and 124 for flow characteristics.

How to order															
AMD0 1 2 - 6US - 4	AMD0 1 2 - 6US - 4 - 1 - 4 M														
orific	l uction (e size	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	D Oper direc	Flui rating tion		ort									
A Actuation		nnect		01.1	<u> </u>	ODLID	OL II	- 0.01		OL ID	OPLID	011	II.	00111	ODI DAY
1 NC (normally closed) 2 NO (normally open)	6 Rc		8BUS	_	_	8BUP	6UF	- 8BI			8BUR OCK	_	_	Lock	8BUW Flaretek
3 Double acting	1/8		per fitting			r 300 fitting		Series			Series		riai fittii		fitting
5 200010 doming	1/0		rated			0				fitting in				ated	integrated
		integ	Taleu	1 001	1103 11	illegialeu	Intuing	littegra	ilcu	intung in	legrated	1111	legi	aicu	integrated
		ø6 x ø4 tube connection	1/4" x 5/32" tube connection	ø6 x ø4 tube	connection	1/4" x 5/32" tube connection	ø6 x ø4 tube	ø6.35 x ø4.3 tube	connection	ø6 x ø4 tube connection	1/4" x 5/32" tube connection	ø6 x ø4 tube	connection	1/4" x 5/32" tube connection	1/4" x 5/32" tube connection
Code Content Orifice size	ø4	e	4		ø	4		ø4		ø:	3.5		Ø4	4	ø3
© Option						E	Body	mate	eria	al					
			Р	FA: I	PF/	A molde	ed bo	dy, PT	ΈE	: PTFE	cut bo	dy			
0 ON/OFF only	DE4		- 4		-	- •		DEA					-	- 4	DTEE
With flow rate adjustment ON/OFF / with indicator	PFA	PI	FA		PF	-A		PFA		P	FA		PF	A	PTFE
										ļ					
D Operating port direction With valve viewed from	•		•			•									
1 4 above, ← indicates	•		•		-	•	•		_				_	•	
fluid flow direction and poperating port	•	•	•	•		•	•		<u></u>	•	•			•	•
3 coperating port	•	•	•	•		•	•			•	•	•		•	•
⑤ Fluid code															

* PTFE cut products will be manufactured per order.

•

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Bottom mounting model No.

Standard

For ammonia

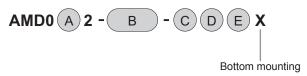
For nitric acid

Blank

M

Ρ

(hyphens between **© D** and indication of orifice size are not required)

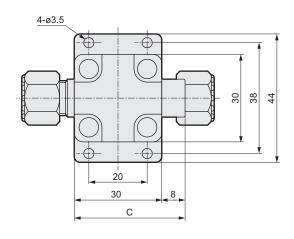


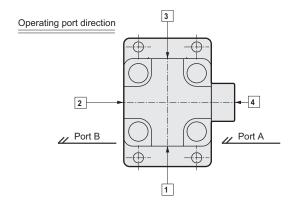
$\begin{array}{c} \textbf{AMD0}_3^{1} \textbf{2} \\ \textbf{Series} \end{array}$

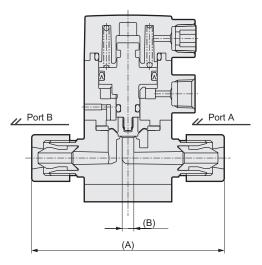
Dimensions

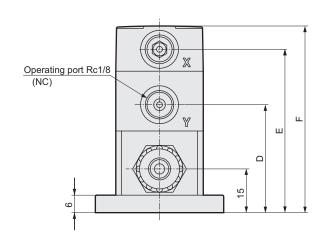
●ON/OFF only

• AMD0¹₃ 2- *1 -4-0-









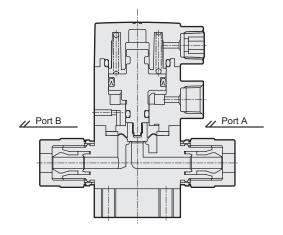
*1 Connector No.	Α	В
6	36	4
6US	66	4
8BUS	66	4
6UP	68	4
8BUP	68	4

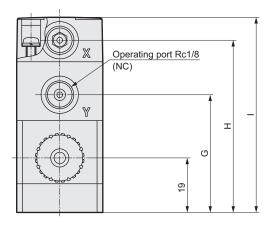
*1 Connector No.	Α	В	
6UF	64	4	
8BUF	64	4	
6UR	90	3.5	
8BUR	92	3.5	
6UK	71	4	
8BUK	71	4	
8BUW	86	3	

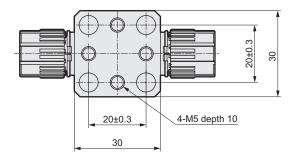
Fluid code	С	D	Е	F
Blank/M	38	37	56	64
Р	35	36	57	65

Dimensions

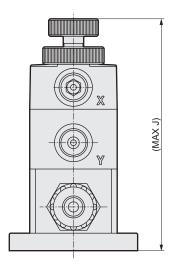
Bottom mounting



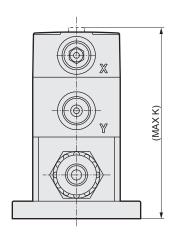




With flow rate adjustment



With indicator



Fluid code	G	н	1	J	K
Blank/M	41	60	68	81	66
Р	40	61	69	87	67

When bottom mounting is selected, dimensions J and K will be 4 mm higher.



Air operated valve for chemical liquids

AMD3¹₃2/AMD4¹₃2/AMD5¹₃2 Series

Orifice size: ø6.3 to ø20





Target: AMD4*2, 5*2

Specifications

Descripti	ions			AMD3 ¹ ₃ 2-*-8		AMD3 ¹ ₃ 2-*-10				
Working flu	uid				Chemical liquid,	, pure water (*1)				
Fluid temper	rature °C			5 1	o 90 (For high temp	erature: 5 to 160) (*	5)			
Proof press	sure MPa				0.	.9				
Working pressure	e (A→B) MPa				0 to 0	.3 (*3)				
Working pressure	e (B→A) MPa				0 to 0	.1 (*3)				
Valve seat leaka	age cm³/min				0 (water	pressure)				
Back press	sure MPa				0 to 0	.1 (*3)				
Ambient tempe	erature °C				0 to	60				
Frequency	'				30 times/n	nin. or less				
Mounting orier	ntation				Unres	tricted				
Connection	า			e connection (fitting e connection (fitting	,	O.D. ø12 tube connection (fitting integrated) O.D. 1/2" tube connection (fitting integrated)				
Orifice size)	ø6.3	ø6.4	ø7.5	ø8	ø9.4	ø9.5	ø10		
Cv		0.	0.8 1.25			1.8				
Bypass orifice	size (with bypass)		ø2.3							
Operating	Oper.Press. MPa	NC 0.3 to	0.5, NO (0.3 to 0.5 (0.3 to 0.35	for high temperature	e), double acting 0.3	to 0.4 (0.2 to 0.25 fo	or high temperature)		
section	Operating port				Rc1/8	8 (*2)				

Descriptions		AMD4 ¹ ₃ 2-*-16	AMD5 2-*-20		
Working fluid	orking fluid Chemical liquid, pure water (*1)		Chemical liquid, pure water (*1)		
Fluid temperature	e °C	5 to 90 (For high temperature: 5 to 160) (*5)	5 to 90 (*6)		
Proof pressure	MPa	0.9	0.9		
Working pressure (A→B)) MPa	0 to 0.3 (*3)	0 to 0.3 (*3)		
Working pressure (B→A)) MPa	0 to 0.1 (*3)	0 to 0.1 (*3)		
Valve seat leakage	cm ³ /min	0 (water pressure)	0 (water pressure)		
Back pressure	ck pressure MPa 0 to 0.1 (*3)		0 to 0.1 (*3)		
Ambient temperature	nbient temperature °C 0 to 60		0 to 60		
Frequency		20 times/min. or less	20 times/min. or less		
Mounting orientation	ı	Unrestricted	Unrestricted		
Connection		O.D. 3/4" tube connection (fitting integrated)	O.D. ø25 tube connection (fitting integrated)/ O.D. 1" tube connection (fitting integrated) Nominal 16/20 (PVC union fitting integrated)		
Orifice size		ø16	ø20		
Cv		5	8		
Bypass orifice size (w	vith bypass)	ø6	ø6		
Operating Operation	rating sure MPa	NC: 0.3 to 0.5, NO: 0.3 to 0.5 (0.3 to 0.35 for high temperature), Double acting: 0.3 to 0.4 (0.2 to 0.25 for high temperature)	NC/NO: 0.3 to 0.5, double acting: 0.3 to 0.4		
section Operating port Rc1/8 (*2)		Rc1/8 (*2)	Rc1/8 (*7)		

^{*1:} Check the compatibility of product structural materials, working fluids and atmosphere. (Refer to the compatibility check list on Intro Page 15.)

⁽When using a metal fitting, select one with reinforcing ring. However, a reinforcing ring is not required for those with fluid code P for nitric acid and hydrofluoric acid.) However, since the integrated PVC unit fitting comes with reinforcing ring, a metal fitting can also be used.



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

^{*2:} Use a resin fitting for connection to the operating port.

⁽When using a metal fitting, select one with reinforcing ring. However, a reinforcing ring is not required for those with fluid code P for nitric acid and hydrofluoric acid.)

^{*3:} Refer to page 112 for high-pressure specifications.

^{*4:} Refer to page 123 and 124 for flow characteristics.

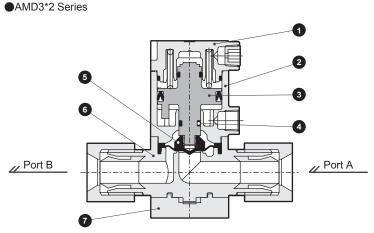
^{*5:} For use with hydrofluoric acid, or when the fluid temperature exceeds 40°C, consult with CKD.

^{*6: 5} to 50°C when the integrated PVC unit fitting is used for connection.

For use with hydrofluoric acid, or when the fluid temperature exceeds 40°C, consult with CKD.

^{*7:} Use a resin fitting for connection to the operating port.

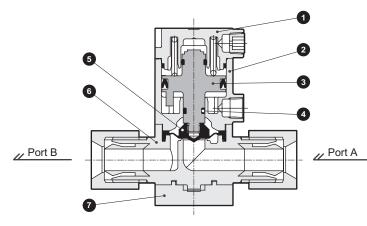
Internal structure and parts list



No.	Bort name	Part name Material (by fluid				
NO.	Part Haine	Standard	M	Р		
1	Cover	PF	PP			
2	Cylinder	PF	PP			
3	Piston rod	PF	PVDF			
4	O-ring	FKM	EPDM	FKM		
5	Diaphragm	PTFE				
6	Body	PFA, PTFE				
7	Mounting plate	PF	PP			

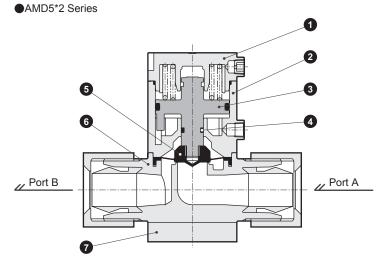
The material and structure may vary depending on the model number. Contact CKD for details.

●AMD4*2 Series



No.	Part name	Mater	code)			
NO.	Part Haine	Standard/Y/E	M	Р		
1	Cover	PF	PP			
2	Cylinder	PF	PP			
3	Piston rod	PF	PVDF			
4	O-ring	FKM EPDM		FKM		
5	Diaphragm	PTFE				
6	Body	PFA, PTFE				
7	Mounting plate	PF	PS	PP		

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



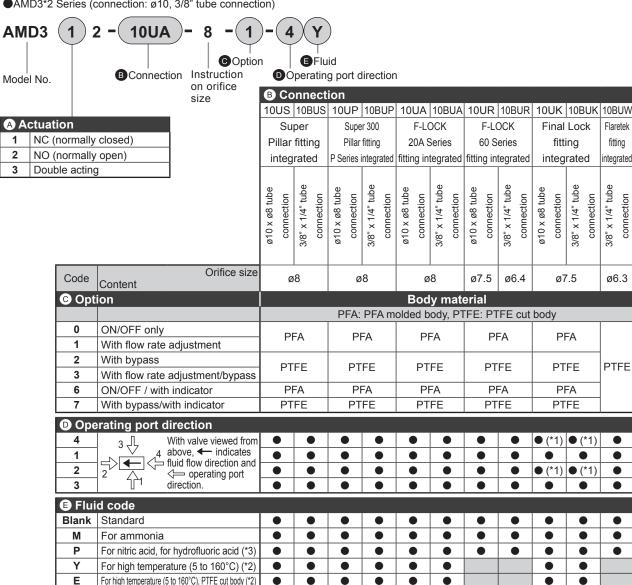
Dort name	Mater	code)			
rait liaille	Standard	М	Р		
Cover	PF	PP			
Cylinder	PF	PP			
Piston rod	PF	PVDF			
O-ring	FKM	EPDM	FKM		
Diaphragm	PTFE				
Body	PFA, PTFE				
Mounting plate	PF	PP			
	Cylinder Piston rod O-ring Diaphragm Body	Cover PF Cylinder PF Piston rod PF O-ring FKM Diaphragm Body	Standard M Cover PPS Cylinder PPS Piston rod PPS O-ring FKM EPDM Diaphragm PTFE Body PFA, PTFE		

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

AMD322/AMD422/AMD522 Series

How to order

●AMD3*2 Series (connection: ø10, 3/8" tube connection)



PTFE cut products will be manufactured per order.

Model No. of operating port with reinforced ring

(hyphen between **©** and **D** is not required) В AMD3

D

R

Instruction on orifice size

With reinforcement ring

Bottom mounting model No.

(hyphens between **© D** and indication of orifice size are not required)

AMD3 В **Bottom mounting**

Operating port with reinforced ring + bottom mounting model No. (hyphens between **© D** and indication of orifice size are not required)

AMD3 В D X With reinforcement **Bottom** ring mounting



Precautions for model No. selection

- *1: Since the Final Lock fitting nut and operating air piping may interfere, be sure to check the dimensions before making the selection.
- *2: It is not available if the option in 6 is 2 (with bypass), 3 (with flow rate adjustment/bypass) or 7 (with bypass/ with indicator).

It cannot be used for nitric acid, hydrofluoric acid or hydrochloric acid.

*3: If P is selected in , R with reinforcing ring cannot be selected.

It is not available if the option in is 2 (with bypass), 3 (with flow rate adjustment/bypass) or 7 (with bypass/ with indicator).

AMD3¹₃2/AMD4¹₃2/AMD5¹₃2 Series

How to order

AMDZ*3R AMDZ AMD0*2 AMD3*2

AMD 3*2 SUS body

AMD*1H AMD*1M

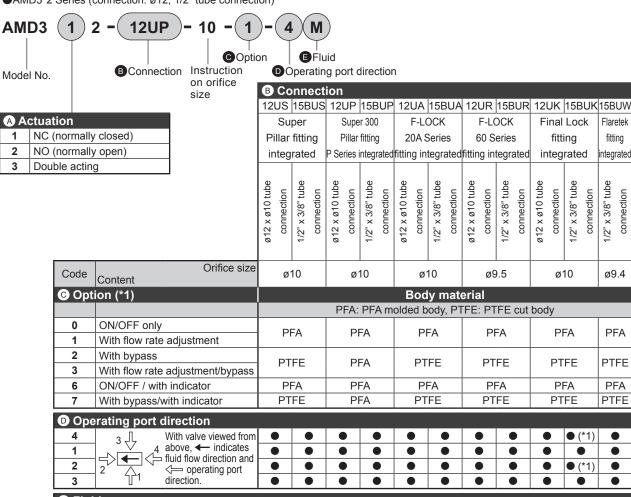
AMG203R AMG20 AMG*02 GAMD*3R GAMD0*2A GAMD**2 SAMG*03R GAMD**2 SAMG*07 GAMD**2

AMD

MMD*02 MMD*0H MMD*0M GMMD*02 MMD*0 TMD*02 FMD00 AMS AMDS regulator KML Others Related

How to order

●AMD3*2 Series (connection: ø12, 1/2" tube connection)



Flui	id											
Blank	Standard	•	•	•	•	•	•	•	•	•	•	•
M	For ammonia	•	•	•	•	•	•	•	•	•	•	•
Р	For nitric acid, for hydrofluoric acid (*3)	•	•	•	•	•	•	•	•	•	•	•
Υ	For high temperature (5 to 160°C) (*2)	•	•	•	•	•	•			•	•	
Е	For high temperature (5 to 160°C), PTFE cut body (*2)	•	•	•	•	•	•			•	•	

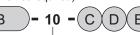
* PTFE cut products will be manufactured per order.

 Model No. of operating port with reinforced ring (hyphen between **©** and **D** is not required)

AMD3









Instruction on orifice size

With reinforcement ring

Bottom mounting model No.

(hyphens between **© D** and indication of orifice size are not required)

AMD3









Bottom mounting

 Operating port with reinforced ring + bottom mounting model No. (hyphens between **© D** and indication of orifice size are not required)

AMD3









ring





Precautions for model No. selection

- *1: Since the Final Lock fitting nut and operating air piping may interfere, be sure to check the dimensions before making the selection.
 - *2: It is not available if the option in is 2 (with bypass), 3 (with flow rate adjustment/bypass) or 7 (with bypass/ with indicator).

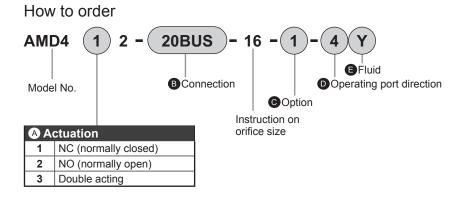
It cannot be used for nitric acid, hydrofluoric acid or hydrochloric acid.

*3: If P is selected in , R with reinforcing ring cannot be selected. It is not available if the option in (

is 2 (with bypass), 3 (with flow rate adjustment/bypass) or 7 (with bypass/ with indicator).

CKD

AMD3¹₃2/AMD4¹₃2/AMD5¹₃2 Series



B		nnect				
20E	BUS	20BUP	20BUA	20BUR	20BUK	20BUW
Super pillar	fitting integrated	Super 300 Pillar fitting P Series integrated	F-LOCK 20A Series fitting integrated	F-LOCK 60 Series fitting integrated	Final Lock fitting integrated	Flaretek fitting integrated
1		3/4" >	c 5/8" tub	e conne	ection	

Code	Orifice size Content	ø16	ø16	ø16	ø15.9	ø16	ø14.7
© Option			E	ody n	nateria	al	
		PFA: PFA molded body, PTFE: PTFE cut be				ut body	
0	ON/OFF only	PFA	PFA	PTFE	DEV	PTFE	PFA
1	With flow rate adjustment	FIA	FFA	FILE	FIA	FIIL	FIA
2	With bypass	PFA	PFA	PTFE	PTFE	PTFE	DTEE
3	With flow rate adjustment/bypass	FFA					PIFE
6	ON/OFF / with indicator		PFA	PTFE	PFA	PTFE	PFA
7	With bypass/with indicator	PFA	PFA	PTFE	PTFE	PTFE	PTFE

Оре	Operating port direction									
4	3 ☐ With valve viewed from	•	•	•		•	•			
1	4 above, ← indicates	•	•	•	•	•	•			
2	fluid flow direction and port	•	•	•	•	•	•			
3	direction.	•	•	•	•	•	•			

Flui	d						
Blank	Standard	•	•	•	•	•	•
M	For ammonia	•	•	•	•	•	•
Р	For nitric acid, for hydrofluoric acid (*2)	•	•	•	•	•	
Υ	For high temperature (5 to 160°C) (*1)	•	•	•		•	
E	For high temperature (5 to 160°C), PTFE cut body (*1)	•	•			•	

^{*} PTFE cut products will be manufactured per order.

Model No. of operating port with reinforced ring (hyphen between (and (b) is not required)

В AMD4 16 **-**(C D Instruction on orifice size

R With reinforcement ring

Bottom mounting model No.

(hyphens between **© D** and indication of orifice size are not required)

AMD4 В

Bottom mounting

Operating port with reinforced ring + bottom mounting model No. (hyphens between 6 and indication of orifice size are not required)

AMD4 2 -В D

X With reinforcement ring

Bottom mounting

Precautions for model No. selection

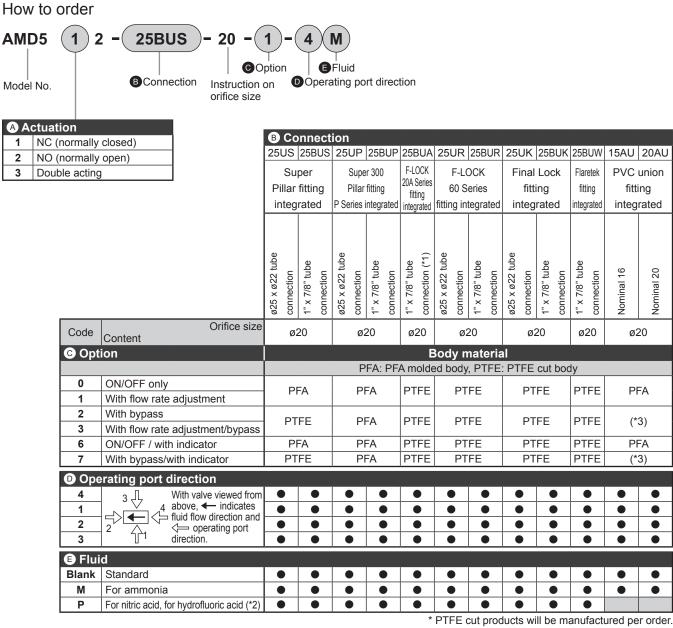
- *1: It is not available if the option in is 2 (with bypass), 3 (with flow rate adjustment/bypass) or 7 (with bypass/ with indicator).
 - It cannot be used for nitric acid, hydrofluoric acid or hydrochloric acid.
- *2: If P is selected in , R with reinforcing ring cannot be selected.
 - It is not available if the option in (is 2 (with bypass), 3 (with flow rate adjustment/bypass) or 7 (with bypass/ with indicator).

$AMD3_3^{1}2/AMD4_3^{1}2/AMD5_3^{1}2$ Series

How to order

AMD

MMD*02 MMD*0H MMD*0M GMMD*02 MMD*0 TMD*02 FMD00 AMS AMDS regulator KML Others



Model No. of operating port with reinforced ring

AMD5

Model No.

2

3

(hyphen between @ and D is not required)

AMD5 2 . 20 -(C

D Instruction on orifice size With reinforcement ring

R

Bottom mounting model No. (hyphens between **© D** and indication of orifice size are not required) X

AMD5 В

Bottom mounting

Operating port with reinforced ring + bottom mounting model No. (hyphens between **© D** and indication of orifice size are not required)

AMD5 В C With reinforcement **Bottom** ring mounting



Precautions for model No. selection

- *1: Can also be used for ø25 x ø22 tube connection.
- *2: If 15AU or 20AU is selected in 3 or P is selected in **(a)**, R with reinforcing ring cannot be selected. It is not available if the option in (a) is 2 (with bypass), 3 (with flow rate adjustment/bypass) or 7 (with bypass/with indicator).
- *3: Select from the AMD41L Series (Catalog No. CC-816A).

CKD

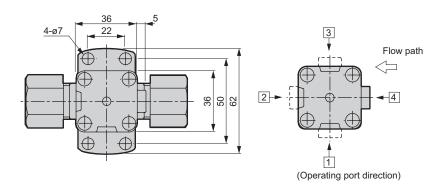
$AMD3_3^{1}2/AMD4_3^{1}2/AMD5_3^{1}2$ Series

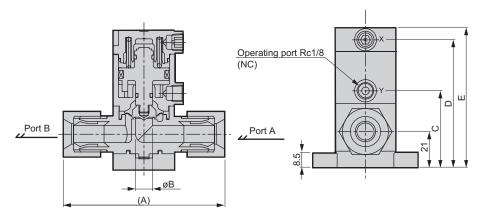
Dimensions

●ON/OFF only

• AMD3 2 2- *1 -8

• AMD3 2 2 - *1 -10



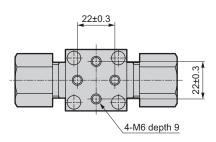


*1 (Connector No.)	Α	В
10US	86	8
10BUS	86	8
10UP	86	8
10BUP	86	8
10UA	78	8
10BUA	78	8
10UR	110	7.5
10BUR	114	6.4
10UK	96	7.5
10BUK	96	7.5
10BUW	101	6.3

*1 (Connector No.)	Α	В
12US	95	10
15BUS	95	10
12UP	94	10
15BUP	94	10
12UA	86	10
15BUA	86	10
12UR	110	9.5
15BUR	114	9.5
12UK	102	10
15BUK	102	10
15BUW	103	9.4

Fluid code	С	D	E
Blank/M/P/Y	45	75	82
E	49	79	86

Bottom mounting

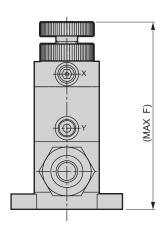


AMD738 AMD0 AMD0 AMD0 AMD32 SUS body AMD1H AMD1H AMC18 AMC6038 AMG00 AMG10 AMG1038 GAMD12A GAMD12 GAMD12 SPECIAL AMD AMC6038 AMG60 AMG10 AMG1038 GAMD138 GAMD12 SPECIAL AMD AMC6038 AMG6038 AMG60 AMG10 AMG1038 GAMD138 GAMD12 SPECIAL AMD

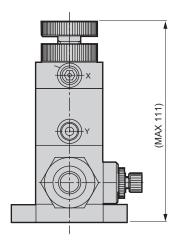
Dimensions

With flow rate adjustment

• AMD3 22-*-*-1



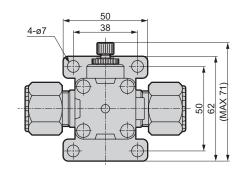
- With flow rate adjustment bypass
- AMD3 22-*-*-3

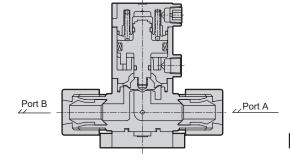


(For other dimensions, refer to the dimensions with bypass.)

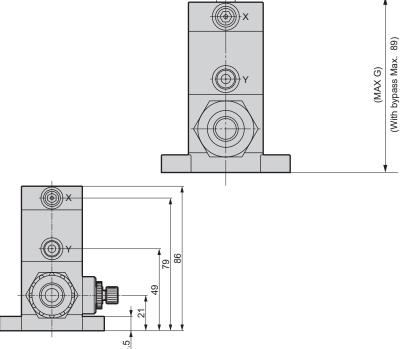
With bypass

• AMD3 22-*-*-2/7





●With indicator



Fluid code	F	G
Blank/M/P/Y	107	85
E	111	89

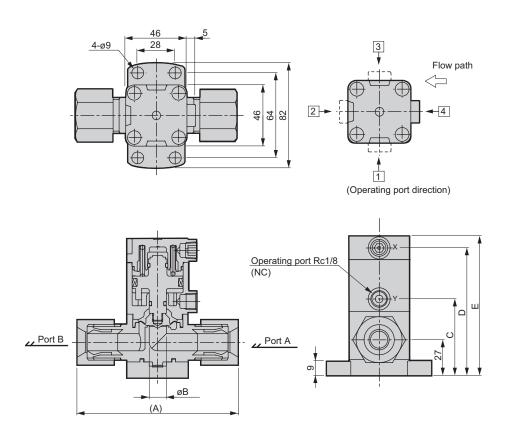
MMD*02 MMD*0H MMD*0M GMMD*02 MMD*0 TMD*02 FMD00 AMS AMDS regulator KML Others Related

$AMD3_{3}^{1}2/AMD4_{3}^{1}2/AMD5_{3}^{1}2$ Series

Dimensions

●ON/OFF only

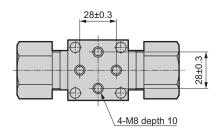
• AMD4 $\frac{1}{3}$ 2- *1 -16



*1 (Connector No.)	Α	В
20BUS	124	16
20BUP	118	16
20BUA	108	16
20BUR	134	15.9
20BUK	119	16
20BUW	122	14.7

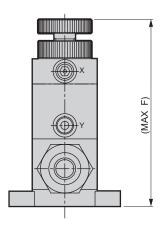
Fluid code	С	D	E
Blank/M/Y	60	97	106
P	60	97	107
E	64	101	110

■Bottom mounting

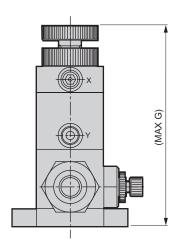


Dimensions

- With flow rate adjustment
 - AMD4 2 2-*-16-1

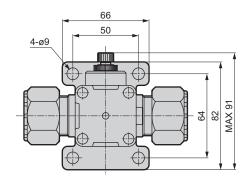


- With flow rate adjustment bypass
- AMD4 2 2-*-16-3

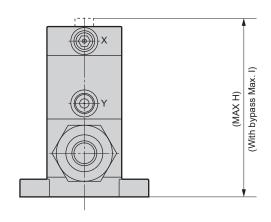


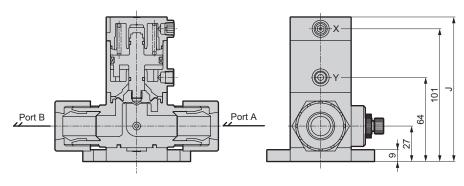
(For other dimensions, refer to the dimensions with bypass.)

- With bypass
- AMD4 2 2-*-16-2/7



- With indicator
 - AMD4 2 2-*-16-6/7





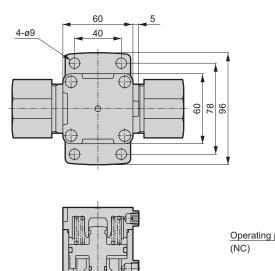
Fluid code	F	G	Н	I	J
Blank/M	130	134	110	114	110
Р	133	137	111	115	111
Υ	130		110		
E	134		114		

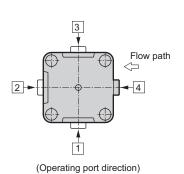
$AMD3_3^{1}2/AMD4_3^{1}2/AMD5_3^{1}2$ Series

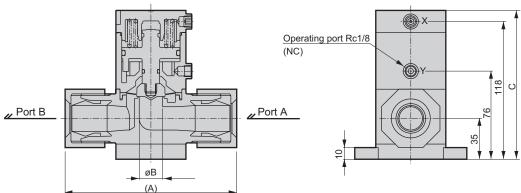
Dimensions

●ON/OFF only

• AMD5 $\frac{1}{2}$ 2- $\boxed{*1}$ -20



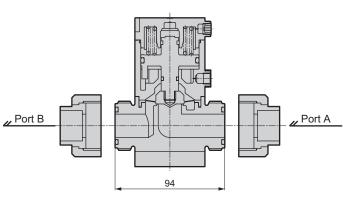




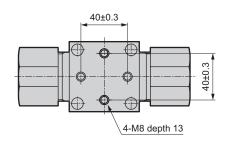
*1 (Connector No.)	Α	В
25US	147	20
25BUS	147	20
25UP	146	20
25BUP	146	20
25BUA	140	20
25UR	159	20
25BUR	162	20
25UK	141	20
25BUK	141	20
25BUW	156	20

Fluid code	С
Blank/M	128
Р	132

PVC union fitting integrated



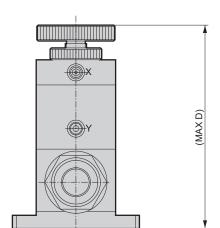
■Bottom mounting



Dimensions

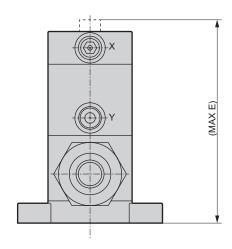
With flow rate adjustment

• AMD5 2 2-*-20-1



With indicator

• AMD5 2 2-*-20-6/7

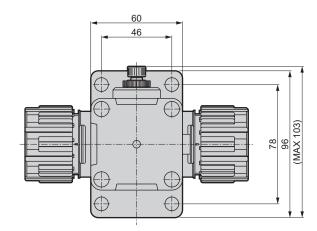


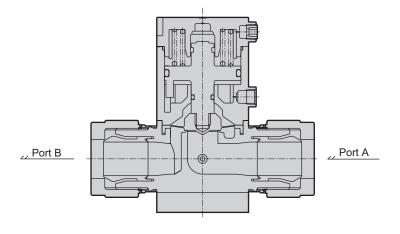
Fluid code	D	E
Blank/M	159	133
Р	166	137

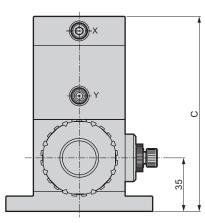
The dimensions are the same with bypass.

With bypass

• AMD52 2-*-20-2/7









Stainless steel body air operated valve for chemical liquids

$AMD3_{3}^{1}2/AMD4_{3}^{1}2/AMD5_{3}^{1}2$ Series

Orifice size: ø8 to ø20





Specifications

Descriptions	5	AMD3 ¹ ₃ 2-8/3BT/6S	AMD3 2-10/4BT/8S		
Working fluid		Chemical liquid,	pure water (*1)		
Fluid temperature	e °C	5 to	120		
Proof pressure	MPa	0.	9		
Working pressure (A→E	B) MPa	0 to 0.	3 (*2)		
Working pressure (B→A	A) MPa	0 to 0.	.1 (*2)		
Valve seat leakage	cm ³ /min	0 (water pressure)			
Back pressure	MPa	0 to 0.	.1 (*2)		
Ambient temperatur	re °C	0 to	0 60		
Frequency		30 times/min. or less			
Mounting orientatio	n	Unres	tricted		
Rc1/4 Connection 3/8" SUS tube Double barbed fitting for 3/8" (*3)			Rc3/8 1/2" SUS tube Double barbed fitting for 1/2" (*3)		
Orifice size		ø8 ø10			
Operating Oper.F	Oper.Press. MPa NC/NO 0.3 to 0.5, double acting 0.3 to 0.4				
section Oper	rating port	Rc1/8			

Descriptions	Descriptions AMD4 3 2-15/6BT/12S		AMD5 ² 32-8BT/16S	
Working fluid	Working fluid Chemical liquid, pure water (*1)		Chemical liquid, pure water (*1)	
Fluid temperature	°C	5 to 120	5 to 120	
Proof pressure M	/ΙРа	0.9	0.9	
Working pressure (A→B) N	/ΙРа	0 to 0.3 (*2)	0 to 0.3 (*2)	
Working pressure (B→A) N	//Ра	0 to 0.1 (*2)	0 to 0.1 (*2)	
Valve seat leakage cm³/min 0 (water pressure)		0 (water pressure)	0 (water pressure)	
Back pressure M	//Ра	0 to 0.1 (*2)	0 to 0.1 (*2)	
Ambient temperature	°C	0 to 60	0 to 60	
Frequency		20 times/min. or less	20 times/min. or less	
Mounting orientation		Unrestricted	Unrestricted	
Connection Rc1/2 / 3/4" SUS tube / Double barbed fitting for 3/4" (*3)			1" SUS tubing Double barbed fitting for 1" (*3)	
Orifice size ø16		ø16	ø20	
Operating Oper.Press.	MPa	NC/NO 0.3 to 0.5, double acting 0.3 to 0.4	NC/NO 0.3 to 0.5, double acting 0.3 to 0.4	
section Operating	port	Rc1/8	Rc1/8	

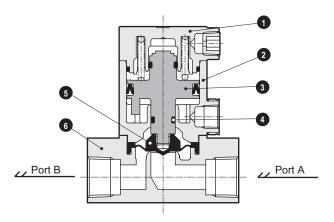
^{*1:} Check the compatibility of product structural materials, working fluids and atmosphere. (Refer to the compatibility check list on Intro Page 15.)

^{*2:} Refer to page 112 for high-pressure specifications.

^{*3:} For double barbed fitting, fluorine-based lubricant is applied to the sliding surface between the front ferrule and fitting body.

Internal structure and parts list

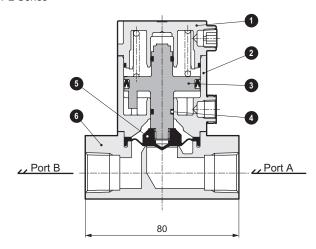
AMD3*2 Series



No.	Part name	Material (by actuator mate		
NO.	Part name	Standard	Α	
1	Cover	PPS	A5056	
2	Cylinder	PPS	A5056	
3	Piston rod	PPS	A5056	
4	O-ring	EPDM		
5	Diaphragm	PTFE		
6	Body	SUS316L		

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

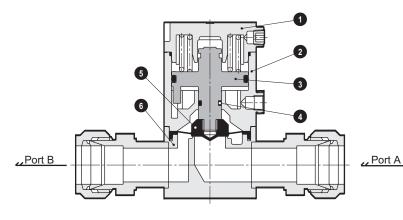
●AMD4*2 Series



No.	Part name	Material (by actuator mate		
NO.	Part Haille	Standard	Α	
1	Cover	PPS	A5056	
2	Cylinder	PPS	A5056	
3	Piston rod	PPS	A5056	
4	O-ring	EPDM		
5	Diaphragm	PTFE		
6	Body	SUS316L		

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

●AMD5*2 Series

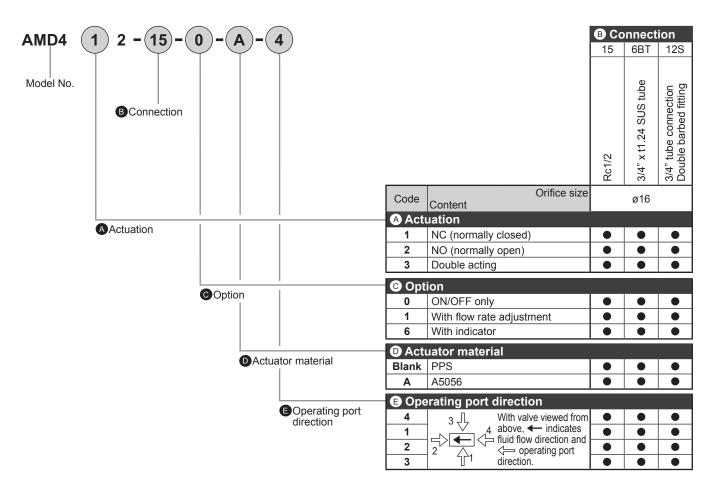


	No.	Part name	Material (by ac	tuator material)	
	NO. Part name		Standard	Α	
	1	Cover	PPS	A5056	
-	2	Cylinder	PPS	A5056	
	3	Piston rod	PPS	A5056	
	4	O-ring	EPDM		
	5	Diaphragm	PTFE		
	6	Body	SUS316L		

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

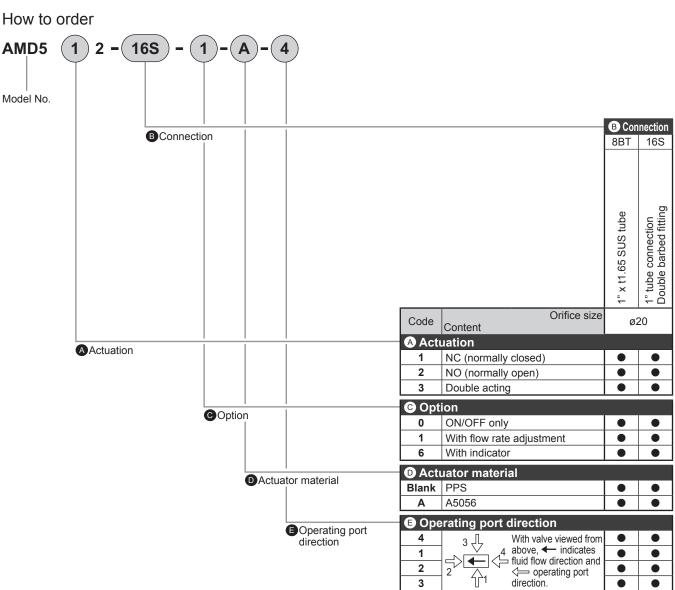
AMD3¹₂2/AMD4¹₃2/AMD5¹₃2 Series

How to order									
AMD3 1 2 - 8 - ($\overline{0}$ \overline{A} $\overline{4}$			B Co	nnect	ion			
AMBS 1 2 0				8	3BT	6S	10	4BT	88
Model No.	Operating port direction Actuator material		Rc1/4	3/8" x t1.0 SUS tube	3/8" tube connection Double barbed fitting	Rc3/8	1/2" x t1.24 SUS tube	1/2" tube connection Double barbed fitting	
		Code	Orifice size Content	ø10	Ø.	18		ø10	
Actuation	ı		uation						
Violation		1	NC (normally closed)	•	•	•	•	•	•
		2	NO (normally open)	•	•	•	•	•	•
		3	Double acting	•	•	•	•	•	•
	O O 11	© Opt							
	© Option	0	ON/OFF only	•	•	•	•	•	•
		1	With flow rate adjustment	•	•	•	•	•	•
		6	With indicator	•	•	•		•	•
			uator material						
		Blank	-	•	•	•	•	•	•
		Α	A5056	•	•		•	•	
		Оре	erating port direction						
		4	With valve viewed from above ← indicates		•	•	•	•	•
		1	fluid flow direction and	•	•	•	•	•	•
		2	2 — operating port	•	•		•	•	•
		3	direction.		•		•		



$AMD3_{3}^{1}2/AMD4_{3}^{1}2/AMD5_{3}^{1}2$ Series

How to order



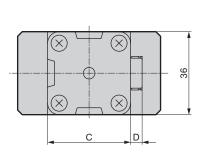
AMDZ'3R AMDZ AMD0'2 AMD3'2 AMD3'2 AMD*1H AMD*1M AMG203R AMG20 AMG*02 GAMD23R GAMD0*2A GAMD**2 pressure AMD

$AMD3_{3}^{1}2/AMD4_{3}^{1}2/AMD5_{3}^{1}2$ Series

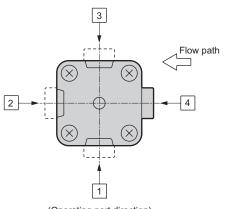
Dimensions

●Rc thread

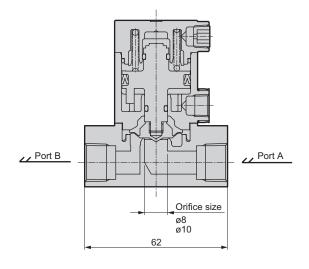
• AMD3 $\frac{1}{2}$ 2-8/10

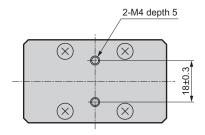


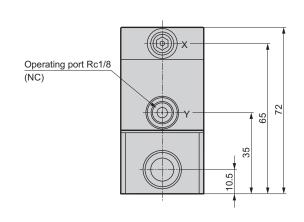
Actuator material	С	D
Blank	38	5
A	44	0



(Operating port direction)





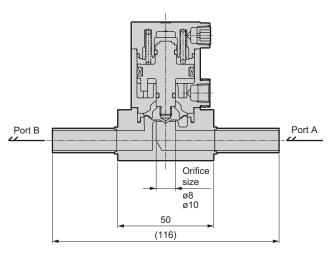


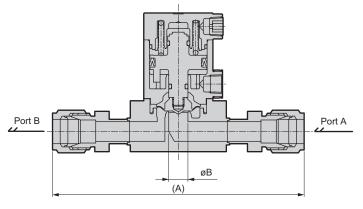
SUS tube

Dimensions

- - AMD3 2 2-3BT/4BT

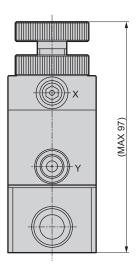
- Double barbed fitting
- AMD3 22-6S/8S



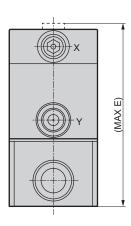


Dimensions Model No.	Α	В
AMD3*2-6S	116	8
AMD3*2-8S	130	10

- With flow rate adjustment
- AMD3 2 2-*-1



- With indicator
 - AMD3 22-*-6



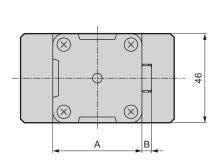
Actuator material	E
Blank	75
A	74

$AMD3_{3}^{1}2/AMD4_{3}^{1}2/AMD5_{3}^{1}2$ Series

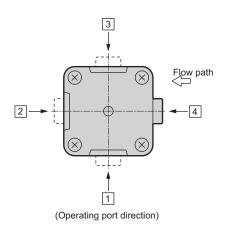
Dimensions

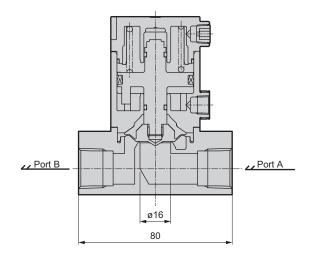
●Rc thread

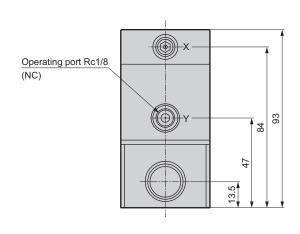
• AMD4 2 2-15

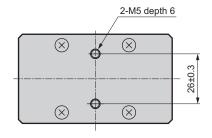


Actuator material	Α	В
Blank	46	5
A	56	0









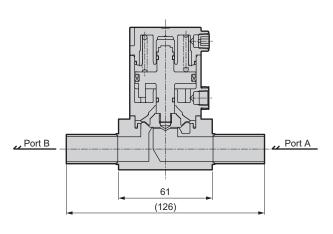
Dimensions

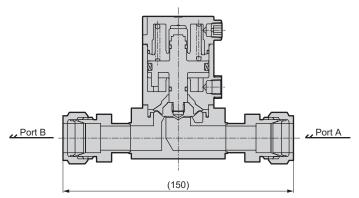
SUS tube

• AMD4 2 2-6BT

Double barbed fitting

• AMD4 22-12S



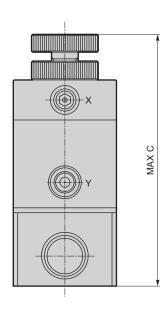


With flow rate adjustment

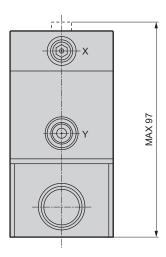
• AMD4 2 2-*-1

With indicator

• AMD4 2 2-*-6



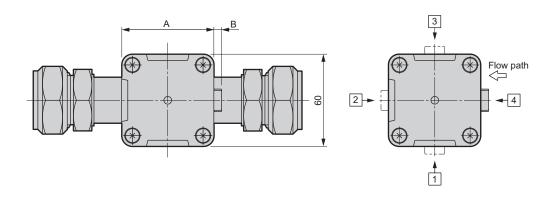
Actuator material	С
Blank	117
A	119

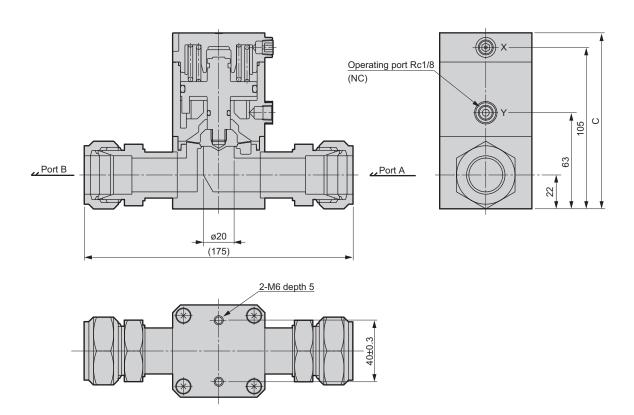


AMD3¹₂2/AMD4¹₃2/AMD5¹₃2 series

Dimensions

- Double barbed fitting
 - AMD5 $\frac{1}{2}$ 2-16S





Actuator material	Α	В	С
Blank	60	5	115
A	70	0	114

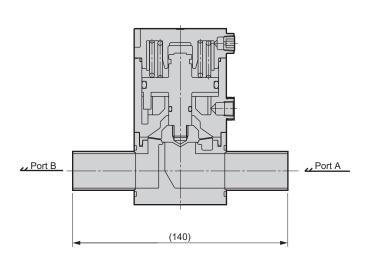
Dimensions

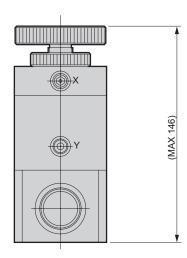
SUS tube

• AMD5 2 2-8BT



• AMD5 2 2-*-1





With indicator

• AMD5 $\frac{1}{2}$ 2-*-6

