

Air operated valve for chemical liquids $AMD2_3^1/AMD3_3^1/AMD4_3^1/AMD5_3^1 \text{ Series}$

Orifice size: ø8, ø10, ø12, ø16, ø20, ø22, ø25

To be discontinued as of December 28, 2018



Export controlled items

Target: AMD3 (*1), AMD4, 5

Specifications

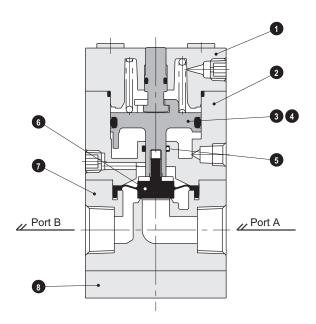
Descriptions		AMD2*-10-8	AMD3*	-15-12	AMD4*	-20-20	AMD5*-	25-25			
Working fluid		Chemical liquids/pure water/N2 gas/air									
Fluid temper	rature °C	5 to 60 (5 to 90) (5 to 150) (*3)									
Proof press	sure MPa	1.4									
Working pressure	е(А→В) МРа	0 to	0.5		0 to	0.4	0 to 0.3				
Working pressure	е(В→А) МРа	0 to	0.3		0 to	0.2	0 to 0.2				
Valve seat leakage cm ³ /min		0 (water pressure)									
Back pressure MPa		0 to	0.3		0 to 0.2						
Ambient temperature °C		0 to 40									
Frequency		30 times/n	20 times/min. or less								
Mounting orientation		Unrestricted									
Connection		Rc3/8 O.D. ø10 tube connection O.D. 3/8" tube connection	O.D. ø12 tube connection O.D. 1/2" tube connection	Rc1/2	O.D. 3/4" tube connection	Rc3/4	O.D. ø25 tube connection O.D. 1" tube connection	Rc1			
Orifice size		ø8	ø10	ø12	ø16	ø20	ø22	ø25			
Cv		1.25	1.8	2.5	5.2	8	9.5	12			
Operating	Operating pressure MPa	NC/NO: 0.3 to 0.5, double acting: 0.2 to 0.3 (*4)									
section	Operating port	Rc1/8									

^{*1:} For AMD3, only connection Rc1/2 is applicable; integrated fitting is not applicable.

^{*2:} Refer to pages 125 and 126 for flow characteristics.

^{*3: 5} to 40°C for hydrofluoric acid.

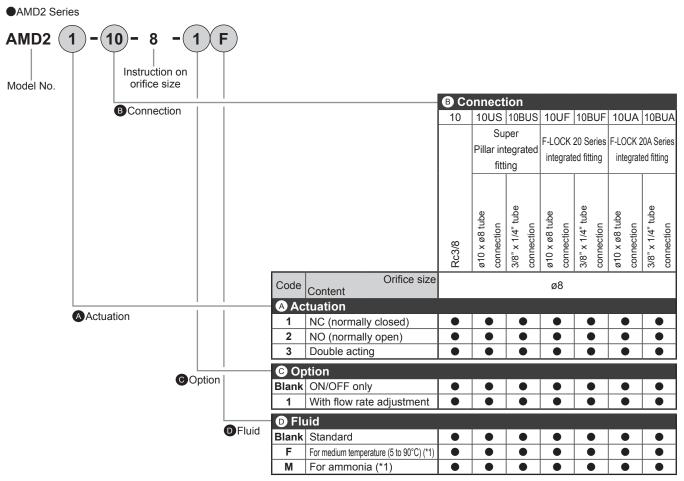
^{*4: 0.2} to 0.25 MPa for fluid codes Y and K (for high temperature) of actuation 3 (double acting).



No.	Part name	Material (by fluid code)								
NO.	Part Haine	Standard	F	Y	K	M				
1	Cover	CPVC		PV	CPVC					
2	Cylinder	CPVC		PVDF		CPVC				
3	Piston	CPVC	CPVC	PVDF	PVDF	CPVC				
4	Rod	(Piston/rod integrated)	PVDF	PPS	PEEK	(Piston/rod integrated)				
5	O-ring		EPDM							
6	Diaphragm									
7	Body	PFA								
8	Mounting plate CPVC		VC	PV	CPVC					

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

How to order





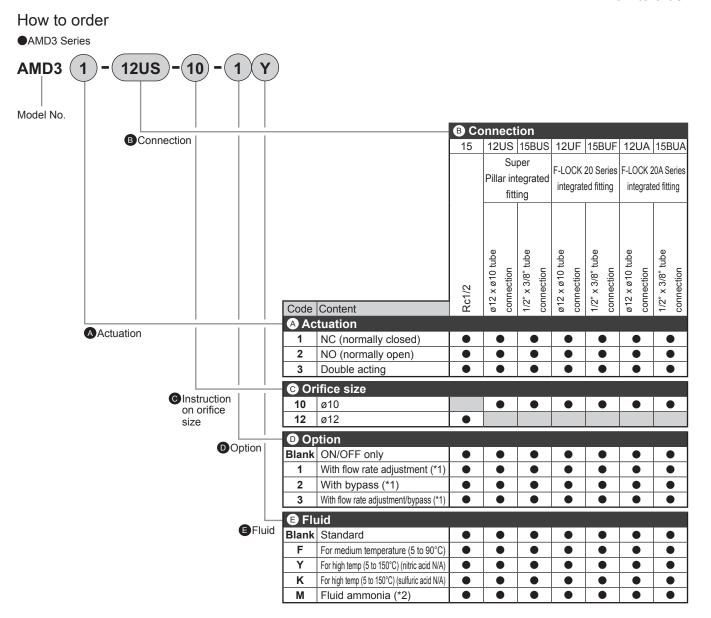
Precautions for model No. selection

^{*1:} When selecting F and M together, specify as FM.



How to order

AND73R AMD0 AMD0*2 AMD3*2 SUS body AMD*1H AMD*1M ANG039R AMG00 AMG*02 GAMD*3R GAMD0*2A GAMD*22 specification





Precautions for model No. selection

*1: For those with flow rate adjustment or bypass, Y and K in Item
Fluid cannot be specified.

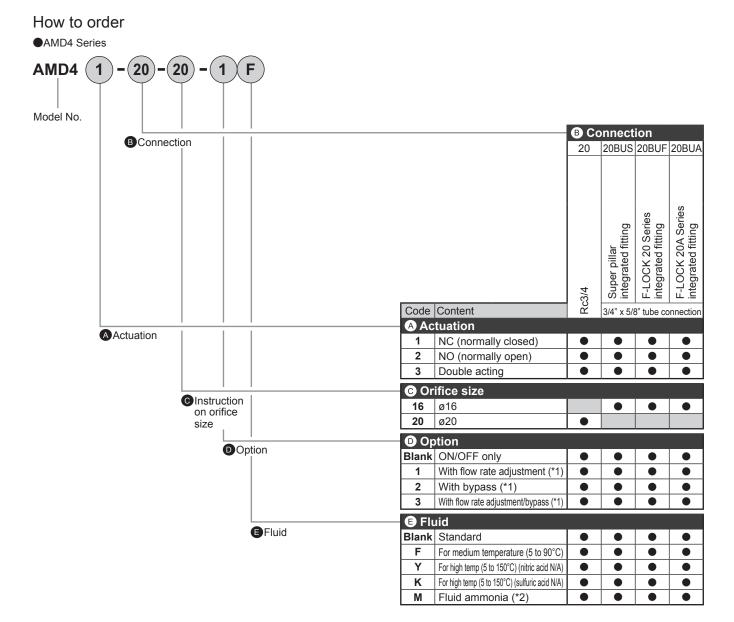
CKD

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

^{*2:} M and F can be specified together (FM), but Y and K cannot be specified together.

Discontinue







Precautions for model No. selection

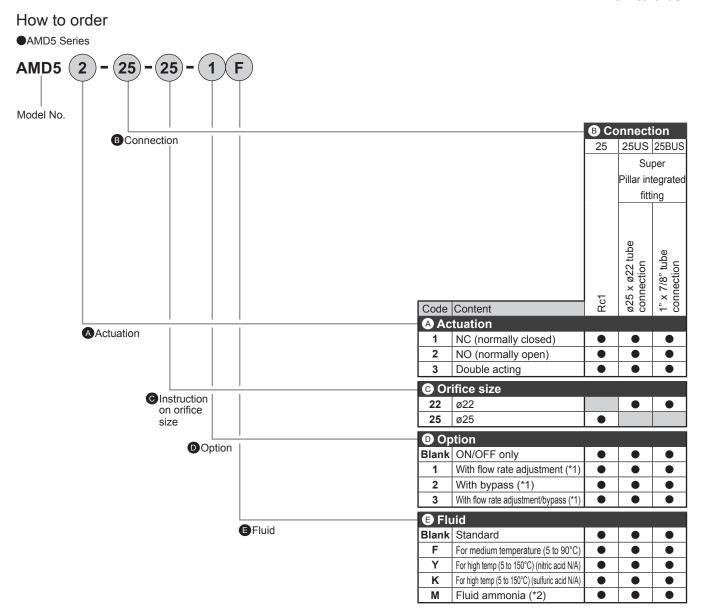
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Fluid cannot be specified.

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How to order

AND73R AMD0 AMD0*2 AMD3*2 SUS body AMD*1H AMD*1M ANG039R AMG00 AMG*02 GAMD*3R GAMD0*2A GAMD*22 specification





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CKD

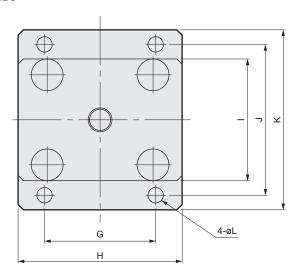
AMD disablests MMD*02 MMD*0H MMD*0M GMMD*02 MMD*0 TMD*02 FMD00 AMS AMDS regulator KML Others Related

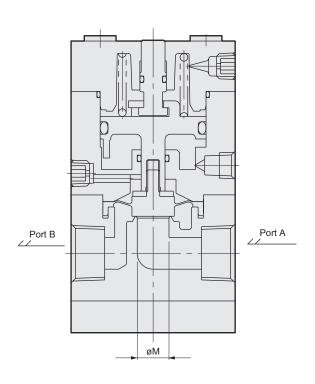
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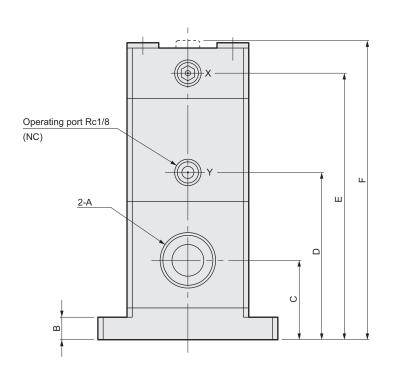
Dimensions

●ON/OFF only

- AMD2*
- AMD3*
- AMD4*
- AMD5*







Code Model No.	A	В	С	D	E	F	G	н	ı	J	К	L	М
AMD2*-10-8	Rc3/8	7	22	48	80	MAX 90	34	44	36	46	56	5.8	8
AMD3*-15-12	Rc1/2	8	30	64	101	MAX 113	42	62	46	57	68	5.8	12
AMD4*-20-20	Rc3/4	8	34	71	116	MAX 133	56	80	58	71	84	6.8	20
AMD5*-25-25	Rc1	10	39	85	141	MAX 160	70	88	68	85	100	6.8	25

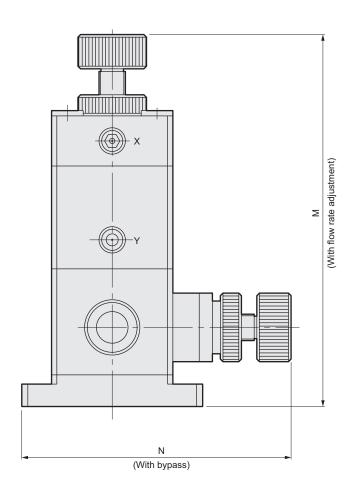
* Actuation

1	NC		
2	NO		
3	Double acting		

Dimensions

Dimensions

With flow rate adjustment/bypass



Code	М	N		
Model No.	IVI	IN		
AMD2*-10-8-1	MAX 111	-		
AMD3*-15-12-3	MAX 144	MAX 103		
AMD4*-20-20-3	MAX 162	MAX 130		
AMD5*-25-25-3	MAX 193	MAX 148		

* Actuation

1	NC
2	NO
3	Double acting