

# AMDZ\*3R Series



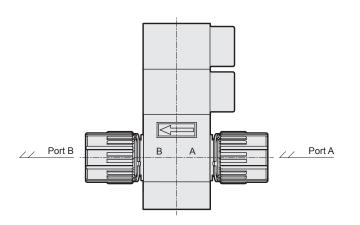


## **Specifications**

oposinoations						
Descriptions	Descriptions AMDZ*3R					
Working fluid		Pure water, chemical liquids, air, N <sub>2</sub> gas (*1)				
Fluid temperature	°C		5 to 120 (*2, *3)			
Proof pressure	MPa		1.0			
Working pressure (A→B)	MPa		0 to 0.5			
Working pressure (B→A)	MPa		0 to 0.5			
Valve seat leakage	cm <sup>3</sup> /min		0 (water pressure)			
Back pressure	MPa		0 to 0.5			
Ambient temperature	°C		0 to 60			
Frequency		30 times/min. or less				
Mounting orientation			Unrestricted			
		O.D.	1/8" tube connection (fitting integra	ited)		
Connection		O.D.	O.D. ø6 tube connection (fitting integrated)			
		O.D.	1/4" tube connection (fitting integra	ited)		
Orifice size	Orifice size ø2 ø4 ø3.5					
Cv	(*4)	0.07	0.25	0.22		
Operating Operating pressure	MPa	NC/NO: 0.4 to 0.5, double acting: 0.3 to 0.4				
section Operating port		Rc1/8 (operation ports	s used NC: port Y NO: port X Doub	le acting: ports X, Y)		

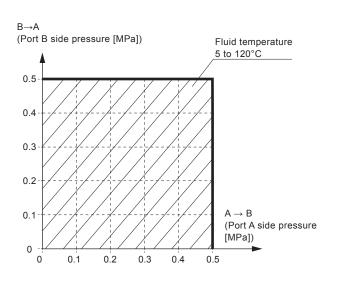
<sup>\*1:</sup> Check the compatibility of product structural materials, working fluids and atmosphere. (Refer to the compatibility check list on Intro Page 15.)
\*2: For hydrofluoric acid or chemical liquids containing hydrofluoric acid, use within the range of 5 to 80°C.

#### Structure and parts list



Part name	Material
Actuator	PVDF and others
Diaphragm	PTFE
Body	PFA, PTFE
Mounting plate	PVDF

# Working pressure





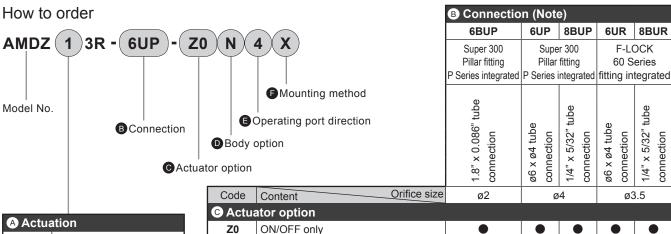
<sup>\*3: 5</sup> to 100°C when the connector is F-LOCK 60 Series fitting.

<sup>\*4:</sup> Cv when the temperature is 23°C.

**Body material** 

**PFA** 

**PTFE** 



A Actuation				
1 NC (normally closed)				
2 NO (normally open)				
3	Double acting			

Λ	
#	

Precautions for model No. selection

Note: Custom order product when fitting is F-LOCK60 Series. Contact CKD for other connection

1	3 🗍	above, ← indicates					
2		fluid flow direction and	•	•	•	•	•
3	_ {} <sup>1</sup>	operating port direction.	•	•	•	•	•
Mour	nting method						
X	Bottom mounting						

With valve viewed from

**PFA** 

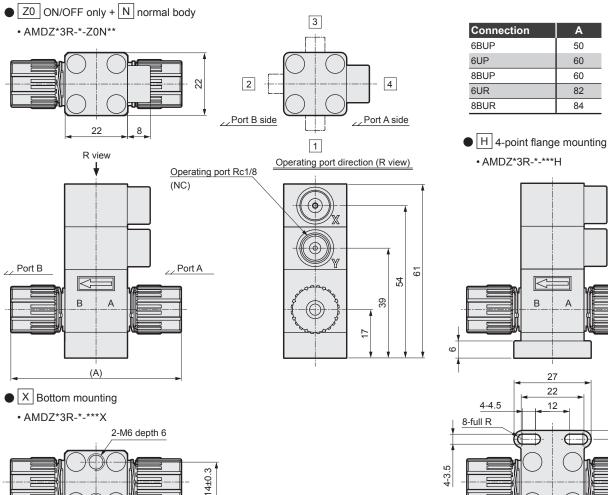
#### methods. н 4-point flange mounting

Body option

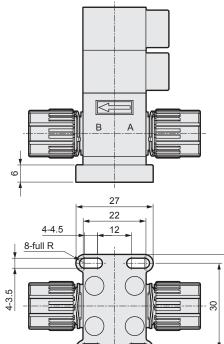
Normal body

Operating port direction

#### **Dimensions**



Connection	A
6BUP	50
6UP	60
8BUP	60
6UR	82
8BUR	84



CKD



# AMD0\*3R Series



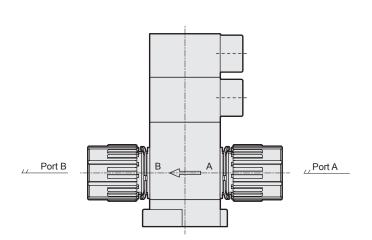


# Specifications

Description	ons	AMD0*3R					
Working flui	d		Chemical liquids, pure water, air, N2 gas (*1)				
Fluid temper	rature °C			5 to 120 (*3, *4)			
Proof press	ure MPa			1.0			
Working pressur	e (A→B) MPa			0 to 0.5			
Working pressur	e (B→A) MPa			0 to 0.5			
Valve seat le	eakage cm³/min			0 (water pressure)			
Back pressu	ure MPa			0 to 0.5			
Ambient tempe	erature °C			0 to 60			
Frequency				30 times/min. or less			
Mounting orier	ntation			Unrestricted			
Connection  O.D. ø6/ø8/ø10 tube connection (fitting integrated) O.D. 1/4" / 3/8" tube connection (fitting integrated)							
Orifice size	(*5)	ø3.5	ø4	ø6	ø7	ø8	
Cv	(*6)	0.28	0.34	0.64	0.7	0.8	
Operating	Operating pressure MPa		NC/NO: 0.	35 to 0.5 Double acting	g: 0.3 to 0.4		
section	Operating port	Rc1/s	Rc1/8 (operation ports used NC: port Y NO: port X Double acting: ports X, Y)				

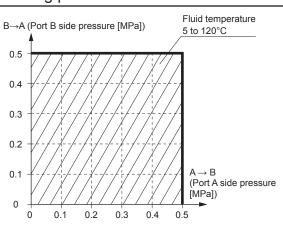
- \*1: Check the compatibility of product structural materials, working fluids and atmosphere. (Refer to the compatibility check list on Intro Page 15.)
- \*2: Refer to page 122 for flow characteristics.
- \*3: For hydrofluoric acid or chemical liquids containing hydrofluoric acid, use within the range of 5 to 80°C.
- \*4: 5 to 100°C when the connector is F-LOCK 60 Series fitting.
- \*5: Check the orifice size of each model in How to order.
- \*6: Cv when the temperature is 23°C.

#### Structure and parts list

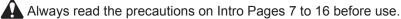


Part name	Material
Actuator	PVDF and others
Diaphragm	PTFE
Body	PFA, PTFE
Mounting plate	PVDF

## Working pressure

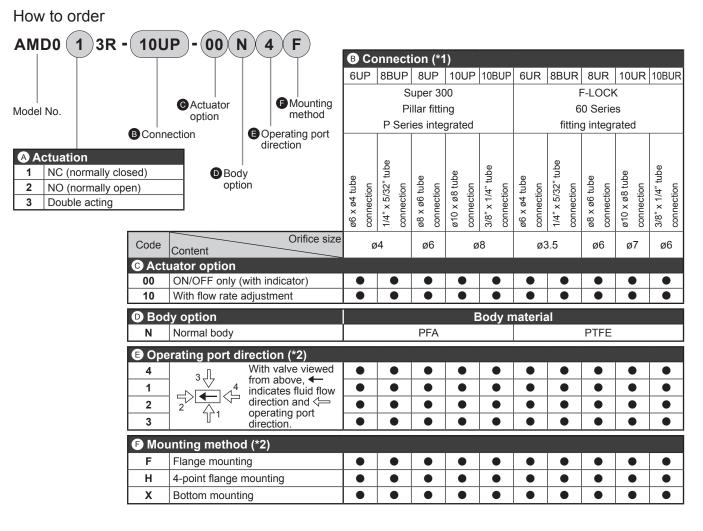






# AMD0\*3R Series

How to order





#### Precautions for model No. selection

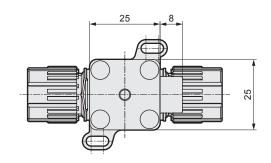
- \*1: Custom order product if F-LOCK60 Series fitting and body material are PTFE. Contact CKD for other connection methods.
- \*2: Refer to dimensions for operating port direction and mounting plate.
- \*3: Actuator sensor options: Contact CKD for types with sensors.

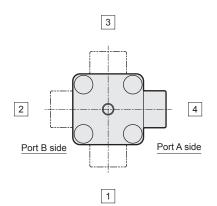
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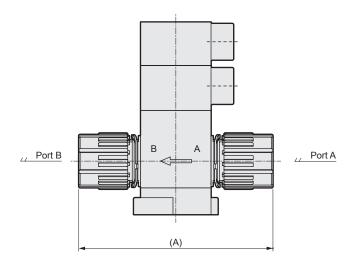
# AMD0\*3R Series

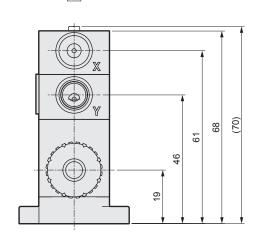
# Dimensions

- 00 ON/OFF only (with indicator)
  - AMD0\*3R- \*1 -00N\*\*





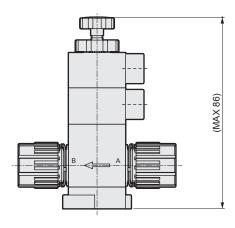


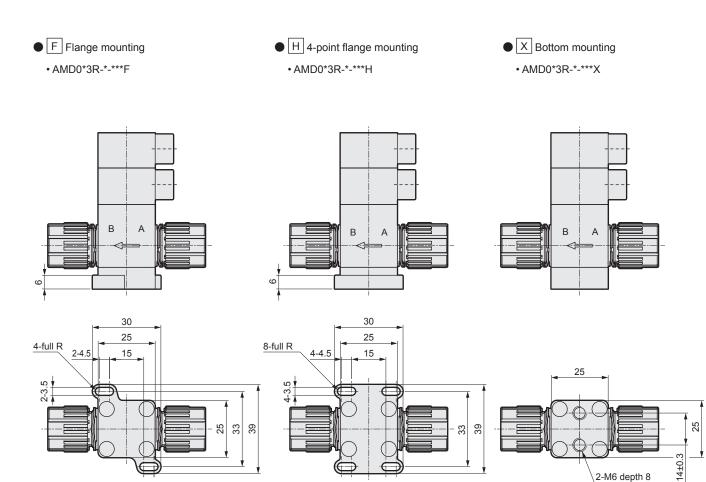


*1 (Connection)	Α
6UP	63
8BUP	63
8UP	69
10UP	75
10BUP	75
6UR	85
8BUR	87
8UR	87
10UR	99
10BUR	103

● 10 With flow rate adjustment • AMD0\*3R-\*-10N\*\*

**Dimensions** 





2-M6 depth 8



# AMD3\*3R Series



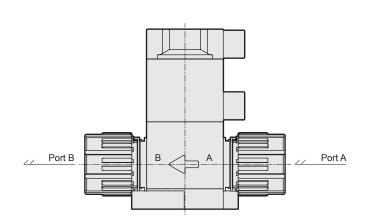


## **Specifications**

Description	ons			AMD3	*3R		
Body opti	ion	N	(normal body)		B (body with bypass)		
Working flu	id		Chemical liquids, pure water, air, N <sub>2</sub> gas (*1)				
Fluid tempe	rature °C	5	i to 120 (*3, *4)		5 to 90		
Proof press	ure MPa			1.0			
Working pressur	re (A→B) MPa		0 to 0.5		Refer to figure below for "\	Vorking pressure"	
Working pressur	re (B→A) MPa		0 to 0.5		Refer to figure below for "\	Vorking pressure"	
Valve seat le	eakage cm³/min	0 (water pressure)					
Back press	ure MPa	MPa 0 to 0.5 Refer to figure below for "Working pre				Vorking pressure"	
Ambient temp	erature °C		0 to 60 (0	to 50 when	sensor attached)		
Frequency			3	30 times/mir	n. or less		
Mounting orie	ntation			Unrestri	cted		
Connection					ction (fitting integrated) ction (fitting integrated)		
Orifice size	(*5)	ø6	ø7	ø8	ø9	ø10	
Cv	(*6)	0.7	1	1.25	1.6	1.8	
Bypass orifi	ice size		- ø2.3				
Operating	Operating pressure MPa	<u> </u>	NC/NO: 0.35 to 0.5 Double acting: 0.3 to 0.4				
section	Operating port	Rc	Rc1/8 (operation ports used NC: port Y NO: port X Double acting: ports X, Y)				
Sensor Refer to pages 20 and 21.							

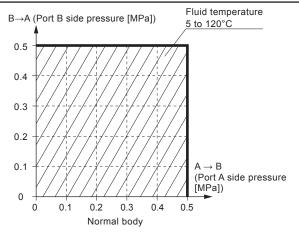
- \*1: Check the compatibility of product structural materials, working fluids and atmosphere. (Refer to the compatibility check list on Intro Page 15.) Body with bypass cannot be used for hydrofluoric acid or chemical liquids containing hydrofluoric acid.
- \*2: Refer to page 122 for flow characteristics.
- \*3: For hydrofluoric acid or chemical liquids containing hydrofluoric acid, use within the range of 5 to 80°C.
- \*4: 5 to 100°C when the connector is F-LOCK 60 Series fitting.
- \*5: Check the orifice size of each model in How to order.
- \*6: Cv when the temperature is 23°C.

#### Structure and parts list

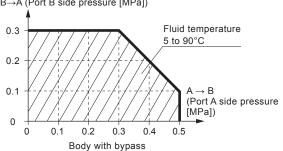


Part name	Material
Actuator	PVDF and others
Diaphragm	PTFE
Body	PFA, PTFE
Mounting plate	PVDF

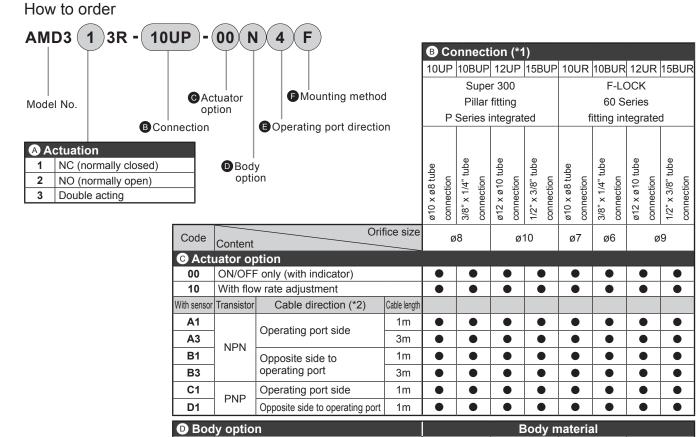
#### Working pressure



B→A (Port B side pressure [MPa])







N	Normal body	PFA	PFA	PTFE	PTFE		
В	Body with bypass	PTFE	PFA	PTFE	PTFE		
Оре	erating port direction (*2)						
4	With valve viewed from	• •	• •	• •	• •		
1	With valve viewed from above, ← indicates fluid	• •	• •	• •	• •		
2	flow direction and (=	• •	• •	• •	• •		
3	2 4/1 operating port direction.	• •	• •	• •	• •		
F Mounting method (*2)							
F	Flange mounting	• •	• •	• •	• •		
Н	4-point flange mounting	• •	• •	• •	• •		
Х	Bottom mounting	• •	• •	• •	• •		



#### Precautions for model No. selection

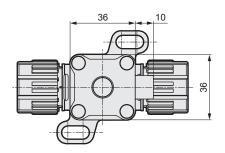
\*1: Custom order product if F-LOCK60 Series fitting and body material are PTFE. Contact CKD for other connection methods.

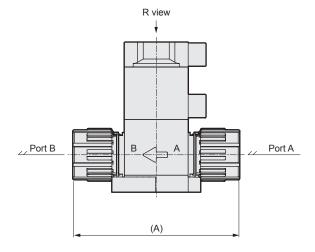
<sup>\*2:</sup> Refer to dimensions for operating port direction, sensor cable direction, and mounting plate.

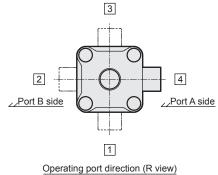
# AMD3\*3R Series

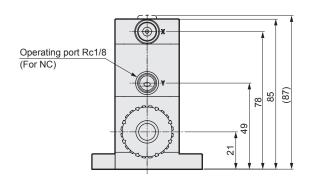
#### **Dimensions**

- 00 ON/OFF only (with indicator) + N normal body
  - AMD3\*3R- \*1 -00N\*\*



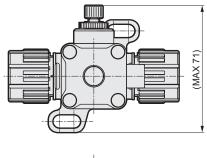


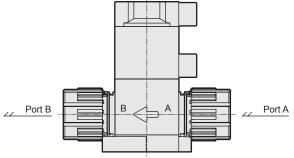


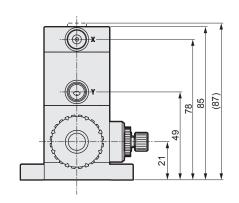


*1 (Connection)	Α
10UP	86
10BUP	86
12UP	94
15BUP	94
10UR	110
10BUR	114
12UR	110
15BUR	114

● 00 ON/OFF only (with indicator) + B body with bypass • AMD3\*3R-\*-00B\*\*



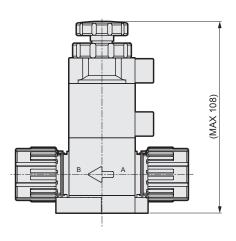


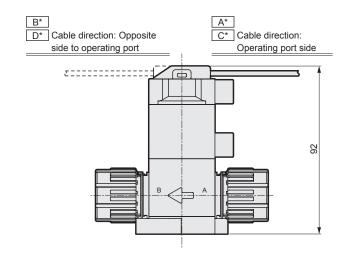


#### **Dimensions**

- With flow rate adjustment
  - AMD3\*3R-\*-10\*\*\*

A\* With sensor • AMD3\*3R-\*-<sup>B</sup><sub>C</sub> \*\*\*\* B\* C\* D\*

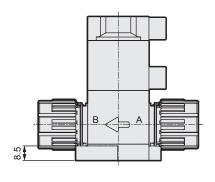


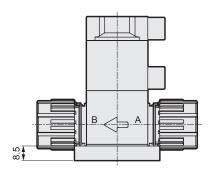


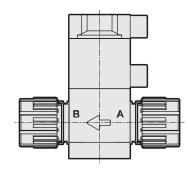
- Flange mounting
  - AMD3\*3R-\*-\*\*\*F

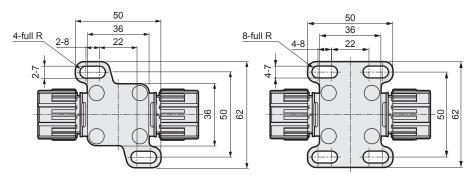
- H 4-point flange mounting
  - AMD3\*3R-\*-\*\*\*H

- X Bottom mounting
  - AMD3\*3R-\*-\*\*X











# AMD4\*3R Series





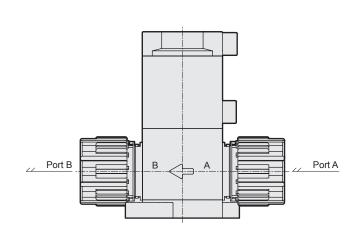
# **Export controlled items**

## **Specifications**

Description	ons	AMD	4*3R		
Body option		N (normal body)	B (body with bypass)		
Working flu	id	Chemical liquids, pure	water, air, N₂ gas (*1)		
Fluid tempe	rature °C	5 to 120 (*3, *4)	5 to 90		
Proof press	sure MPa	1	.0		
Working pressur	re (A→B) MPa	0 to 0.5	Refer to figure below for "Working pressure"		
Working pressur	re (B→A) MPa	0 to 0.5	Refer to figure below for "Working pressure"		
Valve seat le	eakage cm³/min	0 (water	pressure)		
Back pressure MPa		0 to 0.5	Refer to figure below for "Working pressure"		
Ambient temperature °C		0 to 60 (0 to 50 whe	0 to 60 (0 to 50 when sensor attached)		
Frequency		20 times/n	20 times/min. or less		
Mounting orie	ntation	Unres	Unrestricted		
Connection		O.D. 3/4" tube connec	ction (fitting integrated)		
Orifice size	(*5)	ø15	ø16		
Cv	(*6)	4.5	5		
Bypass orifi	ice size	-	ø6		
Operating	Operating pressure MPa	NC/NO: 0.35 to 0.5 Do	Double acting: 0.3 to 0.4		
section	Operating port	Rc1/8 (operation ports used NC: port )	Rc1/8 (operation ports used NC: port Y NO: port X Double acting: ports X, Y)		
Sensor		Refer to page	Refer to pages 20 and 21.		

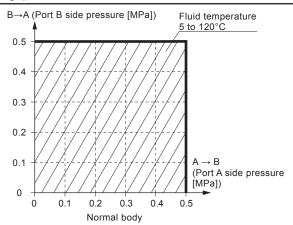
<sup>\*1:</sup> Check the compatibility of product structural materials, working fluids and atmosphere. (Refer to the compatibility check list on Intro Page 15.) Body with bypass cannot be used for hydrofluoric acid or chemical liquids containing hydrofluoric acid.

# Structure and parts list

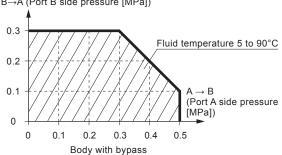


Part name	Material
Actuator	PVDF and others
Diaphragm	PTFE
Body	PFA, PTFE
Mounting plate	PVDF

## Working pressure



B→A (Port B side pressure [MPa])





<sup>\*2:</sup> Refer to page 122 for flow characteristics.

<sup>\*3:</sup> For hydrofluoric acid or chemical liquids containing hydrofluoric acid, use within the range of 5 to 80°C.

<sup>\*4: 5</sup> to 100°C when the connector is F-LOCK 60 Series fitting.

<sup>\*5:</sup> Check the orifice size of each model in How to order.

<sup>\*6:</sup> Cv when the temperature is 23°C.

How to order					
AMD4 (1)3R - (20BUP)- (0	0 N	4 (F)			
		$\Upsilon$		B Connection (*1)	
Model No B Connection		Mounting method		20BUP	20BUR
Model No. CActu	ıator			Super 300	F-LOCK
opti				Pillar fitting P Series integrated	60 Series fitting integrated
A Actuation	<b>B</b>	Operating port direction		r Series integrated	illling integrated
1 NC (normally closed)	-			90	9 0
Z (NO (normally open)	Body option			3/4" x 5/8" tube connection	3/4" x 5/8" tube connection
3 Double acting	орион			x 5/8	× 5/8 nnec
				3/4" co	3/4"
					.,
Code			ice size	ø16	ø15
	Content				
00	ON/OFF only (with indicator)				
10			•	•	
	or Transistor		Cable length		
A1	or manoroto.	Operating port side	1 m	•	•
A3	<b>-</b>		3 m	•	•
B1	NPN	Opposite side to	1 m	•	•
B3		operating port	3 m	•	•
C1	PNP	Operating port side	1 m	•	•
D1	PNP	Opposite side to operating port	1 m	•	•
<b>①</b> Bo	dy optio	n		Body n	naterial
N	Normal			PFA	PTFE
В	Body w	ith bypass		PFA	PTFE
<b>G</b> Or	erating				
4				•	•
1	3 1	With valve viewed f	rom s fluid	•	•
2	75/4	above, ← indicate flow direction and <		•	•
3	7 <sup>-</sup> 1	operating port direc	tion.	•	•
(P) Mo	ounting r	nethod (*2)			



# A Precautions for model No. selection

F

Н

Х

- \*1: Custom order product when fitting is F-LOCK60 Series. Contact CKD for other connection methods.
- \*2: Refer to dimensions for operating port direction, sensor cable direction, and mounting plate.

Flange mounting

Bottom mounting

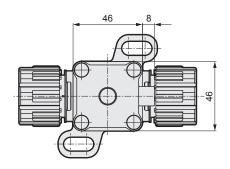
4-point flange mounting

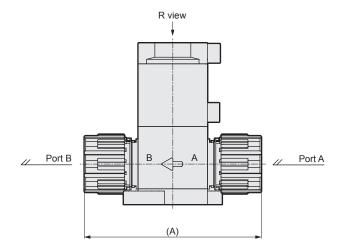
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# AMD4\*3R Series

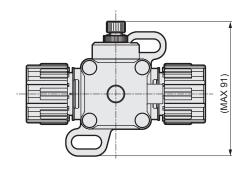
#### **Dimensions**

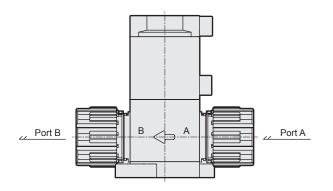
- 00 ON/OFF only (with indicator) + N normal body
  - AMD4\*3R- \*1 -00N\*\*

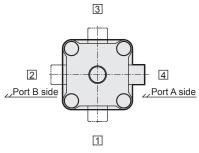




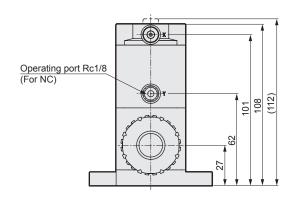
- 00 ON/OFF only (with indicator) + B body with bypass
  - AMD4\*3R-\*-00B\*\*



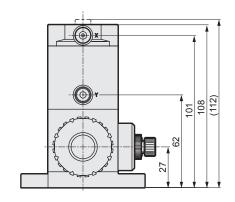




Operating port direction (R view)



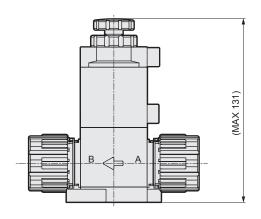
*1 (Connection)	Α
20BUP	118
20BUR	134

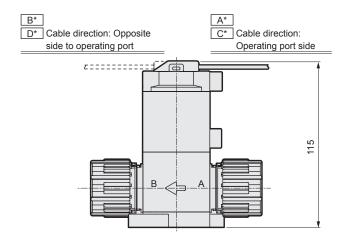


#### **Dimensions**

- With flow rate adjustment
  - AMD4\*3R-\*-10\*\*\*

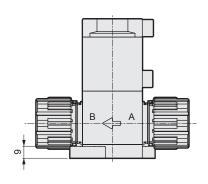
A\* With sensor • AMD4\*3R-\*-<sup>B</sup><sub>C</sub> \*\*\*\* B\* C\* D\*

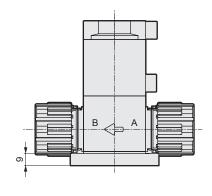


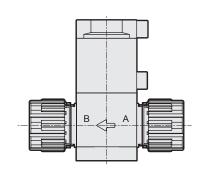


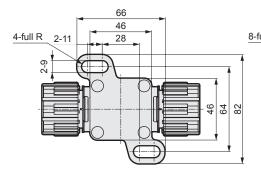
- Flange mounting
  - AMD4\*3R-\*-\*\*\*F

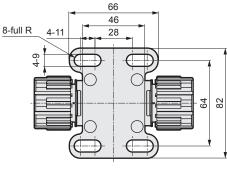
- H 4-point flange mounting
  - AMD4\*3R-\*-\*\*\*H
- X Bottom mounting
  - AMD4\*3R-\*-\*\*X













# AMD5\*3R Series





**Export controlled items** 

## **Specifications**

Description	ons	AMD5*3R			
Body option		N (normal body)	B (body with bypass)		
Working flu	id	Chemical liquids, pure	e water, air, N₂ gas (*1)		
Fluid tempe	rature °C	5 to 120 (*3, *4)	5 to 90		
Proof press	ure MPa	1	.0		
Working pressur	re (A→B) MPa	0 to 0.5	Refer to figure below for "Working pressure"		
Working pressur	re (B→A) MPa	0 to 0.5	Refer to figure below for "Working pressure"		
Valve seat le	eakage cm³/min	0 (water	pressure)		
Back pressure MPa		0 to 0.5	Refer to figure below for "Working pressure"		
Ambient temperature °C		0 to 60 (0 to 50 whe	0 to 60 (0 to 50 when sensor attached)		
Frequency		20 times/n	20 times/min. or less		
Mounting orie	ntation	Unres	Unrestricted		
Connection			O.D. ø25 tube connection (fitting integrated) O.D. 1" tube connection (fitting integrated)		
Orifice size		Ø2	ø20		
Cv	(*5)	8	8		
Bypass orifi	ice size	-	ø6		
Operating	Operating pressure MPa	NC/NO: 0.35 to 0.5 Do	NC/NO: 0.35 to 0.5 Double acting: 0.3 to 0.4		
section	Operating port	Rc1/8 (operation ports used NC: port \	Rc1/8 (operation ports used NC: port Y NO: port X Double acting: ports X, Y)		
Sensor		Refer to page	Refer to pages 20 and 21.		

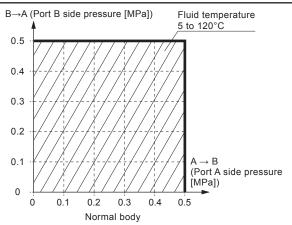
<sup>\*1:</sup> Check the compatibility of product structural materials, working fluids and atmosphere. (Refer to the compatibility check list on Intro Page 15.) Body with bypass cannot be used for hydrofluoric acid or chemical liquids containing hydrofluoric acid.

## Structure and parts list

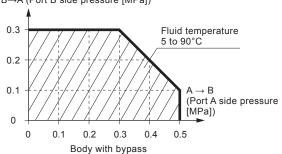
# Port A Port B

Part name	Material		
Actuator	PVDF and others		
Diaphragm	PTFE		
Body	PFA, PTFE		
Mounting plate	PVDF		

## Working pressure



B→A (Port B side pressure [MPa])





<sup>\*2:</sup> Refer to page 122 for flow characteristics.

<sup>\*3:</sup> For hydrofluoric acid or chemical liquids containing hydrofluoric acid, use within the range of 5 to 80°C.

<sup>\*4: 5</sup> to 100°C when the connector is F-LOCK 60 Series fitting.

<sup>\*5:</sup> Cv when the temperature is 23°C.

How	to o	rder				
AM	D5 (	1 3R - 25BU	P-00	N	4 F	B Conn
					Mounting method	25UP
Mode	l No.	<b>B</b> Conne	ction		- Mountaing mounda	Su
			Actuator			Pilla
			option			P Serie
A A	ctuatio	on		<b>B</b> 0	perating port direction	
1	NC (no	ormally closed)				
2	NO (no	ormally open)	<b>D</b> B0	dy op	tion	g e
3	Double	e acting	1			tul tul
	•		4			( ø22 tube

B Connec	ction (*1)			
25UP	25BUP	25UR	25BUR	
Supe	r 300	F-L0	OCK	
Pillar	fitting	60 S	eries	
P Series i	ntegrated	fitting in	tegrated	
ø25 x ø22 tube connection	1" x 7/8" tube connection	ø25 x ø22 tube connection	1" x 7/8" tube connection	

Code	Content		fice size	ge ø20			
Actu	uator op	otion					
00	ON/OFF	only (with indicator)		•	•	•	•
10	With flow	w rate adjustment		•	•	•	•
With sensor	Transistor	Cable direction (*2)	Cable length				
A1		Operating part aids	1 m	•	•	•	•
A3	NPN	Operating port side	3 m			•	•
B1	INPIN	Opposite side to	1 m	•	•	•	•
В3		operating port	3 m	•	•	•	•
C1	DND	Operating port side	1 m	•	•	•	•
D1	PNP Opposite side to operating		1 m	•	•	•	•

Body option		Body material			
N	Normal body	PFA PTF			
В	Body with bypass	PTFE			
0.0 (1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.					

Оре	rating port d	irection (*2)				
4	3 [	Mith wal to diamed from	•	•	•	•
1	With valve viewed from above, indicates fluid flow direction and	•	•	•	•	
2		•	•	•	•	
3	] ]	operating port direction.	•	•	•	•

F Mounting method (*2)									
F	Flange mounting	•	•	•	•				
Н	4-point flange mounting	•	•	•	•				
Х	Bottom mounting	•	•	•	•				



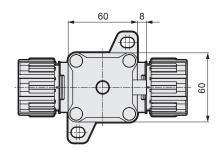
# 🛕 Precautions for model No. selection

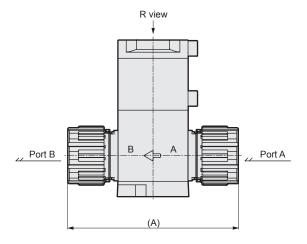
- \*1: Custom order product if F-LOCK60 Series fitting and body material are PTFE. Contact CKD for other connection methods.
- \*2: Refer to dimensions for operating port direction, sensor cable direction, and mounting plate.

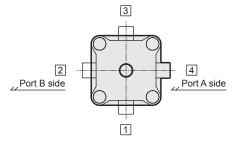
# AMD5\*3R Series

#### **Dimensions**

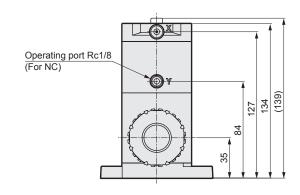
- 00 ON/OFF only (with indicator) + N normal body
  - AMD5\*3R- \*1 -00N\*\*





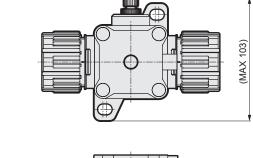


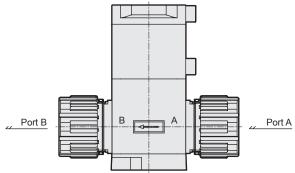
Operating port direction (R view)

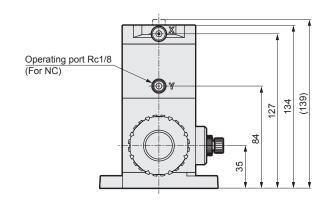


*1 (Connection)	Α	
25UP	146	
25BUP	146	
25UR	159	
25BUR	162	

- lacktriangledown ON/OFF only (with indicator) + lacktriangledown body with bypass
  - AMD5\*3R-\*-00B\*\*



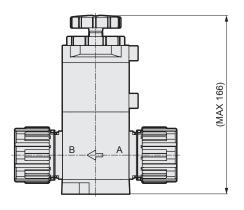




#### **Dimensions**

- With flow rate adjustment
  - AMD5\*3R-\*-10\*\*\*

A\* With sensor • AMD5\*3R-\*-<sup>A</sup>CD \*\*\*\* B\* C\* D\*



A\*

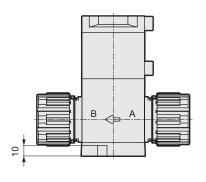
C\* Cable direction: B\*

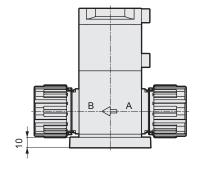
D\* Cable direction: Opposite side to operating port Operating port side 141

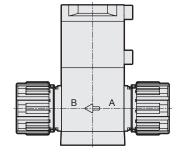
- Flange mounting
  - AMD5\*3R-\*-\*\*\*F

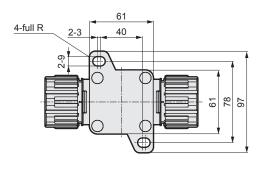
- H 4-point flange mounting
  - AMD5\*3R-\*-\*\*\*H

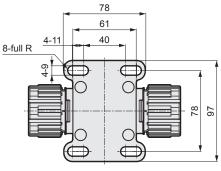
- X Bottom mounting
  - AMD5\*3R-\*-\*\*X











# AMD<sup>3</sup><sub>5</sub>\*3R Series

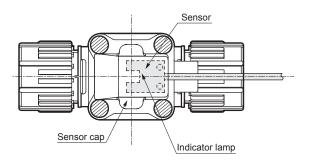
## [Sensor specifications]

Actuator option code	A1, B1	A3, B3	C1, D1		
Sensor	Micro photo sensor PM-25 Series (Panasonic Devices SUNX Co., Ltd.)				
	NPN transistor/open collector		PNP transistor/open collector		
Switch output	Max. inrush current 50 mA		Max. outflow current 50 mA		
Switch output	Applied voltage 30 VDC or less (between output and 0 V)		• Applied voltage 30 VDC or less (between output and +V)		
	Residual voltage: 2V or less		Residual voltage: 2V or less		
Indicator lamp	Orange LED				
Power supply voltage	5 to 24 VDC ±10% ripple P-P 10% or less				
Current consumption	15 mA or less				
Operating ambient temperature	0 to 50°C (no condensation or freezing)				
Operating ambient humidity	5% to 85% RH, when stored: 5% to 95% RH				
Operating ambient illumination	Fluorescent light: light-receiving surface luminance 1000 Lx or less				
Withstand voltage	1000 VAC for 1 minute applied to all charged sections/between cases				
Insulation resistance 20 MΩ and over with 250 VDC megger all charged sections/b			er all charged sections/between cases		
Material	Case: PBT, display: polycarbonate				
Cable type	0.09 mm <sup>2</sup> 4-conductor cabtyre cable (*3, *4)				
Cable length (*12)	1 m	3 m	1 m		

- \*1: Since the output is not equipped with a short circuit protection circuit, perform connections carefully.

  Do not directly connect power or capacity loads. Incorrect wiring could result in damage.
- \*2: Be sure to insulate unused output lines.
- \*3: It cannot be used in movable parts.
- \*4: Cable extension is possible, but extending the cable will cause voltage drop. Ensure that the supply voltage of the supplied sensor cable end is within the specified rating.
- \*5: Never use this product in an explosive gas atmosphere. The sensor does not have an explosive-proof structure. Never use in an explosive gas atmosphere as explosions or fires could result.
- \*6: The sensor does not have a dust-proof or drip-proof structure.
  - It cannot be used in high steam and dusty environments or in direct contact with water, chemicals, etc. or in an atmosphere such as corrosive gas.
- \*7: No special ambient light countermeasures have been taken. Take care that light does not contact the sensor light-receiving unit.
- \*8: Avoid using in a transient state (50 ms) after power is turned ON.
- \*9: Contact CKD if the sensor needs to be replaced.
- \*10: Do not apply tensile strength to the cable. Failure to observe this could result in disconnection, damage, or malfunction.
- \*11: Do not remove the sensor or sensor cap.
- \*12: Contact CKD for cables longer than 1 m or 3 m.
- \*13: Refer to the most recent manufacturer's catalog upon use.





Valve operation and sensor operation

	Valve operation			At OPEN
	Detector		Light reception	Light shielding
Sensor	Indicator lamp		ON	OFF
Selisui	Output 1	Lead wire color: Black	Output ON	Output OFF
	Output 2	Lead wire color: White	Output OFF	Output ON

