

Air-Operated Valve for Chemical Liquids

LMD^{*¹}₃ Series

• Orifice: ø4, ø6.3, ø8, ø10, ø16, ø20



Subject to Export Trade Control Ordinances

* For those with Orifice ø16 and ø20

Specifications

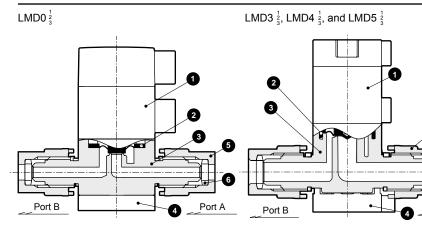
Descriptions													
Working fluid		Chei	mical liquids, pure v	vater, air, N₂ gas (No	te 1)								
Fluid temperature °C			5 to	60°C									
Proof pressure MPa													
Working pressure (A→B) MPa See the figure "Working pressure" (below)													
Working pressure (B→A) MPa	v)												
Valve seat leakage cm ³ /min 0 (under water pressure)													
Ambient temperature °C		0 to 60											
Frequency	ncy 30 times/min or less 20 times/mi												
Mounting orientation	Free												
	FIT-ONE fitting made by BUENO TECHNOLOGY CO., LTD.												
Connection	1/4" × 5/32"	2/0// 4/4//	~10 ~0	1/2" × 3/8"	0/4# w E/0#	1" × 7/8"							
	ø6 × ø4	3/8" × 1/4"	ø10 × ø8	ø12 × ø10	3/4" × 5/8" ø25 × ø								
Orifice size	ø4	ø4 ø6.3 ø8		ø10	ø16	ø20							
Cv	0.32	0.8	1.25	1.8	5.0	8.0							
Operation Operating pressure MPa		NC 0.35 to 0.5, NO 0.4 to 0.5, double acting 0.35 to 0.4											
section Operation pressure connection port	R	Rc1/8 (used operation port NC: port Y NO: port X double acting: ports X and Y)											

Note 1: Check compatibility between the material of each component and the working environment of the working fluid. (Refer to page 12 of the compatibility check list.)

Note 2: Refer to page 6 for flow characteristics.

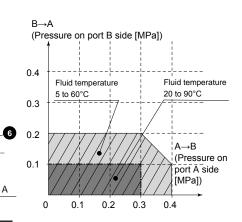
Note 3: The Cv shown is the one at 23°C.

Internal structure and parts list



Working pressure

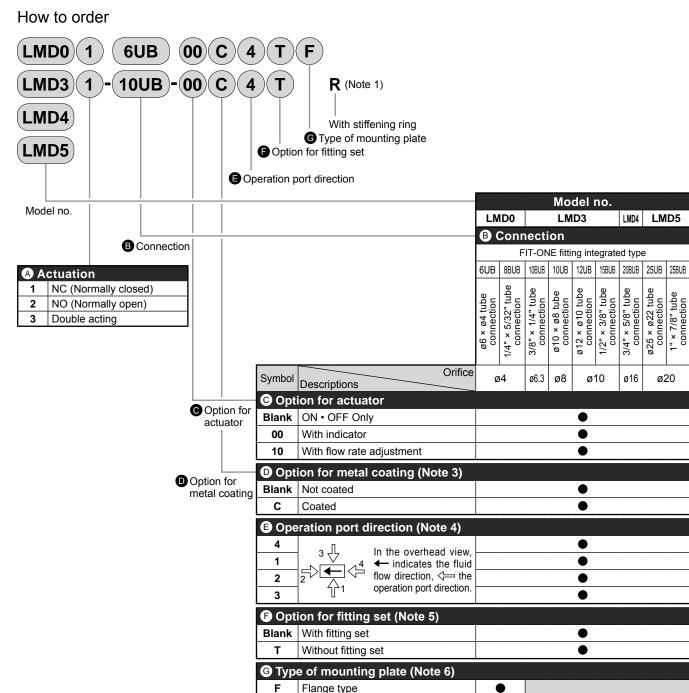
Port A



No.	Parts name	Material	No.	Parts name	Material
1	Actuator	PPS, etc.	1	Actuator	PPS, etc.
2	Diaphragm	PTFE	2	Diaphragm	PTFE
3	Body	PFA	3	Body	PFA
4	Mounting plate	PP	4	Mounting plate	PP
5	Union nut	PFA	5	Union nut	PFA
6	Impact ring	PVDF	6	Impact ring	PVDF

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LMD^{*2}₃ Series How to order



A Note on model no. selection

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Bottom surface installation type

Note 1: Precautions for operation port, stiffening ring and piping

Stiffening ring can be omitted by leaving this section blank. However, metal and PPS fittings should not be used.

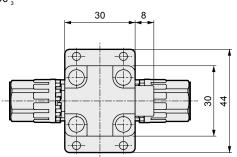
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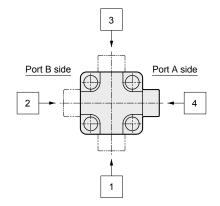
- Piping on an operation port may cause a crack of the port or damage on the screw. Keep the tightening force within 0.4 to 0.6 N·m.
- Note 2: "LMD0" does not support the stiffening ring.
 - For undiluted hydrochloric acid or hydrofluoric acid, use the AMD series because they are especially dangerous.
- Note 3: If working fluid is corrosive fluid, select the metal coating option "Coated". For undiluted hydrochloric acid or hydrofluoric acid, use the AMD series which is suitable for those liquid, because they are especially dangerous.
- Note 4: Refer to "Dimensions" for the operation port direction.
- Note 5: If "Without fitting set" is selected, a union nut and impact ring are attached. Please purchase the item individually.
- Note 6: Only "LMD0" is available for mounting plate selection.

LMD0¹/₃ Series

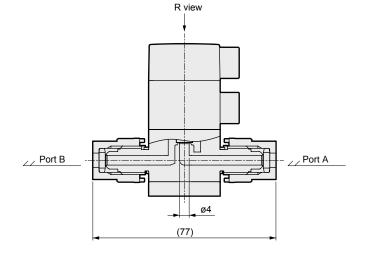
Dimensions

- Blank ON/OFF only, LMD0*-*-*4*F flange installation
 - LMD0 ¹/₂

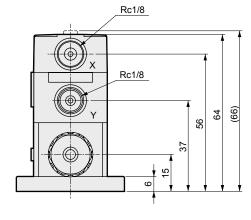




• 00 With indicator: LMD0*-*-00*4*F flange installation

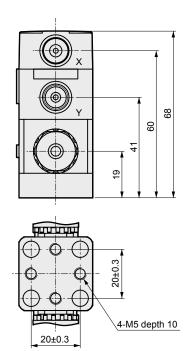


● 10 With flow rate control: LMD0*-*-10*4*F



LMD0*-*-*4*X

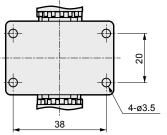
Bottom surface installation



œ **MAX 81** ۲ 2 56 37 15 ധ φ ¢

* For "Bottom surface installation", total height will be higher than "flange installation" by 4mm.

flange installation

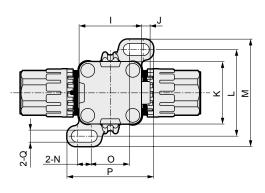


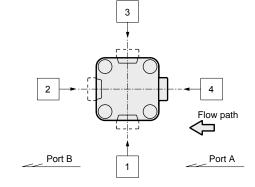
CKD

Dimensions

● Blank ON • OFF Only, LMD**-*-*4*R

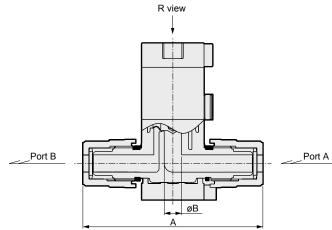
 $LMD3^{1}_{3}$, $LMD4^{1}_{3}$



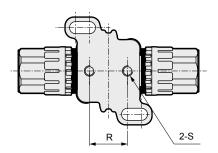


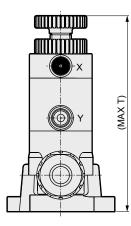
Operation port direction (R view)

• 00 With indicator: LMD**-*-00*4*R



- 10 With flow rate adjustment: LMD**-*-10*4*R





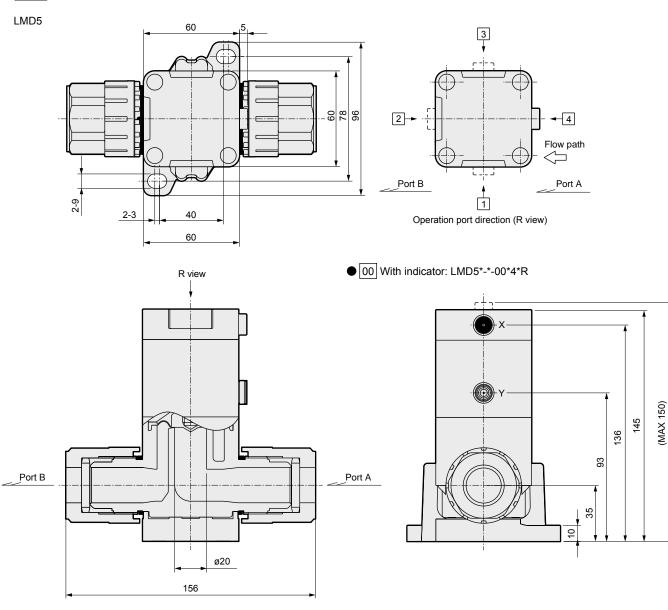
Model	Connected model number	Α	В	С	D	Е	F	G	Н	I	J	Κ	L	Μ	Ν	0	Р	Q	R	S	Т
LMD3	10BUB	94	6.3	8.5 21		1	0.4	01		07	4.5	27	50	62		22	50	7	00.00	M6 depth 9	110
	10UB	94	8		01	54															
	12UB	104	10		21 34	84	91	94	37	4.5	37	50	02	8	22	50	'	22±0.3			
	15BUB																				
LMD4	20BUB	129	16	9	27	73	110	119	123	46	5	46	64	82	11	28	66	9	28±0.3	M8 depth 10	143

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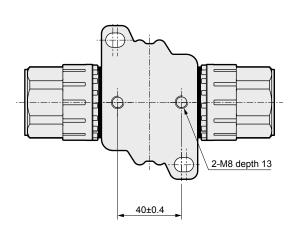
LMD5¹/₂ Series

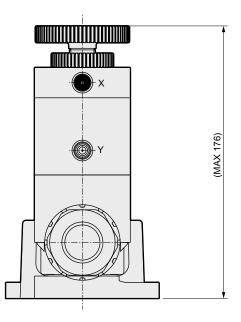
Dimensions

● Blank ON • OFF Only, LMD5*-*-*4*R



● 10 With flow rate adjustment: LMD5*-*-10*4*R





CKD

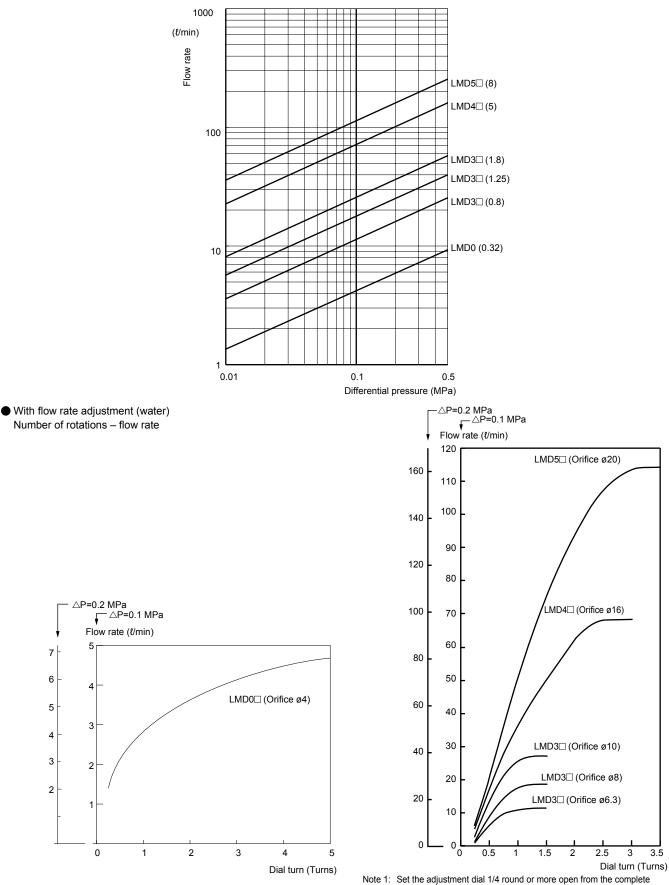
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Flow characteristics

LMD3 to LMD5

Flow characteristics (water)

Differential pressure - flow rate in (): Cv value



vote 1: Set the adjustment dial 1/4 round or more open from the complete closed position. Using the product with less opening may cause vibration or fluctuation in flow rate depending on the working conditions.

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