

Fine regulator (manual)

PYM Series

Stainless steel body
Regulator for air, N₂ gas and pure water

● Connection: Rc1/8", 1/4"



Specifications

Item	PYM10-6	PYM10-8
Working fluid	Pure water, N ₂ gas, air (*3)	
Fluid temperature °C	5 to 60	
Proof pressure MPa	1.5	
Max. working pressure MPa	0.99	
Set pressure MPa	0.02 to 0.2 (*2)	
Ambient temperature °C	0 to 60	
Mounting orientation	Unrestricted	
Port size and gauge port size	Rc1/8	Rc1/4
Weight kg	0.77	

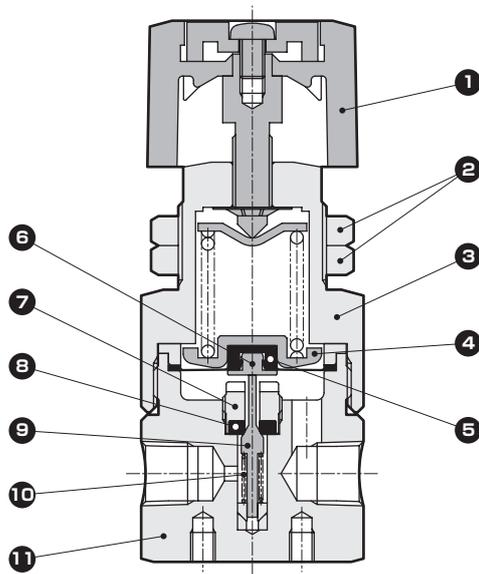
*1: Wetted parts material: PTFE, SUS316, Non-relief

*2: Set pressure range of 0.02 to 0.4 MPa is also available. Contact CKD for details.

*3: Cannot be used with acidic fluids.

*4: Check the compatibility of product structural materials, working fluids and atmosphere.

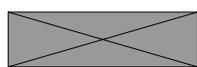
Internal structure and parts list



Part No.	Part name	Material
1	Pressure adjustment knob	ABS
2	Lock nut	SUS304
3	Cover	C3604 (nickel-phosphorus plating)
4	Spring rest	SUS304
5	Diaphragm	PTFE
6	Diaphragm retainer	SUS316
7	Valve disk holder	SUS316
8	Valve disc	PTFE
9	Valve	SUS316
10	Spring	SUS316
11	Body	SUS316

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

How to order



Model No.

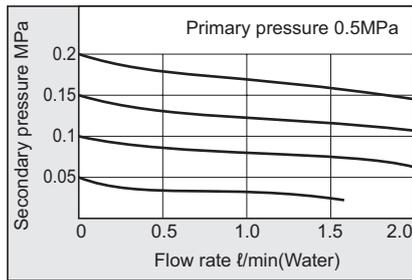
① Port size

① Port size	
6	Rc1/8
8	Rc1/4

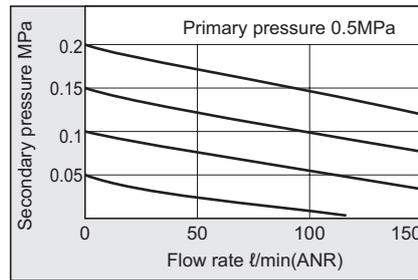
⚠ Always read the precautions on Intro Pages 7 to 14 before use.

Flow characteristics / Pressure characteristics

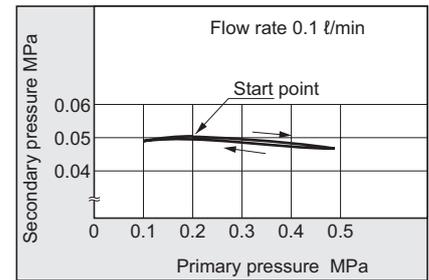
Flow characteristics (water)



Flow characteristics (air)

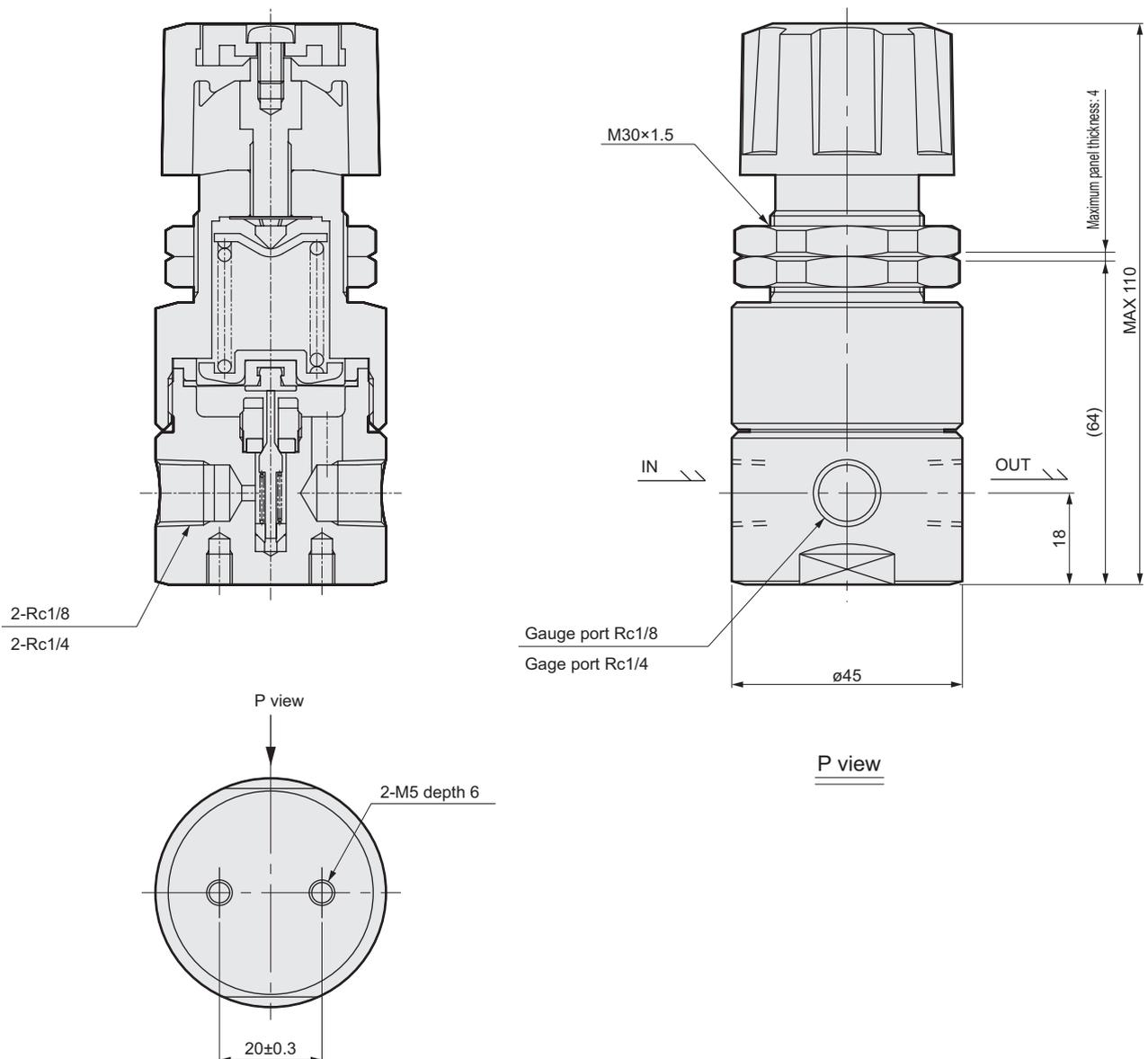


Pressure characteristics (water)



Dimensions

- PYM10-6 (Rc1/8)
- PYM10-8 (Rc1/4)



How to use

- Set the temperature, pressure, flow rate and other use conditions within the specification range of the product.
- If the product will be out of use for long periods, stop the supply pressure on the primary side.
- This product is a non-relief-type, and if used with the secondary side closed, it may retain the high pressure generated by water hammer, etc.
- Do not use as a residual pressure exhaust valve.

Part3R	Part2	Part1	Air operated valve	High pressure	Metals-free size	Large bore size	Polyvinyl chloride	Drainage	Part3RN	Part2	Manual valve	High pressure	Metals-free size	Large bore size	Single unit	Air operated integrated	Regulator	Manual	Electric	Manual	Manual Fine flow rate	Flow rate adjusting valve	Fine level Switch	Related products
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Fine regulator (manual)

PMM20 Series

Pressure reducing valve for pure water with all fluoroplastic wetted parts

- Connection tube size: $\varnothing 8$, $\varnothing 10$, $3/8''$



Specifications

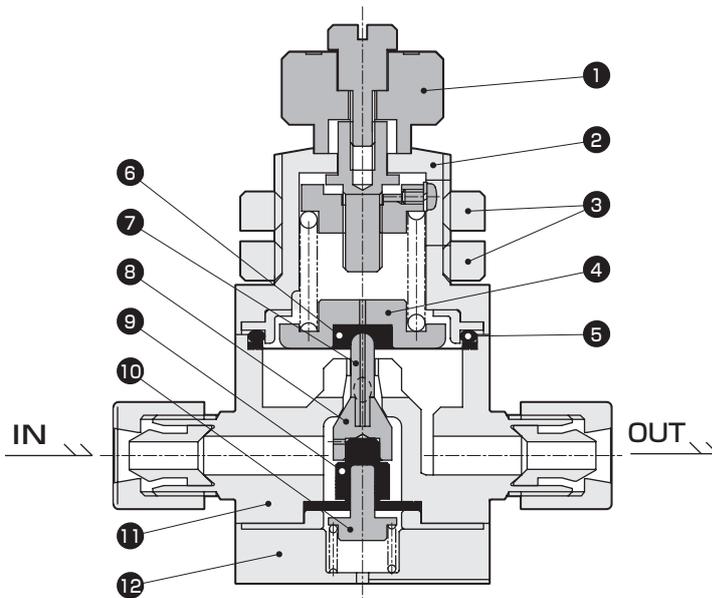
Item	PMM20	
Working fluid	Pure water	
Fluid temperature	°C	5 to 80
Proof pressure	MPa	0.75
Max. working pressure	MPa	0.5
Set pressure	MPa	0.02 to 0.2 (*3)
Ambient temperature	°C	0 to 60
Mounting orientation	Unrestricted	
Connection	O.D. $\varnothing 10$ tube connection (integrated fitting) O.D. $3/8''$ tube connection (integrated fitting)	
Weight	kg	0.42

*1: Non-relief

*2: Panel mounting is also available.

*3: The set pressure range 0.05 to 0.4 MPa can be handled by adding "-H" at the end of the model number. (The fluid temperature will be 5 to 40°C) Contact CKD for details.

Internal structure and parts list



Part No.	Part name	Material
1	Pressure adjustment knob	PP
2	Cover	PP
3	Lock nut	PP
4	Spring rest	SUS304
5	O-ring	FKM
6	Diaphragm	PTFE
7	Stem	PCTFE
8	Valve	PTFE
9	Bellows	PTFE
10	Rod	SUS304
11	Body	PFA
12	Bottom plate	PP

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

How to order



Model No. ① Connection

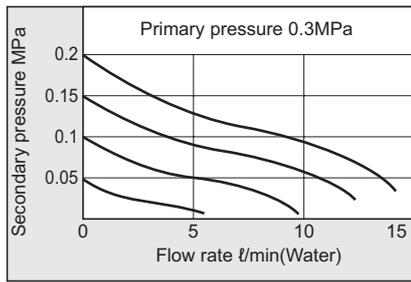
Description	① Connection											
	8US	10US	10BUS	10UP	10BUP	10UA	10BUA	10UR	10BUR	10UK	10BUK	10BUW
	Super Type Pillar fitting Integrated			Super 300 Pillar fitting P series integrated		F-LOCK 20A Series Integrated fitting		F-LOCK 60 Series Integrated fitting		Final Lock Fitting Integrated		Flaretek Fitting Integrated
	$\varnothing 8$ x $\varnothing 6$ tube connection	$\varnothing 10$ x $\varnothing 8$ tube connection	$3/8''$ x $1/4''$ tube connection	$\varnothing 10$ x $\varnothing 8$ tube connection	$3/8''$ x $1/4''$ tube connection	$\varnothing 10$ x $\varnothing 8$ tube connection	$3/8''$ x $1/4''$ tube connection	$\varnothing 10$ x $\varnothing 8$ tube connection	$3/8''$ x $1/4''$ tube connection	$\varnothing 10$ x $\varnothing 8$ tube connection	$3/8''$ x $1/4''$ tube connection	$3/8''$ x $1/4''$ tube connection
Body material	PFA			PTFE		PTFE		PTFE		PTFE		PTFE

* Machined PTFE products will be manufactured on a per-order basis.

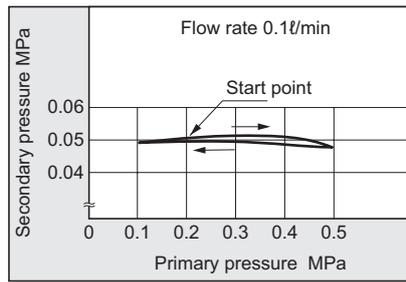
⚠ Always read the precautions on Intro Pages 7 to 14 before use.

Flow characteristics / Pressure characteristics

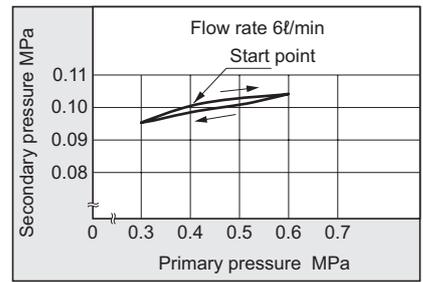
Flow characteristics (water)



Pressure characteristics 1 (water)

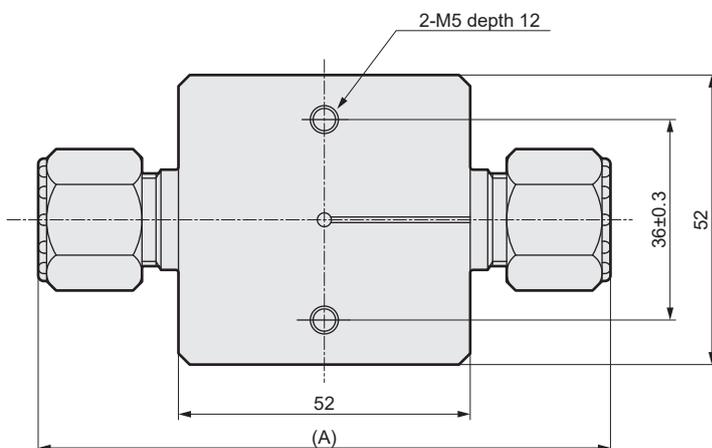
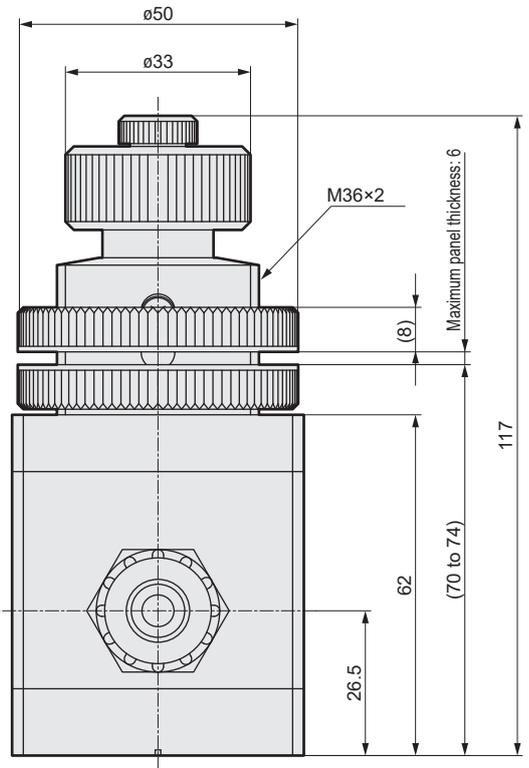
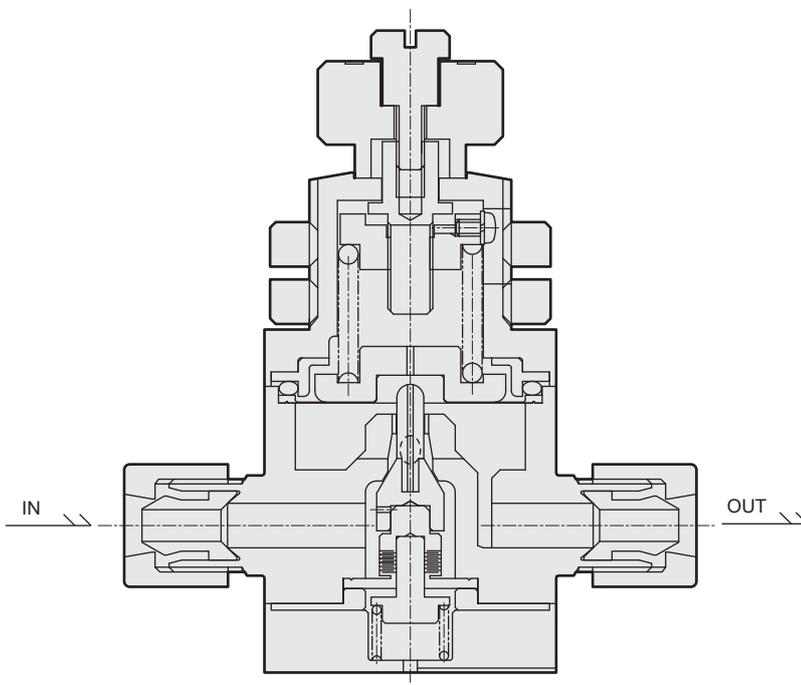


Pressure characteristics 2 (water)



Dimensions

●PMM20- *1



Dimensions	
*1 (Connector No.)	A
8US	94
10US	102
10BUS	102
10UP	102
10BUP	102
10UA	94
10BUA	94
10UR	126
10BUR	130
10UK	112
10BUK	112
10BUW	113

How to use

- Set the temperature, pressure, flow rate and other use conditions within the specification range of the product.
- If the product will be out of use for long periods, stop the supply pressure on the primary side.
- This product is a non-relief-type, and if used with the secondary side closed, it may retain the high pressure generated by water hammer, etc.
- Do not use as a residual pressure exhaust valve.

Air operated valve	Part3R	High pressure	Part3RR	Manual valve
	Part2	High pressure	Part2	Manual valve
	Part1	High pressure	Part1	Manual valve
	High pressure	High pressure	High pressure	High pressure
Drip prevention valve	Large bore size	Single unit	Part3RR	Manual valve
	Large bore size	Single unit	Part2	Manual valve
	Large bore size	Single unit	Part1	Manual valve
	Large bore size	Single unit	Part1	Manual valve
Regulator	Polyvinyl chloride	Integrated	Part3RR	Manual valve
	Polyvinyl chloride	Integrated	Part2	Manual valve
	Polyvinyl chloride	Integrated	Part1	Manual valve
	Polyvinyl chloride	Integrated	Part1	Manual valve
Flow rate adjusting valve	Electric	Flow rate	Part3RR	Manual valve
	Electric	Flow rate	Part2	Manual valve
	Electric	Flow rate	Part1	Manual valve
	Electric	Flow rate	Part1	Manual valve
Fine level Switch	Manual	Flow rate	Part3RR	Manual valve
	Manual	Flow rate	Part2	Manual valve
	Manual	Flow rate	Part1	Manual valve
	Manual	Flow rate	Part1	Manual valve
Related products	Manual	Flow rate	Part3RR	Manual valve
	Manual	Flow rate	Part2	Manual valve
	Manual	Flow rate	Part1	Manual valve
	Manual	Flow rate	Part1	Manual valve



Fine regulator (manual)

PMM50 Series

A pressure reducing valve designed to support a large flow supply of pure water and warm pure water.

- Connection Nominal 25, PVDF union integrated



Made-to-order product

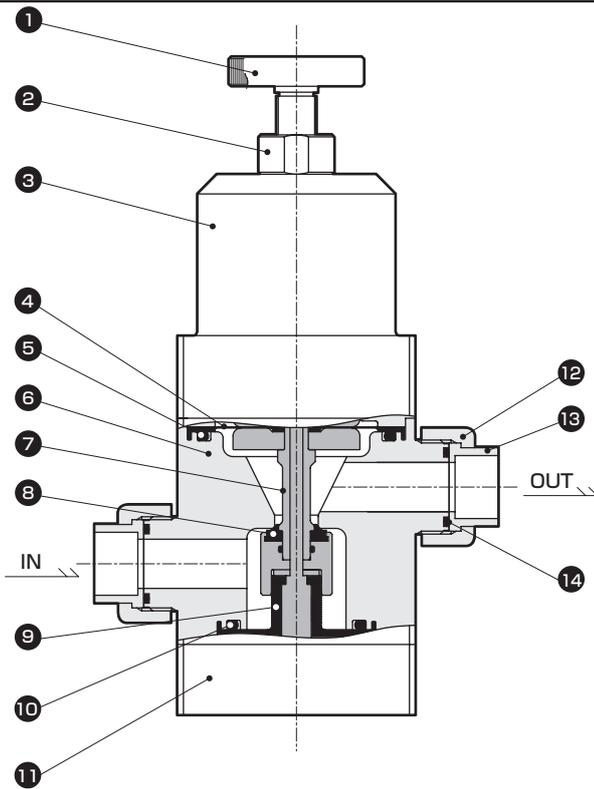
Export controlled items

Specifications

Item	PMM50-25AFU	
Working fluid	Pure water	
Fluid temperature	°C	5 to 80
Proof pressure	MPa	0.75
Max. working pressure	MPa	0.5
Set pressure	MPa	0.1 to 0.3
Ambient temperature	°C	5 to 40
Mounting orientation	Vertical mounting with the pressure adjustment knob on top	
Connection	Nominal 25, PVDF union integrated fitting	
Weight	Kg	5.5

*1: Non-relief

Internal structure and parts list



How to order



Model No.

① Connection

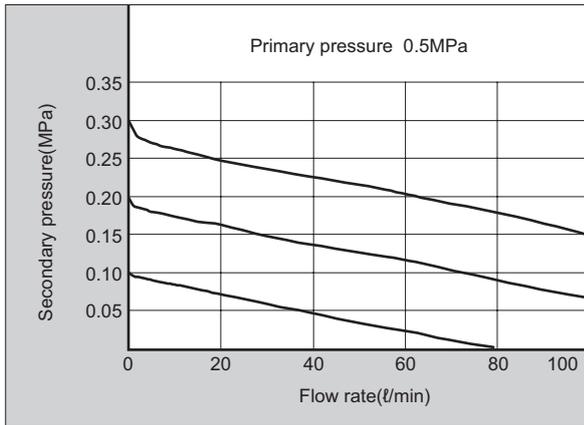
PMM50	
① Connection	
25AFU	
PVDF union fitting	
Integrated	
Nominal 25	

Part No.	Part name	Material	Part No.	Part name	Material
1	Pressure adjustment knob	PP	8	Valve seat	FKM
2	Lock nut	PP	9	Bellows	PTFE
3	Cover	PP	10	O-ring	FKM
4	Diaphragm	PTFE	11	Bottom plate	PVDF
5	O-ring	FKM	12	Union nut	PVDF
6	Body	PTFE	13	Union end	PVDF
7	Rod sleeve	PVDF	14	O-ring	FKM

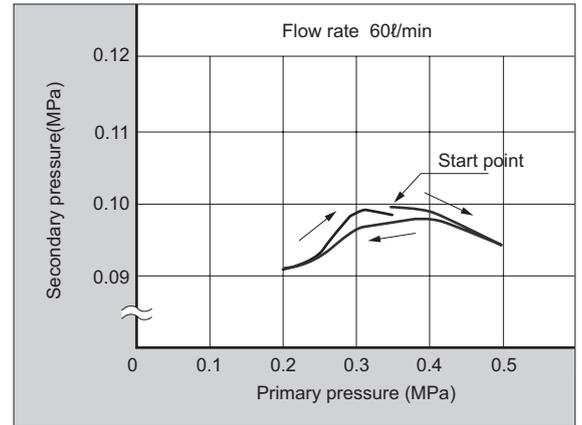
Always read the precautions on Intro Pages 7 to 14 before use.

Flow characteristics / Pressure characteristics

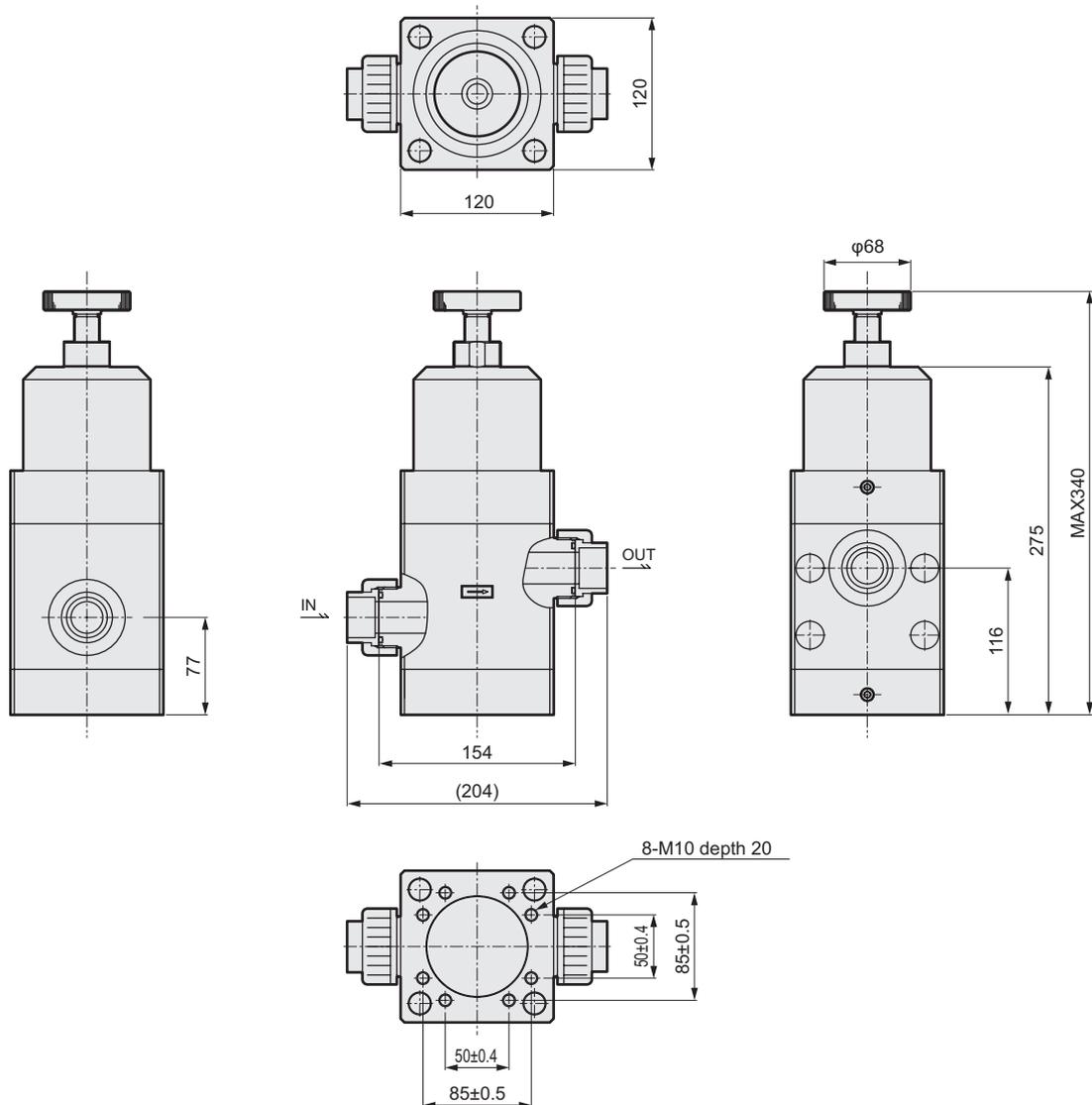
Flow characteristics (water)



Pressure characteristics (water)



Dimensions



How to use

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- If the product will be out of use for long periods, stop the supply pressure on the primary side.
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- Do not use as a residual pressure exhaust valve.

Part3R	Part2	Part1	Air operated valve	High pressure	Metal-free	Large bore size	Polyvinyl chloride	Drainage	Part3RR	Part2	Manual valve	High pressure	Metal-free	Large bore size	Single unit	Air operated integrated	Drip prevention valve	Regulator	Pilot	Manual	Flow rate adjusting valve	Electric	Manual	Manual/Fine flow rate	Fine level Switch	Related products															