Fine regulator (manual)

PYM Series

Pressure reducing valve for air, N_2 gas and pure water that uses stainless steel for the body

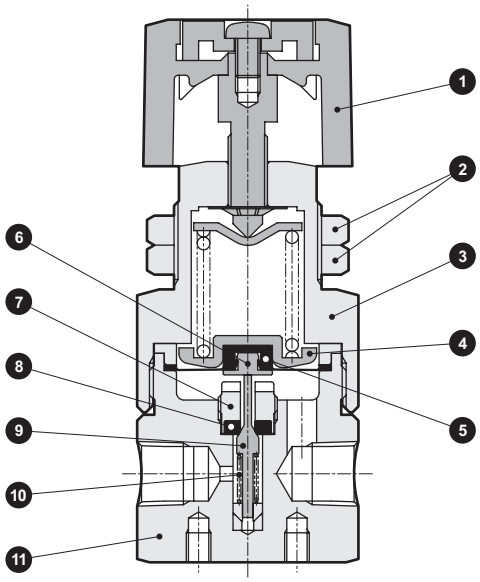
RoHS

Specifications

Descriptions		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

*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 for oxidizing fluids.
*4: 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
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 disc 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

PYM10 - 6

Model No.

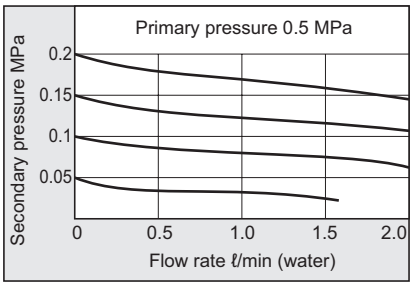
Ⓐ Port size

Ⓐ Port size	
6	Rc1/8
8	Rc1/4

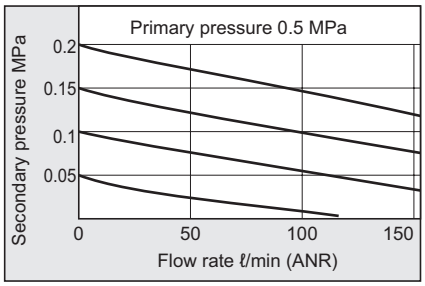
⚠ Always read the precautions on Intro Pages 7 to 16 before use.

Flow characteristics/pressure characteristics

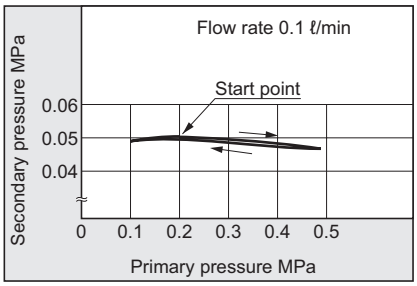
Flow characteristics (water)



Flow characteristics (air)



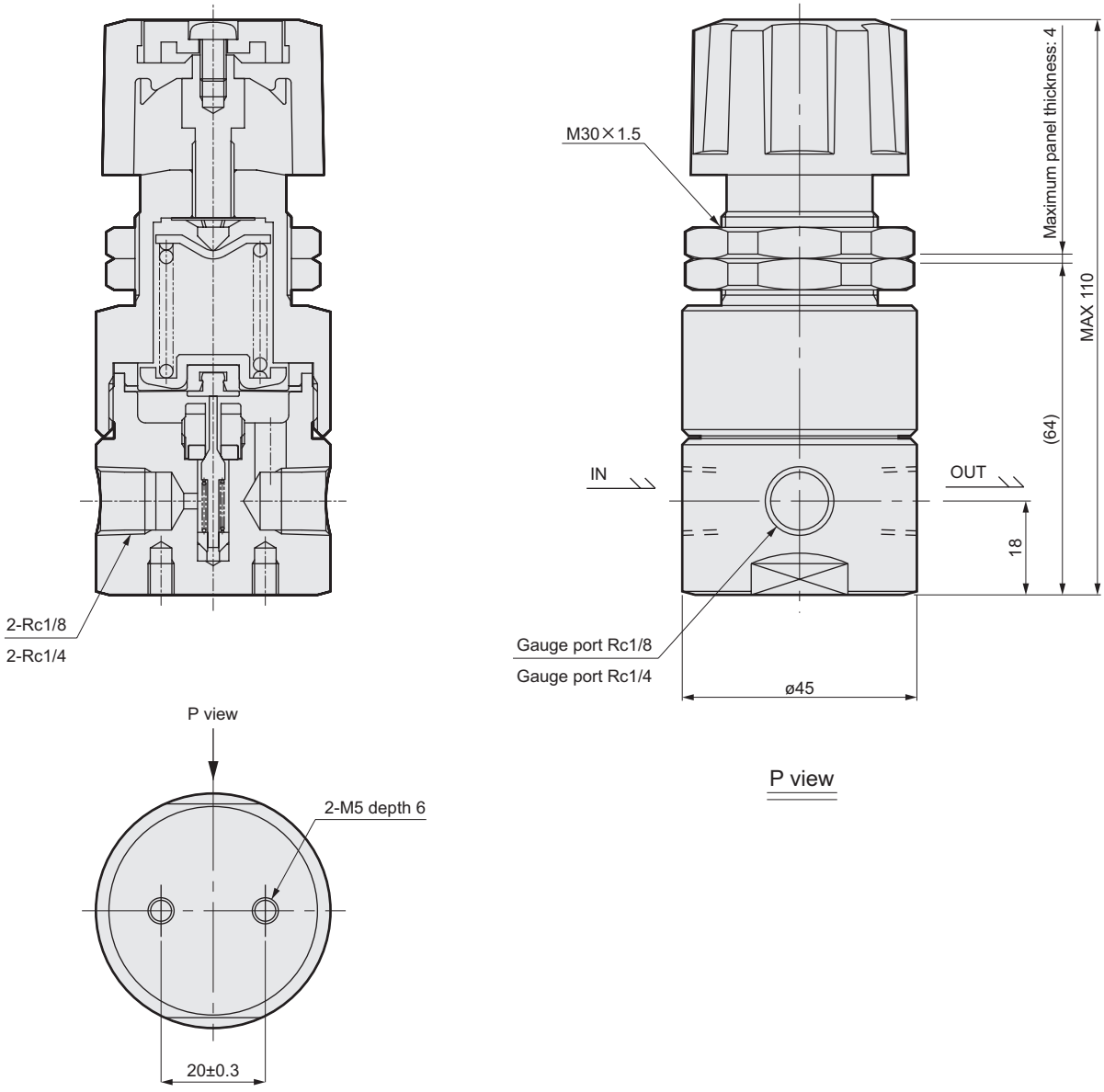
Pressure characteristics (water)



Dimensions

●PYM10-6(Rc1/8)

●PYM10-8(Rc1/4)



■ Usage methods

- 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 shut-off valve.

Fine regulator (manual)

PMM20 Series

Pressure reducing valve for pure water
with all-fluororesin wetted parts

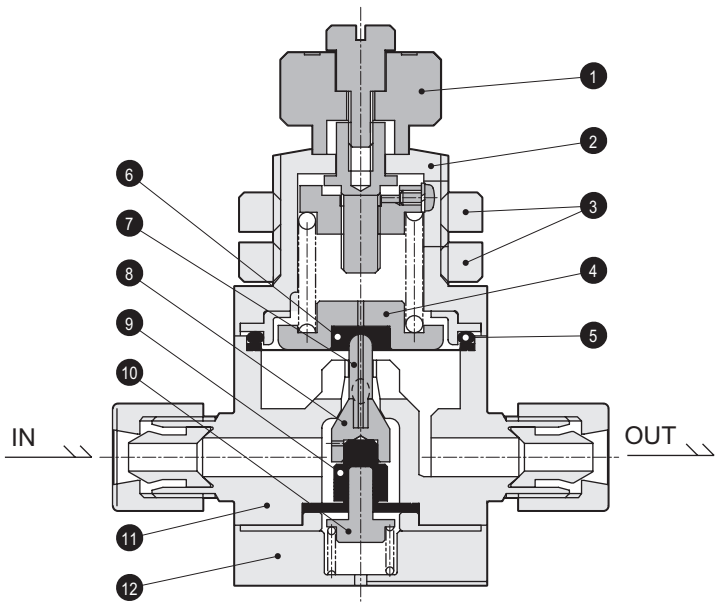
RoHS

Specifications

Descriptions		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. ø10 tube connection (integrated fitting) O.D. 3/8” tube connection (integrated fitting)

*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



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

PMM20 - 10BUS

Model No. Ⓐ Connection

Ⓐ Connection												
8US	10US	10BUS	10UP	10BUP	10UA	10BUA	10UR	10BUR	10UK	10BUK	10BUW
Super Pillar integrated fitting			Super 300 Pillar fitting P Series integrated		F-LOCK 20A Series integrated fitting		F-LOCK 60 Series integrated fitting		Final Lock integrated fitting		Flaretek integrated fitting
ø8 x ø6 tube connection	ø10 x ø8 tube connection	3/8” x 1/4” tube connection	ø10 x ø8 tube connection	3/8” x 1/4” tube connection	ø10 x ø8 tube connection	3/8” x 1/4” tube connection	ø10 x ø8 tube connection	3/8” x 1/4” tube connection	ø10 x ø8 tube connection	3/8” x 1/4” tube connection	3/8” x 1/4” tube connection
Content												
Body material (*1)												
PFA molded body or PTFE cut body	PFA		PTFE		PTFE		PTFE		PTFE		PTFE	

* PTFE cut products will be manufactured per order.

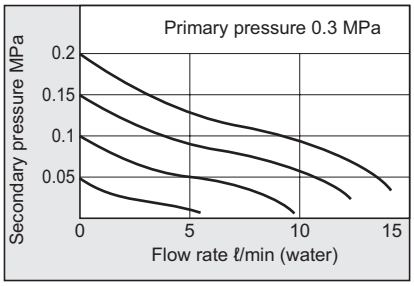
Precautions for model No. selection

*1: We also offer fittings other than those shown on the right.
Contact CKD for details.

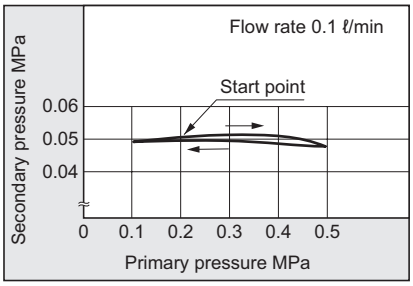
Always read the precautions on Intro Pages 7 to 16 before use.

Flow characteristics/pressure characteristics

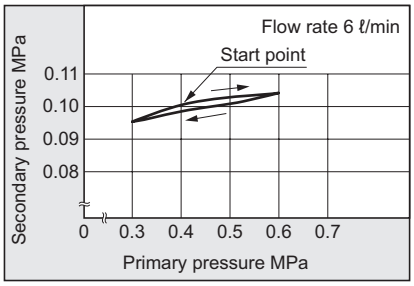
Flow characteristics (water)



Pressure characteristics 1 (water)

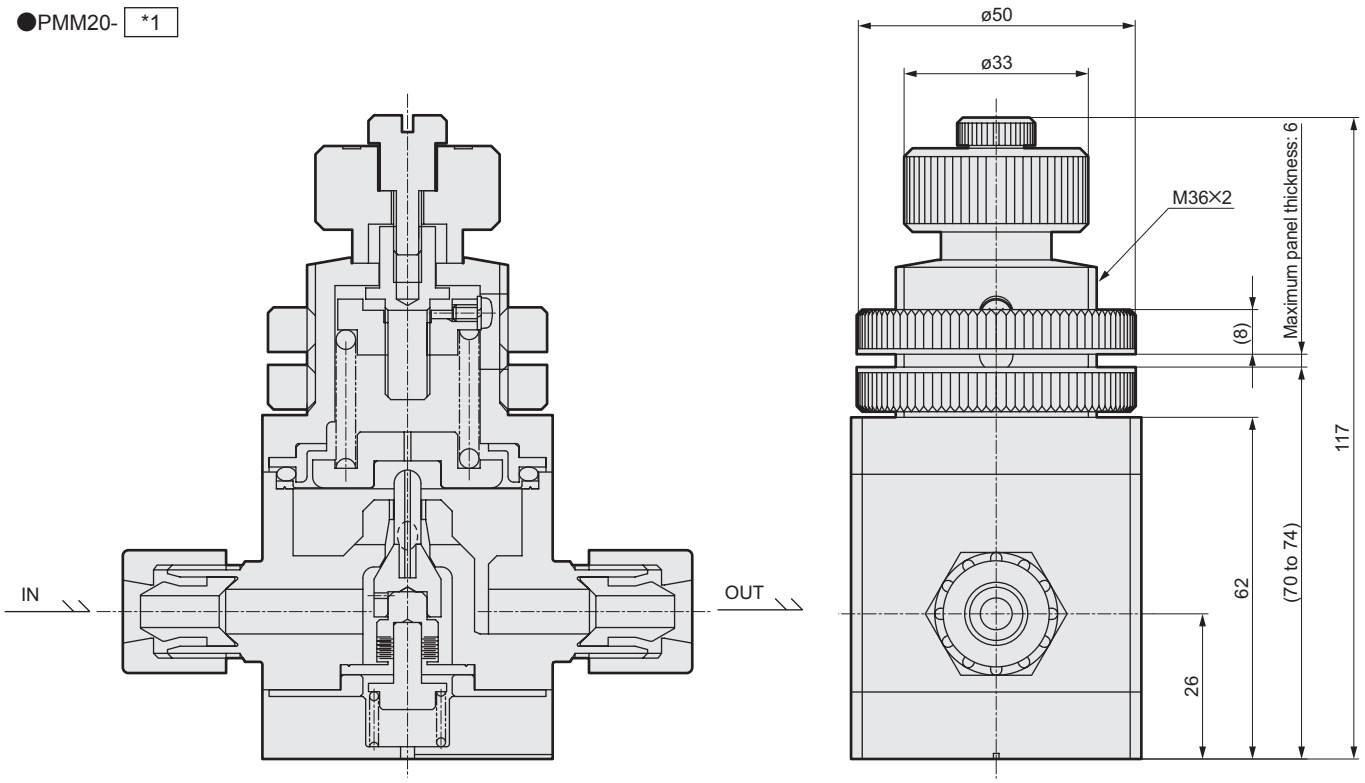


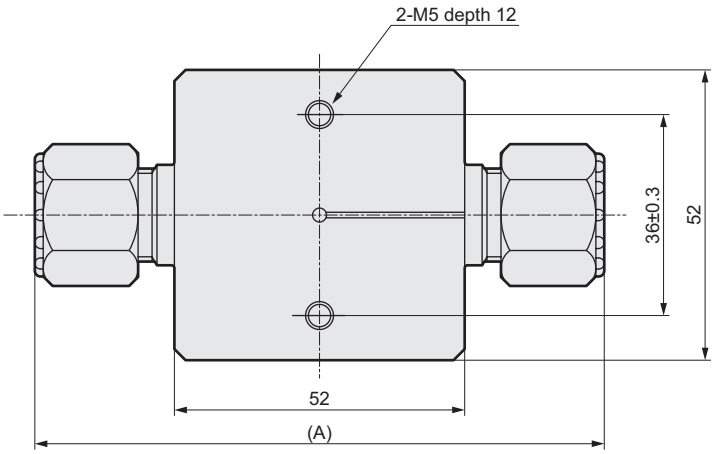
Pressure characteristics 2 (water)



Dimensions

●PMM20- *1





Dimensions *1 (Connection model 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	117

■ Usage methods

- 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 shut-off valve.

Fine regulator (manual)

PMM50 Series

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

RoHS

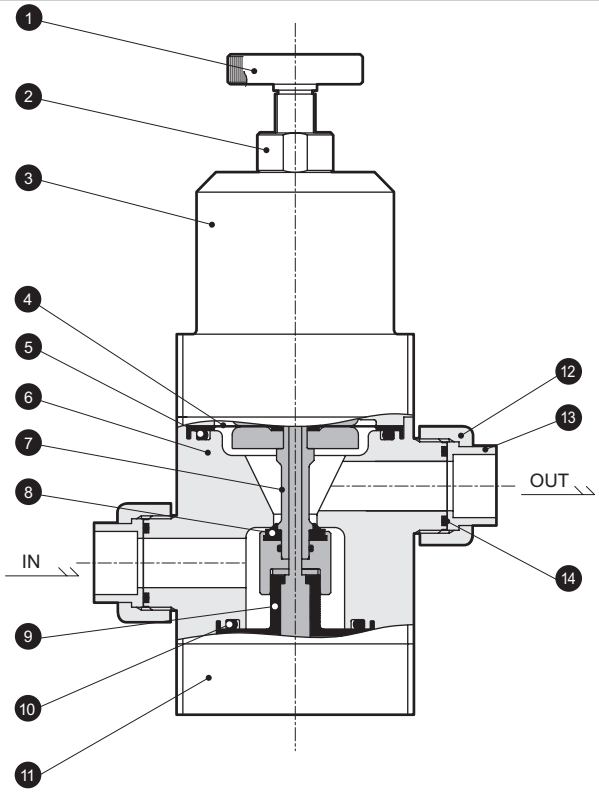
Made to Order **Export controlled items**

Specifications

Descriptions		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	6.7

*1: Non-relief

Internal structure and parts list



No.	Part name	Material	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

How to order

PMM50 - 25AFU

Model No. — Ⓐ Connection

PMM50
Ⓐ Connection (Note)
25AFU
PVDF union integrated fitting
Nominal 25

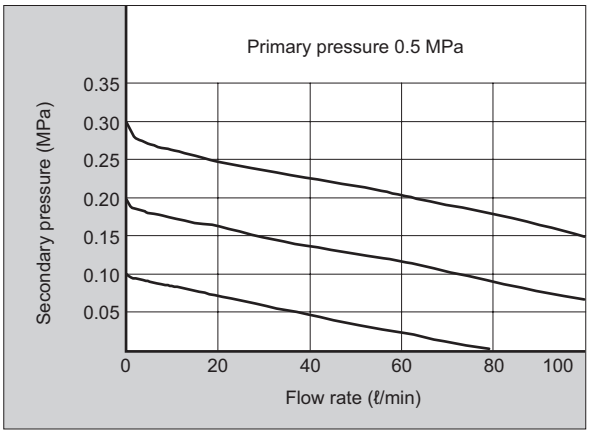
Precautions for model No. selection

Note: Fittings other than the above connections are also available.
Contact CKD for details.

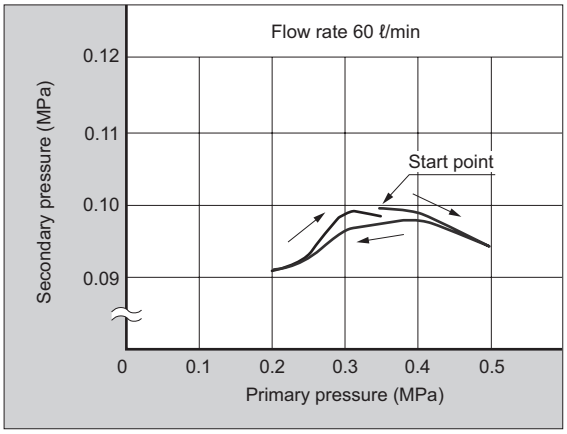
Always read the precautions on Intro Pages 7 to 16 before use.

Flow characteristics/pressure characteristics

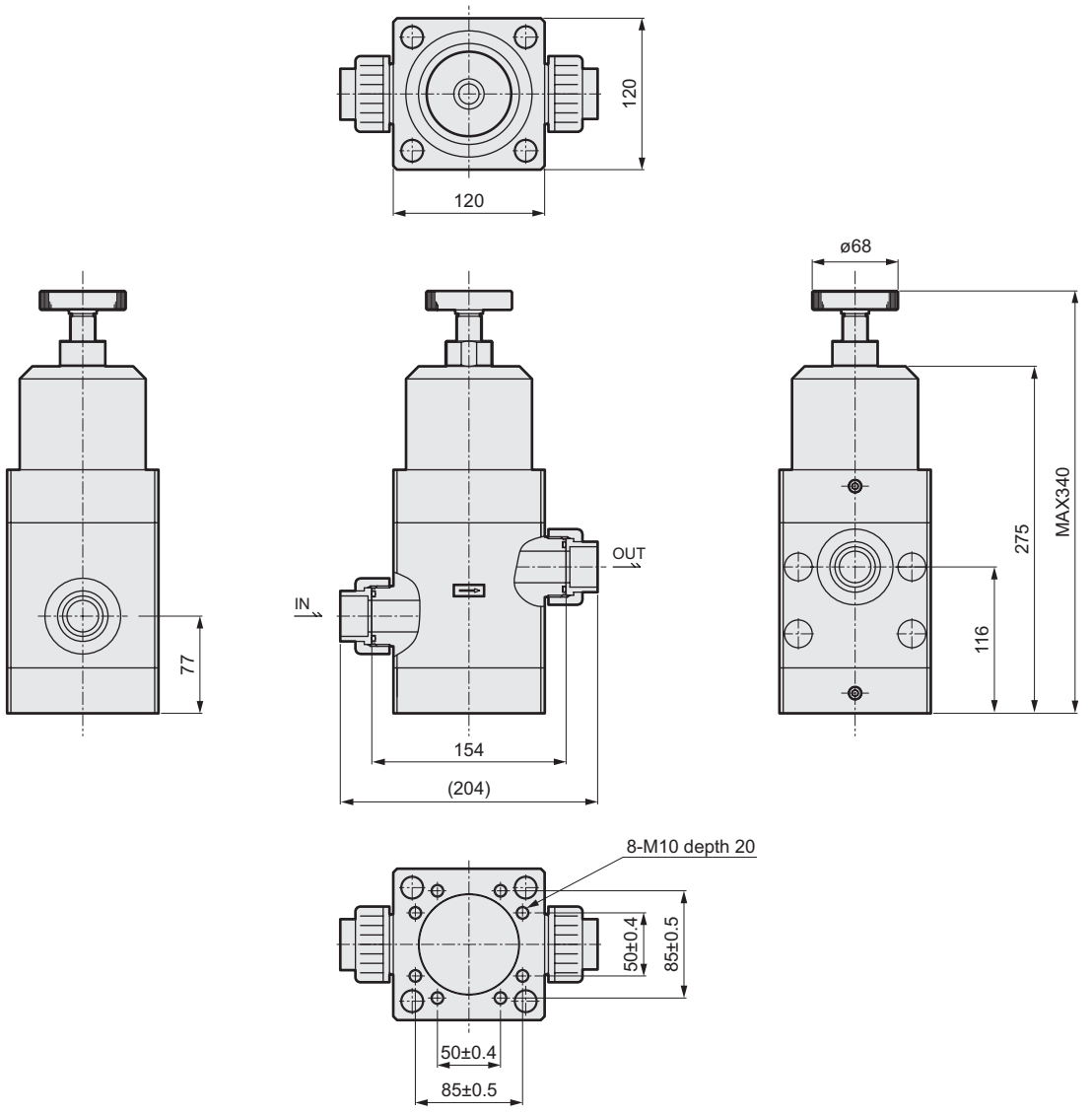
Flow characteristics (water)



Pressure characteristics (water)



Dimensions



■ Usage methods

- 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 shut-off valve.