

OUTLINE

The resin construction eliminates the mixing of metallic ions into process liquids. The P-520 is ideal for pure and ultra-pure waterlines in semiconductor production facilities. Alarm contacts can be added.

MAJOR APPLICATIONS

Pure waterlines

STANDARD SPECIFICATIONS

Measuring fluid	Liquids	
Measuring range	Water	Min. 1 to 10 L/min Max. 12 to 60 L/min
	· When selecting a flow range, refer to the standard flow rate table.	
Range ability	10:1 (10:2 for some models)	
Indication accuracy	±5% F.S.	
Fluid pressure	Max. 0.5 Mpa	
Fluid temperature	Max. 80°C (Depends on the gasket material or body material)	
Material	Wetted parts	PVC (Max. 60°C), HT-PVC (Max. 80°C), PTFE (Max. 80°C)
	Tapered tube	Heat-resistant glass
	Gasket	Fluoro rubber Ethylene-propylene rubber (EPDM) (Max. 80°C) · The maximum fluid temperature for each gasket material may vary depending on usage and ambient conditions.
	Support	SUS304
Cover	Transparent PVC	
Process Connection	Rc : 1/2" (Standard) , 3/4" , 1" NPT : 1/2" , 3/4" , 1"	
Mounting	Screw mount on the panel front (Standard) Panel embedded mounting	
Mass	approx. 1.2kg	

ALARM CONTACT AND OUTPUT

Type	Availability
Reed switch type alarm unit	General ○
	UL-approved ○
PAU optical alarm unit	○

For CE approval, refer to "Index & Quick Reference for P Series Purgometers" (TG-S0001).

STANDARD FLOW RATE TABLE

For alarm output codes of 0 or E		For alarm output codes of A to D	
Water	Water	Alarm setting range	
1 to 10 L/min*	1.2 to 12 L/min	2.4 to 10 L/min	
1.5 to 15 L/min	1.5 to 15 L/min	3 to 12 L/min	
2 to 20 L/min	2 to 20 L/min	4 to 16 L/min	
3 to 30 L/min	3 to 30 L/min	6 to 24 L/min	
4 to 40 L/min	4 to 40 L/min	8 to 32 L/min	
4.5 to 45 L/min	4.5 to 45 L/min	9 to 36 L/min	
5 to 50 L/min	5 to 50 L/min	10 to 40 L/min	
12 to 60 L/min	12 to 60 L/min	18 to 48 L/min	

Although other flow rate specifications are available, some flow ranges need to be changed. Contact us for details.

*1 Contact us for flow rate ranges of less than 1 to 10 L/min.

OTHER AVAILABLE OPTIONS

You can specify the following options:
Two-point alarm, length of reed switch lead wire, double graduations, special graduations, various joint types, etc. For details, refer to "Index & Quick Reference for P Series Purgometers" (TG-S0001).



BASIC MODEL CODE

		Model Code								Descriptions	Notes	
P-52		□	-	□	0	-	□	-	□			□
Flow direction	0										Bottom rear → Top rear (Standard)	Select this code for normal conditions.
	1										Bottom → Top	Models with a valve cannot be specified.
	9										Special	
Valve	- 0										Not provided	
	- L										Inlet	
	- Z										Special	
Alarm output	0										Not provided	Refer to "Index & Quick Reference for P Series Purgometers" (TG-S0001).
	A										Reed switch (LO)	
	B										Reed switch (LC)	
	C										Reed switch (HO)	
	D										Reed switch (HC)	
E											PAU alarm unit provided	
Wetted parts material	- P										PVC (Standard)	
	- T										PTFE	
	- 4										SUS304	
	- Z										Special	
Gasket material	F										Fluoro rubber	
	E										Ethylene-propylene rubber (EPDM)	
	Z										Special	
Process connection type	- R										Rc (Standard)	Screw mounting on a panel front. For other mounting options, refer to "Index & Quick Reference for P Series Purgometers" (TG-S0001).
	- N										NPT female	
Process connection size	4										1/2" (Standard)	
	5										3/4"	
	6										1"	Available only for flow direction code= 0 (Bottom rear → Top rear) and valve code= 0 (none)
	Z										Special	

ORDERING INFORMATION

Basic model code	Items to be specified
P-52 □ - □□ - □□ - □□	① Fluid name - ② Flow range - ③ Press. - ④ Temp. - ⑤ Mounting option - ⑥ Other options
(Select in the model code table.)	(Refer to "Index & Quick Reference for P Series Purgemeters" (TG-S0001).)

NOTE

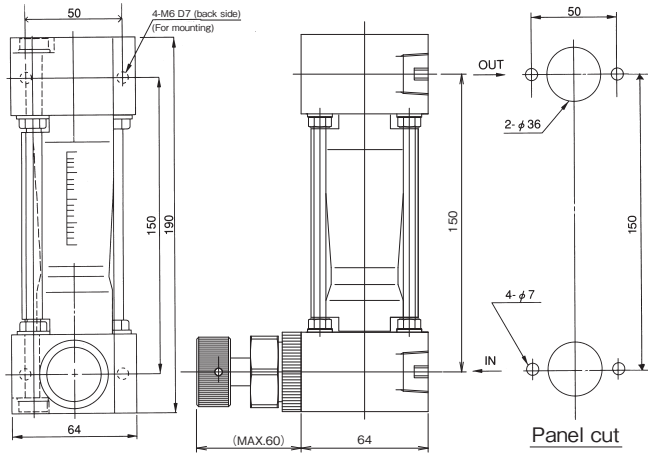
Depending on the required specifications, the P-520-L with a valve falls under "valves or components thereof" listed in (ii)-7 of row 3 of Appended Table 1 of the Export Trade Control Order. Contact us for details.

DIMENSIONS

Standard type

P - 520 - L0 - PF - R4

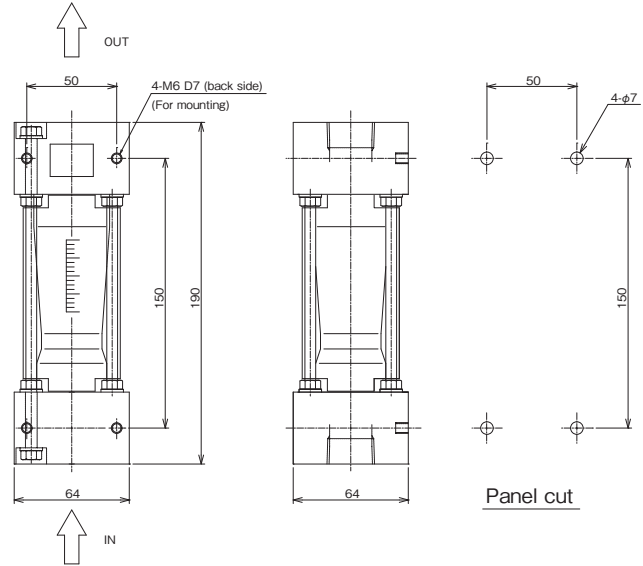
- Screw mounting on the panel front
- Valve at the inlet



Straight-through type

P - 521 - 00 - PF - R5

- Screw mounting on the panel front (bottom → top)
- Without a valve

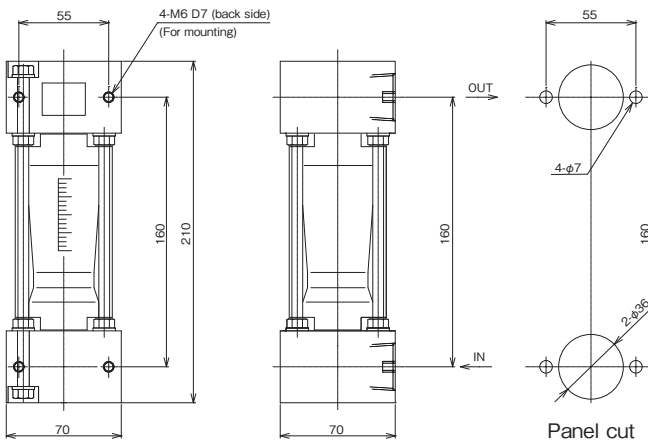


Note: Use non-magnetic material for the panel when the alarm output code is one of A to D.

Standard type

P - 520 - 00 - PF - R6

- Screw mounting on the panel front
- Without a valve



Standard material

Parts name	Standard material	Available material
Body	○ PVC	HT-PVC, PTFE, SUS304
Tapered tube	○ Heat-resistant glass	—
Float *	○ PVC, SUS304, PTFE	—
Gasket	○ Fluoro rubber	Ethylene-propylene rubber (EPDM)
Float rod	○ FEP-coated SUS316	—
Float stopper	○ PVC	PTFE
Valve	○ PVC	PTFE
Column	SUS304	—
Cover	Transparent PVC	—

Parts marked "○" come in contact with the measuring fluid.
 * We will select a proper material for your application.
 SUS316 may be used instead of SUS304 due to production reasons.
 ASTM or AISI materials equivalent to JIS materials may be used due to production reasons.

* Specification is subject to change without notice.

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