



TECHNICAL GUIDANCE

Compact, acryl-mold type purgometer for measuring liquids

P-620 Purgometer

OUTLINE

The P-620 is a compact, acryl-mold type purgometer for measuring liquids of up to 10 L/min. The P-620 is widely used as a flow switch and features easy in-line maintenance. It does not need removing from the instrument panel.

MAJOR APPLICATIONS

Cooling water lines for semiconductor production equipment

STANDARD SPECIFICATIONS

Measuring fluid	Liquids
Measuring range	Water Min. 0.1 to 1 L/min Max. 1 to 10 L/min
	• When selecting a flow range, refer to the standard flow rate table.
Range ability	Standard (10 : 1)
Indication accuracy	±10% F.S.
Fluid pressure	Max. 1 MPa
Fluid temperature	Max. 60°C
Material	Wetted parts Acryl
	Tapered tube Acryl
	Gasket Nitrile rubber (NBR) Chloroprene rubber (CR) Fluoro rubber
	Fitting C3604, SUS304, SUS316
Process Connection	Rc : 3/8" (Standard) NPT : 3/8" SW : 3/8"
Mounting	Screw mount on the panel front (Standard)
Mass	approx. 0.3 kg

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 code of 0	For alarm output codes of A to D	
Water	Water	Alarm setting range
0.1 to 1 L/min*1	0.1 to 1 L/min*1	0.2 to 0.8 L/min
0.2 to 2 L/min	0.4 to 1.2 L/min	0.5 to 1 L/min
0.3 to 3 L/min	0.2 to 2 L/min	0.4 to 1.6 L/min
0.5 to 5 L/min	0.3 to 3 L/min	1 to 2.4 L/min*2
0.6 to 6 L/min	0.5 to 5 L/min	2 to 4 L/min
0.8 to 8 L/min	0.6 to 6 L/min	2 to 4.8 L/min
1 to 10 L/min	0.8 to 8 L/min	2 to 6.4 L/min
	1 to 10 L/min	2 to 8 L/min

*1 Only for the model of P-620-U □ -4N-R3, whose dimensions are different from others

*2 Min. 0.75 L/min for the SW connection



BASIC MODEL CODE

Model Code		Descriptions	Notes
P-620	- □ □ - □ □ - □ □ □ □		
Valve	- 0	Not provided	
	- U	Outlet	
	- 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)	
	Z	Special	
Wetted parts material	- B	C3604 (Standard)	
	- 4	SUS304	
	- 6	SUS316	
	- Z	Special	
Gasket material	N	Nitrile rubber (NBR) (Standard)	
	C	Chloroprene rubber (CR)	
	F	Fluoro rubber	
	Z	Special	
Process connection type	- R	Rc (Standard)	
	- N	NPT female	
	- S	SW	
	- Z	Special	
Process connection size	3	3/8" (Standard)	
	Z	Special	

OTHER AVAILABLE OPTIONS

You can specify the following options: Alarm setting on the front face, length of reed switch lead wire, double graduations, special graduations, built-in rubber joint type, built-in joint type, etc. (For details, refer to "Index & Quick Reference for P Series Purgometers" (TG-S0001)).

ORDERING INFORMATION

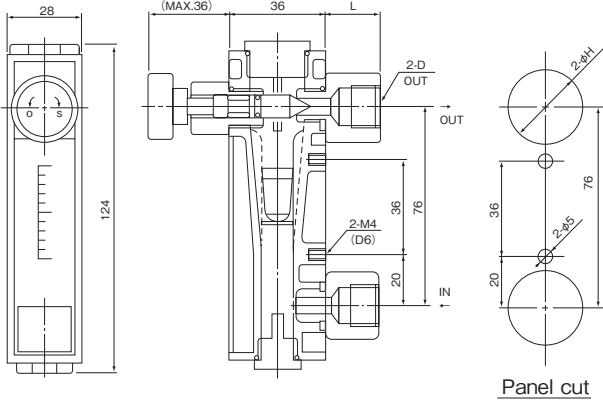
Basic model code	Items to be specified
P-620-□□-□□-□□	① Fluid name - ② Flow range - ③ Press. - ④ Temp. - ⑤ Mounting option - ⑥ Other options
(Select in the model code table.)	(Refer to "Index & Quick Reference for P Series Purgemeters" (TG-S0001).)

DIMENSIONS

● Standard type

P-620-U0-□N-□□

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

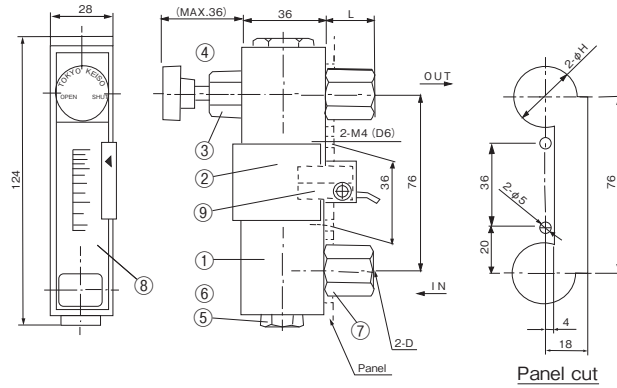


● Reed switch alarm type

P-620-U□-□□-□□

(Different dimensions are specified for a flow range of 0.1 to 1 L/min. Contact us for details.)

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



● Panel cut dimension

Connection size	Diameter (mm)	Rear (mm)
D	H	L
Rc3/8	27	20
3/8NPT	27	20
3/8SW	22	(30)

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

● Standard material

Parts name	Standard material	Available material
Body, Tapered tube	○ Acryl	—
Gasket	○ Nitrile rubber (NBR)	Fluoro rubber, Chloroprene rubber (CR)
Float *	○ SUS304,SUS316,PVC	—
Cap	○ C3604	SUS304,SUS316
Valve body	○ C3604	SUS304,SUS316
Valve needle	○ SUS304	SUS316
Fitting	○ C3604	SUS304,SUS316
Scale plate	Acryl	—

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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