P-710 Purgemeter



DESCRIPTION

The P-710 is a light, compact, fluororesin body purgemeter ideal for measuring various corrosive solutions.

MAJOR APPLICATIONS

General purpose (small flow rate)

STANDARD SPECIFICATIONS

Measuring fluid		Gases Liquids	
Measuring range		Air	Min. 50 to 500 mL/min (nor) Max. 2 to 20 L/min (nor)
		Water	Min. 3 to 30 mL/min Max. 0.4 to 2 L/min
		• When selecting a flow range, refer to "Index & Quick Reference for P Series Purgemeters" (TG-S0001). • When selecting a flow range, refer to the standard flow rate.	
Range ability		10:1 (10:2 for some models)	
Indication accuracy		±5% F.S.	
Fluid pressure		Max. 0.5MPa	
Fluid temperature		Max. 70℃	
Material	Meter body	ETFE (Rc1/8) (Standard), PFA (Pillar fitting)	
	Tapered tube	Heat-resistant glass (Standard), PCTFE	
	Gasket	PTFE	
	Support	Polyacetal (Standard), PPS	
	Cover	Polycarbonate	
Process Connection		Rc : 1/8"(Standard) Pillar fitting : (OD) 6.35mm, 6mm, 8mm	
Mounting		Screw mount on the panel front (Standard) Panel embedded mounting	
Mass		approx. 0.1kg	

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 Purgemeters" (TG-S0001).

STANDARD FLOW RATE TABLE

When the fluid pressure is other than 0 MPa, refer to "Index & Quick Reference for P Series Purgemeters" (TG-S0001).

For tapered tube material code of G		For tapered tube material code of T
Air (0°C, 0 MPa)	Water	Water
	3 to 30 mL/min(Water)	
	5 to 50 mL/min	
50 to 500 mL/min(nor)	10 to 100 mL/min	
0.1 to 1 L/min(nor)	20 to 200 mL/min	
0.2 to 2 L/min(nor)	30 to 300 mL/min	
0.3 to 3 L/min(nor)	50 to 500 mL/min	50 to 500 mL/min
0.5 to 5 L/min(nor)	0.1 to 1 L/min	0.1 to 1 L/min
1 to 10 L/min(nor)	0.12 to 1.2 L/min *	0.12 to 1.2 L/min
2 to 20 L/min(nor)	0.4 to 2 L/min	0.4 to 2 L/min

Although other flow rate specifications are available, some flow ranges need to be changed. Contact us for details.
* Ranges of 0.12 to 1.2 L/min or higher are applicable only to models with a valve code of 0 or U.

BASIC MODEL CODE

Model Code										Descriptions	Notes
P-710	–	□	□	–	□	□	–	□	□		
Valve	–	0								Not provided	Refer to "Index & Quick Reference for P Series Purgemeters" (TG-S0001).
	–	L								Inlet (gas for atmospheric pressure scale)	
	–	U								Outlet (gas for pressure scale or for negative pressure on the secondary side)	
	–	Z								Special	
Alarm output			0							Not provided	
			E							PAU alarm unit provided	
			Z							Special	
Tapered tube material				–	G					Heat-resistant glass (Standard)	
				–	T					PCTFE	Cannot be specified with gas applications, a valve code of L, and an alarm output code of E or Z
Gasket material						T				PTFE	Cushion: Chloroprene rubber (CR) or Fluoro rubber
Process connection							–	R	1	Rc1/8" (Standard)	
							–	T	A	ø6.35 × t1	Pillar fitting (Super type)
									B	ø6 × t1	
									C	ø8 × t1	
							–	P	A	ø6.35 × t1.2	Pillar fitting (Super 300 type)
									B	ø6 × t1	
							–	Z	Z	Special	

OTHER AVAILABLE OPTIONS

You can specify the following options:
Double graduations, special graduations, various joint types, etc. For details, refer to "Index & Quick Reference for P Series Purgemeters" (TG-S0001).

SPS
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ORDERING INFORMATION

Basic model code	Items to be specified
P-710-□□-□□-□□	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).)

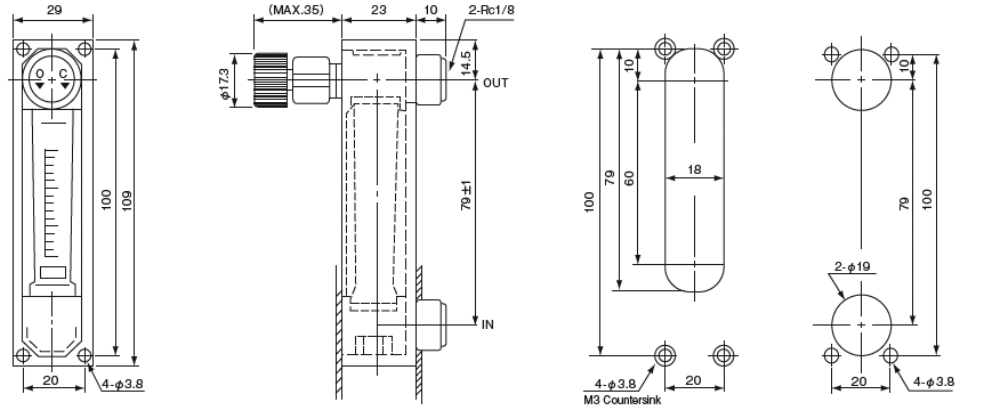
DIMENSIONS

● Standard type

P — 710 — U0 — GT — R1

■ Screw mounting on the panel

■ Valve at the outlet



Panel cut (Panel embedded mounting)

Panel cut (Front Panel mounting)

● Standard material

Parts name		Standard material	Available material
Support		Polyacetal	PPS resin
Body	○	ETFE (Rc1/8)	PFA (Pillar fitting)
Tapered tube	○	Heat-resistant glass	PCTFE
Gasket	○	PTFE	—
Float *	○	PTFE, Glass, Ruby	—
Nut		PCTFE	—
Valve needle	○	PCTFE	—
Cover		Polycarbonate	—

Parts marked "○" come in contact with the measuring fluid.

* We will select a proper material for your application.

*Specification is subject to change without notice.

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