



TECHNICAL GUIDANCE

Compact, low-cost purgometer with metal body for measuring gases and liquids

P-850 Purgometer

OUTLINE

The P-850 is a compact purgometer with a face-to-face dimension of 80 mm (height: 100 mm). The P-850 is ideal for built-in services for various equipment and devices.

MAJOR APPLICATIONS

General purpose

STANDARD SPECIFICATIONS

Measuring fluid	Gases Liquid (Equivalent to water : Density 1.0 g / cm ³ , Viscosity 1.0mPa · s)	
Measuring range (Standard)	Air	Min. 20 to 200 mL/min (nor) Max. 2 to 20 L/min (nor) · 0 MPa (1atm), 20 °C
	Water	Min. 5 to 50 mL/min Max. 0.1 to 1 L/min · 1.0 g/cm ³ , 1.0 mPa · s
Measuring range (optional)	Air	Min. 20 to 200 mL/min (nor) Max. 2 to 20 L/min (nor)
	Water	Min. 5 to 50 mL/min Max. 0.1 to 1 L/min
Range ability	10 : 1	
Indication accuracy	±5% F.S.	
Fluid pressure	Max. 0.5 MPa	
Fluid temperature	Max. 60°C	
Material	Wetted part	SCS14
	Tapered tube	Heat-resistant glass
	Float	SUS316, Glass, Ruby
	Gasket	Nitrile rubber (NBR) Fluoro rubber Chloroprene rubber (CR)
	Valve	SUS 304, SUS316
	Mounting plate	SPCC, SUS304
	Cover	Polycarbonate
Standard cleaning	Degrease treatment (Ultrasonic cleaning)	
Mounting	Rc1/8	
Mass	approx. 0.2 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

As standard, measuring ranges corresponding to respective flow rates are specified by codes. See BASIC MODEL CODE.

Optional measuring range

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

Air (0°C, 0 MPa)	Water (1.0 g/cm ³ , 1.0 mPa·s)
20 to 200 mL/min (nor)	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
0.5 to 5 L/min (nor)	30 to 300 mL/min
1 to 10 L/min (nor)	50 to 500 mL/min
2 to 20 L/min (nor)	0.1 to 1 L/min

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



BASIC MODEL CODE

P-850	Model Code								Descriptions	Notes	
	—	□	—	□	—	□	—	□			
Flow range	—	L0							5 to 50 mL/min	Fluid : water or equivalent Density : 1.0g/cm ³ Viscosity : 1.0mPa · s	
	—	L1							10 to 100 mL/min		
	—	L2							30 to 300 mL/min		
	—	L3							50 to 500 mL/min		
	—	L4							60 to 600 mL/min		
	Flow range	—	L5							0.1 to 1 L/min	Fluid : Air Pressure : 0MPa (1 atm) Temperature : 20°C
		—	G0							20 to 200 mL/min (nor)	
		—	G1							0.1 to 1 L/min (nor)	
		—	G2							0.3 to 3 L/min (nor)	
		—	G3							0.6 to 6 L/min (nor)	
		—	G4							1 to 10 L/min (nor)	
—		G5							1.5 to 15 L/min (nor)		
Valve	—	G6							2 to 20 L/min (nor)	Refer to "Index & Quick Reference for P Series Purgometers" (TG-S0001).	
	—	00							Optional		
	—	0							Not provided		
Wetted parts material	—	L							Inlet	Refer to "Index & Quick Reference for P Series Purgometers" (TG-S0001).	
	—	U							Outlet		
	—	4							Body : SCS14 / Valve : SUS304 (Standard)		
Gasket material	—	6							Body : SCS14 / Valve : SUS316		
	Gasket material	N							Nitrile rubber (NBR) (Standard)		
		F							Fluoro rubber		
		C							Chloroprene rubber (CR)		
Process connection type	—	Z							Special		
	—	R							Rc (Standard)		
Process connection size	—	N							NPT female		
	—	1							1/8"		

When ordering a model with a valve, specify inlet and outlet pressures. Otherwise, the valve is designed for a differential pressure of 0.05 MPa. Depending on the specification, the desired model may be unavailable. Standard models with the code of L □ or G □ have a valve designed for a differential pressure of 0.05 MPa.

OPTIONAL MOUNTING METHOD

The following mounting methods can be selected.

Code	Mounting method
A	Lock nut mounting on the panel front
B	Screw mounting on the panel front
C	Panel rear mounting

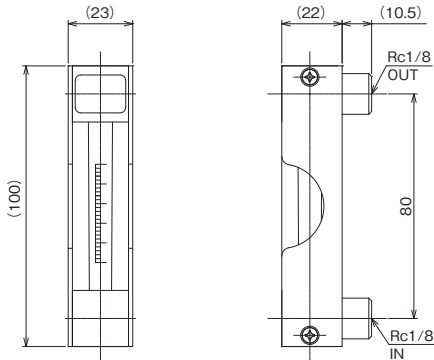
Add a code to the end of BASIC MODEL CODE.

For example: P-850-L1-0-4N-R1-C for rear panel mounting.

DIMENSIONS

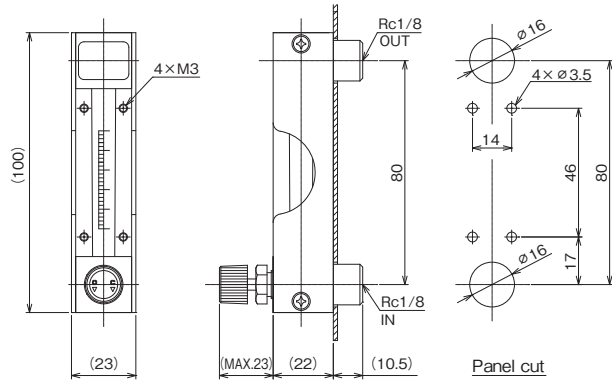
P - 850 - □□ - 0 - □□ - R1

- Supported by piping
- Without a valve



P - 850 - □□ - L - □□ - R1 - B

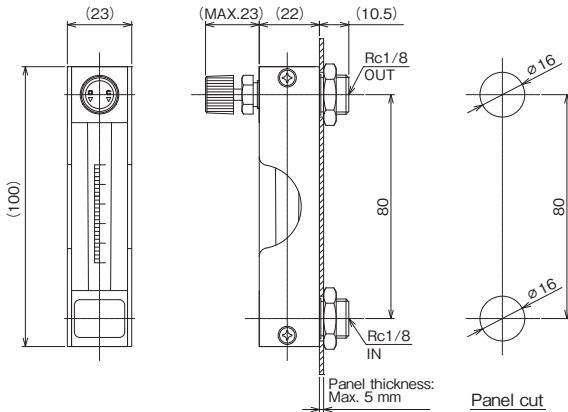
- Screw mounting on the panel front
- Valve at the inlet



Note: Long mounting screws may damage the tapered tube. The screws should be shorter than the thickness of the panel + 3 mm.

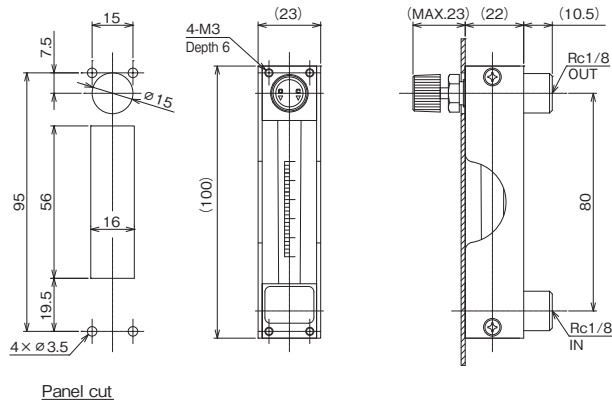
P - 850 - □□ - U - □□ - R1 - A

- Lock nut mounting on the panel front
- Valve at the outlet



P - 850 - □□ - U - □□ - R1 - C

- Rear panel mounting
- Valve at the outlet



* Specification is subject to change without notice.

TIV TOKYO KEISO CO., LTD.

Head Office : Shiba Toho Building, 1-7-24 Shibakoen, Minato-ku, Tokyo 105-8558

Tel : +81-3-3431-1625 (KEY) ; Fax : +81-3-3433-4922

e-mail : overseas.sales@tokyokeiso.co.jp ; URL : http://www.tokyokeiso.co.jp