P-880 Purgemeter



DESCRIPTION

The P-880 is an area purgemeter for measuring micro flow rates of gases. This purgemeter is equipped with an improved valve to accurately control the flow rate. The P-880 is ideal for measuring and controlling micro flow rates.

FEATURES

- **Micro flow rate measurement**
  Can measure flow rates from 0.15 to 1.5 mL/min (nor) to 6 to 60 L/min (nor)
- **Easy flow rate control**
  Can control flow rates accurately. The optimum valve will be provided for your specification of inlet and outlet pressures.
- **Selectable face-to-face dimensions**
  Three face-to-face dimensions (115 mm, 130 mm, and 145 mm) are available for various applications.
- **Compact, lightweight design**
  3 mm smaller in width and half the weight compared with the P-810.

MAJOR APPLICATIONS

1. Built-in use for equipment
2. Biotechnology industry
3. Semiconductor-related gas equipment

STANDARD SPECIFICATIONS

Measuring fluid		Gases
Measuring range	Air	Min. 0.15 to 1.5 mL/min (nor) Max. 6 to 60 L/min (nor)
		・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 table.
Range ability		10 : 1
Indication accuracy		±5% F.S.
Fluid pressure		Max. 1 MPa
Fluid temperature		Max. 120°C (Depends on the gasket material)
Leak rate		1×10^{-7} Pa・m³/s or less (He) This is a typical value obtained during in-house tests, not a guaranteed value.
Material	Wetted part	SCS14/SUS316
	Tapered tube	Heat-resistant glass
	Gasket	Fluoro rubber (Max. 120°C) Chloroprene rubber (CR) (Max. 80°C) Ethylene-propylene rubber (EPDM) (Max. 80°C) ・The maximum fluid temperature for each gasket material may vary depending on usage and ambient conditions.
	Mounting plate	A5052 (White alumite)
	Cover	Transparent PVC
Process Connection		Rc : 1/4" (Standard) , 1/8" NPT : 1/4", 1/8" SW : 1/4" or equivalent, 3/8" or equivalent VCR : 1/4" or equivalent, 3/8" or equivalent
Standard cleaning		Degrease treatment (Ultrasonic cleaning) Non-water treatment
Mounting		Lock nut mount on the panel front
Mass		Approx. 0.28 kg (P-881)

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).

Air (0°C, 0 MPa)	
0.15 to 1.5 mL/min(nor)	40 to 400 mL/min(nor)
0.5 to 5 mL/min(nor)	60 to 600 mL/min(nor)
0.6 to 6 mL/min(nor)	80 to 800 mL/min(nor)
0.8 to 8 mL/min(nor)	0.1 to 1 L/min(nor)
1 to 10 mL/min(nor)	0.4 to 4 L/min(nor)
2 to 20 mL/min(nor)	0.6 to 6 L/min(nor)
4 to 40 mL/min(nor)	0.8 to 8 L/min(nor)
6 to 60 mL/min(nor)	1 to 10 L/min(nor)
8 to 80 mL/min(nor)	2 to 20 L/min(nor)
10 to 100 mL/min(nor)	4 to 40 L/min(nor)
20 to 200 mL/min(nor)	6 to 60 L/min(nor)

Other flow rate specifications are available. Contact us for details.

BASIC MODEL CODE

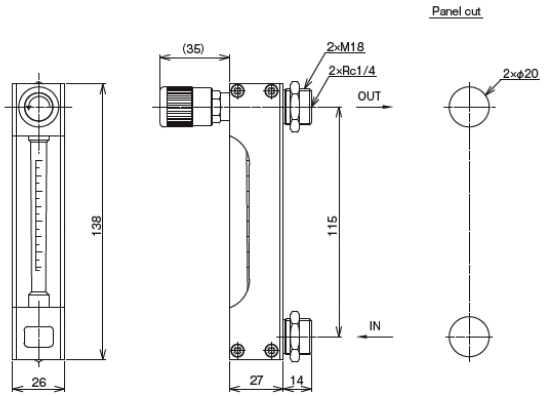
Model Code												Descriptions
P-88	□	—	□	□	0	—	6	□	—	□	□	
Face-to-face dimension	1											115 mm
	2											130 mm
	3											145 mm
	Z											Special
Valve position		—	0									Not provided
		—	L									Inlet
		—	U									Outlet
Valve color				N								Select this code for without a valve
				B								Blue (Standard)
				G								Green
				S								Silver
				Y								Yellow
				O								Orange
Alarm output					0							Not provided
Wetted parts material						—	6					SCS14 / SUS316
Gasket material								F				Fluoro rubber (Standard)
								C				Chloroprene rubber (CR)
								E				Ethylene-propylene rubber (EPDM)
								Z				Special
Process connection									—	R	1	Rc 1/8
											2	Rc 1/4 (Standard)
									—	N	1	1/8 NPT
											2	1/4 NPT
									—	S	2	1/4 SW or equivalent
											3	3/8 SW or equivalent
									—	V	2	1/4 VCR or equivalent (Male connector)
											3	3/8 VCR or equivalent (Male connector)

SPS
www.sps-international.com | www.sps-polos.com | www.waferhandlingsystems.com | www.esproflow.com
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DIMENSIONS

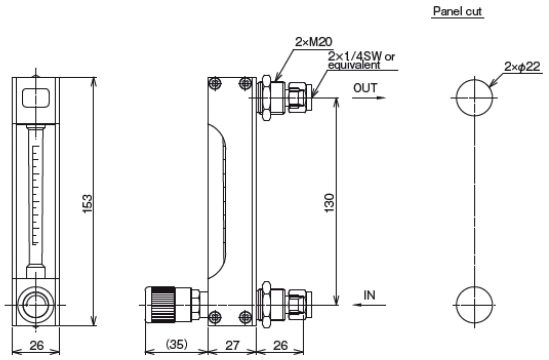
● P – 881 – U □ 0 – 6 □ – R2

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



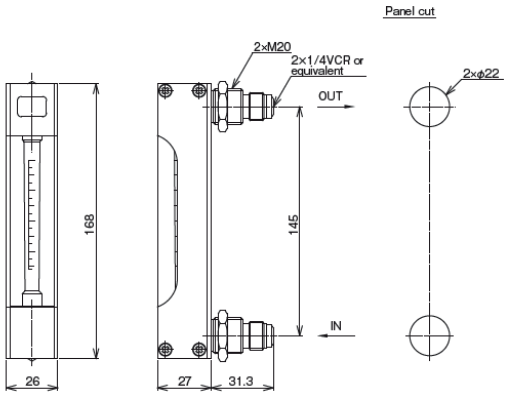
● P – 882 – L □ 0 – 6 □ – S2

■ Lock nut mounting on the panel front
■ Valve at the inlet



● P – 883 – 0N0 – 6 □ – V2

■ Lock nut mounting on the panel front
■ Without a valve



*Specification is subject to change without notice.

www.sps-international.com | www.sps-polos.com | www.waferhandlingsystems.com | www.esproflow.com
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