

'ECHNICAL

Corrosion-resistance type purgemeter for measuring liquids and gases

P-400

Purgemeter

OUTLINE

The P-400 is a corrosion-resistance type purgemeter with all stainless steel construction. Panel installation and flange connection are possible.

MAJOR APPLICATIONS

Corrosive services

STANDARD SPECIFICATIONS

Measurin	g fluid	Gases Liquids					
		Air Min. 80 to 800 mL/min (nor) Max. 6 to 60 L/min (nor)					
Measurin	g range	Water Min. 5 to 50 mL/min Max. 0.2 to 2 L/min					
ococarii,		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 ab	ility	10:1					
Indication	accuracy	±3% F.S.					
Fluid pres	ssure	Max. 1MPa(Max. 0.5MPa for PVC)					
Fluid tem	perature	Max. 120°C (Depends on the gasket material) (Max. 60°C for PVC)					
	Wetted part	SCS14/SUS304, SCS14/SUS316, PVC					
	Tapered tube	Heat-resistant glass					
Material	Gasket	Nitrile rubber (NBR) (Max. 80°C) Chloroprene rubber (CR) (Max. 80°C) Fluoro rubber (Max. 120°C) PTFE (Max. 120°C) not applicable to PVC body • The maximum fluid temperature for each gasket material may vary depending on usage and ambient conditions.					
	Mounting plate	SPCC, SUS304					
	Cover	Acryl, SPCC, SUS304					
Process (Connection	Rc : 1/4" (Standard) , 1/8", 3/8", 1/2" NPT : 1/8", 1/4", 3/8", 1/2" Flange : 10A, 15A, 20A, 25A					
Mounting		Lock nut mount on panel front (Standard) Flange connection With stand					
Mass		approx. 0.9 kg					

■ ALARM CONTACT AND OUTPUT

Ту	Availability	
Dood quitab time alarm unit	General	×
Reed switch type alarm unit	UL-approved	×
PAU optica	×	

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).

	Α	ir (ON	lPa,0℃)	Pressure loss(kPa) ^{☆ 1}	Ш	Water				
80	to	800	mL/min (nor)	0.5 or less		5	to	50	mL/min	
0.1	to	1	L/min(nor)	0.5 or less	П	10	to	100	mL/min	
0.2	to	2	L/min (nor)	0.5 or less		20	to	200	mL/min	
0.3	to	3	L/min (nor)	0.5 or less		30	to	300	mL/min	
0.5	to	5	L/min (nor)	0.5 or less		40	to	400	mL/min	
1	to	10	L/min (nor)	1 or less	П	50	to	500	mL/min	
2	to	20	L/min (nor)	3 or less	П	0.1	to	1	L/min	
3	to	30	L/min (nor)	6 or less		0.12	to	1.2	L/min ^{☆ 2}	
5	to	50	L/min (nor)	15 or less		0.15	to	1.5	L/min	
6	to	60	L/min (nor)	20 or less		0.2	to	2	L/min	



■ BASIC MODEL CODE

BASIC MODEL CODE															
Model Code									Descriptions	Notes					
P-40 🗆 — 🗆 0					_		Ш	_	Ш	Ш	· ·				
	0										Bottom rear → Top rear (Standard)	Select this code for normal conditions.			
Flow direction	1										Bottom → Top	A valve will be installed externally. For PVC, only this code is selectable but no valve can be installed			
	9										Special				
		_	0								Not provided				
Valve	_ L									Inlet (gas for atmospheric pressure scale)	Refer to "Index & Quick Reference for P Series				
rairo		_	U								Outlet (gas for pressure scale or for negative pressure on the secondary side)	Purgemeters" (TG-S0001).			
Alarm outp	ut			0							Not provided				
	_ 4										SCS14/SUS304 (Standard)				
Wetted par	Wetted parts material			I	_	6					SCS14/SUS316				
					_	Р					PVC				
					_	Z					Special				
							N				Nitrile rubber (NBR) (Standard)				
Gasket ma	teria	al					С				Chloroprene rubber (CR)	Select this code for ammonia gas.			
							F				Fluoro rubber				
							Т				PTFE				
							Z				Special				
										1	Rc1/8 (With R1/4× Rc1/8 adapter)				
										2	Rc1/4 (Standard)				
								-	R	3	Rc 3/8 (With R1/4× Rc3/8 adapter)	Lock nut mounting on			
										4	Rc 1/2 (With R1/4× Rc1/2 adapter)	panel front For other mounting options, Refer to "Index			
									1	1/8NPT (With R1/4 ×1/8NPT adapter)	& Quick Reference for P Series Purgemeters"				
Process co	Process connection									2	1/4NPT	(TG-S0001).			
					-	N	3	3/8NPT (With R1/4 ×3/8NPT adapter)							
							L		4	1/2NPT (With R1/4 ×1/2NPT adapter)					
									3	Flange connection (10A)					
									4	Flange connection (15A)	Cassify a standard				
							-	Z	5	Flange connection (20A)	Specify a standard separately.				
										6	Flange connection (25A)				
										Z	Special				

OTHER AVAILABLE OPTIONS

You can specify the following options:

Double graduations, special graduations, rubber joint type, other joint types, etc. For details, refer to "Index & Quick Reference for P Series Purgemeters" (TG-S0001).

ORDERING INFORMATION

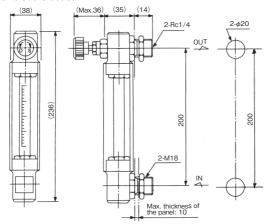
Basic model code	Items to be specified						
P -40 🗆 - 🗆 - 🗆 - 🗆	① ② ③ ④ ⑤ ⑥ Fluid name - Flow range - Press Temp Mounting option - Other options						
(Select in the model code table.)	(Refer to "Index & Quick Reference for P Series Purgemeters" (TG-S0001).)						

DIMENSIONS

Standard type

P - 400 - U0 - 4N - R2

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



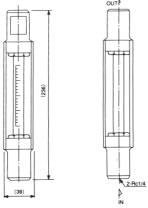
Straight-through type

P - 401 - 00 - 4N - R2

■ Bottom to Top

2

■ Screw connection

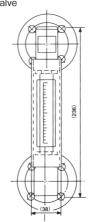


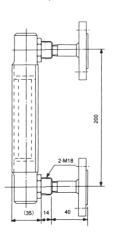
Note: An R3/8×Rc1/2 adapter is attached for Rc1/2 or larger connection.

Flange-ended type

P - 400 - 00 - 4N - Z4

- Flange connection (Mounting option code: E)
- No valve





Standard material

Ctandard material								
Parts name		Standard material	Available material					
Body	\bigcirc	SCS14	PVC					
Tapered tube	\bigcirc	Heat-resistant glass	_					
Float *	0	SUS316, Glass, PTFE, Ruby	_					
Gasket	0	Nitrile rubber (NBR)	Fluoro rubber, Chloroprene rubber (CR), PTFE					
Fitting	\bigcirc	SUS304	SUS316					
Valve	\bigcirc	SUS304	SUS316					
Mounting plate		SPCC	SUS304					
Cover		Acryl	SPCC,SUS304					

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

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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^{*}We will select a proper material for your application. SUS316 may be used instead of SUS304 due to production reasons.