P-510

GENERAL

Purgemeter for medium and large flow rate. It is the same size as P-200 model of small flow rate type.

MAJOR APPLICATIONS

General purpose(Large flow rate)

STANDARD SPECIFICATION

Measuring object			Liquids and gases				
	Air		Min. 2.5~25 L/min(nor). Max. 60~600 L/min(nor).	 Air at 0 °C, 0 MPa (1atm) When selecting flow range, refer to standard flow rate table. 			
ran	ge	Water	Min. 0.1~1 L/min. Max. 3~30 L/min.	 In case Op. Press. of gas is not 0MPa, refer to page 1. 			
R	ange a	ability	10:1				
	Accur	acy	±5 %F.S.				
Ma	x. Op.	Press.	0.8 MPa				
Max. Op. Temp.		Temp.	120 °C	Standard products have the packing materials made of NBR, so Max.Temp.is 80 °C.			
Material		rial	Std.	Option (Specify by model code)			
Body Tapered tube		Body	SUS304	SUS316			
		red tube	Heat-resistant glass				
	Pa	icking	NBR(max.80 °C)	FPM(max.120 °C), CR(max.80 °C), EPDM(max.80 °C)			
	Su	pport	SPCC or C2801P				
	С	over	Acryl				
	Std. Opt.		Rc3/8	Refer to Basic model code			
Connec			Rc1/2,NPT3/8,NPT1/2,3/8SW, 3/8VCR,JIS10KFF etc.	for details.			
		Std.	Thread(M3)mount onto panel front Lock-nut mount onto panel front				
Mounti	ng	Opt.	Bezel installation,Panel-rear installation, Stand provided Flange pipe tube installation	Refer to ordering information for details.			
MA	SS(std	. type)	2.0 kg				
			· · · · · · · · · · · · · · · · · · ·				

*: It is general data, and the maximum temperature may change by terms of use and environment.

ALARM OUTPUT

Туре	Availability	
	General	0
Reed switch type alarm unit	CE, UL Version	0
PAU Optical ala	0	

STANDARD FLOW RATE TABLE (In case Op. Press of gas is not 0MPa, refer to page 1.)

In case alarm or	utput code is 0,E	In case alarm output code is A to D						
Air (0 MPa,0 °C)	Water	Water Air (0 MPa,0 °C)		Water	Alarm setting range			
2.5~25 L/min(nor) 3~30 L/min(nor)	0.1~1 L/min							
5~50 L/min(nor)	0.2~2 L/min	5~50 L/min(nor)*1	10~40 L/min(nor)	0.2~2 L/min*1	0.4~1.6 L/min			
10~100 L/min(nor)	0.3~3 L/min	10~100 L/min(nor)	20~80 L/min(nor)	0.3~3 L/min	0.6~2.4 L/min			
20~200 L/min(nor)	0.5~5 L/min	20~200 L/min(nor)	40~160 L/min(nor)	0.5~5 L/min	1~4 L/min			
30~300 L/min(nor)	1~10 L/min	30~300 L/min(nor)	60~240 L/min(nor)	1~10 L/min	2~8 L/min			
40~400 L/min(nor)	1.5~15 L/min	40~400 L/min(nor)	80~320 L/min(nor)	1.5~15 L/min	3~12 L/min			
50~500 L/min(nor)	2~20 L/min	50~500 L/min(nor)	100~400 L/min(nor)	2~20 L/min	4~16 L/min			
60~600 L/min(nor)	3~30 L/min*2	60~600 L/min(nor)	120~480 L/min(nor)	3~30 L/min*2	6~24 L/min			

*1 Float material should be PVC
 *2 Available for Viscosity 1.0 mPa·s only.
 *1 n case of the specification other than the standard flow table, there may be the change in the flow range for certain reasons of production.

OTHER AVAILABLE OPTIONS

You can specify the following options:

Two point alarm, Alarm setting on the front face, reed switch lead wire length, double graduations, special graduations, built-in check valve type, built-in rubber joint type, built-in joint type, etc. (For details, refer to Other Option).

ORDERING INFORMATION

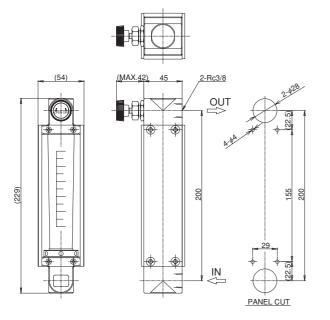
Basic model code	Designation items for detailed specifications						
P-51	1 2 3 4 5 6 Fluid name Measuring range Press. Temp. Mounting Option Other Option						
(Use model code table for selection)	(For details, refer to Advice for Your Product Selection.)						

BA	SI	CI	ИC	D	EL	C	DD	Ξ			
	FLOW DIRECTION	VALVE	ALARM OUTPUT	WETTED PARTS MATERIAL	PACKING MATERIAL	CONNECTION TYPE	CONNECTION SIZE		EXAM	IPI	LE
P-51	0	-L	0	-4	Ν	-R	3		<u></u>	0	
						R	3 4 5 6	Rc3/ Rc1 Rc3 Rc1	8/4	ra)	Front thread (M3) of panel, mounting or pipe "Flow direction code 1(bottom→top) only can be selected."
							3	Rc3	8/8		
						L	4 5	Rc1 Rc3			Lock-nut mounting onto panel front.
							3	NPT3/8 NPT1/2 NPT3/4 NPT1 NPT3/8 NPT1/2 NPT3/4			Front thread (M3) of panel, mounting or pipe
						Ν	5				"Flow direction code 1(bottom→to only can be selected."
						м	6 3 4 5				
						S	3	3/8	SW		Lock-nut mounting onto panel front.
						v	3 4	1/2	VCR VCR		
							5 3		VCR nge (10/	A)	Front thread (M3) of panel, mounting or pipe
						z	4 5 6	Flai	nge (15) nge (20) nge (25)	A)	Specify the standard separately.
					N	Z	Z I(Stand	Spe			
					С	CR			Select	it	for ammonia gas.
					F	FPI EPI					
				4		Spe 304	cial Stand	ard)	Solort	P	-520 model for PVC and
				6	SU	S316	316		PTFE.	s	elect P-7
			0			ecial videc			fluorin	e resin made tapered tube.	
			А	Ree	d sv	vitch	alarm				
			С	Ree	ed sv	vitch	tch alarm (L tch alarm (H tch alarm (H RM UNIT p		D)		See the page describing unctions.
			D E							\vdash	
		0	Ζ	Spe	cial						
		0 L	Botto	om(ga		atmos			ire scale)		ofer to value location colorition
		U				essure scale or for e secondary side)			negative		efer to valve location selection uide.
		Z	Spe	cial						-	
	0		tom tom-			op re	ar(Sta	anda	ard)		elect this code normally. alve should be installed externally.
	9		cial								

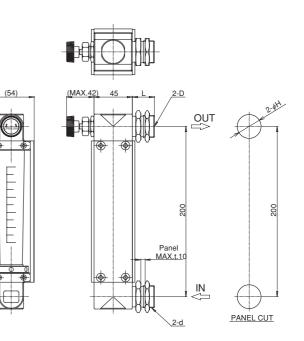
DIMENSIONS

• STANDARD TYPE

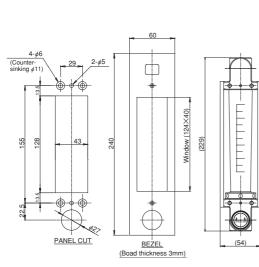
(P-510-U0-4N-R3 Valve provided at Outlet, panel front thread (M3) mounting type)



PANEL-FRONT INSTALLATION TYPE (P-510-U0-4N-L3, Valve provided at Outlet, panel front locknut fixing)



BEZEL INSTALLATION TYPE (P-510-L0-4N-R3, Valve provided at Outlet, Bezel installation.) (Mounting Option code D)



Standard Material

Parts name		Standard materl	Available material		
Body		SCS14	-		
Tapered tube	0	Heat-resistant glass	-		
Float*1	0	SUS304, PTFE	SUS316		
Packing	0	NBR	FPM, CR, EPDM		
Spindle	0	SUS304	SUS316		
Valve	0	SUS304	SUS316		
Mounting board*2		SPCC	SUS304		
Cover		Acryl			

Parts with "O" touch the measuring fluid. *1: Proper material is to be selected, depending on the specifi-cations.

*2: In case of alarm output code from "A" to "D," the standard material to be used is C2801P. SUS316 instead of SUS304 may be used, due to certain

production reasons. Material like ASTM, or AIS equivalent to JIS material may be used due to certain production reasons.

Panel 2-Rc3/8 OUT S ۲ IN 45 (MAX.42)

(229)

PANEL CUT SIZE

For PANEL-FRONT INSTALLATION TYPE, Panel cut dimension may differ depending on connection size and rating. Refer to following table.

	Connec	tion size	Hole diameter	Rear length L						
	D	d	н							
	Rc 3/8	M26	28	26						
1	NPT 3/8	M26	28	26						
	Rc 1/2	M30	32	26						
	NPT 1/2	M30	32	26						
	Rc 3/4	M36	38	28 (34) (38)						
	3/8 SW	M20	22							
	3/8 VCR	M28	32							
	1/2 VCR M28		32	(38)						
	Caution)									

Use non-magnetize material for panel when ALARM ANALOG OUTPUT code is A to D.

In case alarm output code is A to D

Α	Reed switch alarm(LO)	
В	Reed switch alarm(LC)	See the page describing functions.
С	Reed switch alarm(HO)	See the page describing functions.
D	Reed switch alarm(HC)	

In case alarm output code is E

E PAU ALARM UNIT provided See the page describing functions.