

For high temperature (up to 150°C) Applicable to Galden and Fulorinert

W-3000 MINI-WHEEL FLOWMETER

W-3000 Mini-Wheel Flowmeter, based on the acknowledged W-2000 series, can make measurement of fluids up to 150°C by the special fin structure.

This is very suitable to build in semiconductor chiller devices in high temperature.

FEATURES

- Very compact and light in the precision casting body
- Open collector pulse output available
- Continuous measurement of high temperature fluids can be made by the effect of radiation fin.
- · Easy to disassemble or wash

STANDARD SPECIFICATION

Measuring liquid	: Various liquids (Fulorinert, Galden)
Allowable viscosity	: Less than 3.0mPa.s (W-3016 to 3019)
	Less than 2.0mPa.s (W-3012 to 3015)
Fluid temperature	: Max.150°C
Ambient temperature	: Less than 50°C (Without dew condensation)
Fluid pressure	: Max.1.0 MPa
Installation	: Flow of fluid: Make it parallel or vertical.
	(Make the position of wheel shaft parallel
	and the flow path to be on the upper part of

wheel.)

Construction
Output
Pulse frequency

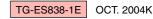
```
Power supply
Load rating
Accuracy
```

Electric connection

- : Indoor use (IP20 equiv.)
- : Open collector pulse (Unscaled pulse)
- : 85Hz approx. (Actual measurement value indicated on tag plate)
- : DC5 to 12V, 12mA
- : Max. DC18V, 15mA
- : ±3% F.S. (W-3013 to 3019) ±5% F.S. (W-3012)
- : AWG26 (12/0.12) x 3C
 - UL2941 4-core cable (Green: Non-use)

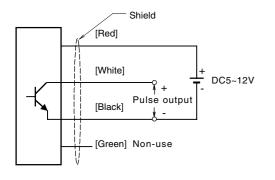
MODEL CODE

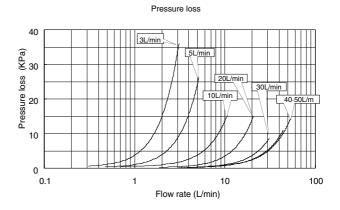
Model code													Development			
W-30	1		-			-		S	3	0	-		Description			
Output	1												Pulse output: Open collector (Unscaled pulse)			
		2											$0.5 \sim 3$ L/min (Flow path nozzle $\phi 3.0$)			
	3											0.7 ~ 5 L/min (Flow path nozzle ϕ 4.0) Connection Rc3/8				
		4											1.0 ~ 10 L/min (Flow path nozzle ϕ 6.4)			
Range of flow rate		5											2.0 ~ 20 L/min (Flow path nozzle ϕ 10)			
Connection size	ize	6											3.0 ~ 30 L/min (Flow path nozzle ϕ 12)			
		7											4.0 ~ 40 L/min (Flow path nozzle ϕ 14) Connection Rc1/2			
		8											5.0 ~ 50 L/min (Flow path nozzle ϕ 16)			
		9											6.0 ~ 60 L/min (Flow path nozzle ϕ 16) Connection Rc3/4			
Inflow direction												Right to Left or Bottom to Top (Wheel on left side against flow path) (Standard)				
Inflow direction											Left to Right or Bottom to Top (Wheel on right side against flow path)					
Cable length									1m (Standard)							
Cable length 2													2m			
F							F				FKM (Fluoro rubber)					
Material of O-ring E										EPDM (Ethylene propylene rubber)						
					S						FVMQ (Fluorosilicone rubber)					
Material of monitoring window S											SUS316					
Material of wheel, bearing and shaft 3										Wheel: PPS, Bearing: carbon containing PTFE, Shaft: Quarts glass						
Accessories 0										None						
Incidental specification (Put applicable number in case of plural case.)								Α	Degrease treatment (Standard)							
B									В	Non-water treatment (Standard)						



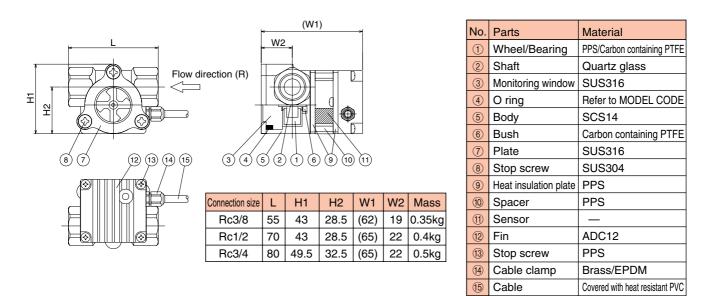
WIRING

PRESSURE LOSS





DIMENSION AND MATERIAL



NOTES

 \Box Do not put a signal cable adjacent to other power lines.

□ Inside diameter of process piping and fitting is to be more than that of flow path nozzle.

□ Installation is to be made at the place free from the influence of external magnetic field which affects the property.

Use this flowmeter where there is no stagnation of air around the wheel and also in the state of water filled up.

 \Box Avoid the air blow since wheel and shaft may be damaged.

□ Keep body and process piping warm, and do not prevent the ventilation between heat insulation plates.

□ Besides the above, the instruction manual describes in details installation, operation and maintenance.

* Specification is subject to change without notice.

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

