

## **Vortex Flow Monitor**

# **Eggs DELTA Pulse**



- Made of PPS resin: compact, lightweight, and economical.
- Ideal for consumption management of energy-fluids or coolant, as well as end-of-process flow monitoring via installation to various equipment.
- Capable of measuring wide range of liquid and gas.
- Resistant to dust and mist. Capable of wet-gas measurement.
- Maintenance free due to absence of moving parts.
- ATEX, TIIS compliant.

#### **■** GENERAL SPECIFICATIONS

Item		Description								
Nominal size		4mm	8mm	15mm	25mm					
Flow range	Water	0.4 to 4	1.1 to 15	2.8 to 45	8.3 to 133					
(L/min)	Air	7.2 to 17	18 to 90	55 to 283	167 to 850					
Process connection		R male (resin), NPT male (resin), Rc female (metal)								
Enclosure		Non-explosionproof or explosionproof								
Accuracy		Liquid: ±2% of full scale or better Gas: ±3% of full scale or better								
Max. operating pressure		0.98MPa								
Fluid temp. range		Standard: -20 to +80°C Explosionproof: -20 to +60°C								
Ambient temp. range		−20 to +60°C								
Major Materials		Meter body, Transmitter housing: PPS resin (Polyphenylene sulfide) O-ring: Viton								
Power supply		12 to 24VDC								
Output		Flow pulse: Open collector (Capacity: 30VDC, 20mA), Pulse width: Duty ratio 1:1 approx.								
Dusttight/waterproof rating		IP65 (*1)								
Installation locat	tion	Free from rain and water with minimal temperature variation, not exposed to the sun.								

<sup>\*1:</sup> IP ratings vary according to structures.

#### **■ UNFACTORED PULSE UNITS OF MEASUREMENT (NOMINAL VALUES)**

Nominal size	Pulse un	its mL/P	Freq. at max. flowrate (Hz)		
(mm)	Liquid	Gas	Liquid	Gas	
4	0.0890	0.890	750	320	
8	0.5406	5.406	460	280	
15	2.363	23.63	320	200	
25	12.66	126.6	180	120	

#### **■ EXPLOSIONPROOF RATINGS**

		Flowmeter	Barrier
Exp. ratings	TIIS	Exia IIB T4	(Exia) IIB
	ATEX	II 1/2 G Exia IIB T4 Ga/Gb	II(1)G (Exia Ga) IIB

<sup>\*</sup> Barrier to be installed in a nonhazardous area.

#### **■ EMC SPECIFICATIONS**

Applicable EU directives	EMC directives: 2014/30/EU			
Applicable standards, etc.	EMC directives: EN61326-1 Class A			

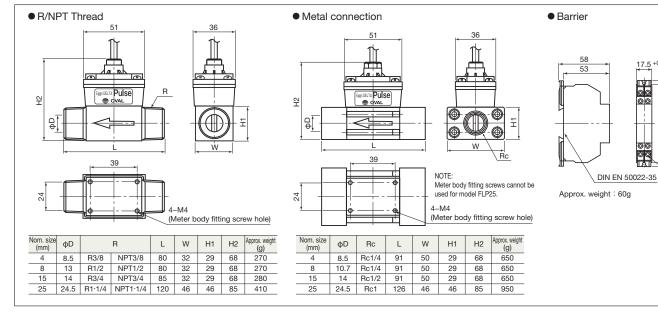
#### **■ PRODUCT CODE EXPLANATION**

Item Code No.									Description			
iteiii	1	2	3	4	⑤	_	6	7	8	9	10	Description
Model	F	L	Р									Eggs DELTA Pulse
	0 4 -									4mm		
Nominal size			8	-						8mm		
Nominal size		1	5	-						15mm		
	2 5 -				-						25mm	
Accontable	Acceptable fluide						L	1				Liquid
Acceptabl	Acceptable fluids						G	2				Gas
	P								Р			R (male thread) Process connection material : PPS
Process c	Process connection S								S			Rc (female thread) Process connection material : SCS14A
N									N			NPT (male thread) Process connection material : PPS
Version B										В		Always "B"
											0	Non-explosionproof
Construction											1	TIIS Intrinsically safe enclosure: Sensor + barrier
											2	ATEX Intrinsically safe enclosure: Sensor + barrier

#### **■** BARRIER

Item	Description
Power	12 to 24VDC
Current drain	10mA max.
Pulse output	Open collector pulse (Capacity: 30VDC, 20mA)
Operating temp. range	-20 to +50°C
Major parts material	Housing : Polycarbonate
Dusttight, waterproof enclosure	IP30

#### **■ OUTLINE DIMENSIONS**



The specification as of June, 2025 is stated in this catalog. Specifications and design are subject to change without notice.



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Unit: mm

17.5 +0.5

98.8