

DUAL PULSE PADDLE WHEEL FLOWMETERS



Constructed
and
manufactured
for Customer
Value



IF500 and IF600 are cost effective stainless steel flowmeters for measuring the flow of water, fuels and other low viscosity liquids in pipe sizes 1.5" to 100" (40 to 2500mm).

The insertion flowmeters are installed with the metering head 1/8th into the pipe resulting in very little pressure drop. They do not require external power when used with the Trimec-FP rate totalisers, however some options such as high temperature require an external power source

Applications include HVAC, hot and chilled water, fire systems, water distribution (management and treatment), boiler feed water and hydrant flow testing.

FEATURES:

- IP68 (NEMA6) submersible 316SS construction
- Low cost of ownership
- Wide flow range
- Intrinsically safe versions

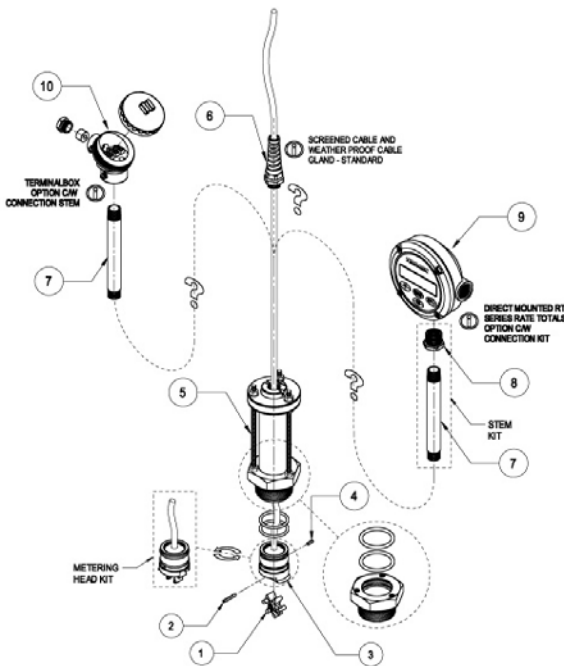
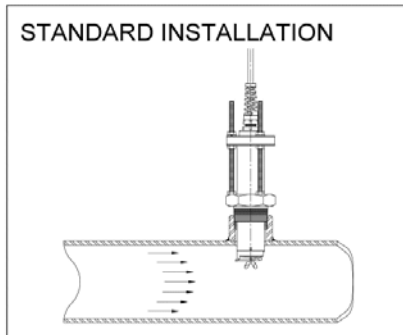
- Integral or remote and flow instruments
- IF600 version suitable for "hot tap" installation

TECHNICAL INFORMATION DUALPULSE PADDLE WHEEL FLOWMETERS

GENERAL SPECIFICATIONS

Model Prefix:	IF500	IF600
Suit Pipe Sizes	40-900mm (1.5"-36")	50-2500mm (2"-100")
Pipe Connection	1.5" BSP or NPT	2" BSP or NPT
Flow Range	0.25-6300 litres/sec (4-99600 USGPM)	0.4-49000 litres/sec (6-78000 USGPM)
Flow Velocity Range	0.3 - 10 metres/sec (1-33 feet/sec)	
Linearity	Typically +/- 1.5%	
Temperature Range	-40°C - +100°C (-40°F - +212°F) 200°C max.	
Maximum Pressure	80 bar (1200 psig)	
Materials	316 St St body & rotor shaft, PVDF rotor	
Pulse Outputs		
* Reed Switch	30Vdc x 200mA max. Nom. 0-80Hz	
Hall Effect	3 wire NPN, 5-24Vdc, 20mA max. Nom. 0-240Hz	
Voltage Pulse	Self Generated Voltage. Nom. 0-240Hz	
Intrinsically Safe Coil	Self Powered, generates 15-300mV	
High Temperature Coil	Self Powered, 200°C (390°F) max.	
Non Magnetic Sensor	3 wire NPN, 5-24Vdc, 20mA max. Nom. 0-240Hz	
Analogue	Loop Powered 4 - 20mA	

* Maximum thermal shock 10 °C (50°F) / min. applies to the reed switch



IF Series Insertion / Paddle Wheel Flow meter model coding

IF500	40 - 900mm Pipe sizes (1.5" - 36")
IF600	50 - 2500mm Pipe sizes (2" - 100"). Suitable for "Hot-Tap" installations (Valve not included)
Body Material	
S	316 Stainless Steel
Rotor / Bearing Materials	
2	PVDF / 316 Stainless Steel (125°C max. [260°F])
3	PEEK / Tungsten Carbide (150°C max. [300°F])
O-ring Materials	
1	Viton (-15°C to +150°C [5°F to 300°F])
4	Nitrile (-40°C to +125°C [-40°F to +260°F])
Temperature Limits	
2	125°C [260°C] max. (available with electrical connections 5 & 6)
3	150°C [300°F] max. (only available with pick-up type 2, electrical connection 5, PEEK rotor and Viton O-ring)
5	100°C [212°F] max. Standard temperature rating
Process Connections	
1	1.5" BSPT male threaded (IF500 only)
2	1.5" NPT male threaded (IF500 only)
3	2" BSPT male threaded (option on IF500, standard on IF600)
4	2" NPT male threaded (option on IF500, standard on IF600)
Pick-up Type	
1	NPN open collector & Voltage pulse (standard)
2	NPN open collector only
3	REED Switch only (may be used with an I.S. barrier or instrument in hazardous areas)
Electrical connections	
C	Flying cable (1.5m [5 ft] on IF500, 1m [3ft] on IF600)
2	Flying Cable (10m [33 Ft])
5	Terminal box on stem kit - IP67
6	Stem kit 3/8" NPT x M16 thread (required for integral options)
Integral Options	
-	NIL
Scaled pulse, alarms, & 4-20mA	R5 RT14 rate totaliser with all outputs (GRN housing)
Scaled pulse, backlighting	R4 RT40 backlit rate totaliser (alloy housing with facia protector)

Model No. Example

IF500	S	2	1	5	-	1	1	6	R5
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