

DUALPULSE PADDLE WHEEL FLOWMETERS



DUALPULSE – insertion flowmeters

DP490 & DP525 are cost effective stainless steel flowmeters for measuring the flow of water, fuels & other low viscosity liquids in pipes sizes 1.5"~100" (40~2500mm).

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 rate totalisers however some options such as high temperature & non-magnetic models require external power.

Applications include HVAC, hot & chilled water, fire systems, water distribution (management & treatment), boiler feed water & hydrant

FEATURES:

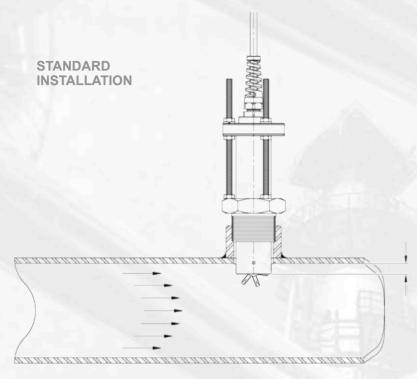
- IP68 (NEMA6) submersible 316SS construction.
- Low cost of ownership, wide flow range.
- Rugged & compact design.Intrinsically safe hazardous area versions.
- Integral or remote pre-amplifiers & flow instruments.
- DP525 version suitable for "hot tap" installation.
- BI-Directional Flow Measurement

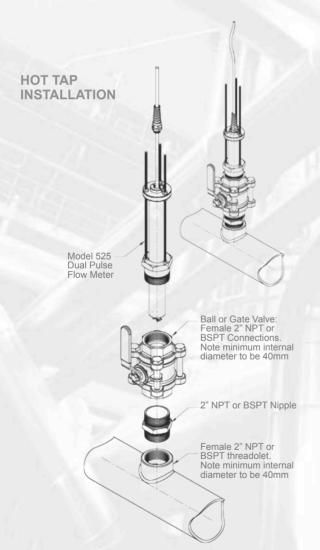
GENERAL SPECIFICATIONS

40~900mm (1.5"~36") 1.5" BSP or NPT 0.25 ~ 6300 litres/sec	50~2500mm (2"~100") 2" BSP or NPT 0.4 ~ 49000 litres/sec	
0.25 ~ 6300 litres/sec		
	0.4 ~ 40000 litros/soc	
(4 ~ 99600 USGM)	(6 ~ 780000 USGM)	
0.3 ~ 10 metres/sec (1 ~ 33 feet/sec)		
typically ± 1.5% with well established flow profife		
-40°C ~ +100°C (-40°F ~ +212°F) 200°C max.		
80 bar (1200 psig)		
316SS body & rotor shaft, PVDF rotor		
30Vdc x 200mA max. Nom. 0~80hz		
3 wire NPN, 5~24Vdc, 20mA max. Nom. 0~240hz		
self generated voltage. Nom. 0~240hz		
self powered, generates 15~3000mV		
self powered, 200°C (390°F) max.		
3 wire NPN, 5~24Vdc, 20mA max. Nom. 0~240hz		
loop powered 4 ~ 20mA		
	-40°C ~ +100°C (-40°F 80 bar (1 316SS body & roto 30Vdc x 200mA m 3 wire NPN, 5~24Vdc, 20 self generated volts self powered, gene self powered, 20 3 wire NPN, 5~24Vdc, 20	

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

TECHNICAL INFORMATION DUALPULSE FLOWMETERS





MODEL CODING

DP490 1.5 to 36" pipes (40 ~ 900mm)
DP525 2 to 100" pipes (50 ~ 2500mm) suitable for "hot-tap" installations

Body material

S 316 Stainless Steel

Rotor & bearing materials

- 1 PEEK high temperature rotor 200°C (390°F)
- 2 PVDF rotor 100°C (212°F) max (standard)
- 3 PVDF rotor with hastelloy shaft (for chlorinated waters)

O-ring materials

- 1 Viton (standard), -15~+204°C (5~400°F)
- 2 EPR (Ethylene Propylene Rubber) for ketones only
- 3 Teflon encapsulated viton application specific
- 4 Buna-N (Nitrile), -65~+125°C (-53~+250°F)

Temperature limits

- 5 100°C (212°F) standard
- 2 125°C (260°F) PEEK rotor only
- 3 150°C (300°F) NPN output & PEEK rotor only
- 6 200°C (390°F) with output type 6 coil & PEEK rotor

Process connections

- 1 BSPT 1½"M (DP490), 2"M (DP525)
- NPT 11/2"M (DP490), 2"M (DP525)
- 2" BSPT male thread on the DP490
- 2" NPT male thread on the DP490

Pick-up type

- 1 NPN hall effect & voltage pulse (standard)
- NPN open collector(s)
- Reed switch only (I.S. applications)
- 4 Non magnetic rotor with NPN output
- Non magnetic rotor with I.S. coil output
- 6 High temp. 200°C (390°F) coil output
- 7 Non magnetic rotor for 125°C (255°F)

Electrical connections

- 1 3 metre (10ft) cable (std)
- 2 10 metre (33ft) cable
- 3 20 metre (66ft) cable
- 4 50 metre cable (164ft)5 Terminal box on stem kit
- 6 Stem kit

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	QP	Quadrature pulse output	
with scaleable pulse output	B2	BT11 dual totaliser	
IECEx & ATEX approved	В3	I.S. intrinsically safe BT11	
scaled pulse, alarms & 4~20mA	R2	RT12 rate totaliser	
IECEx & ATEX approved	R3	I.S. intrinsically safe RT12	
scaled pulse + backlighting	R4	RT20 large LCD rate totaliser	
dc powered 2 stage batch controller	E0	Batch controller	
Requires electrical connection 5	FI	Loop powered 4~20mA output	
	SB	Specific build requirement	

Model No. Example

DP490 S 2 1 5 - 1 1 6 R2