



PRODUCT CONFIGURATION

PRODUCT IDENTIFIER **1**

DP490 = Insertion Meter for 1.5 to 36" (40-900 mm)

DP525 = Insertion Meter for 2 to 100" (50-2500 mm) suitable for "hot-tap" installations (valve not included)

BODY MATERIAL **2**

S = 316 Stainless Steel

ROTOR/SHAFT MATERIALS **3**

2 = PVDF/316 stainless steel (260°F [120°C])

3 = PEEK/tungsten carbide (300°F [150°C])

O-RING MATERIAL **4**

1 = Viton™ 5°F to + 300°F (-15°C - + 150°C)

4 = Buna-N (Nitrile), -40°F to + 260°F (-40°C to + 125°C)

TEMPERATURE RATING **5**

2 = 260° F (125° C) max. (available with electrical connections 5 & 6)

3 = 300° F (150° C) max. (only available with rotor/shaft type 3, pick-up type 2, electrical connection type 5, & Viton™ O-Ring)

5 = 212° F (100° C) max. (standard temperature rating)

PROCESS CONNECTIONS **6**

1 = 1-1/2" BSPT male thread

2 = 1-1/2" NPT male thread

3 = 2" BSPT male thread

4 = 2" NPT male thread

PICK-UP TYPE **7**

1 = NPN open collector & voltage pulse (standard)

2 = NPN open collector only

3 = Reed switch only (not suitable for Temp code 3)

9 = Quadrature pulse output (requires F15 option for bi-directional flow capability)

ELECTRICAL CONNECTIONS **8**

C = Flying cable (5 ft [1.5 m] on DP490, 3 ft [1 m] on DP525)

2 = Flying cable – 33 ft (10 m)

5 = Terminal box on stem kit – IP67

6 = Stem kit 3/8" NPT x M16 thread (required for integral instruments)

DP SERIES INSERTION IMPELLER METERS

FLOMEC® Insertion Meters are cost effective stainless steel meters for measuring the flow of water, fuels and other low viscosity liquids in pipe sizes 1.5" – 100" (10 – 2500 mm). Insertion Meters are a flexible, economic method to measure large flow rates with small pressure drops and low installation costs, with most applications battery powered with a FLOMEC totalizer. Applications include HVAC, hot and cold water, fire systems, water distribution (management and treatment), boiler feed water, waste water and hydrant flow testing.

FEATURES / BENEFITS

- IP68 (NEMA6) submersible 316SS construction (cable connection only)
- Intrinsically safe option available
- DP525 version suitable for "hot tap" installations
- Quadrature pulse option available for bi-directional flow measurement

INTEGRAL OPTIONS **9**

___ =

R4 = RT40 backlit rate totalizer in Aluminum housing

R5 = RT14 backlit rate totalizer with 4-20mA and pulse outputs, in GRN housing

R6 = RT14 IECEx/ATEX Intrinsically Safe rate totalizer with 4-20mA and pulse outputs, in GRN housing (requires pick-up type 3)

R7 = RT40 backlit rate totalizer in GRN housing

F15 = F115 bi-directional flow rate totalizer, 4-20mA and pulse outputs, HART communications

F18 = F018 backlit rate totalizer, 4-20mA and pulse outputs, HART communications

F19 = F018 Intrinsically Safe backlit rate totalizer, 4-20mA and pulse outputs, Hart communications (requires pick-up type 3)

CALIBRATION (for integral display models only) **10**

___ = Display in Litres (DEFAULT)

G = Displays in US Gallons

1 2 3 4 5 6 7 8 9 10
 ---->>> **DP490 S 2 1 5 - 1 1 6 R5**

SPECIFICATIONS

	DP490	DP525
Suits Pipe Sizes	1.5 - 35" (40-900 mm)	2 - 100" (50-2500 mm)
Pipe Connection	1.5" or 2" BSPT or NPT male thread	2" BSPT or NPT male thread
Flow Velocity Range	3 - 33 ft/sec (1 -10 m/s)	
Linearity % of Reading	Typically ± 1.5%	
Temperature Range:	-40°F to 300°F (-40°C to 150°C)	
Max. Pressure:	1160 psi (80 bar)	
Materials	316SS body and rotor shaft	
Protection Class:	IP68 (NEMA 6), optional I.S (Intrinsically Safe) Integral options	
Pulse Outputs		
Hall Effect	3 wire open collector, 5-24v (dc), 20mA max. Nom 0 -240Hz	
Reed*	30v (dc), 200mA max. Nom 0 - 80Hz	
Voltage Pulse	Self Generated voltage, Nom 0 - 240Hz	
Non-Magnetic Sensor	3 wire open collector, 5 - 24V (dc), 20mA max. Nom 0 - 240Hz	
Optional Outputs**	4-20mA, scaled pulse, quadrature pulse	

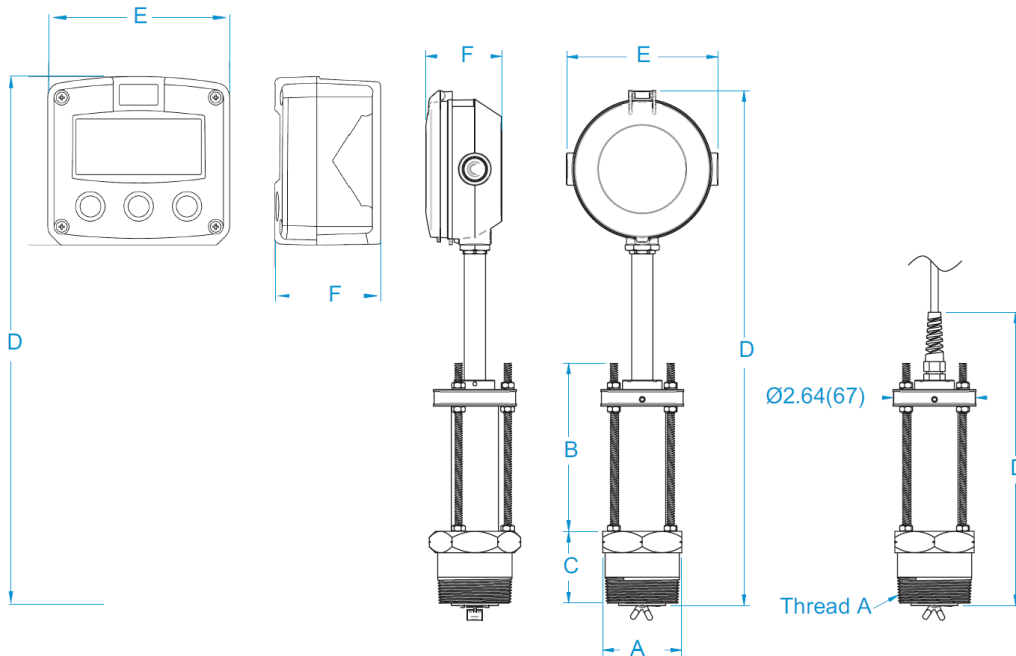
*Reed Switch resolution is 1/3 of the NPN Hall Effect or Voltage Pulse outputs

**Optional Integral option is required

Flying Cable Option	DP490	DP525
A- Thread	1.5" or 2" BSP or NPT	2" BSP or NPT
A - Dimension	2.36" (60 mm)	2.52" (64 mm)
B	7.8" (198 mm)	17.48" (444 mm)
C	1.5" (38 mm)	2.28" (58 mm)
D	9.33" (237 mm)	16.69" (424 mm)

Integral Option	DP490	DP525
A- Thread	1.5" or 2" BSP or NPT	2" BSP or NPT
A - Dimension	2.36" (60 mm)	2.52" (64 mm)
B	7.8" (198 mm)	17.48" (444 mm)
C	1.5" (38 mm)	2.28" (58 mm)
D - RT12/RT14	16.34" (415 mm)	35.43 in (900 mm)
D - RT40	14.96" (380 mm)	34.06" (865 mm)
D - F018/F115	16.26" (413 mm)	35.35" (898 mm)
E - RT12/RT14	0.47" (122 mm)	
E - RT40	4.45" (113 mm)	
E - F018/F115	5.12" (130 mm)	
F - RT12/RT14	2.40" (61 mm)	
F - RT40	2.48" (63 mm)	
F - F018/F115	2.95" (75 mm)	

DIMENSIONS



APPLICATIONS

- HVAC
- Hot and Cold Water
- Fire Systems
- Water Distribution (Management and Treatment)
- Boiler Feed Water
- Waste Water
- Hydrant Flow Testing

Service & Warranty: For technical assistance, warranty replacement or repair contact your FLOMEC® or GPI® distributor. In North or South America: **888-996-3837 / FLOMEC.net**
Outside North or South America: **+61 2 9540 4433 / FLOMEC.net**

Wichita / Sydney

GREAT PLAINS INDUSTRIES

