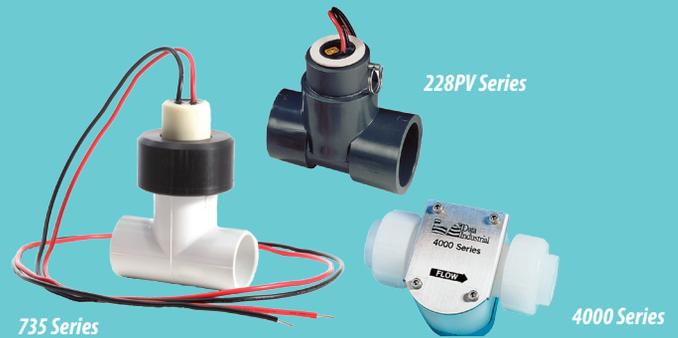


Tee Meter, Plastic

For Pipe Sizes 1/2" To 4"



DESCRIPTION

Plastic tee-style liquid flow sensors are designed for use in liquid systems employing plastic piping. Used in conjunction with a flow monitor or transmitter, these non-magnetic impeller sensors offer high accuracy in liquid flow measurement and total accumulated flow.

APPLICATIONS

- Measuring liquid flow rates
- Accounting for total accumulated flow
- Municipal and groundwater monitoring
- Submetering where flow rate is between 2 and 20 ft/sec. and temperature is below 43°C (110°F)

FEATURES

228PV Series Features

- Glass filled PPS plastic electronics housing...corrosion and impact resistant
- Tungsten carbide impeller shaft...long trouble-free life
- Electronics potted in an epoxy compound... prolonged immersion will not harm
- Schedule 80 PVC tee, solvent weld...durable
- 2 single-conductor, 48" 18 AWG leads...easy installation
- Handles flow rates from 0.5 ft/sec to 30 ft/sec with linearity of $\pm 1\%$ and repeatability of $\pm 1\%$...accurate readings over whole flow range
- Available with 1-1/2", 2", 3", and 4" socket end connections... application flexibility

735 Series Features

- Low price...cost effective for tight budgets
- Handles flow rates from 2 ft/sec to 20 ft/sec
- 18 AWG solid copper with heads...durable
- Modified PVC tee with solvent weld socket end connections in sizes of 1/2", 3/4" and 1"...application flexibility

4000 Series Features

- 4-20 mA output, programmable in the field...compatible with standard control systems
- Low flow accuracy...measure flow rates as low as 0.25 ft/sec
- Superior particle shedding performance

SPECIFICATIONS

228PV Series:

Flow Range	0.5 to 30 ft/sec
Operating Temperature Range	0° to 60°C (32° to 140°F)
Operating Pressure Range	Up to 25°C (77°F): 100 psi; From 25° to 60°C (77° to 140°F): pressure decreases linearly with increasing temperature; At 60°C (140°F): 40 psi
Accuracy	$\pm 1.0\%$ of full scale over recommended flow range
Repeatability	$\pm 0.3\%$ of full scale over recommended flow range
Linearity	$\pm 0.2\%$ of full scale over recommended flow range
Output Frequency	3.2 to 200 Hz, 5 msec $\pm 25\%$ output pulse width

735 Series:

Flow Range	2 to 20 ft/sec
Operating Temperature/Pressure Range	150 psig @ 22°C (73°F); 75 psig @ 38°C (110°F)
Accuracy	$\pm 3.0\%$ of full scale over recommended flow range
Repeatability	$\pm 1.5\%$ of full scale over recommended flow range
Linearity	$\pm 1.5\%$ of full scale over recommended flow range
Output Frequency	3.2 to 200 Hz, 5 msec $\pm 25\%$ output pulse width

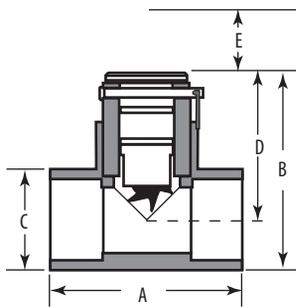
4000 Series:

Flow Range	Standard range: 1 to 20 ft/sec; low flow range: 0 to 20 ft/sec
Maximum Operating Temperature	PVC: 60°C (140°F); PVDF: 104°C (220°F)
Maximum Operating Pressure	PVC: 350 psi @ 60°C (140°F); PVDF: 275 psi @ 105°C (220°F)
Accuracy	<1%
Repeatability	$\pm 0.5\%$
Output	pulse or 4-20mA analog

DIMENSIONAL DRAWINGS

228PV Series

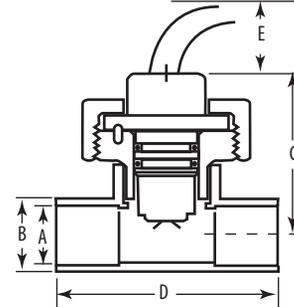
(minimum clearance for sensor removal)



228PV1505	228PV3005	228PV4005
A = 5.0" (127 mm)	A = 6.5" (165 mm)	A = 7.4" (187 mm)
B = 5.2" (131 mm)	B = 6.9" (173 mm)	B = 6.9" (199 mm)
C = 2.4" (61 mm)	C = 4.3" (107 mm)	C = 5.4" (137 mm)
D = 4.0" (102 mm)	D = 4.7" (119 mm)	D = 5.1" (130 mm)
E = 5.0" (127 mm)	E = 5.0" (127 mm)	E = 5.0" (127 mm)

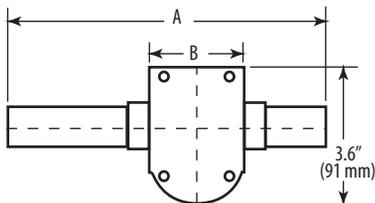
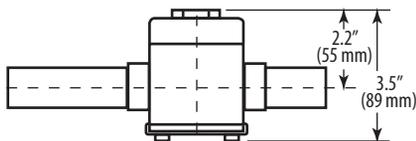
735 Series

(minimum clearance for sensor removal)



735PV0506	735PV0706	735PV1006
A = 0.5" (13 mm)	A = 0.75" (19 mm)	A = 1.0" (26 mm)
B = 0.9" (23 mm)	B = 1.1" (27 mm)	B = 1.3" (34 mm)
C = 3.9" (98 mm)	C = 3.9" (98 mm)	C = 3.9" (98 mm)
D = 3.1" (78 mm)	D = 3.3" (84 mm)	D = 3.5" (89 mm)
E = 4.0" (107 mm)	E = 4.0" (107 mm)	E = 4.0" (107 mm)

4000 Series



400210-0021	411210-0021	402210-0021
A = 8.7" ± 0.25" (222 mm ± 7 mm)	A = 10.6" ± 0.25" (268 mm ± 7 mm)	A = 13.1" ± 0.25" (332 mm ± 7 mm)
B = 4.4" (105 mm)	B = 4.7" (119 mm)	B = 5.4" (137 mm)

ORDERING INFORMATION

MODEL	MANUF. PART #	DESCRIPTION
U001-0032	402210-0021	Flow, Sensor, PurH2O, PVC80, 1", 4-20mA
U001-0033	411210-0021	Flow, Sensor, PurH2O, PVC80, 3/4", 4-20mA
U001-0034	400210-0021	Flow, Sensor, PurH2O, PVC80, 1/2", 4-20mA
U001-0036	228PV1505-1211	Flow, Sensor, Insert, 1 1/2" PVC Tee
U001-0040	228PV3005-1211	Flow, Sensor, Insert, 3" PVC Tee
U001-0041	228PV4005-1211	Flow, Sensor, Insert, 4" PVC Tee
U001-0046	735PV0506-1201	Flow, Sensor, 1/2", PVC, Tee, Pulse, IR, Sch40
U001-0047	735PV0706-1201	Flow, Sensor, 3/4", PVC, Tee, Pulse, IR, Sch40
U001-0048	735PV1006-1201	Flow, Sensor, 1", PVC, Tee, Pulse, IR, Sch40
U001-0049	401210-0021	Flow, Sensor, Ln, PurH2O, PVC80, 3/4", 4-20mA