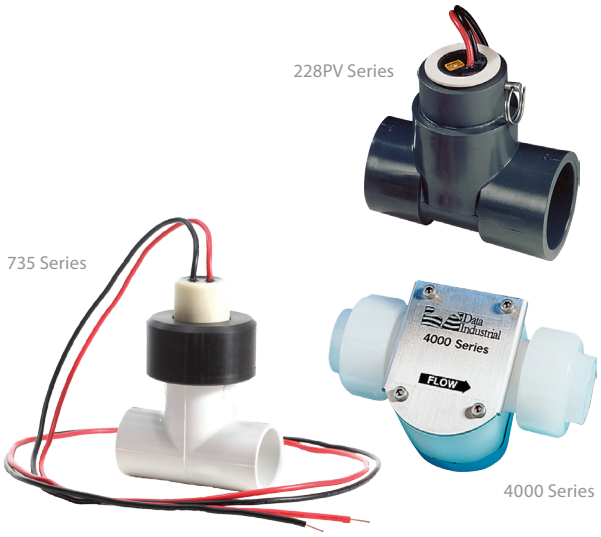
228PV, 735 & 4000 SERIES

For Pipe Sizes ½" To 4"



Corrosion & impact resistant

Glass filled PPS plastic electronics housing (228PV)

Wide flow rate range

Handles flow rates from 2 ft/sec to 20 ft/sec (735 Series)

Durable & reliable

Tungsten carbide impeller shaft (228PV)

Low flow accuracy

measure flow rates as low as 0.25 ft/sec (4000 Series)

Budget friendly

Cost effective for tight budgets (735 Series)

4-20 mA output

4 to 20 mA output, programmable in the field for compatibility with standard control systems (4000 Series)

Plastic tee-style flow sensor for plastic pipe or corosive applications. Use in conjunction with flow monitor or transmitter for a complete flow monitoring system.

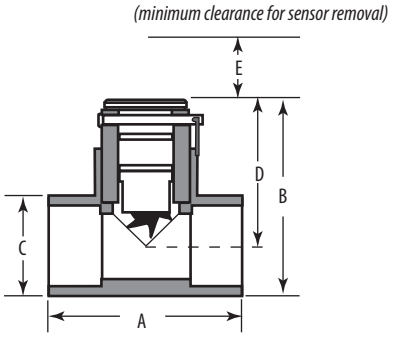
SPECIFICATIONS

228PV Series	
Flow Range	0.5 to 30 ft/sec
Operating Temp 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	±1.0% of full scale over recommended flow range
Repeatability	±0.3% of full scale over recommended flow range
Linearity	±0.2% of full scale over recommended flow range
Output Frequency	3.2 to 200 Hz, 5 ms ± 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	±3.0% of full scale over recommended flow range
Repeatability	±1.5% of full scale over recommended flow range
Linearity	±1.5% of full scale over recommended flow range
Output Frequency	3.2 to 200 Hz, 5 ms ± 25% output pulse width

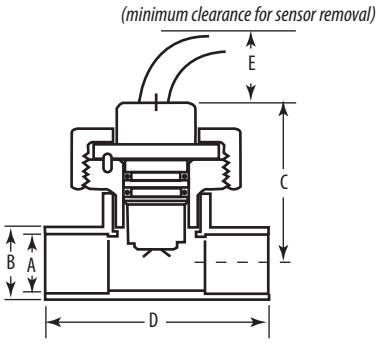
4000 Series	
Flow Range	Design range: 1 to 20 ft/sec; Low flow: Flow range 0.25 to 20 ft/sec
Max. Operating Temperature	PVC: 60 °C (140 °F); PVDF: 104 °C (220 °F)
Max. Operating Pressure	PVC: 350 psi @ 60 °C (140 °F); PVDF: 275 psi @ 105 °C (220 °F)
Accuracy	<1%
Repeatability	±0.5%
Output	Pulse, factor calibration or 4 to 20 mA analog (requires A302 programming cable)
WARRANTY	
Limited Warranty	1 year

228PV SERIES
Dimensional Drawing



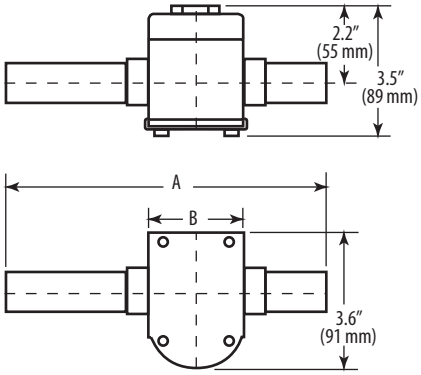
228PV1505	228PV3005	228PV4005
A = 5.0″ (127 mm)	A = 6.5″ (165 mm)	A = 7.4″ (187 mm)
B = 5.2″ (131 mm)	B = 6.9″ (173 mm)	B = 6.9″ (199 mm)
C = 2.4″ (61 mm)	C = 4.3″ (107 mm)	C = 5.4″ (137 mm)
D = 4.0″ (102 mm)	D = 4.7″ (119 mm)	D = 5.1″ (130 mm)
E = 5.0″ (127 mm)	E = 5.0″ (127 mm)	E = 5.0″ (127 mm)

735 SERIES
Dimensional Drawing



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
Dimensional Drawing



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, Pure H_2O, PVC80, 1″, 4 to 20 mA
U001-0033	411210-0021	Flow, Sensor, Pure H_2O, PVC80, 3/4″, 4 to 20 mA
U001-0034	400210-0021	Flow, Sensor, Pure H_2O, PVC80, 1/2″, 4 to 20 mA
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, Pure H2O, PVC80, 3/4″, 4 to 20 mA
U001-0020	A301-20	Programming Cable with CD for Analog/Modbus/BACnet/LonWorks Outputs, Serial PC Connector