MODEL LP22-D STRAP-ON SADDLE METERS are designed for irrigation or other low pressure service up to 150 PSI working pressure. The strap-on design permits installation on many types of pipe material (3/16" PVC wall minimum). It is necessary upon ordering to furnish the I.D. dimension of the pipe the meter is to be mounted on, for calibration purposes. The pipe O.D. dimension must be 4.50" for proper sealing of the saddle to the pipe.

INSTALLATION is made by cutting a hole in the existing pipe line and then attaching the meter securely to the line. U-bolts or U-straps for attaching the meter saddle to the line are furnished with each meter. The meter can be installed horizontally, or inclined on suction or discharge lines. The meter must have a full flow of liquid for proper accuracy. Fully opened gate valves, fittings, or other obstructions that tend to set up flow disturbances should be a minimum of ten pipe diameters upstream and two pipe diameters downstream from the meter. Installations with less than ten pipe diameters of straight pipe require straightening vanes. Meters with straightening vanes require at least five pipe diameters upstream and two pipe diameters downstream. An optional kit of adapters with up to 100 feet of cable is available to locate the digital indicator-totalizer at remote locations.

PROPELLER is magnetically coupled with the electronic sensor through the sealed gearbox. This completely eliminates water entering the meter assembly, and eliminates all moving parts except for the propeller. The propeller is a conical shaped three bladed propeller, injection molded of thermoplastic material resistant to normal water corrosion and deformity due to high flow velocities.

BEARING in propeller is a water lubricated ceramic sleeve and spindle bearing system with a ceramic/stainless steel spindle. Dual ceramic thrust bearings, standard on all meters, handle flows in both forward and reverse directions. The bearing design promotes extended periods of maintenance free propeller operation. The bearing design promotes extended periods of maintenance free propeller operation.

DIGITAL INDICATOR-TOTALIZER has a non-volatile EEPROM memory to store totalizer count (updated hourly while running). Features a large two line display. Five digit top line indicates flow rate, and eight digit bottom line provides volumetric flow data. Indicator is available in 22 different units, including GPM, CFS, MGD. Totalizer is available in 20 different units, including Gallons, AF, CF. Units of measurement are user-selectable. Battery life is 6 -10 years. Housing is NEMA 4X rated. Available with optional 4-20mA and/or pulse output.

DESCRIPTION

MODEL LP22-D STRAP-ON SADDLE METERS

SOLID STATE ELECTRONIC PROPELLER METER CAST STRAP-ON SADDLE DIGITAL INDICATOR-TOTALIZER

4" SIZE

SPECIFICATIONS

ACCURACY

Plus or minus 2% of actual flow within the range specified for each meter size.

PRESSURE RANGE

Up to 150 PSI maximum working pressure.

TEMPERATURE RANGE

140° F Maximum. Consult factory for special construction for higher temperatures.

MINIMUM FLOWS

As shown for each meter size and construction are required for accurate registration. See flow chart.

MAXIMUM FLOWS

As shown for each meter size and construction are rated for continuous operation. See flow chart.

INTERMITTENT FLOWS

As shown for each meter size are rated for 10% to 15% of the total time the meter is operating. Consult factory for High Velocity construction when intermittent flows are higher than shown on flow chart and/or when longer operating periods are required.

MATERIALS

Used in construction are chosen to minimize the corrosive effects of the liquids measured by the meter assembly.

MAGNETS - permanent ceramic type

INTERIOR BEARINGS - factory lubricated

PROPELLER BEARING - ceramic sleeve type

PROPELLER SPINDLE - ceramic coated stainless steel

PROPELLER - injection molded thermoplastic

GEARBOX - cast bronze

SEPARATOR - stainless steel

SHAFTS AND BOLTS - stainless steel

SADDLE - fusion epoxy coated ductile iron

U-BOLTS - electro-galvanized dichromate sealed 101 B steel

U-STRAPS - stainless steel

OPTIONAL EQUIPMENT

Remote mounting kit with up to 100 feet of cable, digital transmitter, and a wide range of controls and instruments for indicating, totalizing and recording flow data for each meter. Special constructions and materials are available upon request.

ORDERING INFO

Must be specified by the customer and includes: minimum and maximum flow ranges, pipe I.D., temperature of meter environment, indicator scale and units, totalizer dial units, type of materials and construction and optional equipment desired.
MODEL LP22-D
150 psi STRAP-ON SADDLE METER
SOLID STATE ELECTRONIC METER
CAST STRAP-ON SADDLE
DIGITAL INDICATOR-TOTALIZER
4" SIZE

METER & PIPE SIZE
FLOW RANGES, GPM
MIN. MAX. INT.
SHIPPING WEIGHT POUNDS

| 4   | 80  | 500 | 700 | 28  |

NOTE: PLEASE SPECIFY PIPE I.D.