Portable & Volumetric Provers

Portable & Volumetric Pipe Provers

Weamco is an industry leader in the design and manufacture of portable pipe and volumetric meter provers. Bidirectional pipe provers have always been the prover of choice in most portable prover applications. Its exceptional track record in the areas of reliability and maintenance, while remaining one of the least expensive, makes it a natural choice for portable prover applications. Weamco has manufactured portable provers for companies and applications throughout the world. Whether you want it trailer, truck or yard wagon mounted, Weamco has the experience and expertise to manufacture high quality user-friendly portable prover designs.





Volumetric meter provers are primarily used for the loading rack market. Weamco's past experience encompasses a vast array of styles and designs of this type of prover. If you have an application that would best be suited with a volumetric prover you will not find a better source for your needs.

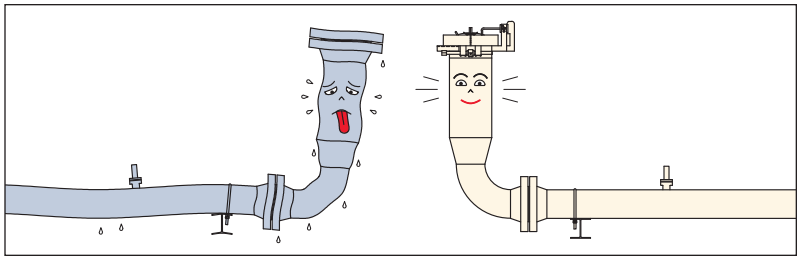
With Weamco you will be working with one of the most professional and highly skilled manufacturing companies in the business. With the vast majority of the complete process taking place in house, it gives Weamco great control of the quality and production schedule helping to improve that crucial on time delivery everyone is looking for.

Prover Refurbishment

For years Weamco has been a leader in the ability to take used meter provers and refurbish them to like-new condition at a fraction of the cost of a new prover. In many cases with updated technology the refurbished prover is better than the original. Whether it is bidirectional, unidirectional, volumetric, portable or stationary, Weamco can refurbish your prover. Refurbishment can be done to your desired specifications, or we would gladly review your current service requirements along with your existing prover and make a recommendation on what we feel would best meet your needs, while staying within your budget. Whatever your situation, you can rest assured that with Weamco's extensive experience in manufacturing and rebuilding meter provers, we have a solution for you.







Typical Prover Specifications

Portable & Volumetric Pipe Provers

Design and Construction:

API Manual of Petroleum Measurement Standards, Chapter 4.2 Proving Systems, ASME B31.4, ASME B31.3

Hydrotest:

Static water pressure

Materials:

Pipe – ASME, ASTM, API

Plate – ASME, ASTM

Flanges and threaded fittings – ASME, ASTM, MSS

Weld fittings – ASME, ASTM, MSS

Heads – ASME, ASTM

Studs – ASME, ASTM

Nuts – ASME, ASTM

Gaskets – Spiral Wound

O-Rings – Viton

Trim:

Scales; brass, graduations engraved per specification, filled with black lines for high visibility

Gauge glass sets; Penderty N5A with protection rods, 5/8" diameter glass

Thermometer and SS thermowell

Prover Refurbishment

Typical items we can offer:

Disassembly and inspection to evaluate extent of work to be performed prior to work commencement

Sandblast out old coating to white metal and bake out remaining

Re-work 4-way valve with soft goods kits, slips, re-chrome body and plug if required

New electric actuators

Lengthen pre-run to increase flow rate

Lengthen calibrated section for meter changes

Internal grinding or repairs of prover pipe

All new seats and O-rings

New sphere stops or ramps

New Mag-Tek® switches

New sphere; inflatable polyurethane, nitrile, or neoprene with accessories (pump and sizing ring)

External sandblasting and painting

Re-calibration; water draw method, repeatability within 0.02 percent per API Chapter 4.2 and Chapter 12.2.4

See Prover Bulletins MPD-112 and PDS-118 for assistance.

All materials and equipment selected for Weamco provers are of the highest quality and consistency. Selection is based on proven industry standards.

Meter Prover Data Sheet

WEAMCO

Customer _____ Date _____

Contact _____ RFQ/PO _____

Email _____ Project _____

Phone _____ Location _____

Address _____ End User _____

FOR RFQ – PLEASE PROVIDE ALL AVAILABLE INFORMATION

TYPE: ☐ Bidirectional ☐ Unidirectional ☐ Volumetric

☐ Launch Chambers Type (Describe) _____ ☐ Horizontal ☐ Vertical ☐ Inclined

☐ Stationary ☐ Portable (Describe) _____

SERVICE: Fluid Type _____ Specific Gravity _____ API / SPEC@ _____

Viscosity _____ SSU / CST@ _____

Flow Rate – Max. _____ Min. _____ GPM / BPH _____

Fluid Temp. – Max. _____ Min. _____ °F Ambient Temperature _____ °F

Fluid pressure – Max. _____ Min. _____ PSIG _____

METER(S) TO BE PROVED:

Make _____ Model _____ Type _____ Size _____

Pressure Rating _____ Pulses per GAL / BBL U.S. _____

CONSTRUCTION: Design Code: Standard is API Chapter 4 & ASME B31.4 _____

Elec. Classification: Standard is NEC Class 1/div 2/group D. _____

ASME Pressure Rating: _____

Insulation Required: ☐ Yes ☐ No If Yes - Type _____ Thk. _____

If Bi-Di, 4-Way Diverter Valve Mfg.: Cameron/General is Std. _____

Actuator/Operator: Type Preferred: _____ Power Required: _____ Operator: ☐ Local ☐ Remote

Internal Coating: ☐ Yes ☐ No If Yes - ☐ Air Dried Epoxy ☐ Baked-On Type _____

External Coating: _____

Sphere Detector Switches Type (Mag-Tek M-6 is Standard) _____

AML Required: ☐ Yes ☐ No If Yes, please provide _____

Vents: Qty _____ Size _____ Valves _____

Drains: Qty _____ Size _____ Valves _____

Pressure Taps: Qty _____ Size _____ Gauge valve _____

Thermometers: Qty _____ Type _____ Thermowells size _____

Pressure Relief Valve: Size _____ Type _____

Field Calibration Nozzles: _____ Electronic instrumentation: _____

FACTORY TEST & CALIBRATIONS

Witness _____ ☐ Yes ☐ No

Hydrostatic Test _____ ☐ Yes ☐ No

Water Draw Calibration _____ ☐ Yes ☐ No

Radiography, ☐ 100 % ☐ Spot _____ % ☐ No

NOTES:

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