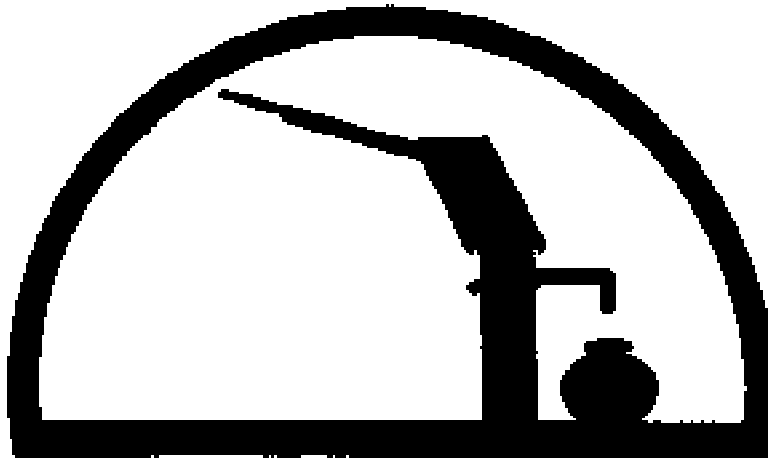


INDIA MARK - II

DEEPWELL

HAND PUMP



Manufacturers & Exporters:
Hrishi Exports Pvt. Ltd.
"Atul" Dhebar Road, Near Corporation Bank,
Rajkot - 360 002 (INDIA)
Phones: +91.281.2231829, 2387164, 2387295, 2387895
Fax: +91.281.2227573, 2389545
E-mail: info@hrishiexports.com, hrishi_ad1@sanchamet.in
Web: www.hrishiexports.com

INDIA MARK - II

DEEP WELL HAND PUMP :

Lack of clean potable water results in, as many as, 80% of all the diseases in the world. Some 750 million people suffer, at any point of time from water related diseases.

Surface water drawn from rivers, lakes, ponds, etc., is generally polluted and requires conventional treatment. Water drawn from deep wells is generally clean and potable.

Deep Well Hand Pump is the most cost effective tool to draw water from bore wells. As these pumps have to work in rural areas, where infrastructure facility for maintenance is not available it is necessary that these pumps are sturdy, reliable, trouble free and easy to operate, Keeping in view the above. **Prem Engineering Pvt. Ltd.** has brought our "**Prem**" **INDIA MARK II DEEP WELL HAND PUMPS.**

The "**Prem**" India Mark II Deep Well Hand Pump is the effective answer to the water needs of rural/semi-urban masses of developing countries. This pump is capable of drawing water from 8 Mtrs to 90 Mtrs. and yield upto one thousand five hundred litres of water per hour.

The built-in simplicity and ease of operation combined with moderate price and proven reliability makes this pump an ideal choice for the developing countries.

SALIENT FEATURES

- **Easy to install and operate**
- **Simple to maintain**
- **Trouble free in operation**
- **Weight of handle compensates weight of 24 M connecting rods**
- **Use of Nitrile Rubber Pump Bucket made out of selected hides reduces wear and tear, hence increase in life**
- **Perfect sanitary seal is ensured when used with bore well of sizes from 100 mm to 150 mm**
- **No reversal of stresses in connecting rods as roller chain link is provided**
- **Pump Head Body is Hot Dip galvanised to protect from corrosion**

QUALITY CONTROL

Full emphasis is laid on quality control to ensure a good quality product that would provide trouble free service for years.

The rigid quality control is exercised at various stages of manufacture starting from raw materials. Every pump is individually checked for welding defects, distortion, alignment and surface finish.

We can offer pump for inspection at our Works to any Inspection Agency nominated by the purchaser

DESCRIPTION

This Deep Well Hand Pump consists of four major assemblies conforming to Indian Standard.

Pump Head/Cylinder Connecting Rod/Riser Pipe

The length of riser pipe and connecting rod depends on the minimum static water level. We recommend placement of cylinder at least nine Metres below the maximum static water level.

PUMP HEAD ASSEMBLY (See Fig. 1)

The above ground mechanism consists of three sub-assemblies.

Head including Hand/Water Tank/Stand

Manufactured from tested quality Mild Steel, all the assemblies are hot dip galvanised. The assemblies can be put together with bolts and nuts supplied with the pump.

CYLINDER ASSEMBLY (See Fig.2)

Graded Cast Iron body lined with solid drawn brass tube of 63.5 mm internal diameter with low co-efficient of friction on account of excellent surface finish coupled with cup seals made of high quality nitril rubber results in easier pump operation and low wear and tear of cup washers. Other moving components are made of Gun Metal/Naval Brass machined to high level of accuracy, ensuring cent percent interchangeability.

WATER COLUMN RETAINER (See Fig.3)

This Gun metal Suction Valve consists of Gun Metal Body, G.M. Stainer, G.M. Valve, Spring and Nut which helps the pump operation in the following ways :

Drinking water problem can be solved easily provided Water Column Retainer is fixed in a tube well, which can retain the water level up to the Hand Pump right from 60 to 70 Mtrs. approx Below Ground level (B.G.L.).

Water Column Retainer is fitted at the bottom keeping the distance of the Water column Retainer and the C.I. Cylinder approximately 40' to 60' which will help even from child to an old man to operate the Hand Pump with out any manual labour.

After fitting the Water Column Retainer it reduces the maintenance problems, also increases the lift of the spare parts of the Hand Pumps.

Only once mechanic can look after so many Hand Pumps after fitting the Water Column Retainer.

Water Column Retainer is made of gun metal so in future it will not rusted.

CONNECTING ROD ASSEMBLY

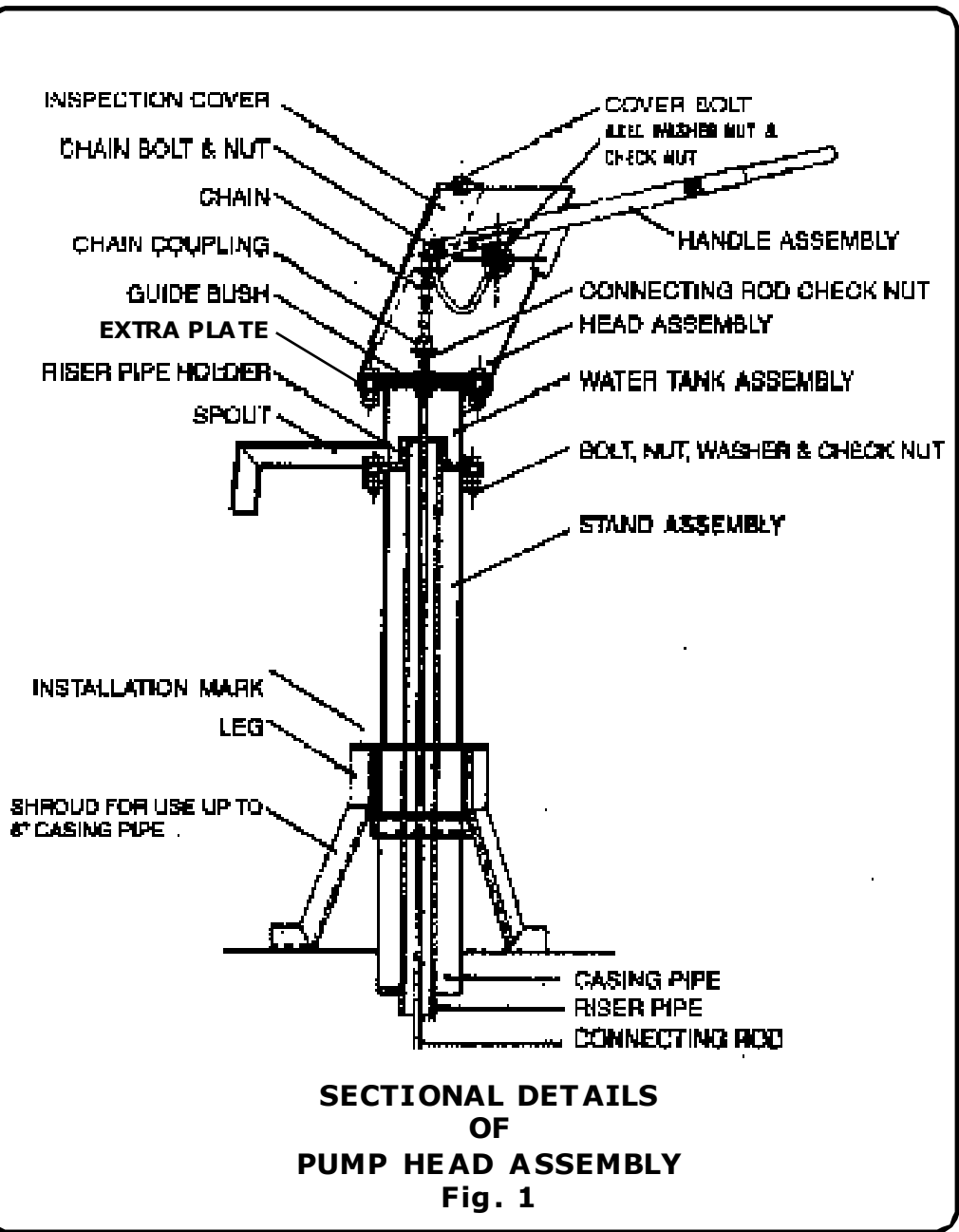
Connecting rods are available in Three Metre length, made from cold drawn bright bars and are electrogalvanised. Alternatively stainless steel rods are also available.

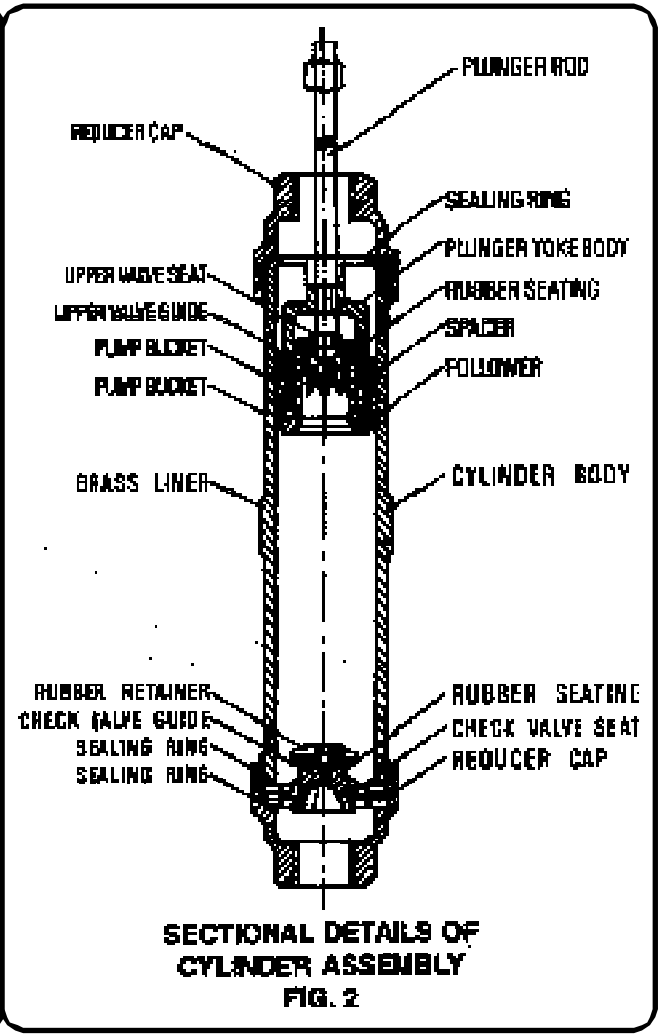
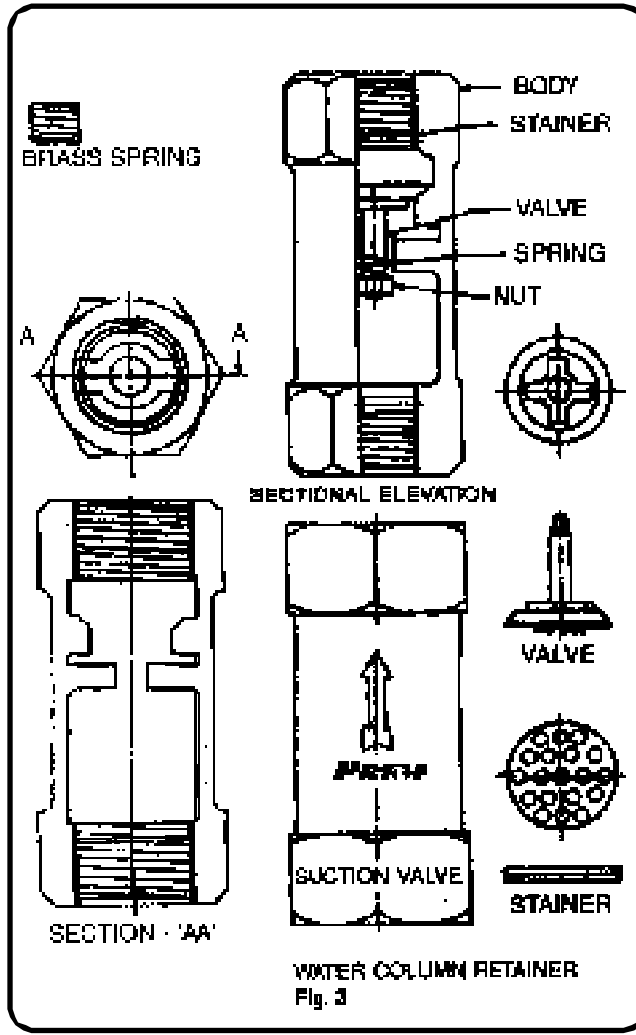
RISER PIPE ASSEMBLY

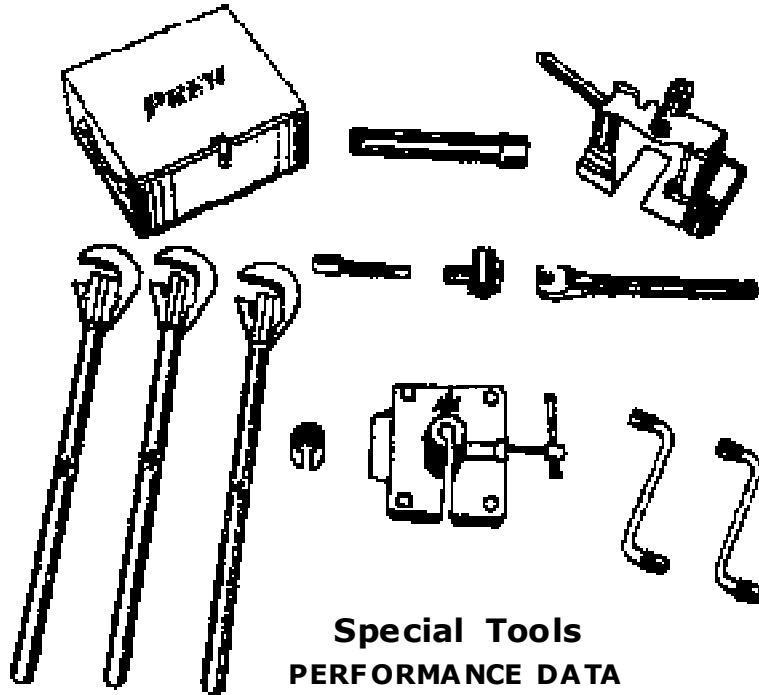
Riser pipes can be supplied in Three Metre length conforming to Indian Standard with both ends threaded and fitted with coupler.

ABOUT OUR PRINCIPAL

Our Principal, Prem Engineering Pvt. Ltd. established in 1995, and has pioneered the oil Engine and Pump Industries. "Prem" engine and Pumps has surpassed many of its contemporaries in performance and quality in the industry. Prem Engineering Pvt. Ltd., are engaged in the exports of various engg. products, including India Mark II Deep Well Hand Pumps. For Exports enquiries, please contact our Principal at following address :







Water depth	Maximum	90 Mts.
	Optimum	28-32 Mts.
Inner Diameter of a Cylinder		63.5 mm
Discharge per Stroke		0.32 Litres
Strokes per Minute		40/80
Discharge per Minute		12/24 Litres

Note : In case pump has to operate beyond 45 metres depth, the pump will be suitably modified. Details are available on request.

INSTALLATION :

Installation of **Prem** India Mark-II Deep Well Hand Pump is easy due to simplicity of its construction. A copy of Manual giving detailed instructions for installation and maintenance, is supplied with each pump.

EXPORT PACKING :**I. FULL CONTAINER LOAD : CONTAINER SIZE 20'-0" X 8"-6" X 8"-0"**

DESCRIPTION	Nett Wt. Kg.	Gross Wt. (Approximate) Kg.
(a) 175 Nos. Complete pumps with 10 Nos, Connecting Rods per Pump but exclusive of Riser Pipe	14,450	16,000
OR		
(b) 100 Nos. complete Pumps with 10 Nos. Connecting Rods and 10 Nos. Riser Pipes Per Pump	17,750	19,100

II. BREAK-BULK-(SEA-WORTHY PACKING)

DESCRIPTION	Volume (Approximate) Cu. Mtr.	Nett Wt. (Approximate) (Kg.)	Gross Wt. (Approximate) (Kg.)
(a) One Head Assembly One Water Tank Assembly One Stand Assembly in one wooden case	0.60	58	120
(b) (i) 5 Nos. Head Assembly & 5 Nos. Cylinder Assembly in one wooden case and (ii) 5 Nos. Water Tank Assembly & 5 Nos. Stand Assembly in one Wooden case	2.05	275	525
(c) 10 Nos. Connecting Rod in one bundle	0.05	28	30
(d) 10 Nos. Rising Main of 3 Metres Long each in one bundle	0.21	95	100