

API are counted amongst the reckoned names in the industry engaged in manufacturing and exporting wide range of India Mark II Deep Well Hand Pumps. in different grades (Including as per IS standard) and dimensions.

AP MAKE INDIA MARK-II DEEP WELL HAND PUMP

SALIENT FEATURES:

- The above-ground mechanism is fabricated from welded steel plates and sections for strength, and hot-dip galvanized for corrosion resistance.
- A chain and quadrant mechanism of the pump handle provides easy and accurate alignment of the connecting rod.
- A unique pivot assembly (sealed ball bearings for the handle on a stainless steel axle) adds to the ease of operation and lower maintenance needs.
- The water tank assembly has an appropriate coupler to suit 32 mm NB medium class galvanized iron (GI) riser pipes or µPVC pipes.
- Riser pipes are comprised of locally available standard 32 mm NB GI pipes. Other options such as μPVC, HDPE & FGP are also available.
- Connecting rods are of cold drawn bright steel bar with threaded and couplers and are electro-galvanized against corrosion. Alternatively stainless steel rods or FGP rods are also available for better performance.
- The cylinder is made from a cast iron casing with a polished brass liner and gun metal plunger and check valve components. Seals (pump buckets, valve seals and cap seals) are available in environmentally safe nitrile rubber. Other options include stainless steel, brass and μPVC. The cylinder is adaptable for use with Universal Cylinder components.

TECHNICAL DETAILS:

CYLINDER : Direct action reciprocating

IDEAL SPEED : 40 strokes per minute

OUT PUT : 900 liters per hour @ 40 strokes per minute

SPACE REQUIREMENT : Circular, 2 meter diameter

OPERATING DEPTH : 25 to 90 m depth

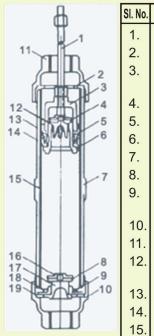
OPERATING MECHANISM: Manually operated handle

CONNECTING RODS : 12 mm diameter electro-plated & welded couplers



CONSTRUCTION

- **HEAD ASSEMBLY:** side plate, back plate, front end top and bottom end plates are made from 4 mm thick MS plates. The bottom flange is made from 6 mm thick MS plate.
- B. **HANDLE:** Made from 32 mm square MS bar. Length of handle is 1170 mm.
- C. CHAIN ASSEMBLY: 7 Pitch Chain Assembly welded with M-12 Internal Threaded Coupler.
- D. COVER: Made from 3.15 mm CR Sheet.
- E. **WATER CHAMBER:** Top and bottom flanges are made from 6 mm thick MS plates. Pipe used is 150 mm NB medium class pipe. The riser pipe holder is made from solid bars to hold 32 mm riser pipes.
- F. **STAND:** The stand flange is made from 6 mm thick MS plate. The pipe used is 150 mm medium 'B' class pipe. The angles are 40 X 40 X 6 mm.
- G. **CONNECTING ROD:** 12 mm dia. MS bright rod / FGR rod in 3 meter length welded with coupler and half coupler electro-galvanized.
- Η. CYLINDER: 63.5 MM ID. Cast Iron cylinder with brass liner and cast iron caps of 32 mm thread with two nitride rubber cup washer (leather) and plunger rod. Option for PVC Cylinder.

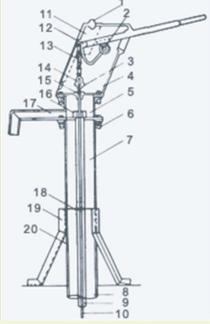


Sectional **Details of** Cylinder Assembly

31. NO.	PART DESCRIPTION
1.	PLUNGER ROD
2.	SEALING RING
3.	PLUNGER YOKE
	BODY
4.	RUBBER SEATING
5.	SPACER
6.	FOLLOWER
7.	CYLINDER BODY
8.	RUBBER SEATING
9.	CHECK VALVE
	SEAT
10.	REDUCER CAP
11.	REDUCER CAP
12.	UPPER VALVE
	GUIDE
13.	PUMP BUCKET
14.	PUMP BUCKET
15.	BRASSLINER
16.	RUBBER SEAT
	RETAINER
17.	CHECK VALVE
	GUIDE
18.	SEALING RING

SEALING RING

PART DESCRIPTION



Sectional **Details of** Pump head Assembly

SI. No.	PART DESCRIPTION
1.	COVER BOLT
2.	AXEL WASHER
	NUT & CHECKNUT
3.	CONNECTING
	ROD CHECK NUT
4.	HEAD ASSEMBLY
5.	WATER TANK
	ASSEMBLY
6.	BOLT NUT
	WASHER & CHECK
_	NUT
7.	STAND ASSEMBLY
8.	CASING PIPE
9. 10.	RISER PIPE CONNECTING
10.	ROD
11.	INSPECTION
11.	OVER
12.	CHAIN BOLT & NUT
13.	CHAIN BOLT & NOT
14.	CHAIN COUPLING
15.	GUIDE BUSH
16.	RISER PIPE
	HOLDER
17.	SPOUT
18.	INSTALLATION
	MARK
19.	LEG
20.	SHROUD FOR USE
	UPTO 6" CASING
	PIPE

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