

# HYDRO-INDIA 60 Discharge pump

THE SIMPLICITY OF USE OF THE INDIA PUMP AND THE EXCEPTIONAL PERFORMANCE OF VERGNET'S HYDRAULIC TRANSMISSION PRINCIPLE



## → “An alliance of two technologies”

*A reliable technology – hydraulic transmission – proven on 50,000 water points since 1975.*

① The HYDRO INDIA 60 pump totally satisfies VLOM (Village Level Operation and Maintenance) criteria.

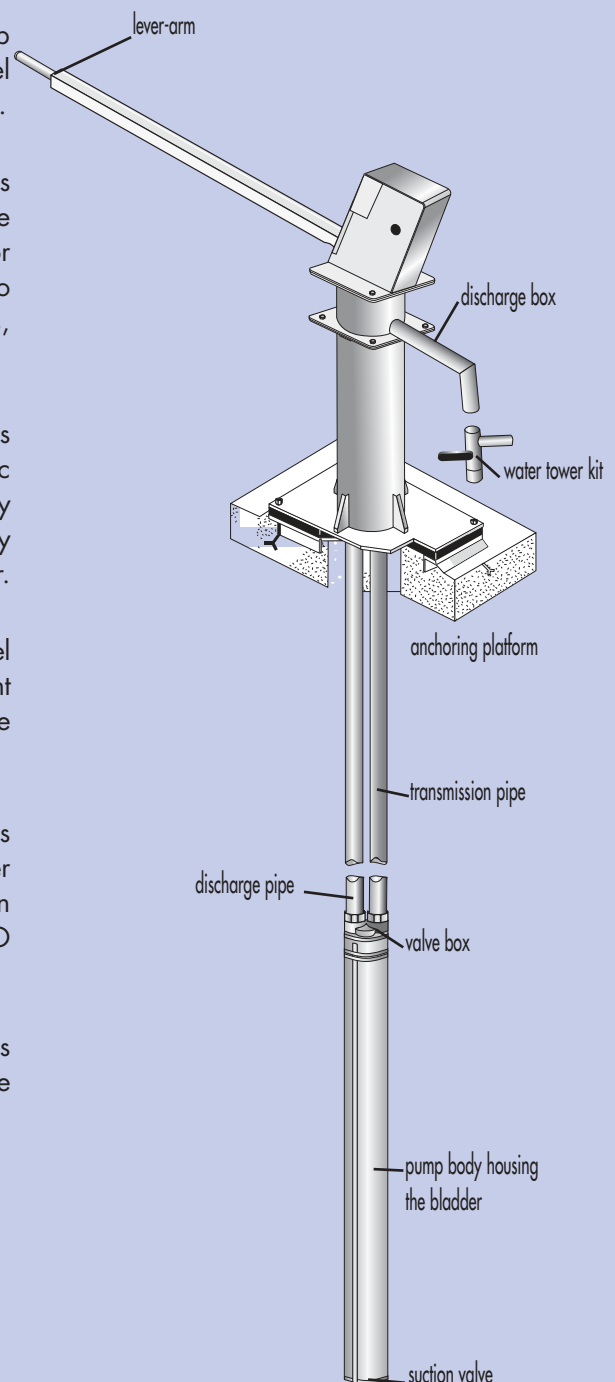
② Its light weight (60 kg at 40 metres depth) and the use of polyethylene pipes enables it to be inserted in or extracted from the well by one or two people in less than 30 minutes, without handling equipment.

③ The HYDRO INDIA 60 pump brings all the advantages of a hydraulic transmission system and the practicality of the INDIA pump head. Its technology enables it to feed a raised water tower.

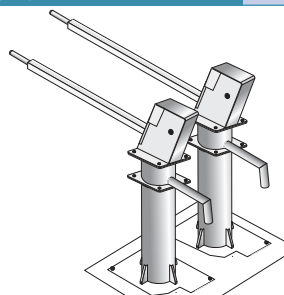
④ All wearing parts are at ground level and very accessible for replacement using a single tool delivered with the pump.

⑤ The average maintenance cost is unrivalled today: 15 to 30 euros per year. Wearing parts are available in all stores of the VERGNET HYDRO network.

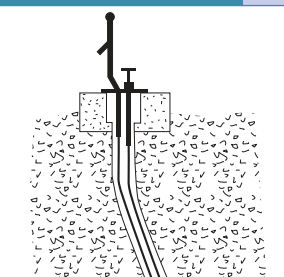
⑥ The HYDRO INDIA 60 pump is totally corrosion resistant thanks to the use of rust-proof materials.



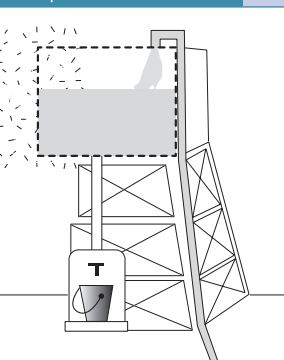
Several pumps on the same well



A vertical borehole is not essential



Water tower option

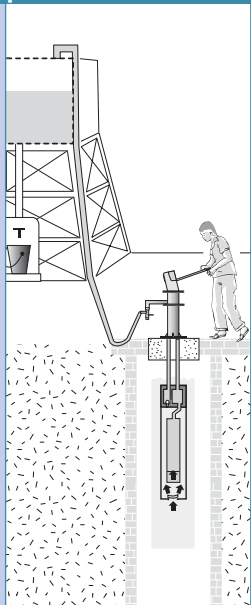


\*(Village Level Operation and Maintenance)

# HYDRO-INDIA 60 Discharge pump

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## Operation



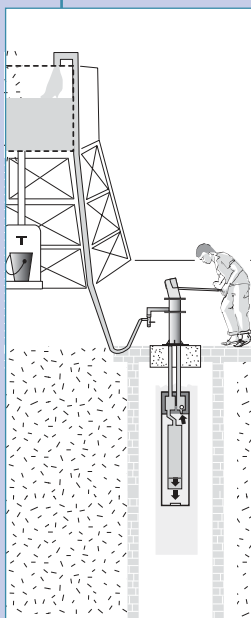
### Suction :

As the lever-arm rises the bladder retracts sucking water into the stainless steel pump body

Discharge valve closes

Bladder retracts

Suction valve opens



### Discharge :

As the lever-arm is pressed down the bladder distends, driving water to the surface

Discharge valve opens

Bladder elongates

Suction valve closes

## Technical specifications

### Pump type:

Hydraulic transmission, manual pumping using a lever-arm

### Minimum well diameter:

For 1 pump: 4"  
For 2 pumps: 6"

### Total pump head weight:

24.8 kg

### Command cylinder:

Length: 215 mm  
Inner diameter: 60 mm

### Command rod:

Stainless steel

### Pipes:

High-density polyethylene

#### Transmission pipe:

Outer diameter: 32 mm  
Inner diameter: 23 mm

#### Discharge pipe:

Outer diameter: 32 mm  
Inner diameter: 26 mm

Pipe weight: 0.72 kg per metre of transmission pipe and discharge pipe

### Pump body (stainless steel):

Length: 1400 mm  
Outer diameter: 94 mm  
Weight: 10 kg

### Bladder:

Natural length: 760 mm  
Very severe quality control testing enables a 3 year guarantee and a 15 year working life expectancy.

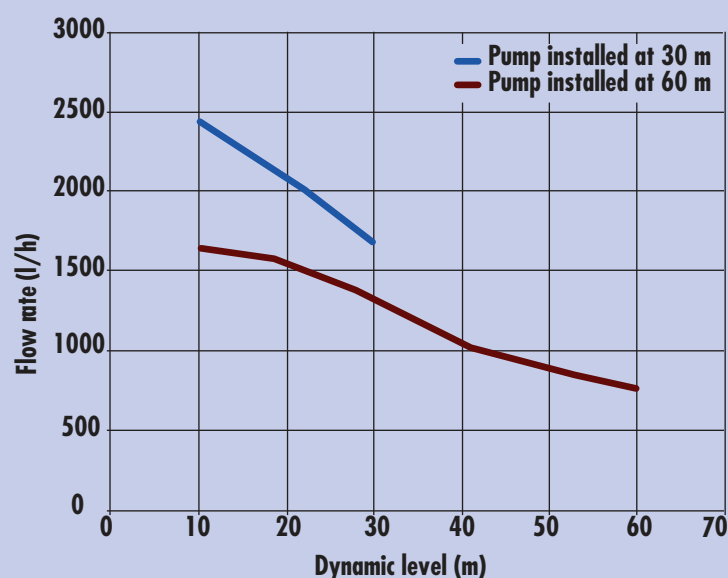
### Valves:

Membrane and ball valves (synthetic material)

### Strainer:

The Hydro India pump body is delivered with a standard stainless steel strainer. The pump head is mounted on a fixing frame using brass nuts.

## Performance



Certification no. BVOLA2P010311J/002

25/07/2001 - Bureau Veritas