MAGIRSHA





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Magirsha Industries

336 / 23, GIDC Makarpura, Vadodara - 390 010. India Phone: (O) 422153 (F) 645474 • Fax: +91 265 432323 E-mail: magirsha@ad1.vsnl.net.in

DESCRIPTION: Magirsha Jet Pump is run by steam or pressurized water and operates on venturi principle of one liquid inducing the flow of a second liquid.

Steam or water under pressure enters the pump's inlet tube; its high velocity lowers the pressure in the suction chamber, inducing the flow of the second liquid (or vapour or gas); the second liquid mixes with the steam or water operating medium and is ejected through the discharge tube.

Magirsha Jet Pump is made of high quality, heavy wall, graded cast iron with bronze or stainless steel internal parts for longer operating life, its unique design allows the liquid, vapour or gas from the suction chamber to surround the venturi inlet nozzle for more efficient operation.

ADVANTAGES:

The pump provides users with the advantages unmatched by other types of pumps.

- Electricity is not required
- Compact and simple construction
- No valves or moving parts to break or wear out
- Efficient
- Automatic and self-priming No lubrication is required
- Works in any position Practically Noiseless
- Easy to install
- Low operation & maintenance cost

APPLICATIONS:

MAGIRSHA Jet Pump can be used for variety of engineering and industrial applications for industries including

- □ Power Plants □ Steel Mills Sugar Mills
- Public Utilties
- ☐ Chemical Plants ☐ Construction
- Food Processing Plants

USES:

- General Pumping applications

Tanneries

- Mixing Two Liquids
- Petroleum Refineries ☐ Mines
- ☐ Textile Mills
- Distilleries

- Filling Tanks
- Transferring Liquids

- Lifting Liquids
- Heating Liquids

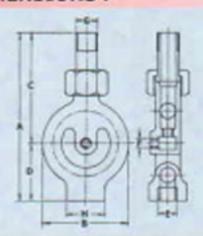
- Removing water from shallow mines, wells, pits, quarries, etc.
- Pumping solids in suspension Mixing granular solids with Liquids
- Aeration

INSTALLATION / OPERATION:

MAGIRSHA Jet Pump can be installed in any position without affecting its performance for maximum effectiveness, piping should be of minimum length, as straight as possible and with minimum number of bends. Inlet piping should be large enough to supply maximum flow to the pump. Discharge piping should be equal to pump discharge size. Suction pipe must be airtight.

Open steam valve slowly to create suction and achieve the operating condition. Pump should be placed as close to the liquid suction stream as possible. Always use a strainer on the suction pipe.

DIMENSIONS:



Pump Model	А	В	С	D	Е	F	G	Н
025	225	120	135	79	1" BSP Female	1/2" BSP Female	3/4" BSPT Male	45
050	279	175	168	111	2" BSP Female	3/4" BSP Female	1 1/2" BSPT Male	86

PEROFORMA DATE: Suction capacity in LPM for water@270 C: Steam as operating medium

Suction Lift in mtrs.			1.2			3.6				6			
Dis	charge Head in mtr	s.	0	3	9	15	0	3	9	15	0	3	9
4 10	Inlet steam press Kg/Cm2g.	3.5 5.2 7.0	75 80 81	58 72 80	38 41 54	30 36	61 66 64	46 56 62	34 34 46	38 31	43 46 39	39 39 39	30 30 38
Model 050	Inlet steam press Kg/Cm2g.	3.5 5.2 7.0	300 318 324	232 288 318	153 165 214	122 147	245 263 257	183 226 251	134 134 183	153 122	171 183 159	159 159 159	122 122 153

STEAM CONSUMPTION:

Stem Consumption in Kg/Hr at various operating pressure is given below:

Durana	Steam	pressure, Kg/	Cm2g	
Pump	3.5	5.2	7.0	
025	58	80	101	
050	233	319	405	

MAXIMUM PARTICLE SIZE:

The pump can handle solids in suspension of maximum size as given in following table:

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Pump Model	Particle size in mm.dia.				
025	8				
050	14				