

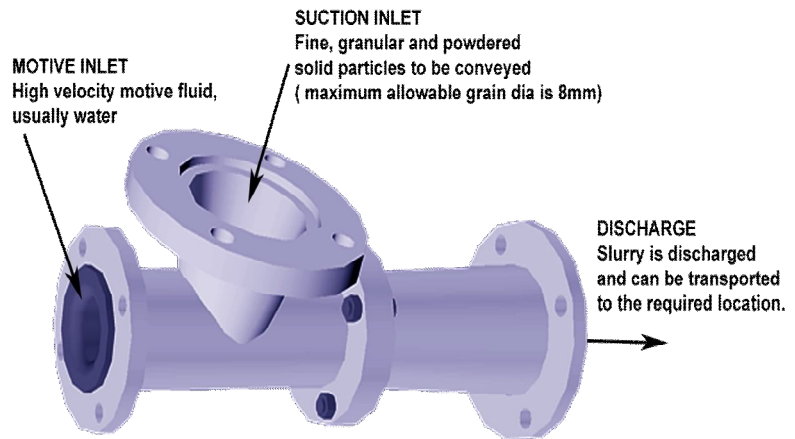
# LIQUID JET SOLID PUMP E-1200 SERIES



Liquid jet solid pumps are a special application of eductors which are used in conveying fine granular solids using a liquid.

## PRINCIPLE

Eductors using liquid in handling dry solids use liquid under pressure which enters the eductor from the motive nozzle to produce high velocity jet. The motive liquid, usually water emerges from the motive nozzle in the form of high velocity jet into the mixing chamber of the pump thereby, entraining the material in the mixing chamber. Depending upon the material to be conveyed, rinse water is sprayed into the hopper in order to maintain a continuous and constant flow.



## APPLICATIONS

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>o To convey:             <ul style="list-style-type: none"> <li>• sand</li> <li>• gravel</li> <li>• salt</li> <li>• activated carbon</li> <li>• ion exchange resin</li> <li>• granular solids</li> <li>• absorbent carbon</li> <li>• precipitating agents for effluent water treatment plant</li> <li>• Semi solids such as crashable food stuffs and other types of solids</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>• To fill and empty the reactors with the reactor mass in drinking water decarbonising plant</li> <li>• Producing emulsions</li> <li>• Pumping of food products</li> <li>• Adding additives to the reactors</li> </ul> |
|---|---|

## ADVANTAGES

- Low Cost
- No moving parts
- Self Priming
- Safe
- Easy to install
- Corrosion and Erosion resistant
- Simple & reliable
- Automatic control as option
- Practically no maintainence during its service if "washed down" periodically

## MATERIAL OF CONSTRUCTION

- o We offer the pump with the following materials as standard :
  - CI
  - CS
  - SS
- o Other materials can also be offered as per customer requirement.

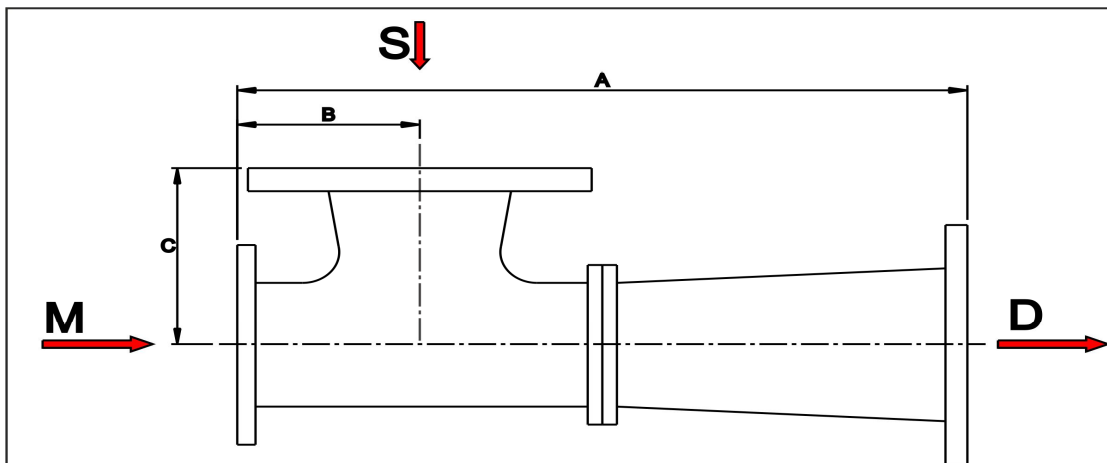
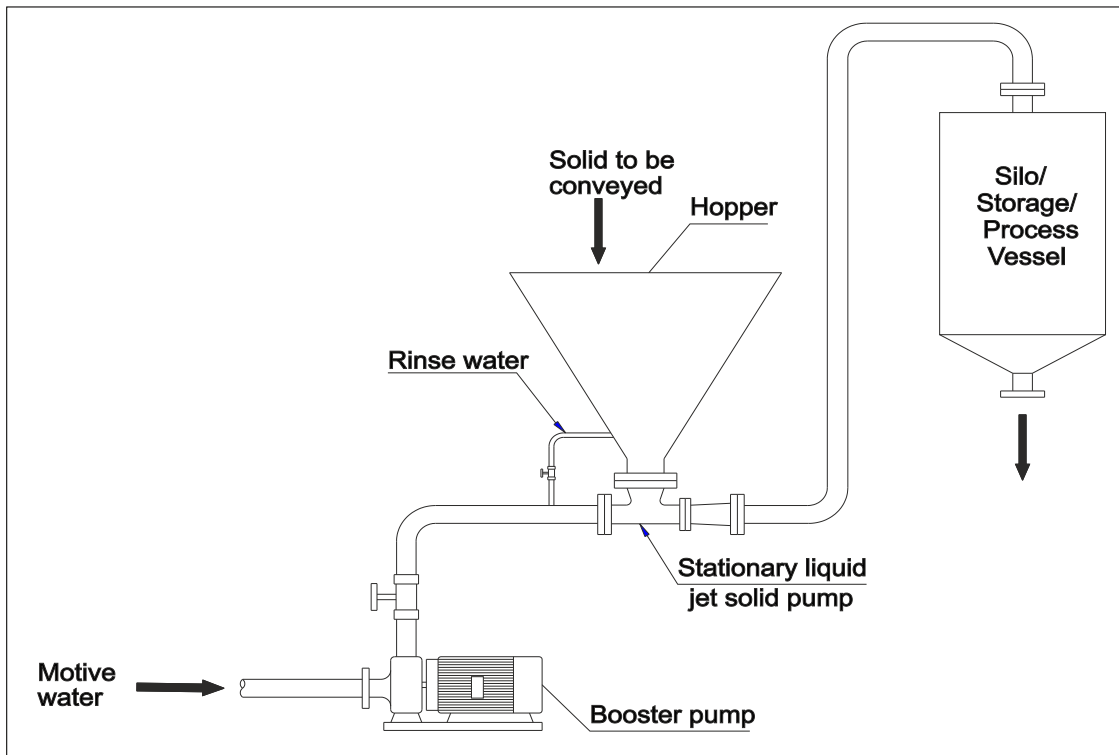
## INDUSTRIES USING LIQUID JET SOLID PUMPS

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>• Water treatment</li> <li>• Food and Pharmaceutical</li> <li>• Glass</li> </ul> | <ul style="list-style-type: none"> <li>• Chemical Processing</li> <li>• Power</li> <li>• Agricultural purposes</li> </ul> |
|---|---|

## END CONNECTION

Flanged to ANSI B 16.5 150# as a standard. We can also provide other standard end connection as required.

## TYPICAL INSTALLATION



Model	Flow rate Solid to be conveyed (kg/hr)	Motive water flow at 3 bar g (m <sup>3</sup> /hr)	End connection (NB)			Overall Dimensions (mm)		
			M	S	D	A	B	C
E1201	500	2.4	25	40	25	300	80	100
E1201.5	1000	4.8	40	50	40	350	100	120
E1202	2500	12	50	80	50	500	120	140
E1203	5000	24	80	100	80	600	140	160



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