

Liquid Jet Liquid Pumps (Eductor)

Liquid jet pumps are jet pumps operating on the ejector principle which suck a liquid by means of a motive liquid jet, mix the motive and suction flows and convey the mixed flow.



Advantages

- Self-priming
- Simple and reliable
- Corrosion and erosion resistant
- Automatic control
- Easy to install
- Low cost
- May be installed in any position
- Wide range of materials such as steel, stainless steel, cast iron, bronze, Teflon and graphite

Applications

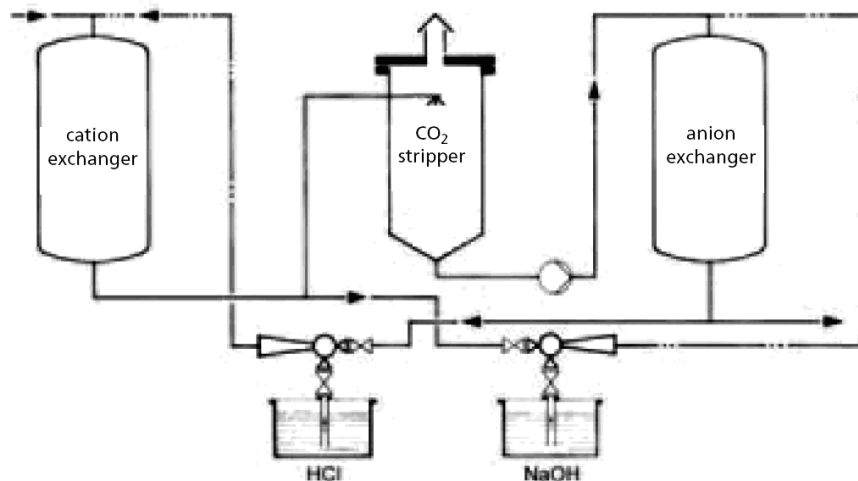
- Conveyance and mixing of fluids and suspensions in the chemical and pharmaceutical industry
- Draining of cellar rooms



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- Pumping out of foundation pits
- Conveyance of dirt water, sewage, slurry or sludge in water, sewage, building and other industry
- Proportioning chemical solutions and diluting acids and alkali to a definite end concentration
- Conveying and mixing acids or lyes in water and effluent treatment plants
- Acidifying/causticizing oils
- Introducing antiknock agents and colouring additives to gasoline



Demineralization unit in water treatment plant: liquid jet liquid pumps convey HCl and NaOH in proportion

Installation Requirements

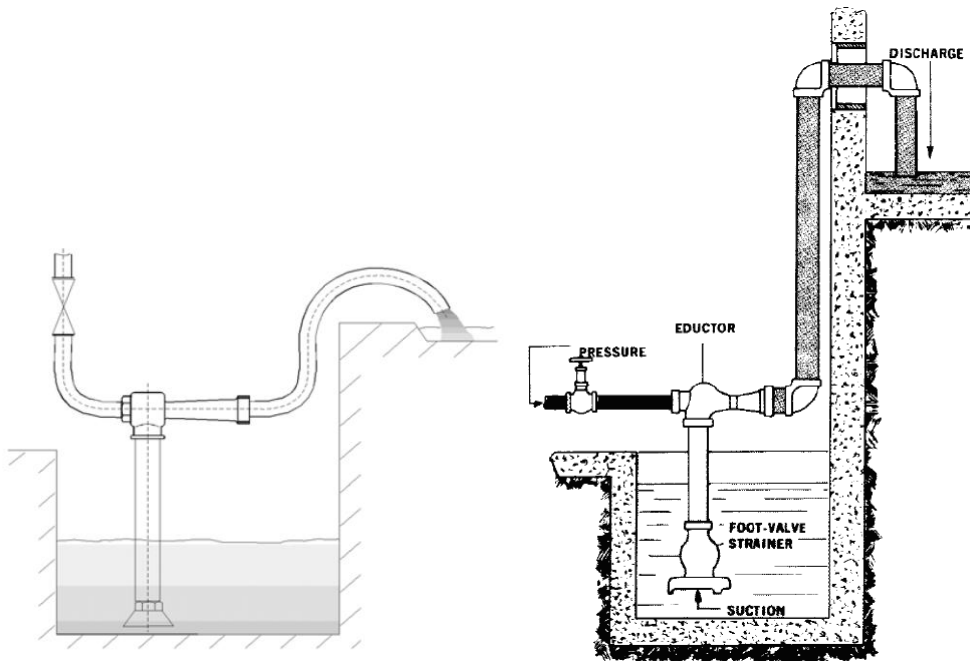
- The connection pipes have to be of at least the same size as the connections of the water jet pump
- The pumps have to operate against pressure. Therefore, it is recommended to install a non return and a throttle-valve after the water jet pump.
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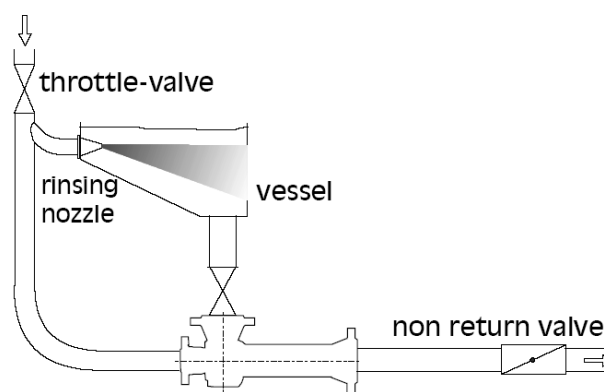
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- The cleaning of the water jet pump is done by closing the throttle-valve after the pump. The driving water flows through the suction pipe and removes impurities.
- A bend in the discharge pipe can prevent backflow



- In case of conveying slurry and sludge It is recommended to provide rinsing water because the suction medium has to be flowable.



- The slurry suction pipe should be installed straight between jet pump and vessel. In case of a blocked suction pipe it is easy to clean after removing the cleaning cap.