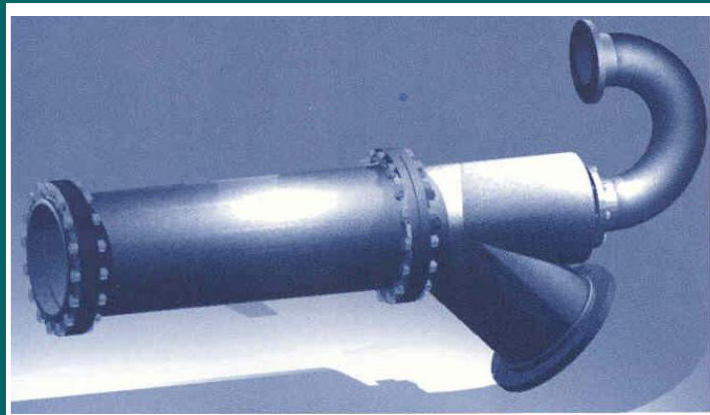
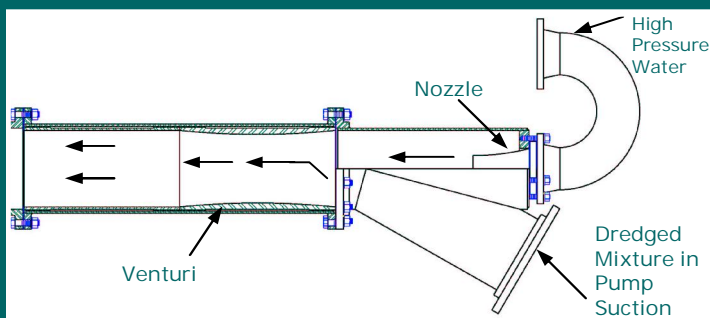




HYDRA-JET



Hydra-Jet



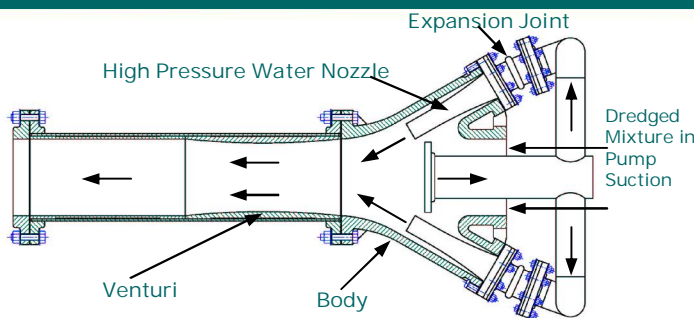
OPEN SUCTION

Hydra-Jet

For open suction dredges.
Sizes 8" thru 24".

DESIGN FEATURES:

- All wear parts are High Chrome
- Self-supporting in suction line.
- Water volume and pressure easily regulated by changing nozzles.
- Low maintenance and operating costs.
- Simple rugged construction.



TWIN

Hydra-Jet

For cutter-suction dredges and dredges equipped with chain-type digging ladders.
Sizes 8" thru 24".

DESIGN FEATURES:

- All wear parts are High Chrome
- Water volume and pressure easily regulated by changing nozzles.
- Simple rugged construction.
- Must be supported in suction line by a ladder.

How A Hydra-Jet Works

The Thomas “Hydra-Jet” is a device installed in the suction pipe of dredges. The “Hydra-Jet” is designed to introduce high pressure water, through a nozzle or nozzles, into a Venturi.

The Venturi is designed with a converging section into a throat area and then a diverging section discharging into the dredge suction pipe.

As the high pressure water motive force passes through the Venturi’s throat area, the velocity is increased with a reduction in pressure (partial vacuum) being created.

The atmospheric pressure acting on the water surface of a river, lake or pond forces a mixture of water and dredged material up the suction pipe inlet into the jet body’s mixing chamber. The mixture of dredged material and water plus the high pressure water from the nozzles or nozzles, then enter into the venturi section.

What A Hydra-Jet Will Do

INCREASE PRODUCTION

“Hydra-Jets” have been installed on open suction dredges, cutter-suction dredges and dredges equipped with a chain-type digging ladder, with increased production from 25% to 35%.

DIGS AT 120 FOOT DEPTHS

Hydraulic dredging now can be achieved to 120 foot digging depths with a “Hydra-Jet” in the suction pipe of the dredge.

INCREASE PRODUCTION WITHOUT HIGH INITIAL COST

Save money by adding a “Hydra-Jet” system to your dredge, with increased production but maintaining existing dredging system and processing plant size.

When A Hydra-Jet Is Needed

- **WHEN INCREASED PRODUCTION IS REQUIRED**
- **WHEN CLEAR WATER VACUUM REACHES 12-14 INCHES OF MERCURY**
- **WHEN DREDGING BELOW 35 FOOT**

Our Range:

**Orion and Thomas Series of
Horizontal Rubber and Metal Lined Pumps**
XR/XM, Extra

**The Sala Series of Vertical & Horizontal
Rubber and Metal Lined Pumps**

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