PUMPS AND VALVES
FOR
FLUSH SYSTEM

3” HIGH PRESSURE PUMP ON PONTOON

To transfer liquid up to 63 feet of working head.

Reliable low horsepower pump to refill flush tanks.

Pump Specifications

Direct drive — 3 to 10 HP.

Unique bearing assembly with greasable flanged bearings always above water level. No seals and bearings in urine.

The pump can be adjusted heightwise to get only 4 inches of liquid over the pump housing.

Built with a progressive centrifugal pump housing to deliver high pumping head with low HP.

Curved blade impeller made of ductile cast iron.

Grease bank allowing the installation of remote grease lines to lubricate the pump from the side of the lagoon.

Pump can be tilted up for easy maintenance.

Pontoon Specifications

Each polyethylene float is completely filled with foam and is UV resistant assuring long life.

Floats overall dimensions: Width 7’ 3” - Length 8’ 4”.

Total weight of pump and pontoon: 820 pounds.

WORKING RANGE OF THE 3” HIGH PRESSURE PUMP

<table>
<thead>
<tr>
<th>Transfer rate in US gallons per minute</th>
<th>Pumping head in feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>150</td>
<td>65</td>
</tr>
<tr>
<td>200</td>
<td>55</td>
</tr>
<tr>
<td>250</td>
<td>45</td>
</tr>
<tr>
<td>300</td>
<td>35</td>
</tr>
<tr>
<td>350</td>
<td>25</td>
</tr>
<tr>
<td>400</td>
<td>15</td>
</tr>
</tbody>
</table>

Pump Shut-Off

- 10 HP = 32 PSI
- 7.5 HP = 26.5 PSI
- 5 HP = 19.5 PSI
- 3 HP = 13 PSI
4" HIGH PRESSURE PUMP

Built with a progressive centrifugal pump housing to deliver high pumping head.

14.5" impeller driven by motor ranging between 20 and 40 HP.

4" HIGH PRESSURE PUMP ON PONTOON

Pump can be winched up for easy maintenance.

Unique bearing assembly with greasable flanged bearings always above water level. No seals and bearings in urine.

The pump can be adjusted heightwise to get only 4 inches of liquid over the pump housing.

Anti-slip hot dip galvanized steel deck

Grease bank allowing the installation of remote grease lines to lubricate the pump from the side of the lagoon.

Pontoon Specifications

Each polyethylene float is completely filled with foam and is UV resistant assuring long life.

Floats overall dimensions: Width 7’ 8” - Length 12’.

Total weight of pump and pontoon: 1,820 pounds.
**Pump HP**

- 20
- 25
- 30
- 40

**Shut-off**

- 30 PSI
- 42 PSI
- 56 PSI
- 75 PSI

**Maximum pumping head permitted**

- 58 ft
- 82 ft
- 110 ft
- 147 ft

Pump RPM must be adjusted according to actual pumping head calculated.

---

**The 4” high pressure pump**

is geared to transfer 500 US GPM at the highest pumping head possible.

See graph below.

---

**TRANSFER RATE: 500 US GPM**

<table>
<thead>
<tr>
<th>Pump HP</th>
<th>Shut-off</th>
<th>Maximum pumping head permitted</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>30 PSI</td>
<td>58 ft</td>
</tr>
<tr>
<td>25</td>
<td>42 PSI</td>
<td>82 ft</td>
</tr>
<tr>
<td>30</td>
<td>56 PSI</td>
<td>110 ft</td>
</tr>
<tr>
<td>40</td>
<td>75 PSI</td>
<td>147 ft</td>
</tr>
</tbody>
</table>

---

**4” VERTICAL HIGH PRESSURE PUMP**

With standard floor mount support.

---

**4” HIGH PRESSURE VERTICAL PUMP**

Pump length available: 6 - 8 - 10 and 12 feet.
4” AGI-POMPE®

4 propeller diameters: 16” - 18” - 20” and 24”, to increase or decrease propeller or impeller speed depending on agitation and pumping needs.

16” impeller driven by motor ranging between 15 and 40 HP.

Belt driven allowing to adjust pump RPM to use maximum motor efficiency.

4” HORIZONTAL AGI-POMPE® 12 FEET ON PONTOON

To agitate main lagoons containing filtrated liquid from sloped screen separators and processed through fine fiber lagoons.

Paddle specification:
- Each polyethylene float is completely filled with foam and is UV resistant assuring long life.
- Floats overall dimensions: Width 7’ 8” - Length 16”.
- Total weight of pump and pontoon: 2,820 pounds.

Pontoon specifications:
- A winch is provided to lower the pump and to direct the propeller towards the bottom sediments.
- Extended anti-slip hot dip galvanized deck to reach the pump and propeller.
- 6” transfer line

4” VERTICAL AGI-POMPE®

To agitate a reception pit and feed a sloped screen separator.

Pump length available: 6 - 8 - 10 and 12 feet.

4” AGI-POMPE®

Knife kit against the propeller to cut fibers.

4” VERTICAL AGI-POMPE®

Drive shaft in oil bath with adjustable ball bearing to prevent drive shaft vibration.

Remote grease lines to lubricate the 3 seal mechanism of bottom gear box.

Grease bank allowing the installation of remote grease lines to lubricate the pump from the side of the lagoon.

Optional sliding / tilting wall mount support

Optional agitation nozzle on 4” vertical Agi-Pompe®

Agitation nozzle rotating on 215° with up and down articulation.
Directional valve and agitation nozzle easy to operate from top of the pump.

WORKING RANGE OF THE 4” AGI-POMPE®

<table>
<thead>
<tr>
<th>Transfer rate in US gallons per minute</th>
<th>Pump Shut-Off</th>
</tr>
</thead>
<tbody>
<tr>
<td>500</td>
<td>40 HP = 27 PSI</td>
</tr>
<tr>
<td>600</td>
<td>30 HP = 21.8 PSI</td>
</tr>
<tr>
<td>700</td>
<td>25 HP = 19.4 PSI</td>
</tr>
<tr>
<td>800</td>
<td>20 HP = 16.7 PSI</td>
</tr>
<tr>
<td>900</td>
<td>15 HP = 14 PSI</td>
</tr>
</tbody>
</table>

© "Agi-Pompe" is a registered trade mark of J. Houle & Fils Inc.
8" FLUSH PUMP

A check valve at the pump discharge keeps the water in the flush line between flushes to reduce air hammering.

16" impeller driven by motor ranging between 7.5 and 40 HP.

8" FLUSH PUMP ON PONTOON

An optional stainless steel pan can be added under the pump allowing to flush only with the very top 6" of liquid in the lagoon.

Unique bearing assembly with greasable flanged bearings always above water level. No seals and bearings in urine.

Grease bank allowing the installation of remote grease lines to lubricate the pump from the side of the lagoon.

The pump can be adjusted heightwise to get only 4 inches of liquid over the pump housing.

8" transfer line

Pump can be winched up for easy maintenance.

Anti-slip hot dip galvanized steel deck

Pontoon Specifications

Each polyethylene float is completely filled with foam and is UV resistant assuring long life.

Floats overall dimensions: Width 7' 8" - Length 12'.

Total weight of pump and pontoon: 1,907 pounds.
Belt driven allowing to adjust the pump RPM to use maximum motor efficiency.

**The 8” flush pump** is normally geared to flush at the highest rate possible and at relatively low pumping head. See graph below.

**WORKING RANGE OF THE FLUSH PUMP**

<table>
<thead>
<tr>
<th>Pump HP</th>
<th>Shut-off</th>
<th>Maximum pumping head permitted</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>18 PSI</td>
<td>35 ft</td>
</tr>
<tr>
<td>25</td>
<td>23 PSI</td>
<td>45 ft</td>
</tr>
<tr>
<td>30</td>
<td>28 PSI</td>
<td>55 ft</td>
</tr>
<tr>
<td>40</td>
<td>35.5 PSI</td>
<td>70 ft</td>
</tr>
</tbody>
</table>

Pump RPM must be adjusted according to actual pumping head calculated.

---

**Optional sliding / tilting wall mount support**

Remote grease lines to lubricate the bottom bearing assembly.

Drive shaft in oil bath with adjustable ball bearing to prevent drive shaft vibration.

Bottom bearing assembly in oil bath protected by a greasable 3 seal mechanism.

---

**FLUSH RATE: 1,800 US GPM**

---

*OR*

The 8” flush pump can be geared to flush 1,800 US GPM at the highest pumping head possible. See chart below.

---

*a day with minimum maintenance.*
**FLUSH VALVES**

For 12 3/4” O.D. PVC flush line.

Actuated by a large 8” diameter air balloon that requires only 40 PSI to shut off 25 feet of head pressure.

The flush valves can be automatically drained between flushes to avoid freezing.

Available with simple and reliable controls.

---

**Fittings for flush valve**

Selection of 45° and 90° long radius elbows and “Y” adaptors with seals and anti-slip collars.

---

**Holding area flush valve**

Circular discharge allowing a wide flush pattern starting very near the flush valve.

Cleaning pattern width up to 20 feet.

Adjustable front and rear lids opening to get the optimal cleaning pattern.

Flush line 48” under floor level.

---

**Manure alley flush valve**

Large rectangular front discharge allowing high volume flushes with no splash.

Cleaning pattern width up to 14 feet.

Adjustable rear lid opening to clean the back corner.

Flush line 48” under floor level and 62” c/c behind flush valve.

---

**J. HOULE & FILS INC.**

4591 Rte 143, C.P. 370
Drummondville (Qc) J2B 6W3 Canada
Phone: (819) 477-7444 / Fax: (819) 477-0486

Dealer: