Ideal for small & large bush, timber and grass fires. Hydraulic Drive pump is a multi purpose water pump. Mainly used for fire fighting and water transfer, or cleaning lorries in off season. These pumps are low maintenance and very reliable. Simply connected to the tractor hydraulics and the oil will return directly to oil reservoir.

Advantages of the hydraulic drive pump

• There is no PTO shaft that might cause an accident or break when fighting fire.
• No petrol engine that might not start or might disappear in the off season.
• No petrol taken to the fire.
• Just couple hydraulic hoses to tractor hydraulics and shift lever to operate.
• The unit can be mounted anywhere, because hydraulic hoses allow it.
• The hydraulic drive unit has proved to be very reliable.
Single Stage Pump

The Single Stage pump is ideally used for small fires and fire breaks and has a water reach of 35 meters.

Performance One stage narrow pump:
- 30 l/min @ 12 bars using 4mm nozzle
- 240 l/min @ 6 bars using 12mm nozzle
- 325 l/min @ 4 b bars using 16mm nozzle
- 450 l/min @ max volume open flow.
- minimum req. 22 l/min @ bars.)
- Low flow hydraulic motors for some MF tractor models optional.

One stage wide pump:
- 160 l/min @ 6 bars,
- 380 l/min @ 5 bars,
- 880 l/min max vol.
- Tractor hydraulics producing 35 l/min @ 180 bars (minimum req. 30 l/min @ 150 bars.)
Twin Stage Pump

The Twin Stage pump is ideally used for larger fires such as timber fires or large grass fires. Has reach of 45m.

Performance: Two stage wide pump:
- 40 l/min at 13 bars using 6mm nozzle
- 290/min at 10 bars using 12mm nozzle
- 400l/min at 6 bars using 16mm nozzle
- 550 l/min @ max volume.
- The tractor hydraulics producing 35 l/min @ 180 bars (minimum req. 30 l/min @ 150 bars.)

At maximum reach with a good 16mm nozzle, the water jet can reach 45 meters.
BB Cast Iron Pump

The BB Cast iron pump is a multi purpose pump meaning it can be used with chemicals as well as water. This pump is perfect for someone looking for a pump they can use all year round and not just during fire season. It can be used for firefighting, chemical pumping and irrigation.

Performance: BB Cast Iron Pump:
- 30 l/min at 9 bars using 4mm nozzle
- 71/min at 9 bar using 6mm nozzle
- 205/min at 9.5 bar using 10mm nozzle
- 260 l/min @ 7 bars with 12mm nozzle
- 685 l/min @ max volume @ 7.5 bar volume on 18mm nozzle with the tractor hydraulics producing 44 l/min @ 175 bars (minimum req. 40 l/min @ 150 bars.)

This pump has a water reach of 55m with hydraulic oil pressure from the tractor. Set at 44/min
Multi Stage (Rovatti) Pump

The Rovatti Multi stage pump is intended to be used for fire trucks with large amounts of water. This pump has the potential for huge performance if the hydraulic oil flow is over 70l/min. Recommended to be used on fire trucks.

Performance of Rovatti Multi Stage:
- 700 l/min at a minimum of 7.5 bars with the hydraulic oil flow rate set to 57 l/min @ 150bars. Using 18mm nozzle
- 725 l/min at 7.5 bars using 20mm nozzle
- 875/min at 7.5 bar using 22mm nozzle

Higher hydraulic oil flow rates and pressure will result in a much higher water pressure. It is advisable not to exceed 15 bars water pressure as water hoses might burst. Hydraulic oil flow rates should be set accordingly.
GMP Chemical Pump

Ideal for transferring large amount of water and chemicals from wells, dams, ponds and reservoirs. Can also be used for spraying roads. High volume low pressure.

GMP Chemical Pump Performance:
• 1000 litres/min at transfer and 100 litres at 2.5 bar.
<table>
<thead>
<tr>
<th></th>
<th>Single Stage</th>
<th>Twin Stage</th>
<th>Multi Stage</th>
<th>BB Cast iron</th>
<th>Chemical Pump</th>
</tr>
</thead>
<tbody>
<tr>
<td>Used for?</td>
<td>Small Fires, fire breaks</td>
<td>Larger Fires, timber yard, bush fires</td>
<td>Sugar Can fires, Timber.</td>
<td>Multi Purpose, Chemical and water pump</td>
<td>Water transfer</td>
</tr>
<tr>
<td>Hydraulic oil</td>
<td>Min 25l/min of hydraulic oil flow</td>
<td>Min 30l/min of hydraulic oil flow</td>
<td>Min 57l/min of hydraulic oil flow</td>
<td>Min 40l/min of hydraulic oil flow</td>
<td>25l/min of hydraulic oil flow</td>
</tr>
<tr>
<td>Performance</td>
<td>250/min at 6 bar with 12 mm nozzle</td>
<td>400l/min at 6 bar with 16mm nozzle</td>
<td>700/min at 7.5 bar using 18mm nozzle</td>
<td>685/min at 7.5 bar with 18mm nozzle</td>
<td>100l/min at 2.5 bar</td>
</tr>
<tr>
<td>reach</td>
<td>35m</td>
<td>45m</td>
<td>55m plus</td>
<td>55m plus</td>
<td></td>
</tr>
</tbody>
</table>
Accessories for fire fighting

PVC Rotary coupler
- Designed to last and not rust after lengthy period. Proven to be very reliable. Its corrosion resistant and maintenance free.
- The coupler is designed in such a way that it can rotate which allows for more flexibility during fire fighting. The hose can rotate 360 deg.

Priming Pumps
- For fast and reliable hand priming, the priming pumps are essential. "Selfpriming" a fire fighting pump can take a long time (minutes), especially, when water needs to be drawn up several meters from an open source via a long suction hose.

Monitors & Spray Guns
- Monitor and 16mm branchpipe gun.
- Usually mounted onto fire truck.
• These Nozzles are designed for effective fire fighting
• Designed with durable long lasting material.
• If cleaning is required, open the nozzle wide to flush debris out.
• Nozzles are also adjustable for different sprays from a spray to powerful straight line for long distance.
• Available in three different sizes suited for your needs.
• Jet can be closed down to zero flow.

**Feature**: These nozzles are designed in such a way for easy use and provide maximum spray or pressure for distance. Easily cleaned of any blockage when opened to the large spray. Built to last!

**Advantage**: The easy cleaning design allows for fast and effective fire fighting. Produces very compact jet flow for long distance.

**Benefit**: The nozzles are small and easily attached. When using the smallest nozzle you won't use **excessive** water (0-50 liters/min at 6 bar).

The nozzles are durable, light-weight and suitable for your fire fighting needs.

<table>
<thead>
<tr>
<th>Test Pressure</th>
<th>Nozzle</th>
<th>Equivalent to nozzle size</th>
<th>Liters/minute</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 bar</td>
<td>1/2 inch</td>
<td>5.5mm</td>
<td>0-50 liters</td>
</tr>
<tr>
<td>6 bar</td>
<td>3/4 inch</td>
<td>7.0mm</td>
<td>0-75 liters</td>
</tr>
<tr>
<td>6 bar</td>
<td>1 inch with ¾ hose</td>
<td>8.00mm</td>
<td>0-117 liters</td>
</tr>
<tr>
<td>6 bar</td>
<td>1 inch with 40mm hose</td>
<td>9.00</td>
<td>0-130 liters</td>
</tr>
</tbody>
</table>
RAILER BRAKE VALVE FOR ALL TRACTORSSABS 1447

REQUIREMENT:
PROGRESSIVE CONTROL (GRADUATED BRAKING) WITHOUT TAKING HANDS OFF THE STEERING WHEEL!

Saves trailer brakes and tyres because it works progressively. Gives priority to trailer brakes to protect tractor brakes from “over use”. Trailer brakes should always be well maintained to ensure efficiency. Modulating brake valve provides full progressive control and works in tandem with tractor brakes but independently. Single wheel brakes of tractor can be operated without the trailer braking at the same time. Operates with any number of brake cylinders. Easy installation and integration into the hydraulic system of tractor. Maximum trailer brake pressure limit adjustable externally. Operating pressure range between 0 and 10.1 Mpa
Demo Videos

Single Stage

https://www.youtube.com/watch?v=UzsxcRl56nU

www.youtube.com/watch?v=K-lcvILPVxU

Rovatti Multi Stage

www.youtube.com/watch?v=Dz9RZ4kcc7w

BB Cast Iron with Demo Bakkie  www.youtube.com/watch?v=fLfny4mCn28

Nozzles:

www.youtube.com/watch?v=VQbMh1qFcoI
We do make two new hydraulic drive pumps on request

- Ceramic Carbon Chemical pumps
- Hydraulic drive Sludge Pumps.