High Pressure Triplex Plunger Pump
PressureJet Systems Pvt. Ltd. was established in 1996 in Ahmedabad, India. Pressurejet (An ISO 9001:2008 certified company) is a leading manufacturer of high pressure, positive displacement, reciprocating triplex plunger pumps and relevant accessories. These pumps are most suitable for reverse osmosis water jet cleaning, injection, hydrostatic pressure test, crude oil transfer, etc.

Today, PressureJet has a work force of more than 70 dedicated people. We have 11000 Sq. ft. area in Asia’s premier industrial estate in Ahmedabad. Out of which, 5000 Sq. ft. area has been allocated for manufacturing activities, which is having a very unique concept in industry.

Our Quality


All parts are quality checked on the controlled environment of the Q. C. laboratory. We have the most modern measurement equipment such as 3D CMM (coordinate measuring machine), surface roughness measurement units and hardness tester. All parts can be tracked by barcode system with oracle ERP.

Our all parts design is in 3D model. 3D modelling is an important aid in designing the technical aspects of PressureJet product.

Simulation can really help in making the correct design decisions during the development stage.
The extremely modern machine shop enables us to manufacture an extremely wide range of components. We can be very flexible in our production planning, while maintaining a high standard of quality fully automatic machining station. Computer controlled machining stations ensure constant dimensional accuracy.

Assembly & Testing

In this area, all components for the various pump units come together. Pumps and engine or motors are fixed assembled on to base frame, Accessories such as booster pump, filters and tanks are attached and the control system is installed.

PressureJet products subject to stringent quality control. All pumps for instance are tested at maximum load prior to dispatch. All measurement taken during the testing are electronically stored in computer and then printed. Test report is shipped with the pump.

Store / Service

A product is only as good as the service backing it. So we have a dedicated team in house and available for 24 hours 7 days a week. We hold stocks of new exchange parts that can reduce down time.
PressureJet has a complete offering for REVERSE OSMOSIS Pump in SS316L, Duplex stainless steel available for unsurpassed corrosion-resistance, strength and long life, even in the harshest environments.

A wide range of Nickel Aluminium Bronze pump is also available and is commonly used in brackish water & sea water applications.

### Salient Features
- Field proven design. Easy field maintenance.
- Stainless steel fluid end construction.
- Rigorously Subjected to full load testing.
- Manufactured on state of the art machinery.
- Easy Maintained Suction & discharge valve assembly.
- Splash lubrication.
- Pumps available in SS316L, duplex stainless steel and nickel aluminum bronze.

### Specification
- Plunger Stroke: 30 mm
- Max. plunger speed: 0.63 m/sec. @ 950 rpm
- Plunger force: 6.71 kN (685 kgf)
- Required Inlet Pressure min./max.: 2 bar (Booster Pump flow require min. 1.5 times of rating flow)
- Oil Type: 15 W 40
- Oil capacity: 3 ltr.
- Max. Liquid Temp.: 70 ºC (158 ºF)
- Discharge Connection: 3/8” BSPF
- Suction Connection: 1½” BSPF

### Performance Chart

<table>
<thead>
<tr>
<th>Model</th>
<th>SPM</th>
<th>Flow l/min (gpm)</th>
<th>Max. Rated Pressure-kg/cm² (hp)</th>
</tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>650 (20)</td>
</tr>
<tr>
<td>TH–30–12</td>
<td>950</td>
<td>8 (2.1)</td>
<td>9250</td>
</tr>
<tr>
<td></td>
<td>800</td>
<td>7 (1.8)</td>
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<tr>
<td></td>
<td>700</td>
<td>6 (1.6)</td>
<td>8550</td>
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<tr>
<td></td>
<td>600</td>
<td>5 (1.3)</td>
<td>9250</td>
</tr>
<tr>
<td></td>
<td>500</td>
<td>4 (1.1)</td>
<td>9250</td>
</tr>
<tr>
<td></td>
<td>400</td>
<td>3 (0.8)</td>
<td>9250</td>
</tr>
</tbody>
</table>

**Note:**
1. All flows are based on 100% volumetric efficiency. Actual volumetric efficiency will be 90%.
2. All model available in 1500 RPM / 50 Hz and 1800 RPM / 60 Hz electric motor with belt drive or gear drive.
### TH-30 Series

**Max. Pressure** 650 kg/cm² (9250 psi) @ min. Flow rate 3 lpm (0.8 gpm)
**Max. Flow rate** 15 lpm (4 gpm) @ max. Pressure 200 kg/cm² (2850 psi)

<table>
<thead>
<tr>
<th>Pressure</th>
<th>Flow Rate</th>
<th>Max. Pressure</th>
<th>Max. Flow Rate</th>
<th>Frame Mounted Belt Driven System</th>
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<tr>
<td>TH-30-14</td>
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<tr>
<td>950</td>
<td>12 (3.2)</td>
<td>500 (20) 7100</td>
<td>400 (15) 5700</td>
<td>325 (12.5) 4600</td>
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<td>7.5 (2)</td>
<td>500 (12.5) 7100</td>
<td>400 (10) 5700</td>
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<td>TH-30-16</td>
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<tr>
<td>950</td>
<td>15 (4)</td>
<td>300 (15) 4250</td>
<td>250 (12.5) 3550</td>
<td>200 (10) 2850</td>
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<td>800</td>
<td>13 (3.4)</td>
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<td>11 (2.9)</td>
<td>300 (12.5) 4250</td>
<td>250 (10) 3550</td>
<td>200 (7.5) 2850</td>
</tr>
</tbody>
</table>
Applications

- R O pump for Effluent Recycle
- R O pump for Resorts
- R O pump for Off-shore Platforms
Power End

1. Crank Case

2. Crankshaft
   Spheroidal Graphite Iron: Crankshaft is made of Spheroidal Graphite Iron casting.

3. Connecting Rod
   Alloy Steel: Forged steel connecting rods with antifriction bearings. Heavy pin area construction, for added load strength.

4. Cross Head
   Alloy Steel: Alloy steel construction for hard surface coating and super finish.

5. Bearing SKF or equivalent
   Oversized for maximum life and load disbursement. Taper roller bearing enables it to handle 26% more load than other pumps.

Fluid End

6. Pump Head
   Stainless Steel: Liquid end is made of high corrosion resistant SS 316L / duplex stainless steel / nickel aluminum bronze.

7. Plunger Solid Ceramic
   Primarily composed of solid ceramic and surface roughness is extremely good i.e. <0.2 Ra.

8. Complete Valve
   Stainless Steel: Valves made of stainless steel hardened & anti corrosion hard surface coated for long life. High volumetric efficiency valves operate at 95% efficiency plus.

9. Plunger Seal
   PTFE Aramide rope: Aramide fiber yarn packing for high compressive & tensile strength ensure effective sealing.

Dimension

Approx weight of bare pump: 130 Kg
HIGH PRESSURE PLUNGER PUMP

TH-30 Series

List of Accessories

- **T - 30**
  - 120 l/min (31.7 gpm)
  - 500 bar (7250 psi)

- **T - 60**
  - 500 l/min (132 gpm)
  - 400 bar (5800 psi)

- **S - 20**
  - 500 l/min (132 gpm)
  - 800 bar (11600 psi)

- **S - 10**
  - 190 l/min (50.1 gpm)
  - 500 bar (7250 psi)

- **Pressure Regulating Valves**
- **Safety Valve**
- **Pulsation Dampeners**

- **Glycerin Filled Pressure Gauge**
  - 4” Dial
  - 0 – 100 bar
  - 0 – 200 bar
  - 0 – 350 bar
  - 0 – 550 bar
  - 0 – 700 bar

- **Helical Type Reduction Gear Box**
  - Ratio: 2:1 to 10:1
  - Up to 300 spm

- **Base Frame**
- **Flanges**
- **T Type Strainer**

- **Volume 0.5 ltr. to 35 ltr.**

- **Size**
  - 1/2” BSP
  - 1” BSP
  - 2” BSP
  - 3” BSP
# High Pressure Plunger Pump

## Client List

### Partial List of Clients

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Company Logo</th>
<th>Client Name</th>
<th>Location</th>
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<tr>
<td>01</td>
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<td>Bharat Heavy Electricals Ltd.</td>
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