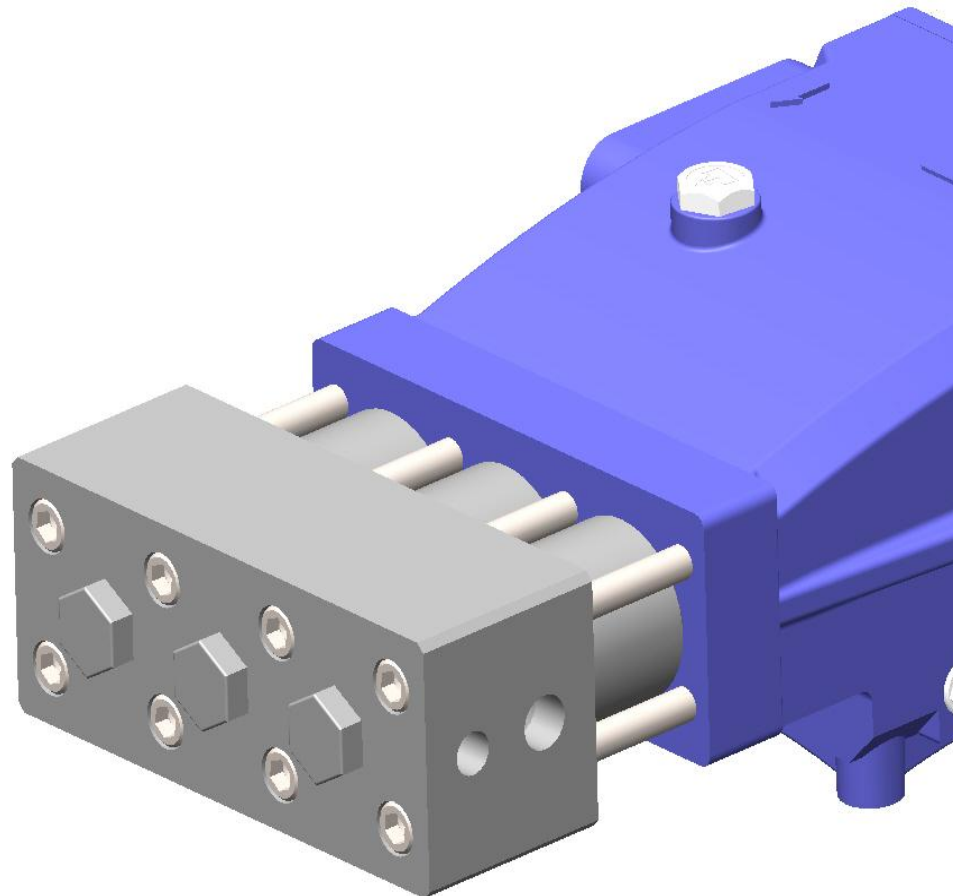


High Pressure Triplex Plunger Pump



2015

HIGH PRESSURE PLUNGER PUMP

TH-30 Series

About Company



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.

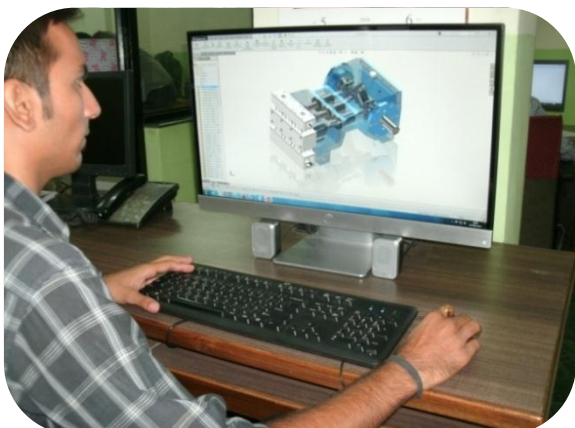
Today, PressureJet has a work force of more than 70 dedicated people. We have 11000 Sq. ft. area in Asia's premier industrial estate in Ahmedabad. Out of which, 5000 Sq. ft. area has been allocated for manufacturing activities, which is having a very unique concept in industry.

Our Quality



PressureJet Systems Pvt. Ltd. is ISO 9001:2008 certified company.

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.

HIGH PRESSURE PLUNGER PUMP

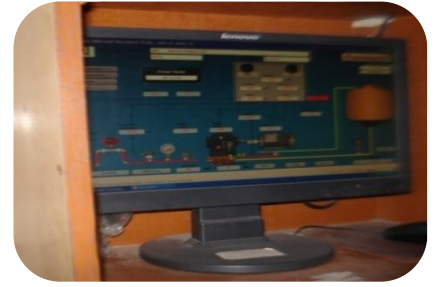
TH-30 Series

Machine Shop



The extremely modern machine shop enables us to manufacture an extremely wide on 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.

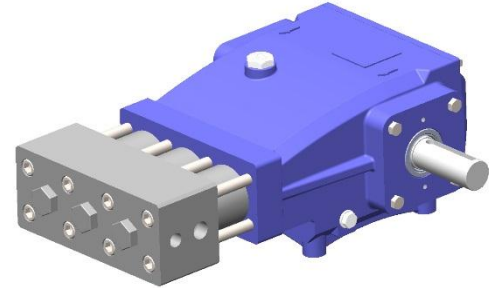
HIGH PRESSURE PLUNGER PUMP

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)

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.



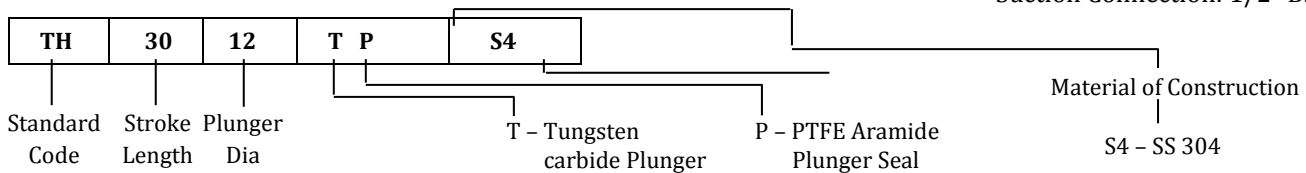
Salient Features

- 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 spm
- 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 °C (158 °F)**
- Discharge Connection: 3/8" BSPF
- Suction Connection: 1/2" BSPF

Model Selection List



- 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.

Performance Chart

Model	SPM	Flow l/min (gpm)	Max. Rated Pressure-kg/cm ² (hp)			
			psi	psi	psi	psi
TH-30-12	950	8 (2.1)	650 (20) 9250	500 (15) 7100	425 (12.5) 6050	350 (10) 5000
	800	7 (1.8)	650 (15) 9250	500 (12.5) 7100	400 (10) 5700	300 (7.5) 4250
	700	6 (1.6)	600 (12.5) 8550	475 (10) 6750	350 (7.5) 5000	
	600	5 (1.3)	650 (12.5) 9250	550 (10) 7800	400 (7.5) 5700	
	500	4 (1.1)	650 (10) 9250	500 (7.5) 7100	325 (5) 4600	
	400	3 (0.8)	650 (7.5) 9250	425 (5) 6050		

HIGH PRESSURE PLUNGER PUMP

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)

TH-30-14	950	12 (3.2)	500 (20) 7100	400 (15) 5700	325 (12.5) 4600	250 (10) 3550
	800	10 (2.6)	475 (15) 6750	375 (12.5) 5350	300 (10) 4250	225 (7.5) 3200
	700	8.5 (2.2)	500 (15) 7100	425 (12.5) 6050	350 (10) 5000	265 (7.5) 3750
	600	7.5 (2)	500 (12.5) 7100	400 (10) 5700	300 (7.5) 4250	
TH-30-16	950	15 (4)	300 (15) 4250	250 (12.5) 3550	200 (10) 2850	
	800	13 (3.4)	300 (12.5) 4250	230 (10) 3250	175 (7.5) 2500	
	700	11 (2.9)	300 (12.5) 4250	250 (10) 3550	200 (7.5) 2850	



Frame Mounted Belt Driven System

TH-30 Series

Applications



R O pump for Effluent Recycle



R O pump for Resorts



R O pump for Off-shore Platforms

HIGH PRESSURE PLUNGER PUMP

TH-30 Series

Max. Pressure 190 kg/cm² (2700 psi) @ min. Flow rate 6 lpm (1.5 gpm)
Max. Flow rate 56 lpm (14.7 gpm) @ max. Pressure 85 kg/cm² (1200 psi)

Power End

1. Crank Case

Grey Iron: Crank Case in grey iron casting FG-260. With Honned surface finish bore.

2. Crankshaft

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

3. Connecting Rod

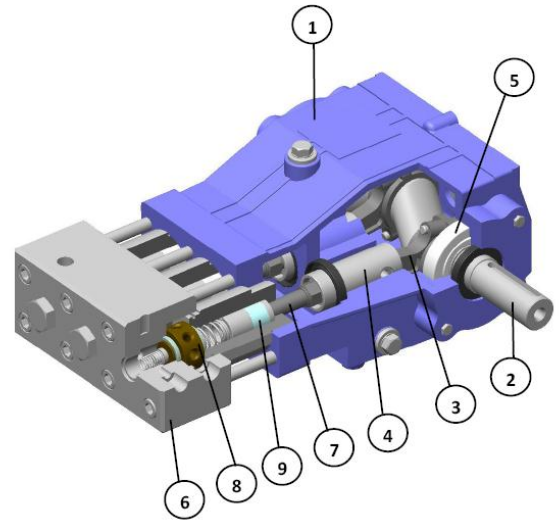
Alloy Steel: Forged steel connecting rods with antifriction bearings. Heavy pin area construction, for added load strength.

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.

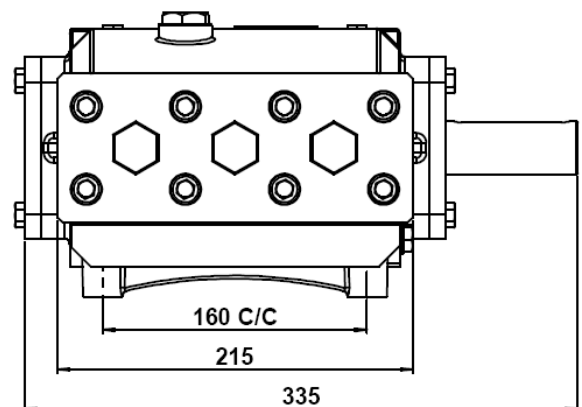
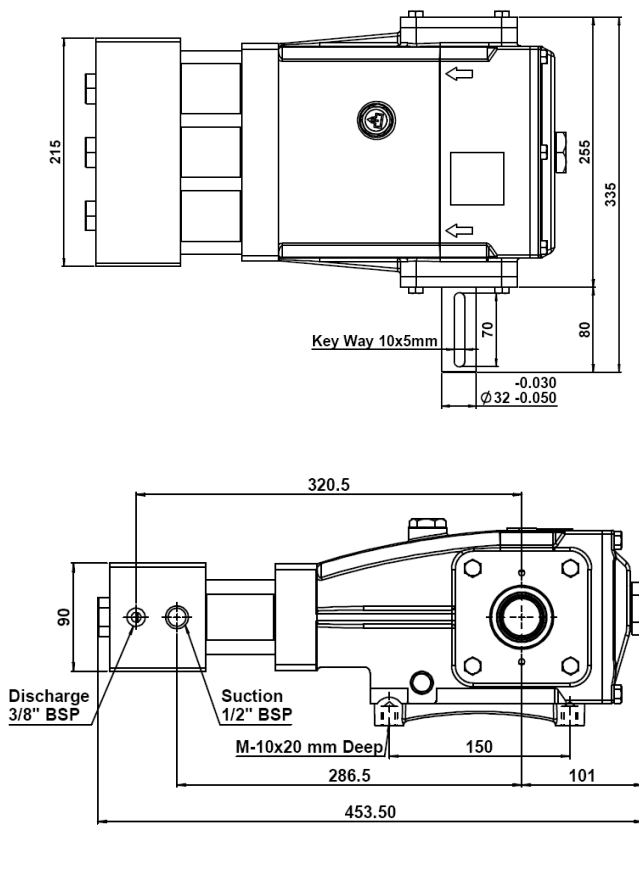
8. Complete Valve

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

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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)



SS 316

Pressure Regulating Valves

▪ **S - 20**

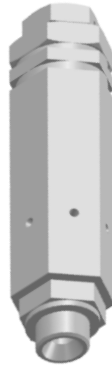
500 l/min
(132 gpm)

800 bar
(11600 psi)

▪ **S - 10**

190 l/min
(50.1 gpm)

500 bar
(7250 psi)



SS 316

Safety Valve

Volume 0.5
ltr. to 35 ltr.



SS 316

Pulsation Dampeners



4" Dial
0 - 100 bar
0 - 200 bar
0 - 350 bar
0 - 550 bar
0 - 700 bar

SS Dial

Glycerin Filled Pressure Gauge

Ratio: 2:1 to 10:1

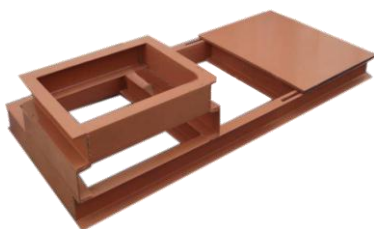


Helical Type Reduction Gear Box

Up to 300 spm



Pulley & Belt



Base Frame



Flanges

▪ **Size**

1/2" BSP
1" BSP
2" BSP
3" BSP



T Type Strainer

Client List

Partial List of Clients			
Sr. No.	Company Logo	Client Name	Location
01		Bharat Heavy Electricals Ltd.	Tiruchirappalli
02		Larsen & Toubro Ltd.	Mumbai
03		Grasim Industries Ltd.	Chittorgarh
04		Welspun Gujarat Stahl Rohren Ltd.	Gujarat
05		Jaihind Projects Ltd.	Gujarat
06		Corrtech International Pvt. Ltd.	Gujarat
07		Essar Constructions Ltd.	Gujarat
08		Divi's Laboratories Ltd.	Hyderabad
09		Aventura Components Pvt. Ltd.	Gurgaon
10		Enviro Consultants	Tamil Nadu
11		Fontus Water Ltd.	New Delhi
12		Permionics Membranes Pvt. Ltd.	Gujarat
13		Shubham Hydrosys Pvt. Ltd.	Gujarat
14		ONGC Ltd.	Gujarat
15		N. T. P. C. Ltd.	Kawas- Surat
16		Thermax Ltd.	Raigad

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Our Website is fully informative, exhaustive and communicative. It is designed to provide maximum information in most precise form to help our valued customers to take a quick and right decision.



www.pressurejet.com

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