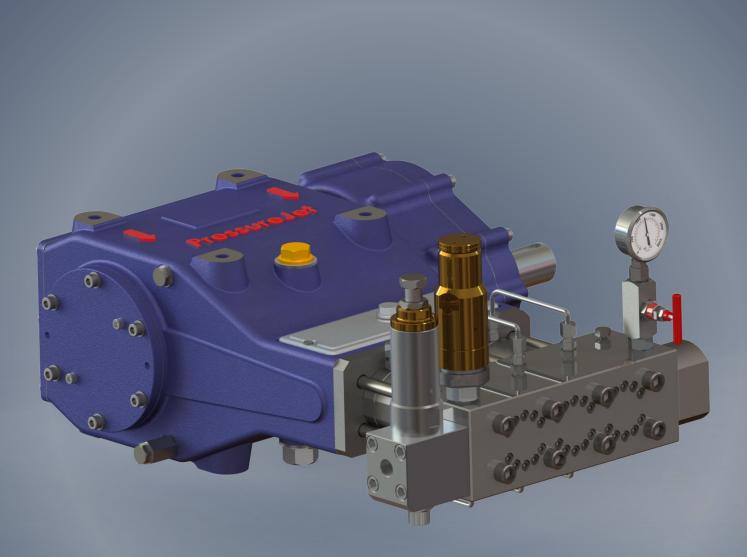


HIGH PRESSURE TRIPLEX PLUNGER PUMP

VC-57

Max. Pressure: 1400 bar Flow Rate: 15 LPM

Min. Pressure: 600 bar Flow Rate: 32 LPM







ABOUT COMPANY



PressureJet Systems Pvt. Ltd. was established in 1996 in Ahmedabad, India. PressureJet (An ISO 9001:2015 certified company) is a leading manufacturer of high pressure, positive displacement, reciprocating triplex plunger pumps and relevant accessories. These pumps are most suitable for various applications like Water Jet Cleaning, Injection, Hydro test Hydro jetting, Hydro Blasting, Sewer jetting, Firefighting & many more.

Today, PressureJet has a work force of more than 85 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.

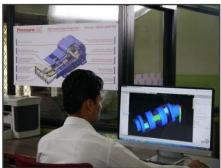
DESIGN AND DEVELOPMENT

PressureJet has an in-house Design & Development Department that continuously strives to design pragmatic and cost-effective solution to fulfil customer's needs. It is equipped with six separate workstation with licensed modelling tools like SolidWorks 3-D software and has machine design analysis capabilities.

The Design and Development department of PressureJet is highly passionate about innovation and creating cutting edge products for clients. We have a team of highly qualified and passionate individuals who are always ready and eager to resolve any customer issues. This, along with our state-of-the-art infrastructure make us one of the most advanced and dedicated Product Development department in the industry.

There are 5 highly qualified and experienced engineers and 7 midlevel engineers dedicated to PressureJet's design and development.









PRODUCTION FACILITIES

The high-pressure pump manufacturing process requires manufacturing extremely high-quality components, at comparatively low volume.

Further, the high-pressure pump mechanism is similar to an engine and has a crank-shaft, connecting rod, crank-case etc. and it converts rotary motion into reciprocating motion similar to an automobile engine. This necessitates use of components that have very high dimensional accuracy/smooth surface finish. Outsourcing manufacturing of such critical quality components with low production volume is impossible since suppliers find the requirement unfeasible and commercially unviable.

Having worked with a variety of suppliers, PressureJet decided it best to set up the complete component manufacturing facility in-house. Today, PressureJet has world-class, state-of-the-art, highly accurate and extremely rugged branded machinery that ensure consistent manufacturing of very high precision critical components for high pressure pumps, which are at par with international quality. But then again, unlike most of other manufacturers, we don't want you to take us at face value. Adjectives can barely scratch the surface of what we do here at PressureJet. We are engineers, and we deal in facts and figures.

High-Tech Machine Shop



Mill-Turn Integrate i-200ST



Vertical Milling Center



Turn-Mill



CNC Grinding Machine



CNC Machine



CNC Bend Saw Machine



Heat-Treatment Furnace with Scada System



Lapping Machine



Radial Drill Machine





QUALITY CONTROL

PressureJet is equipped with the most advanced quality checking instruments among all high pressure plunger pump manufacturers in India. This enables the company's quality to stand head and shoulders above competitors. PressureJet believes in maintaining international Quality standards for its products.

To the end, the company has invested over INR 10 million in establishing its Quality Checking department and checks all critical precision engineering components of the pumps in a controlled environment. It currently uses sophisticated and different quality checking instruments across the entire manufacturing process-right from procurement of raw materials to final inspection and testing of pumps before dispatch.

PressureJet is the only High Pressure-Pump manufacturing company in India that has the highest number of quality checking instruments that are procured, maintained and regularly used to ensure quality of the component.

High-Tech Instrumentation



Co-ordinate Measuring Machine



Surface Roughness Tester



Hardness Tester



Thread Plug Gauge



Rubber Hardness Tester



Coating Thickness Gauge



Tensile Test Bar (OSP)



Ultra-Sonic Testing (OSP)



Spectro Test (OSP)





STORE

PressureJet is home to a highly advanced and efficient warehousing system. It is equipped with Vertical Lift Machines (VLM) that ensure efficient bar code system, as well as an automatic first in first out system. The warehouse log is updated every day in order to keep tabs on the parts and equipment on hand. These features not only save time on last-minute deliveries but also ensure efficiency in picking required parts.



BARE PUMP ASSEMBLY

We don't simply talk about engineering, we put it in action, and this reflects in every aspect of our business. High pressure pumps are similar to engines in a lot of ways and should ideally have a dust free assembly shop, like the one at PressureJet. Ours is the only engineering company, after Toyota and Ford Motors, to use the highly sophisticated and very accurate Atlas Copco CNC Torque Wrench to assemble the pumps. In addition, we have developed in house some very special and highly accurate fixtures that ensure highly accurate assembly of pumps.









QUALITY ASSURANCE

PressureJet accord top priority to quality of pumps that it manufactures. Each pump/system is thoroughly tested against quality parameters, before it is dispatched to the client. Considering the range of high-pressure pumps in its portfolio, PressureJet has 5 SCADA based Computerized Test Benches, which are integrated to manage, monitor and control the entire test process of 5 pumps simultaneously.







The 5 test benches cater to the following power requirements:

- 1. 3 HP to 30 HP
- 2. 40 HP to 60 HP
- 3. 75 HP
- 4. 100 HP to 120 HP
- 5. 150 HP to 200 HP [Engine Driven as well as Electric Motor Driven







CERTIFICATION

ISO 9001:2015 Certificate





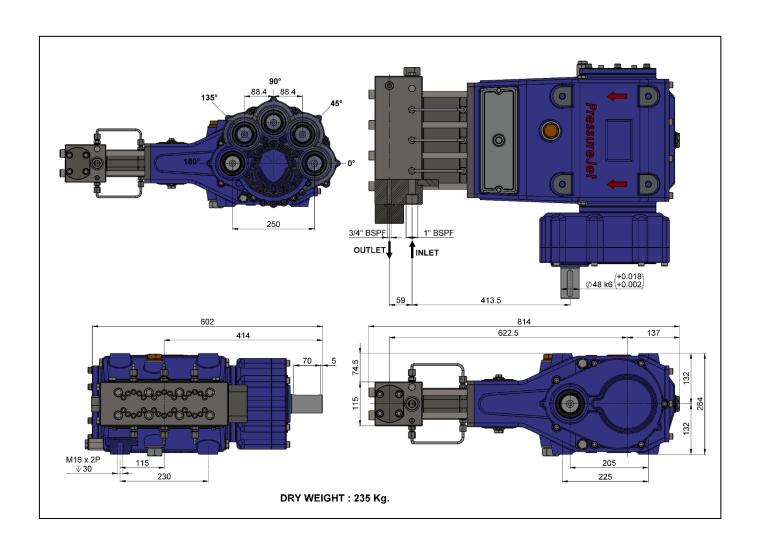


VC-57 BARE PUMP

SALIENT FEATURES

- Manufactured on state of the art machinery.
- Field proven design.
- Rigorously Subjected to full load testing.
- Light in weight & Heavy duty construction with Heavy duty model.
- Splash lubrication.
- Easy Maintenance.
- Both side mounting available.
- Pressure packing design with integrated cooling system for long life of seal.
- Forged Stainless steel Pump Head construction with high strength.
- In line Suction Discharge Valve.

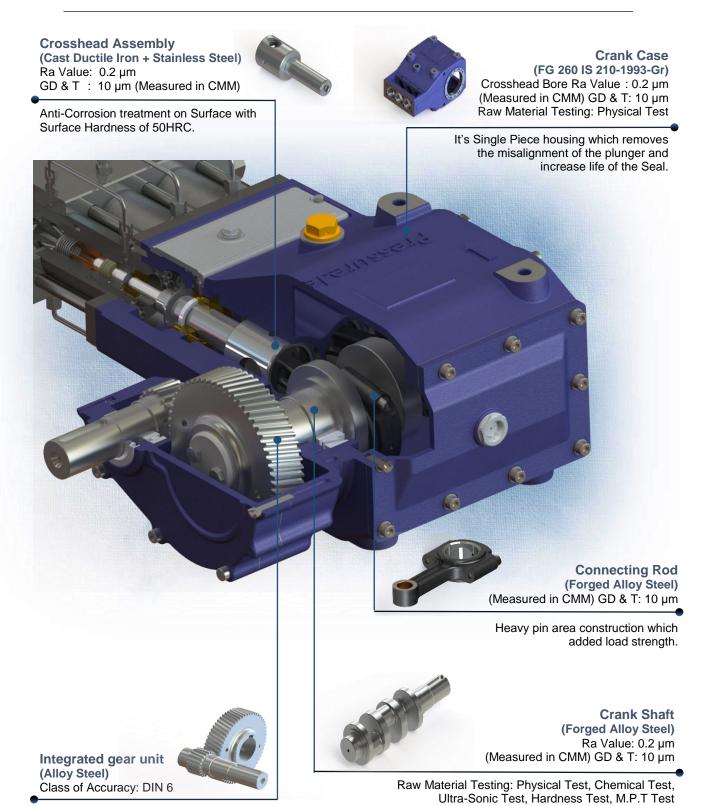








Drive End Assembly

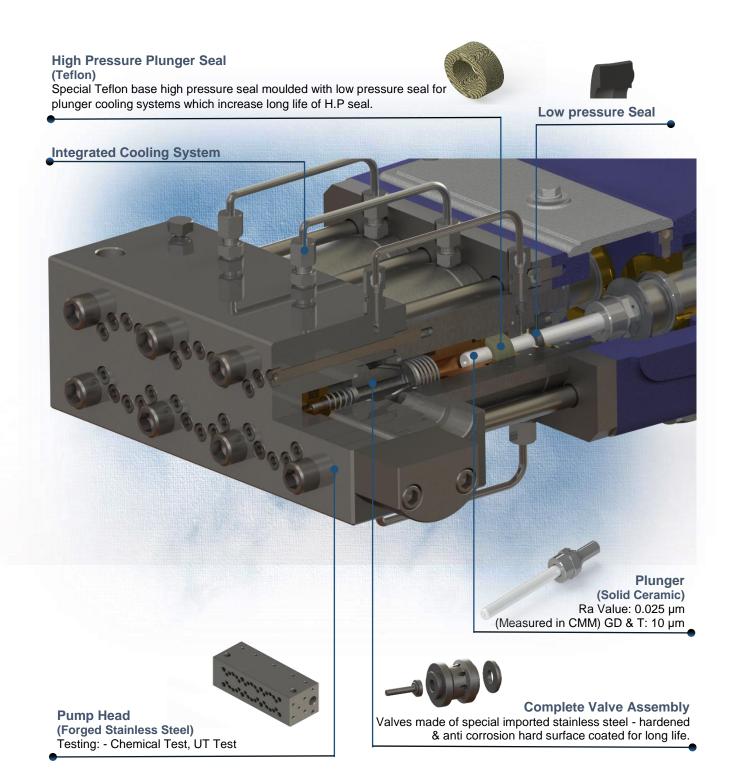


The integrated gear unit allows for a Very compact construction with maximum Efficiency.





Fluid End Assembly







• Plunger Stroke : 57 mm

Max. Plunger Speed : 1.14 m/sec. @ 600 spm
 Plunger Force : 23.5 KN (2400 Kgf)

• Required Inlet Pressure : 2-3 bar

• Required Inlet Flowrate : Booster Pump flow require min. 2 times of rated flow rate

Lubrication Oil Type
 Lubrication Oil Capacity
 Max. Liquid Temp.
 Discharge Connection
 Suction Connection
 SAE – 220
 12 liter
 50°C (122°F)
 3/4" BSPF
 1" BSPF

Bare-Shaft Pump Weight : 235 Kg. Approx.
 Bare-Shaft Pump Overall Dim. (LxBxH) : 814 x 602 x 264 mm

Bare Pump Selection Chart for Gear Drive							
Input Speed			1500 RPM (50 Hz)		1800 RPM (60 Hz)		
Gear Ratio			2.48 : 1		3:1		
Pump Speed (SPM)			600		600		
Model	Plunger Diameter (mm)	Parameter	For Intermittent Duty Applications				
VC-57-600-14	14	Flow Rate (LPM)	15	15	15	15	
		Pressure (BAR)	1400	1300	1400	1300	
		Power (HP)	60	50	60	50	
VC-57-600-16	16	Flow Rate (LPM)	20	20	20	20	
		Pressure (BAR)	1050	850	1050	850	
		Power (HP)	60	50	60	50	
VC-57-600-18	18	Flow Rate (LPM)	26	26	26	26	
		Pressure (BAR)	860	750	860	750	
		Power (HP)	60	50	60	50	
VC-57-600-20	20	Flow Rate (LPM)	32	32	32	32	
		Pressure (BAR)	740	600	740	600	
		Power (HP)	60	50	60	50	

NOTE: - Above data are as per Theoretical Calculation.





SYSTEM DRAWING AND ITEM LIST



Trolley Mounted System

Sr No.	Item Description		
1	High Pressure Pump		
2	Electric Motor		
3	Skid (Trolley or Base Frame)		
4	Pressure Regulating Valve		
5	Safety Valve		
6	Pressure Gauge		
7	Basket Filter		
8	Booster Pump		
9	Control Panel		
10	Plastic Water Tank with Solenoid valve and Float Switch (150ltr or 200ltr)		



Base Frame Mounted System

For Trolley Mounted:

System weight : 1150 Kg. Approx.
 System Overall Dim. (LxBxH) : 1740 x 1718 mm

For Base Frame Mounted:

• System weight : 930 Kg. Approx.

• System Overall Dim. (LxBxH) : 1700 x 1170 x 1250 mm





SALIENT FEATURES OF BASKET FILTER

• All component material is SS 304.

 Easy maintenance. It will take 1 minute to replace the mesh of the filter.

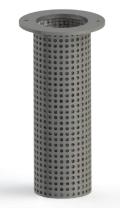
Easy to clean.

• L x W x H : 255 x 255 x 675 mm

Total Volume : 0.0073 m³
 Suction Size : 1 ½" BSPF
 Discharge Size : 1 ½" BSPF







Filter Mesh

Outside Mesh size : 20 or 40 Micron Inside Mesh size : 100 Micron





COMMON ACCESSORIES

SAFETY VALVE



- Provide over pressure protection.
- Redundant safety for operator
- Intentionally designed weak part to avoid major loss

PRESSURE RGULATING VALVE



- Regulate output pressure as required from min. to max. pressure
- Bypass excess water

BASKET TYPE FILTER



- 100 micron and 20 micron mesh to ensure clean water supply to pump
- Easy to clean in less than 2 minutes

HOSE PIPE



- Flexible type Rubber hose
- Available in various lengths as per requirement
- Swivel type SS Connection

NEEDLE VALVE



 For Safe operation of the Pressure Gauge

PRESSURE GAUGE



- Approx. 2 rimes pump operating pressure
- Glycerin filled
- Easy read dial
- SS Body
- 4" Dial





HYDRO JETTING



 Very essential for Operator Safety to avoid any accident



ROTATING TUBE CLANING NOZZLE



- Highly effective and time saving than conventional
- 3 different types of head available
- Various sizes available to suit different Tube IDs min. 12mm to max. 60mm

HIGH PRESSURE FLEXIBLE LANCE



- Small diameter pipes to easily enter inside ID of Tubes
- Specially designed to withstand high pressures
- Available in various lengths
- SS Connection

PressureJet manufactures high-pressure Hydro Jetting Machine for the pressures ranging from 140 bar (2000 PSI) to 1400 bar (20,000 PSI). This pressure range meet the tube cleaning requirements of most industrial applications.









HYDRO BLASTING







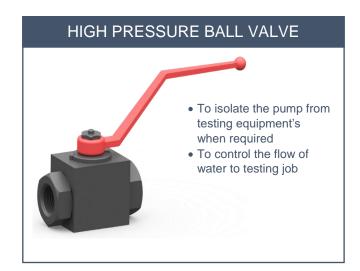
A high pressure stream of water (pressure jet range: 450 bar to 1400 bar) is used to remove old paint, rust, rubber, chemicals, or other heavy build up without causing damage to the surface below it.







HYDRO-TEST





PressureJet offers wide range of hydrostatic pressure testing pumps & system ranging from 12 lpm to 445 lpm and pressure from 70 bar(1000 PSI) to 1400 bar(20000 PSI). Hydraulic pressure test pump is either electric motor driven or engine driven.





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