

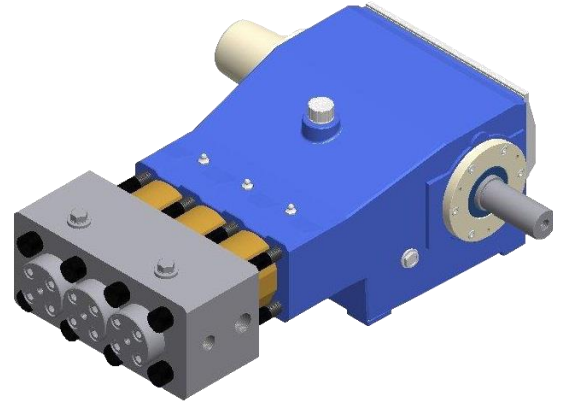
HIGH PRESSURE PLUNGER PUMP

PC Series

Max. Pressure 1200 kg/cm² (17070 psi) @ min. Flow rate 5 lpm (1.32 gpm)
Max. Flow rate 17 lpm (4.49 gpm) @ max. Pressure 750 kg/cm² (10670 psi)

Salient Features

- Field proven design. Easy field maintenance.
- Rigorously Subjected to full load testing.
- Manufactured on state of the art machinery.
- Heavy duty construction, light in weight.
- PC Series triplex plunger pumps available in 3 versions.
- Splash lubrication.
- Available direct couple @1000 rpm or pulley – belts drive @1500 rpm.



Performance Chart

Model	SPM	Flow lpm (gpm)	Max. Rated Pressure-kg/cm ² (psi)					
			12.5 HP	15 HP	20 HP	25 HP	30 HP	40 HP
PC-12	730	9 (2.38)	-	600 (8535)	800 (11380)	1000 (14225)	1200 (17070)	-
	540	7 (1.85)	600 (8535)	800 (11380)	1000 (14225)	1200 (17070)	-	-
	420	5 (1.32)	800 (11380)	1000 (14225)	1200 (17070)	-	-	-
PC-14	730	13 (3.43)	-	400 (5690)	-	600 (8535)	800 (11380)	*1000 (14225)
PC-16	730	17 (4.49)	-	-	-	500 (7110)	600 (8535)	*750 (10670)

Specification

- Plunger Stroke: 40 mm
- Max. plunger speed: 1.26 m/sec. @ 950 spm
- Plunger force: 12.5 kN (1274 kgf)
- Inlet Pressure min./max.: 1 to 3 bar
- Oil Type: 15W 40
- Oil capacity: 4 ltr.
- Max. Liquid Temp.: 70 °C (160°F)
- Discharge Connection: ½" BSPF
- Suction Connection: ¾" BSPF

Note: All flows are based on 100% volumetric efficiency. Volumetric efficiency will be ≥ 85%.

Type of systems- Complete systems available various type

- Stationary unit
- Mobile unit
- Road going trailer
- Mobile unit with diesel engine
- Road going trailer with electric motor
- All unit available in 4 side cover or canopy on request

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Power End

1. Main Body (Crank Case)

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

2. Crankshaft

Spheroidal Graphite Iron: Crankshaft is made of nitrated, hardened and tempered Spheroidal Graphite Iron casting.

3. Connecting Rod

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

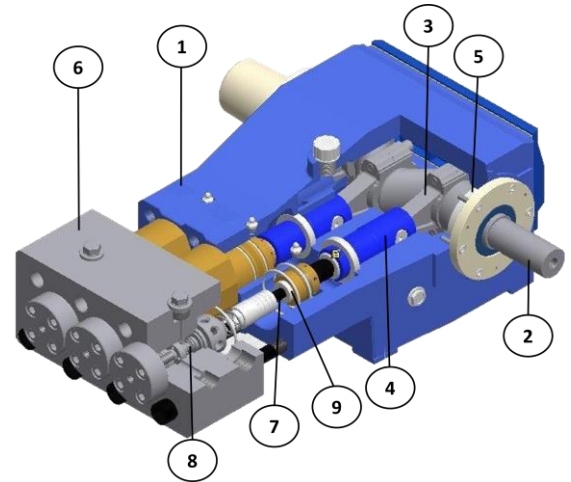
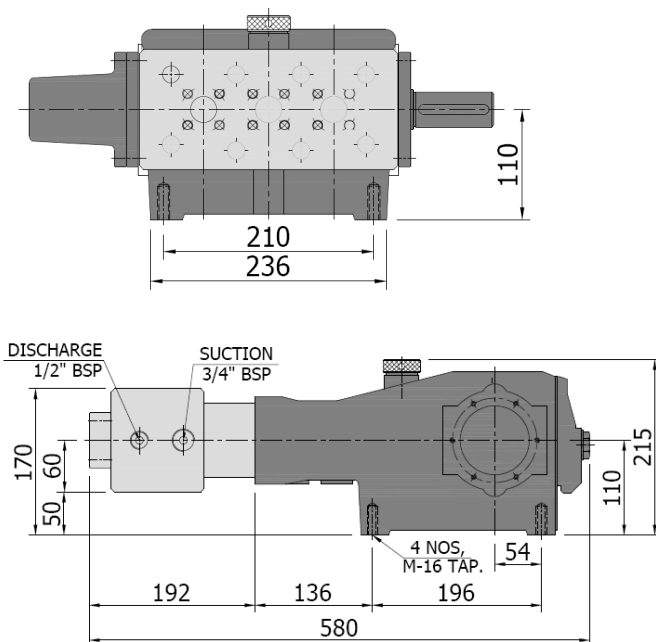
4. Piston (Cross Head)

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

5. Bearing

Oversized for maximum life and load disbursement. Self-alignment roller bearing enables it to handle 26% more load than other pumps.

PC Series- Dimension



Fluid End

6. Liquid End (Cylinder)

Stainless Steel: Liquid end is made of high corrosion resistant forged S.S.304.

7. Plunger (Ceramic / Tungsten coated)

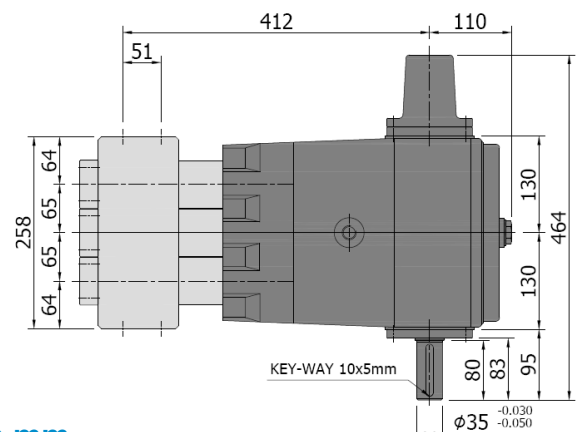
Primarily composed of ceramic coated or Tungsten coated. Surface roughness is extremely good i.e. <0.2 Ra.

8. Complete Valve

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

9. Plunger Seal

PTFE Aramide rope: "V" style strong and tightens under load or Aramide fiber yarn packing for high compressive & tensile strength ensure effective sealing.



All Dimensions are in mm,
Approx weight of bare pump: 85 Kg

PressureJet Systems Pvt. Ltd.

62/13, Phase-1, GIDC, Vatva, Ahmedabad-382445. Gujarat, India

Phone: +91-79-25830762 / 25835598

Email: sales@pressurejet.com

URL: www.pressurejet.com