

High Pressure Triplex Plunger Pump VA57 Series Catalogue

Model Selection Chart

Max. SPM is 500 with 1500 RPM motor (Gear ratio 3:1)

Max. SPM is 600 with 1500 RPM motor (Gear ratio 2.48:1)

Max. SPM is 800 with 1500 RPM motor (Gear ratio 1.86:1)

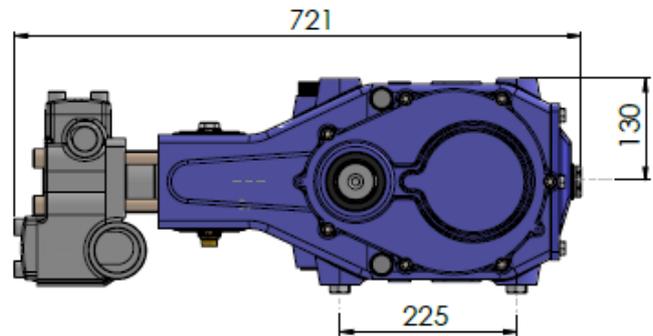
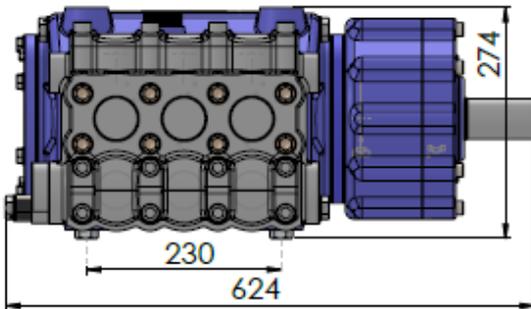
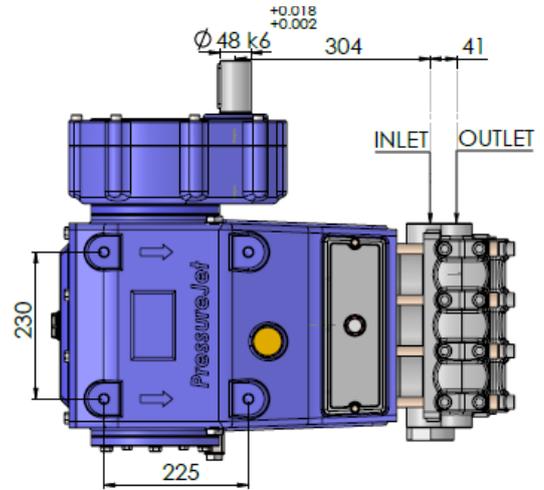
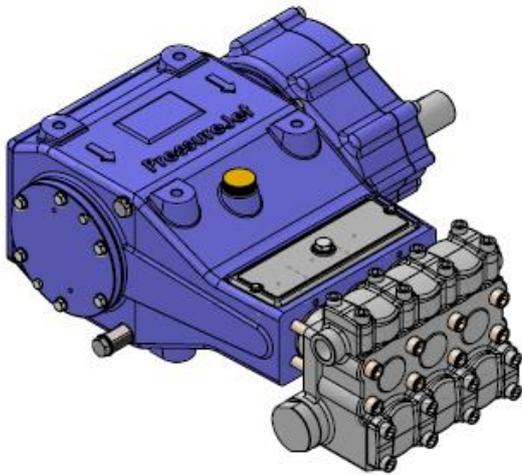
Model	SPM	Flow Rate in LPM (GPM)	Max. Rated Pressure in Bar (PSI)		
			40 HP	50 HP	60 HP
VA-57-36	500	87 (22.9)	175 (2538)	205 (2973)	-
VA-57-36	600	104 (27.4)	140 (2030)	180 (2610)	205 (2973)
VA-57-40	500	107 (28.2)	140 (2030)	165 (2393)	-
VA-57-40	600	129 (34.7)	120 (1740)	145 (2103)	165 (2393)
VA-57-36	800	139 (36.7)	110 (1590)	130 (1885)	-
VA-57-45	600	163 (43.1)	95 (1377)	115 (1660)	130 (1885)
VA-57-50	500	168 (44.3)	90 (1300)	105 (1522)	-
VA-57-40	800	172 (45.4)	85 (1233)	105 (1522)	130 (1885)
VA-57-50	600	200 (52.8)	75 (1085)	90 (1300)	105 (1522)

Max. SPM is 600 with 1800 RPM motor (Gear ratio – 3:1)

Model	SPM	Flow Rate in LPM (GPM)	Max. Rated Pressure in Bar (PSI)		
			40 HP	50 HP	60 HP
VA-57-36	600	104 (27.4)	140 (2030)	180 (2610)	205 (2973)
VA-57-40	600	129 (34.7)	120 (1740)	145 (2103)	165 (2393)
VA-57-45	600	163 (43.1)	95 (1377)	115 (1660)	130 (1885)
VA-57-50	600	200 (52.8)	75 (1085)	90 (1300)	105 (1522)

Note: All flow is based on 100% volumetric efficiency. Actual flow will be $\geq 90\%$.

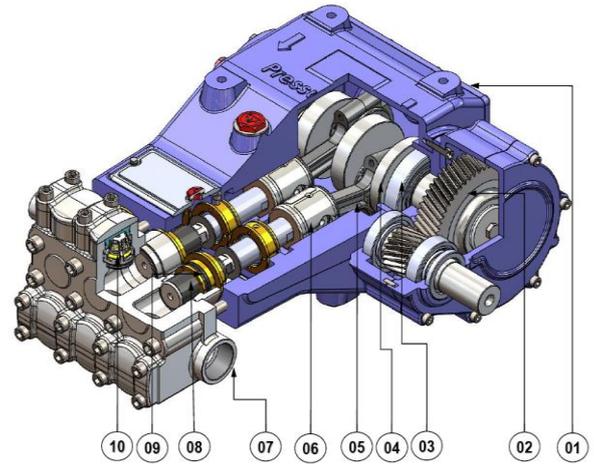
Dimension



Note: All dimensions are in mm & weight of bare pump is 197 Kg approx.

Salient Features

- Field proven design. Easy field maintenance.
- Casting stainless steel pump head construction with high strength.
- Rigorously subjected to full load testing.
- Manufactured on state-of-the-art machinery.
- Light in weight & heavy-duty construction with intermediate duty model.
- Splash lubrication.
- Both sides mounting available.
- Pump design is suitable for inbuilt gear box & hydraulic motor driven system.



Technical Specifications

- Stroke length: 57 mm
- Max. plunger speed: 1.52 m/sec. @ 800 SPM
- Plunger force: 2072 kgf
- Inlet pressure min.-max.: 2-3 Bar (Booster pump flow require minimum 1.5 times of rating flow)
- Oil type: Gear oil 220
- Oil capacity: 8 Ltrs.
- Max. permissible oil temp.: Room temp.+ 50°C
- Max. inlet water temp.: 5°C to 60°C
- Inlet connection: 2" BSPF
- Outlet connection: 1" BSPF

Types of Systems

- Skid mounted system with electric motor and diesel engine
- Trolley mounted system with electric motor and diesel engine
- Road going trailer with electric motor and diesel engine
- All unit available in four side cover or canopy on request

Material of Construction

- **Power End**

1. **Main body (Crank case)**

Grey cast iron IS 210-1993-Gr. FG260 (tensile strength of 260 N/mm²) with cross head bore surface finish <0.2Ra for low friction & low temperature with more mechanical efficiency. **All GD&T are maintained at 10 micron.**

2. **External Helical Gear Box**

Alloy steel: Helical gear is nitride hardened and precision ground for extremely long life and durability.

3. **Bearing**

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

4. **Crankshaft**

Forged Alloy Steel crankshaft is made of nitride, hardened and precision ground for extremely long life and durability.

5. **Connecting Rod**

Forged alloy steel connecting rod with antifriction bearing. Heavy pin area construction, for added load strength.

6. **Crosshead Assembly (Piston Rod)**

Grey iron casting piston & stainless-steel piston rod are hardened and super finish surface roughness.

- **Fluid End**

7. **Pump Head**

Pump head is made of high corrosion resistant. Material (SG iron / SS304)

8. Plunger

Primarily composed of ceramic on SS. Surface roughness is extremely good i.e. <0.2 Ra.

9. Plunger Seal

Chevron: - "V" style strong and tightens under load packing for high compressive & tensile strength ensure effective sealing.

10. Valve Assembly

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

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