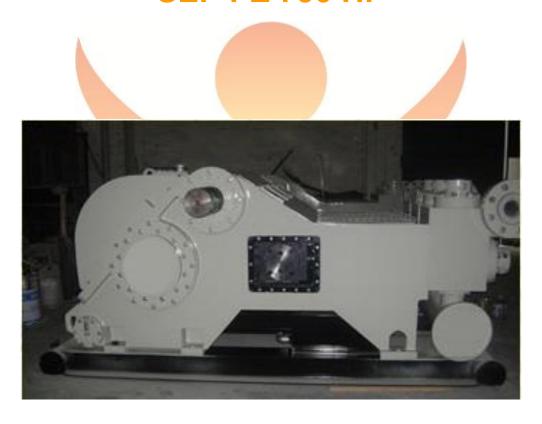


Triplex Single Acting Mud Pump

SEP PZ 750 HP



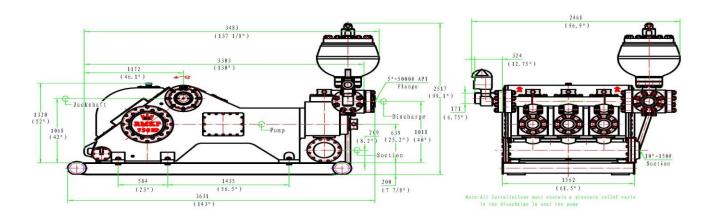






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Technical Specification

Input power rating (KW) 559 (750HP)

Rated pump speed (RPM)Stroke Length (mm)203 (8")

• Gear ratio 4.5

Rated speed of transmission shaft (RPM) 652

Max. working pressure (Kg/sq.cm)
 352 (5000PSI)

Valve size (API)

Max. liner diameter (mm)
 Max. displacement (GPM)
 580

Max. liner pressure (Kg/sq.cm)
 140 (1996PSI)

Diameter of suction pipe (mm)
 254 (10")

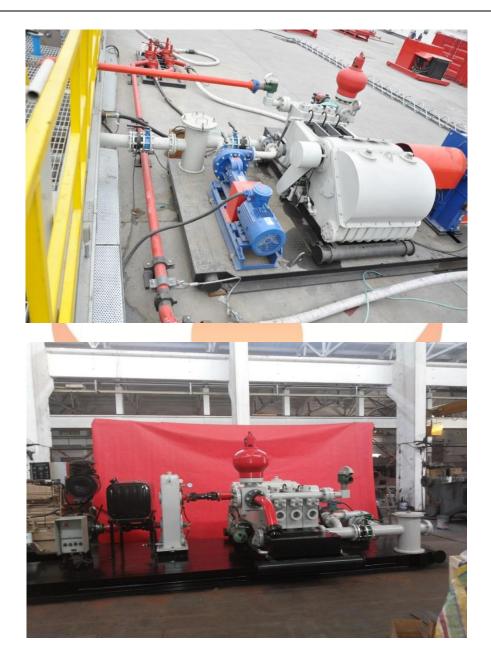
■ Diameter of discharge pipe (mm) 100 (4")

Overall dimensions 3650x2460x2520 mm

Weight (without dampener and joint atc) 10000kg

Weight (with dampener and joint atc)12200kg





SEPZ-750 Mud Pump Performance Data

Dia. of Liner	IN	7	6 1/2	6	5 1/2	5	4 1/2	4
Displacment	Gallon/Minute	580	500	426	358	296	240	189
	Liter/Minute	2196	1893	1613	1355	1120	908	715
Discharge Pressure	PSI	1996	2315	2717	3233	3912	4830	5000
	Kg/sq.cm	140	163	191	227	285	340	352

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Design features

The power end

The pump frame is of casting and welded steel – plate construction. The bearing housings

of the crankshaft, the transmission shaft and slides seats are made of steel castings and

are welded to the frame after rough - machined. They are stress - relieved through

resonance aging after welded.

Cuprum slide

The crankshaft is a hollow steel casting.

The bull gear and pinion shaft are composed of narrow groove helical gears in pairs

respectively and middle hard teeth.

The crosshead is a one – piece casting and runs directly in the cuprum slide.

All the bearings, crossheads and slides are double lubricated with splash and force.

The jackshaft is equipped with single – row radial short – roller bearings.

The main bearings are double – row radial spherical – roller bearings.

The crosshead is equipped with long – roller bearings.

The mono-block forging of hollow sphere for the pulsation dampener is first made in China.

■ The Fluid End

The fluid end is composed of three fluid modules (cylinders), each of which is a sectional

and communicating construction. The suction and discharge are accomplished by suction

and discharge pipes. The suction and discharge valves are vertically aligned with each

other to minimize the volumetric clearance.

There is clamp connection between the piston rod and the intermediate rod, which

facilitates the services of these parts.

The piston liner is pressed by the liner clamp, which is attached to fluid cylinder with bolts.

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The threaded cover of the fluid cylinder is attached to the flange with buttress threads,

which facilitates the services of them. The flange is fastened to the fluid cylinder, which

facilitates the machining and servicing of the fluid cylinder.

The taper of the valve seat is 1:6. The bottom of the seat is provided with a shoulder to be

suitable for high pressure. Confirm to API Spec. 7K.

The piston rod conforms to APE Spec 7K. The piston is fastened with 1-1/2" locknut and is

lubricated and cooled by the water tank or the water with inhibitor supplied by a centrifugal

spray pump.

There are 7 sizes of liners in I.D. All these liners are the same in O.D.

There are two types of liners: high-grade liner and plain liner. The high - grade liner is

made of carbon steel as a base metal, which is casted or inserted with high – chrome alloy

- steel to ensure wearability. The plain liner is made of low - carbon steel which is

carburized and quenched inside to enhance the surface hardness.

There are suction inlets in front of and on both sides of the pump, which are connected to

the suction manifold. The three suction flanges are of 10"ASAB16.5-150PSI.

The flanges of discharge pipe and five-way joint are of 4" 5000PSI flange.

The discharge pulsation damper is spherical and pre – pressured. Its Max. working

pressure is 5000PSI, and volume is 75 liters (20 gallons). The pulsation dampener is

connected to the air filler and to the pressure gauge, using 3/4" - 14NPT and 1/4" - 18NPT

respectively.

It is advisable to equip a charging pump during operation to improve the suction.

performance and raise the efficiency of the charge pump.

It is advisable to equip a liner lubrication pump during operation to cool the pistons and

liners so as to extend their service life.



Optional:

- Suction and/or discharge dampeners, discharge five way joint.
- Shear safety valve
- Pressure gauge
- Charge mud pump
- Large steel skid with non-skid decking
- Centrifugal suction charging pump
- Rubber valve inserts
- Oil heat exchanger
- Electromotor pump unitization
- Diesel motor pump unitization