



TRIPLEX SINGLE ACTING RECIPROCATING PISTON PUMP

The Scamont SP600 pump is robust in design and suitable for application in the harshest environments.

DYNAMIC | POWER | MOTION

UNIQUE DESIGN FEATURES

- New release ideally suited for higher volume lower head applications
- Robust design with fabricated steel frame allowing for refurbishment
- Registered Design Protection

S SCAMONT

- Fluid end configuration interchangeable with Scamont SP-200
- Clear water or slurry service with solids up to 8mm in size
- Low rpm
- Simple piston change procedure
- Disposable valve bodies
- From 21.99 l/sec at 612 m vertical head to 34.35 l/sec at 392 m vertical head (SG = 1.0), or similar pressures.
- Different materials of construction available in order to deal with a
 multitude of corrosive forces
- Electric or diesel motor driven
- Proudly manufactured in South Africa

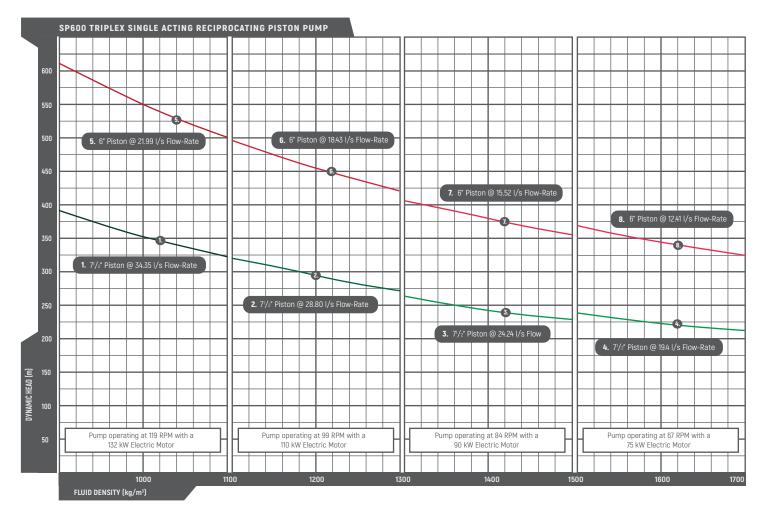
APPLICATIONS

- Higher volumetric requirements
- Horizontal or vertical transfer
- Underground and Surface Mining Operations
- Settler Underflow
- Shaft bottom de-watering
- Stage mounting during shaft sinking
- Backfill pumping
- Grout plants
- Tailings





PERFORMANCE CURVES



- The curves shown were calculated assuming a 90% mechanical efficiency and a 100% volumetric efficiency.
- Maximum pressure applies to the fliud ends.
- Maximum pressures for any given piston size must not be exceeded even at reduced RPM.
- Speeds are recommended for suction lines shorter than 6m and are recommended for favourable suction line conditions however consideration must be given to viscosity and character of fluids.





SP600 TRIPLEX SINGLE ACTING RECIPROCATING PISTON PUMP

TECHNICAL SPECIFICATIONS

Motor Size:

- 0.9 > Specific Gravity < 1.1 : 132 kW
- + 1.1 > Specific Gravity < 1.3 : 110 kW
- + 1.3 > Specific Gravity < 1.5 : 90 kW
- + 1.5 > Specific Gravity < 1.7 : 75 kW

Larger motors can be installed however maximum pressure cannot be exceeded

Max Pressure:

• 71/2" Piston : 3.44 MPa

• 6" Piston : 5.37 MPa

Based on Piston load of 9990kg

Crank Speed:

- 0.9 > Specific Gravity < 1.09 : 119 RPM
- 1.1 > Specific Gravity < 1.29 : 99 RPM
- 1.3 > Specific Gravity < 1.49 : 84 RPM
- 1.5 > Specific Gravity < 1.7 : 67 RPM

Speeds can be altered by changing the pulleys. Greater speeds result in greater flow which absorb more power. Contact a Scamont representative before attempting to change flow rates

Recommend NPSH: 4m

This is measured from the fluid surface level to the centre line of the pump. Suction lines longer than 6m will result in a greater NPSHR. Please contact a Scamont representative to assist.

Max Particle Size: 8mm

Use a mesh screen to remove any particle which is larger than 8mm. This mesh must be cleaned regularly to avoid suction problems.

Pump Weight: 6400 kg

This is complete with motor and base frame. Pump without motor and base frame weighs 5100 kg

Pump Accessories

Scamont offers a full range of accessories for the SP600 pump.

This includes and is not limited to:

- Non Return Valves (Installed in order to limit slip flow on discharge valve)
- Shear Relief Valves (necessary in every installation to limit maximum pressure)
- Plug Valves (used at start-up to obtain operating speed without load)
- Accumulators (used to obtain steady flow in discharge line)
- Valve Seat Pullers (used to remove valve seats)
- Plunger Extracting Tool (used to assist in removing plungers)
- Sockets (specific to stuffing box, jackshaft and eccentric nuts)
- Starter Panel (Designed to used with the SP200 pump, details obtainable from Scamont representative)
- External lubrication system with 100 % redundancy.

Pump Monitoring Device

Scamont offers a lubrication monitoring system which trips the pump on low oil, filter block or oil temperature limit.

Material of Construction

Scamont Engineering can alter the materials of construction for any application including mud and acid water.

Note

- Crank speed can be varied to provide for varying capacities and pressures.
- · Data subject to change as required

PLUNGER SIZE		STROKE		DISPLACEMENT PER REVOLUTION (SINGLE ACTION)	MAXIMUM Piston load	MAXIMUM PRESSURE	DISPLACEMENT AT PUMP RPM				BYPASS VALVE SIZE	RECOMM. Pressure Rating	
	In.	mm	In.	mm	CC	kg	MPa	I/s			(NPS) DN	(Class) PN	
	7,5 6	190,5 152,4	8 8	203,2 203,2	5 792 3 707	9 990 9 990	3,44 5,37	34,35 21,99	28,80 18,43	24,24 15,52	19,40 12,41	(3") 80mm (3") 80mm	(300)50 (600)100
				INPUT POWER PUMP RPM SPECIFIC GRAVITY OF FLUID		kW RPM SG	132 119 0.9>SG<1.09	110 99 1.1>SG<1.29	90 84 1.3>SG<1.49	75 67 1.5>SG<1.7			

Bypass Valve Size*

When selecting the bypass valve pressure rating multiply the maximum system pressure by 1.15 to determine maximum valve rating



PERFORMANCE TABLE