



SP600

TRIPLEX SINGLE ACTING RECIPROCATING PISTON PUMP

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

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
- 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 19.25 l/sec at 525m vertical head to 28.92 l/sec at 350m vertical head 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

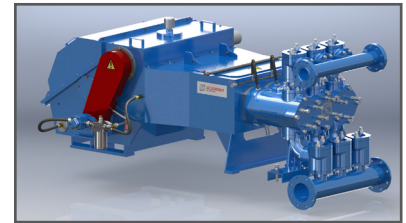
APPLICATIONS

- 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

DYNAMIC | POWER | MOTION

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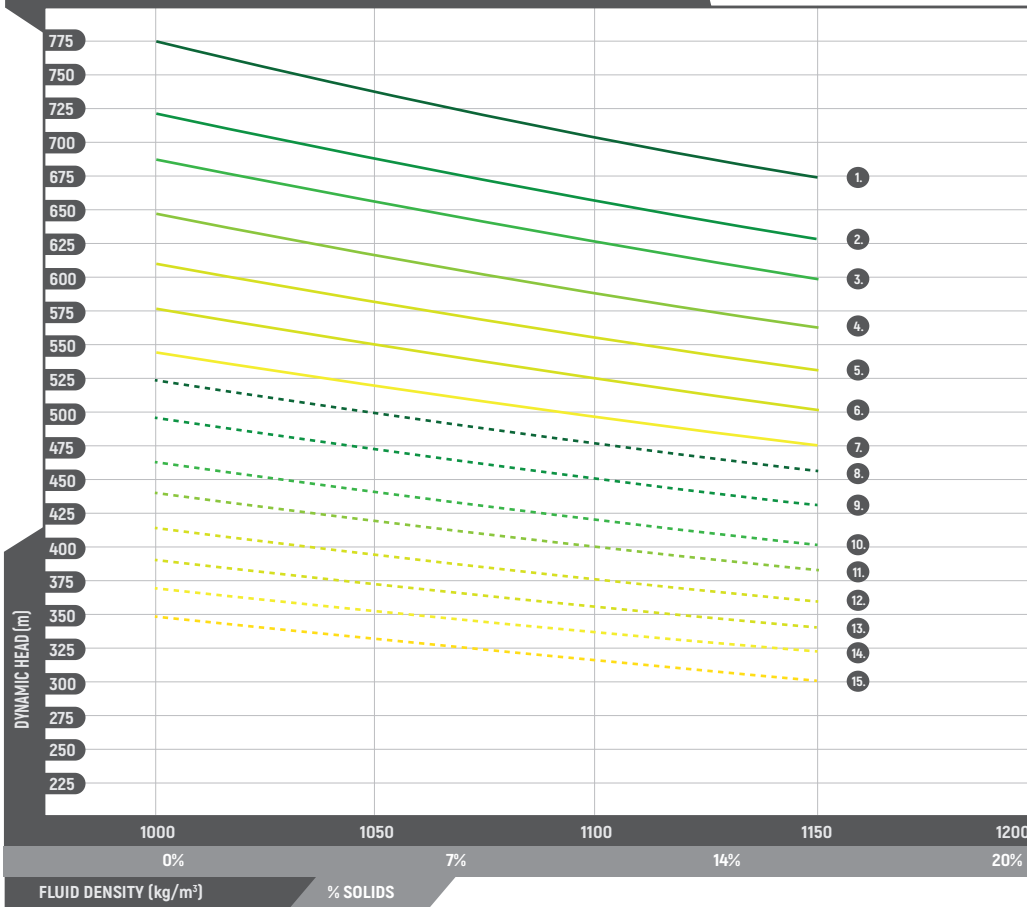
----- 7 1/2" PISTON & LINER
 _____ 6" PISTON & LINER

1.	70 rpm	13.02 l/s	1250:280 Pulleys
2.	75 rpm	13.95 l/s	1250:300 Pulleys
3.	79 rpm	14.65 l/s	1250:315 Pulleys
4.	84 rpm	15.58 l/s	1250:335 Pulleys
5.	89 rpm	16.51 l/s	1250:355 Pulleys
6.	94 rpm	17.44 l/s	1250:375 Pulleys
7.	100 rpm	18.52 l/s	942:300 Pulleys
8.	66 rpm	19.25 l/s	1250:265 Pulleys
9.	70 rpm	20.34 l/s	1250:280 Pulleys
10.	75 rpm	21.79 l/s	1250:300 Pulleys
11.	79 rpm	22.88 l/s	1250:315 Pulleys
12.	84 rpm	24.33 l/s	1250:335 Pulleys
13.	89 rpm	25.79 l/s	1250:355 Pulleys
14.	94 rpm	27.24 l/s	1250:375 Pulleys
15.	100 rpm	28.92 l/s	942:300 Pulleys

The curves shown were calculated assuming a 90% mechanical efficiency and a 100% volumetric efficiency. The pressures were calculated using a 110 kW prime mover.

*Note: Pipe friction losses can greatly effect the pressure requirement of a pump. Scamont representatives will gladly assist with any dynamic head calculations.

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RECOMMENDED MOTOR SIZE: 110kW

Larger motors can be installed however maximum pressure cannot be exceeded

MAX RECOMMENDED PRESSURE: 7.7MPa

RECOMMENDED CRANK SPEED: 100rpm

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

NET POSITIVE SUCTION HEAD REQUIRED (NPSHr): 4m

This is measured from the fluid surface level to the suction inlet flange. 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: 5300kg

This is complete with motor and base frame. Pump without motor and base frame weighs 5000 kg

PUMP MONITORING DEVICE

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

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 max. pressure)
- Plug Valves (used at start-up to obtain operating speed with load)
- Accumulators and Air-chambers (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)
- Independent lubrication system (100% redundancy)

MATERIALS OF CONSTRUCTION

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

* Crank speed can be varied to provide for varying capacities and pressures.

** Data subject to change as required