SCAMONT
ENGINEERING

SP200

TRIPLEX SINGLE ACTING RECIPROCATING PLUNGER PUMP

INTERCHANGABLE CONFIGURATION | CUSTOMISED SOLUTIONS

TThe SP200 is the pump of choice in high head slurry applications and is adaptable to a wide range of applications.

DYNAMIC | POWER | MOTION

UNIQUE DESIGN FEATURES

- Robust design with fabricated steel frame allowing for refurbishment
- Fluid end configuration interchangeable with Scamont SP-600
- Clear water or slurry service with solids up to 8mm in size
- Low rpm
- Simple maintenance
- From 4.63 l/sec at 2180m vertical head to 10.42 l/sec at 975m 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

- High dynamic head applications
- Horizontal or vertical transfer
- Underground and Surface Mining Operations
- Settler Underflow
- High pressure jetting or hosing
- Shaft bottom de-watering
- Stage mounting during shaft sinking
- Backfill pumping
- Grout plants
- Tailings

SP200

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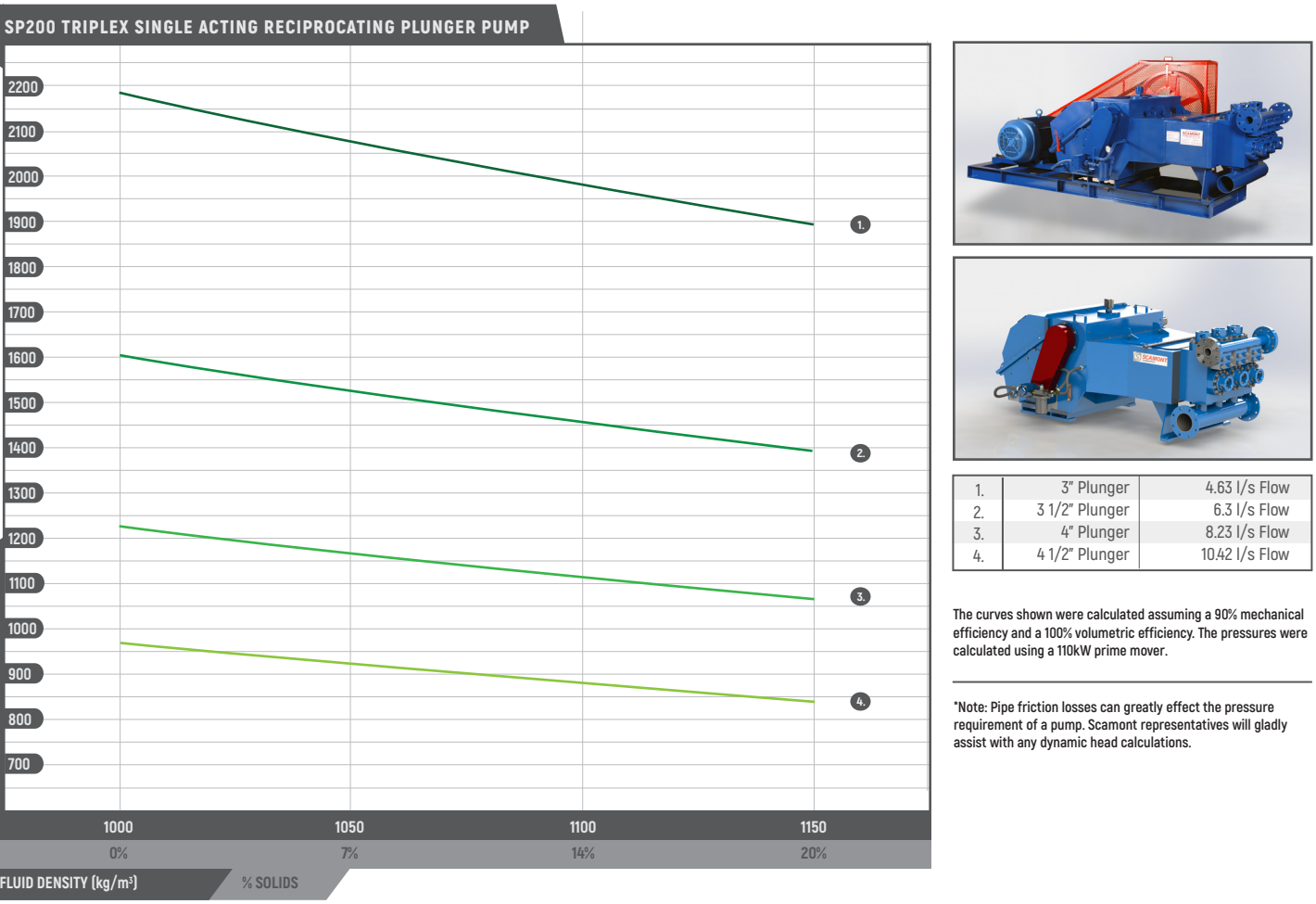

1.	3" Plunger	4.63 l/s Flow
2.	3 1/2" Plunger	6.3 l/s Flow
3.	4" Plunger	8.23 l/s Flow
4.	4 1/2" Plunger	10.42 l/s Flow

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

RECOMMENDED MOTOR SIZE: 110kW
Larger motors can be installed however maximum pressure cannot be exceeded.

MAX RECOMMENDED PRESSURE: 21.6MPa
Note 3" Plunger models require forged fluid ends.

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): 1m
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: 5300kg
This is complete with motor and base frame. Pump without motor and base frame weighs 5000kg.

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 SP200 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 be 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.

* The four different sized plungers are interchangeable to provide for varying capacities and pressures.
** Data subject to change as required

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