

FXG

**DUPLEX DOUBLE ACTING
RECIPROCATING PISTON PUMP**

MOBILE | SIMPLE MAINTENANCE | CUSTOMISED SOLUTIONS

The Scamont FXG is a versatile slurry pump that has a wide universe of applications by virtue of its compact design and low power requirements, whilst still delivering impressive flow rates over a range of pressure duties.

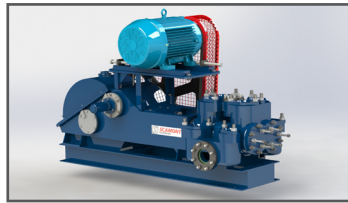
UNIQUE DESIGN FEATURES

- Robust design with fabricated steel frame allowing for refurbishment
- Clear water or slurry service with solids up to 8mm in size
- Low rpm
- Simple maintenance
- Mobility on a skid
- From 4.4 l/sec at 609m vertical head to 12.5 l/sec at 219m 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
- Customised solutions available
- Proudly manufactured in South Africa

APPLICATIONS

- Underground and Surface Mining Operations
- High pressure jetting or hosing
- Mud Drilling
- Horizontal and vertical transfer
- Shaft bottom de-watering
- Stage mounting during shaft sinking
- Backfill pumping
- Grout plants
- Agriculture

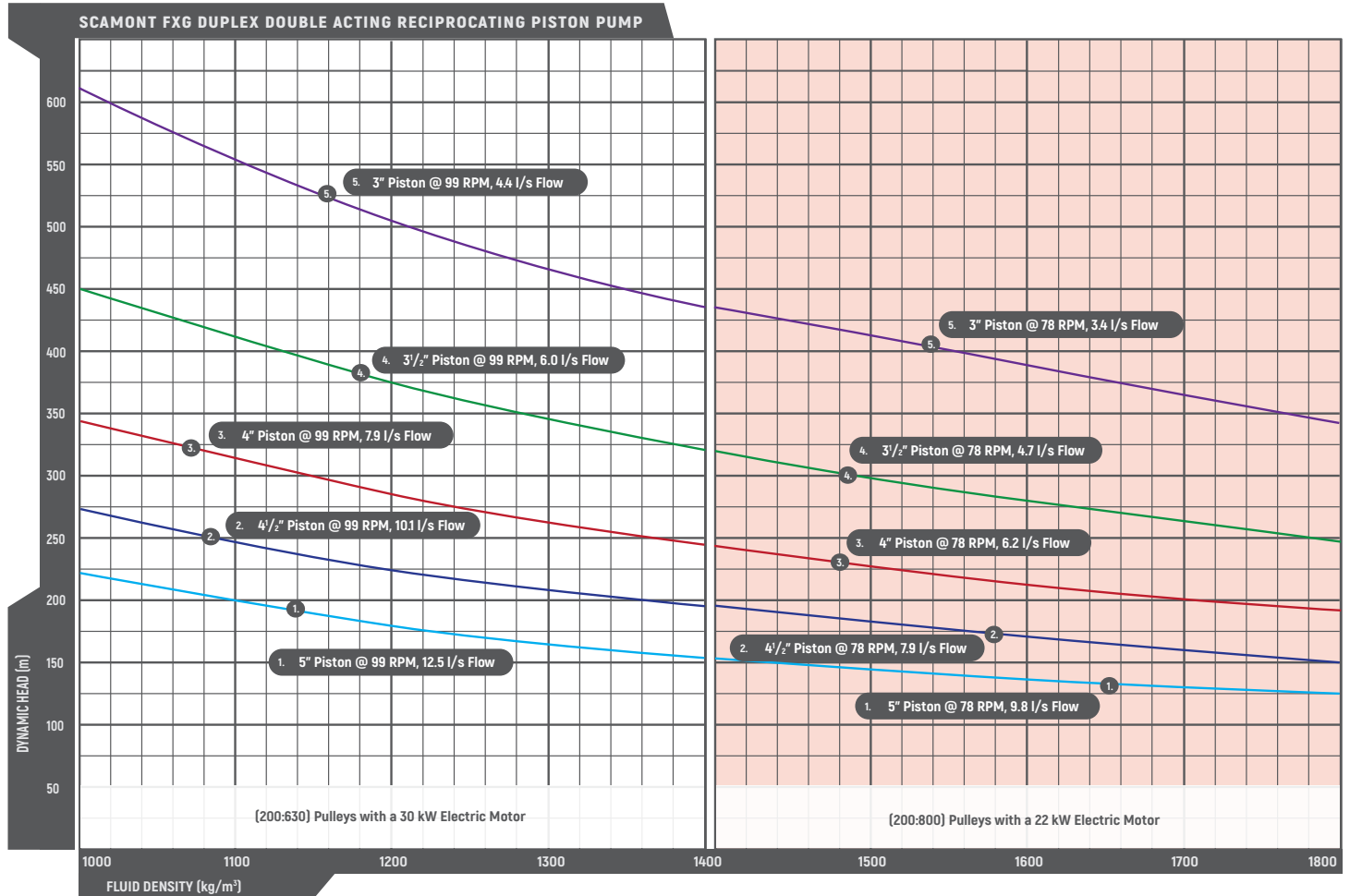
DYNAMIC | POWER | MOTION



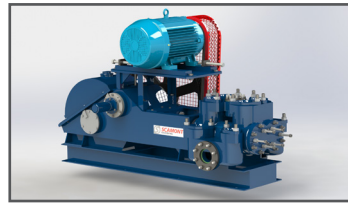
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PERFORMANCE CURVES



- The curves shown were calculated assuming a 90% mechanical efficiency and a 100% volumetric efficiency.
- Maximum pressure applies to the fluid ends.
- Maximum pressures for any given Piston size must not be exceeded even at reduced RPM
- NOTE : These 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.



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TECHNICAL SPECIFICATIONS

Motor Size:

- 1" > Specific Gravity < 1.4 : 30 kW
- 1.4" > Specific Gravity < 1.8 : 22 kW

Larger motors can be installed however maximum pressure cannot be exceeded

Max Pressure:

- 3" Liner : 5.97 MPa
- 3 1/2" Liner : 4.39 MPa
- 4" Liner : 3.36 MPa
- 4 1/2" Liner : 2.65 MPa
- 5" Liner : 2.15 MPa

Based on Piston load of 2777kg

Crank Speed:

- 1" > Specific Gravity < 1.4 : 100 RPM
- 1.4" > Specific Gravity < 1.8 : 78 RPM

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.

Recommend NPSH: 1m

This is measured at the suction flange.

For Suction lines longer than 6m, please contact a Scamont representative to assist.

Negative suction heads are possible when the pump is primed correctly, contact a Scamont representative for assistance.

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: 1500 kg

This is complete with motor and base frame. Pump without motor and base frame weighs 1150 kg.

Pump Accessories

Scamont offers a full range of accessories for the FXG 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)
- Starter Panel (Designed to be used with the FXG pump, details obtainable from Scamont representative)

Note

- The five different sized Pistons are interchangeable to provide for varying capacities and pressures.
- Data subject to change as required

PERFORMANCE TABLE

PISTON 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	l/s		(NPS) DN	(Class) PN
5	127	6	152,4	1 931	2 777	2,15	12,5	9,8	(2") 50mm	(300)50
4.5	114,3	6	152,4	1 564	2 777	2,65	10,1	7,9	(2") 50mm	(300)50
4	101,6	6	152,4	1 236	2 777	3,36	7,9	6,2	(2") 50mm	(300)50
3.5	88,9	6	152,4	946	2 777	4,39	6,0	4,7	(2") 50mm	(300)50
3	76,2	6	152,4	695	2 777	5,97	4,4	3,4	(2") 50mm	(600)100
INPUT POWER						kW	30	22		
PUMP RPM						RPM	100	78		
SPECIFIC GRAVITY OF FLUID						SG	0.9>SG<1.4	1.4>SG<1.8		

Bypass Valve Size*

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