

**PRIME MASTER
HEAVY DUTY/SELF-PRIMING
SOLIDS HANDLING/TRASH PUMPS**



SUPER LP & SUPER HP SERIES

Delfin 

SERIES LP AND HP - SELF-PRIMING

QUICK AND SIMPLE MAINTENANCE

ROUTINE MAINTENANCE SERVICES ARE CARRIED OUT QUICKLY AND EASILY WITH THE USE OF REGULAR TOOLS, THUS ECONOMIZING TIME AND LABOR.



CLEANING AND INSPECTION

WITHOUT DISCONNECTING THE PIPEWORK (BACK - PULL - OUT)

ANOTHER ADVANTAGE OF THE SELF PUMP IS THAT CLEANING AND CLEARING ARE SIMPLE TASKS, AS ARE INSPECTION AND SUBSTITUTION OF THE IMPELLER AND SEAL, WHEN NECESSARY.

THE LP AND HP PUMPS WERE ESPECIALLY DESIGNED FOR QUICK CLEANING BEFORE RETURNING TO OPERATION.



EVEN DURING PREVENTIVE MAINTENANCE, INTERNAL INSPECTION CAN BE CARRIED OUT QUICKLY AND SAFELY. TO DO THIS, ALL THAT HAS TO BE DONE IS TO UNSCREW AND LIFT THE HANDLES OF THE INSPECTION COVER, AND THEN PERFORM THE CLEANING OPERATION, WITHOUT REMOVING THE CASING NOR DISCONNECTING THE PIPEWORK.

SHIMLESS EXTERNAL IMPELLER ADJUSTMENT



AN EXCLUSIVE SYSTEM TO EXTERNALLY ADJUST THE IMPELLER CLEARANCE WITHOUT DISASSEMBLING THE PUMP. WITH THE USE OF JUST AN ALLEN OR FIXED WRENCH, SIMPLE ADJUSTMENT CAN OPTIMIZE PUMP EFFICIENCY WHILE EXTENDING THE LIFE OF BOTH IMPELLER AND WEAR PLATE.



SERIES LP AND HP - SELF-PRIMING

CONSTRUCTION MATERIALS

	STANDARD	TYPE A	TYPE B	TYPE C	TYPE D	TYPE E	TYPE F	TYPE G
CASING	A 48CL30					CD4 MCU	SS 316	ADI
IMPELLER	A 60-40-18	A 216	CD4 MCU	SS 316	ADI	CD4 MCU	SS 316	ADI
WEAR PLATE	SAE 1020	A 216	CD4 MCU	SS 316	ADI	CD4 MCU	SS 316	ADI
COVER PLATE	A 48CL30	A 216	CD4 MCU	SS 316	ADI	CD4 MCU	SS 316	ADI
BEARING HOUSING	A 48CL30					CD4 MCU	SS 316	ADI
SEAL PLATE	A 48CL30	A 216	CD4 MCU	SS 316	ADI	CD4 MCU	SS 316	ADI
FLAP VALVE	Neoprene					Viton		
SLEEVE SHAFT	ANSI 4140HT	ANSI 17-4						
FLANGE	A 48CL30				ADI	SS 316	SS 316	ADI
O'RINGS	Buna		Viton					
IMPELLER SHAFT	ANSI 4140HT	ANSI 17-4						
MECHANICAL SEAL	Casing in SS 316, O' rings in Buna & Viton, faces in titanium and tungsten carbide							

THE MECHANICAL SEAL FOR ALL MODELS HAS A 316SS BODY, VITON O' RINGS AND TUNGSTEN CARBIDE FACES. OTHER SEALS AVAILABLE UPON REQUEST.

ALL CAST IRON PARTS ARE ASTM 48, CLASS 30.

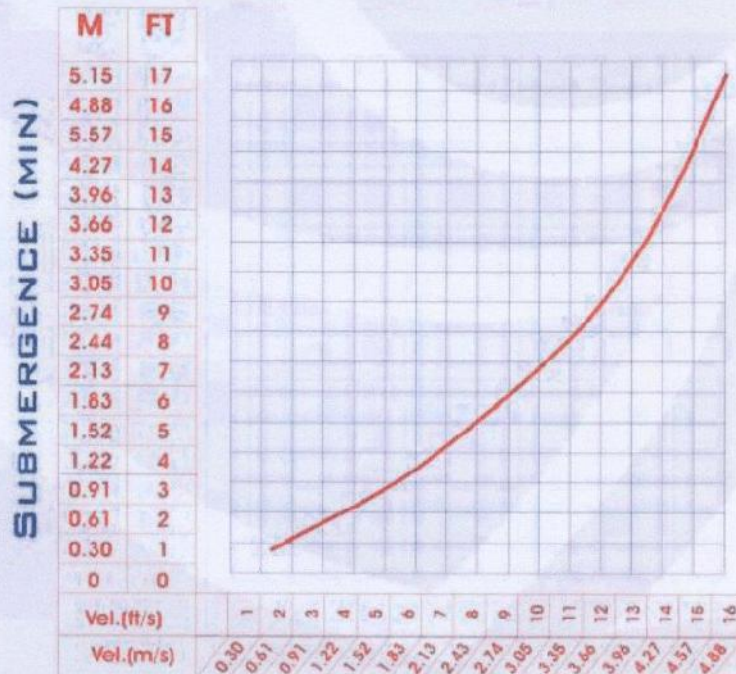
ALL CARBON STEEL SHAFTS ARE SAE 4140 HT

ALL PARTS LABELED CD4 ARE HARDENED 18-8 STAINLESS STEEL, CD4, DIN 1-4463

ALL PARTS LABELED 316SS ARE CF8M

EPOXY AND CERAMIC INTERNAL COATINGS ARE AVAILABLE. PLEASE CALL FOR QUOTE.

SUCTION SPEED FLOW CURVE



NOTE 1: THE SUGGESTED SUCTION SHOULD HAVE THE SAME NOMINAL DIAMETER AS THE PUMP, SO THAT THE SOLIDS WILL BE TOTALLY SWEEPED UP.

2: IF THE SPEED IS HIGHER THAN 3.5 M/S AND IF THERE IS A NEED FOR HIGHER "NPSH", PLEASE CONTACT THE FACTORY.

SERIES LP

MODEL LP-2



DATA SHEET

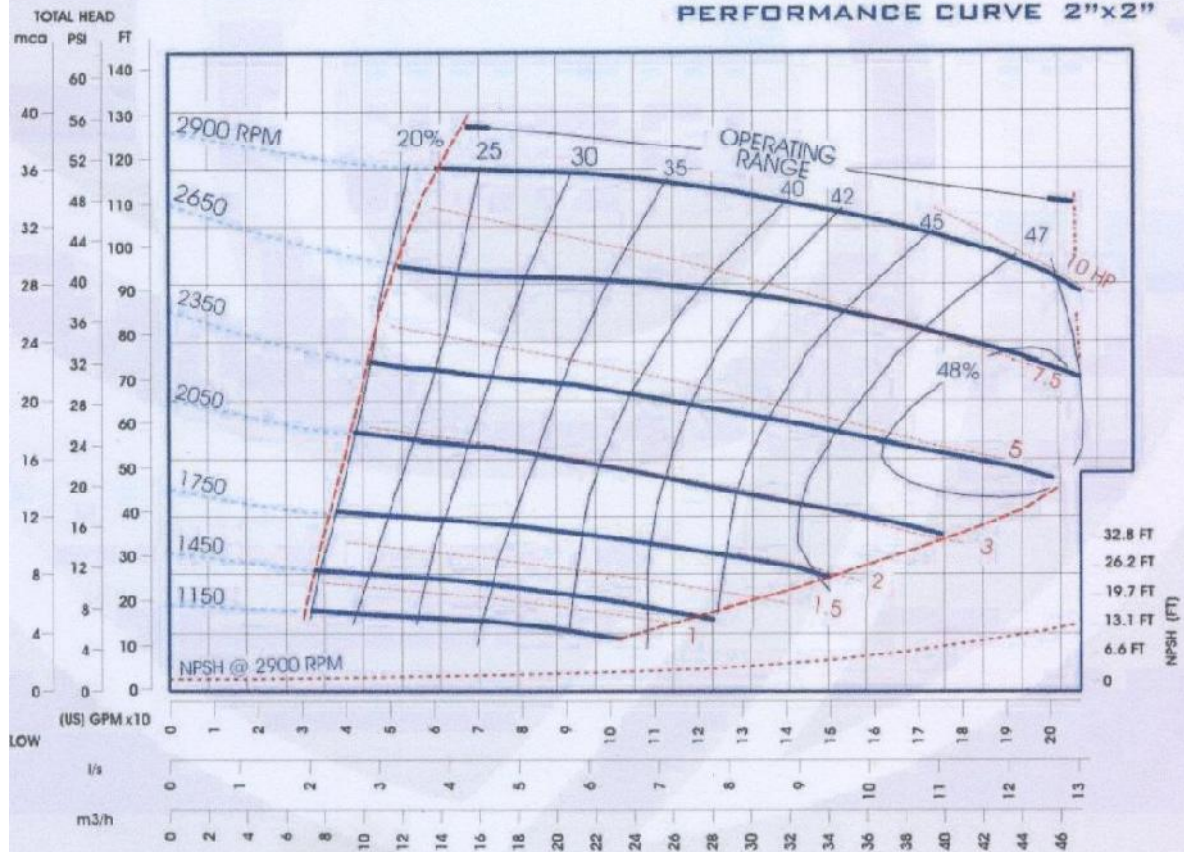
NET WEIGHT **92kg (203lbs)**
 SHIPPING WEIGHTS **114kg (252lbs)**
 IMPELLER DIA. **158,75mm (6.1/4")**
 R.P.M. **FROM 1150rpm TO 2900rpm**
 MAX. SOLIDS **44,45mm (1.3/4")**

SELF-PRIMING

1150 RPM 7,3m (24ft) - 1450 RPM 7,6m (25ft)
 1750 RPM 7,6m (25ft) - 2050 RPM 7,6m (25ft)
 2350 RPM 7,6m (25ft) - 2650 RPM 7,6m (25ft)
 2650 RPM 7,6m (25ft) - 2900 RPM 7,6m (25ft)

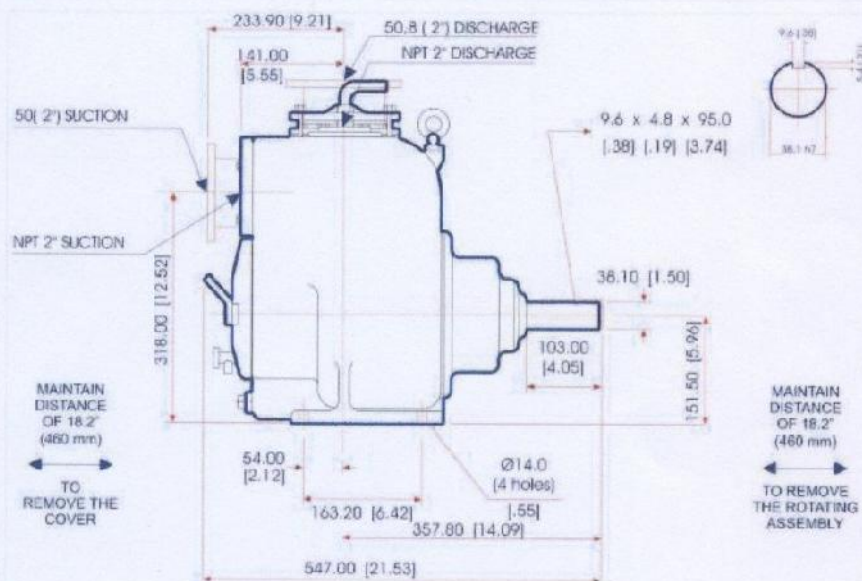
BEFORE USING THIS TABLE, CHECK THE NPSH.

PERFORMANCE CURVE 2"x2"



Technical drawing of the front view of a pump assembly. The drawing shows a cylindrical body with a central circular opening and four mounting feet. Dimensions are provided in millimeters (mm) and inches (in).

Dimension	Value (mm)	Value (in)
Top flange diameter	70.00	[2.75]
Top flange thickness	35.00	[1.38]
Overall height	430.00	[16.92]
Height to center of main body	395.00	[15.55]
Height to center of mounting feet	318.00	[12.51]
Height to base of mounting feet	151.50	[5.96]
Overall width	308.30	[12.14]
Width of mounting feet (each)	140.50	[5.53]
Width of central opening	281.00	[11.06]
Overall height including top flange	535.00	[21.06]



SERIES LP

MODEL LP-3



DATA SHEET

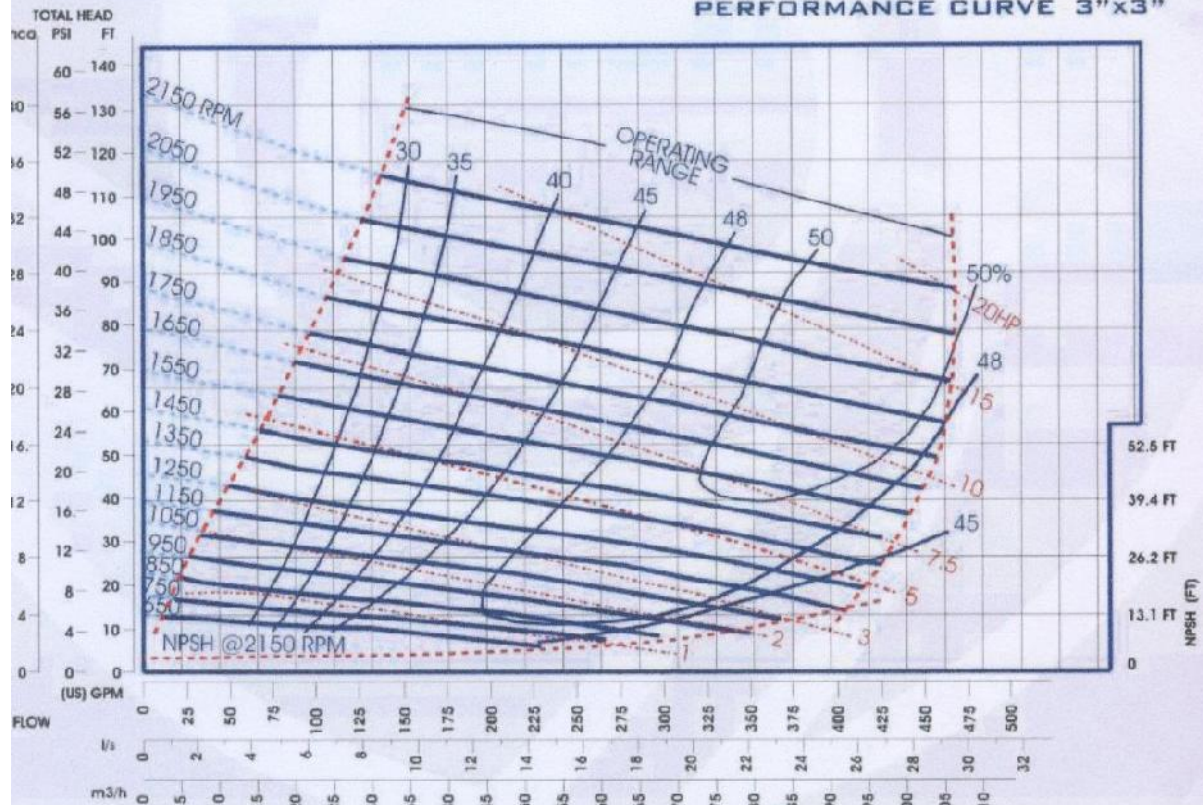
NET WEIGHT **183kg (404lbs)**
 SHIPPING WEIGHTS **205kg (452lbs)**
 IMPELLER DIA. **222,25mm (8.75")**
 R.P.M. **FROM 650rpm TO 2150rpm**
 MAX. SOLIDS **63,5mm (2.1/2")**

SELF-PRIMING

650 RPM 1,5m (5ft) - 750 RPM 1,8m (6ft)
 850 RPM 2,4m (8ft) - 950 RPM 3,0m (10ft)
 1050 RPM 4,0m (13ft) - 1150 RPM 4,9m (16ft)
 1250 RPM 5,5m (18ft) - 1350 RPM 5,8m (19ft)
 1450 RPM 6,4m (21ft) - 1550 RPM 6,4m (21ft)
 1650 RPM 6,7m (22ft) - 1750 RPM 6,7m (22ft)
 1850 RPM 7,6m (25ft) - 1950 RPM 7,6m (25ft)
 2050 RPM 7,6m (25ft) - 2150 RPM 7,6m (25ft)

BEFORE USING THIS TABLE, CHECK THE NPSH.

PERFORMANCE CURVE 3"x3"



SERIES LP

MODEL LP-4



DATA SHEET

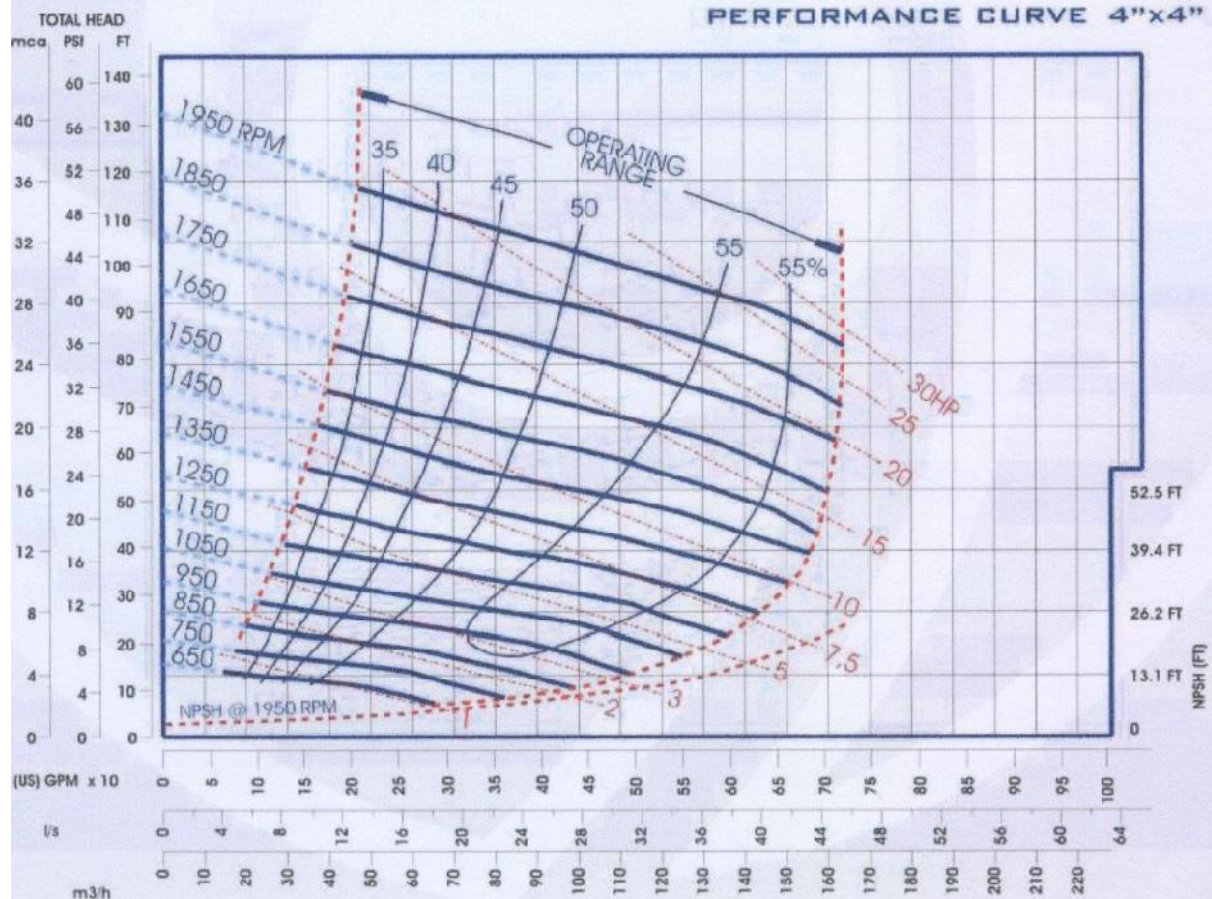
NET WEIGHT **259,5kg (600lbs)**
 SHIPPING WEIGHTS **280kg (655lbs)**
 IMPELLER DIA. **247,65mm (9.3/4")**
 R.P.M. **FROM 650rpm TO 1950rpm**
 MAX. SOLIDS **76,2mm (3")**

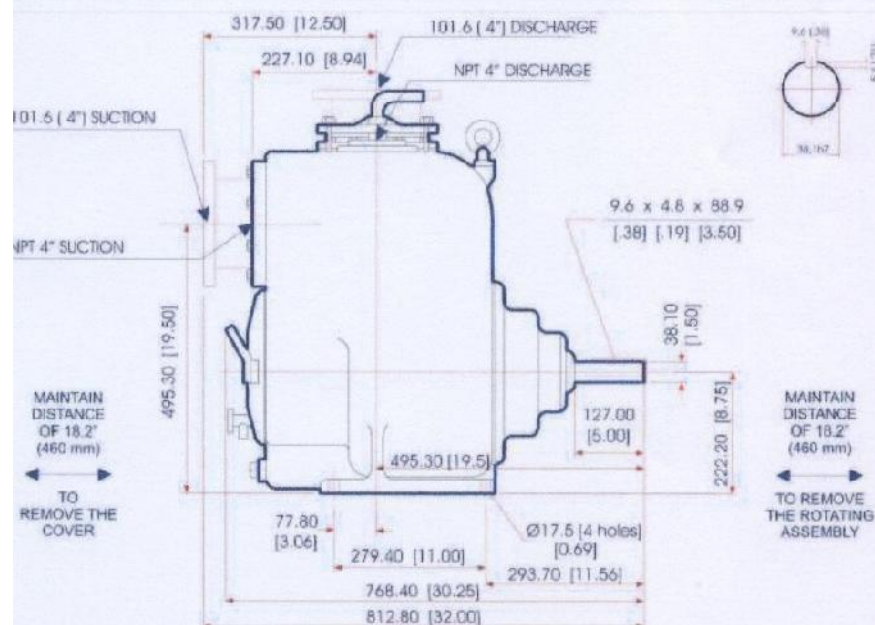
SELF-PRIMING

650 RPM 1,5m (5ft) - 750 RPM 2,4m (8ft)
 850 RPM 4,9m (16ft) - 950 RPM 5,8m (19ft)
 1050 RPM 6,7m (22ft) - 1150 RPM 7,3m (24ft)
 1250 RPM 7,6m (25ft) - 1350 RPM 7,6m (25ft)
 1450 RPM 7,6m (25ft) - 1550 RPM 7,6m (25ft)
 1650 RPM 7,6m (25ft) - 1750 RPM 7,6m (25ft)
 1850 RPM 7,6m (25ft) - 1950 RPM 7,6m (25ft)

BEFORE USING THIS TABLE, CHECK THE NPSH.

PERFORMANCE CURVE 4"x4"



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SERIES LP

MODEL LP-6



DATA SHEET

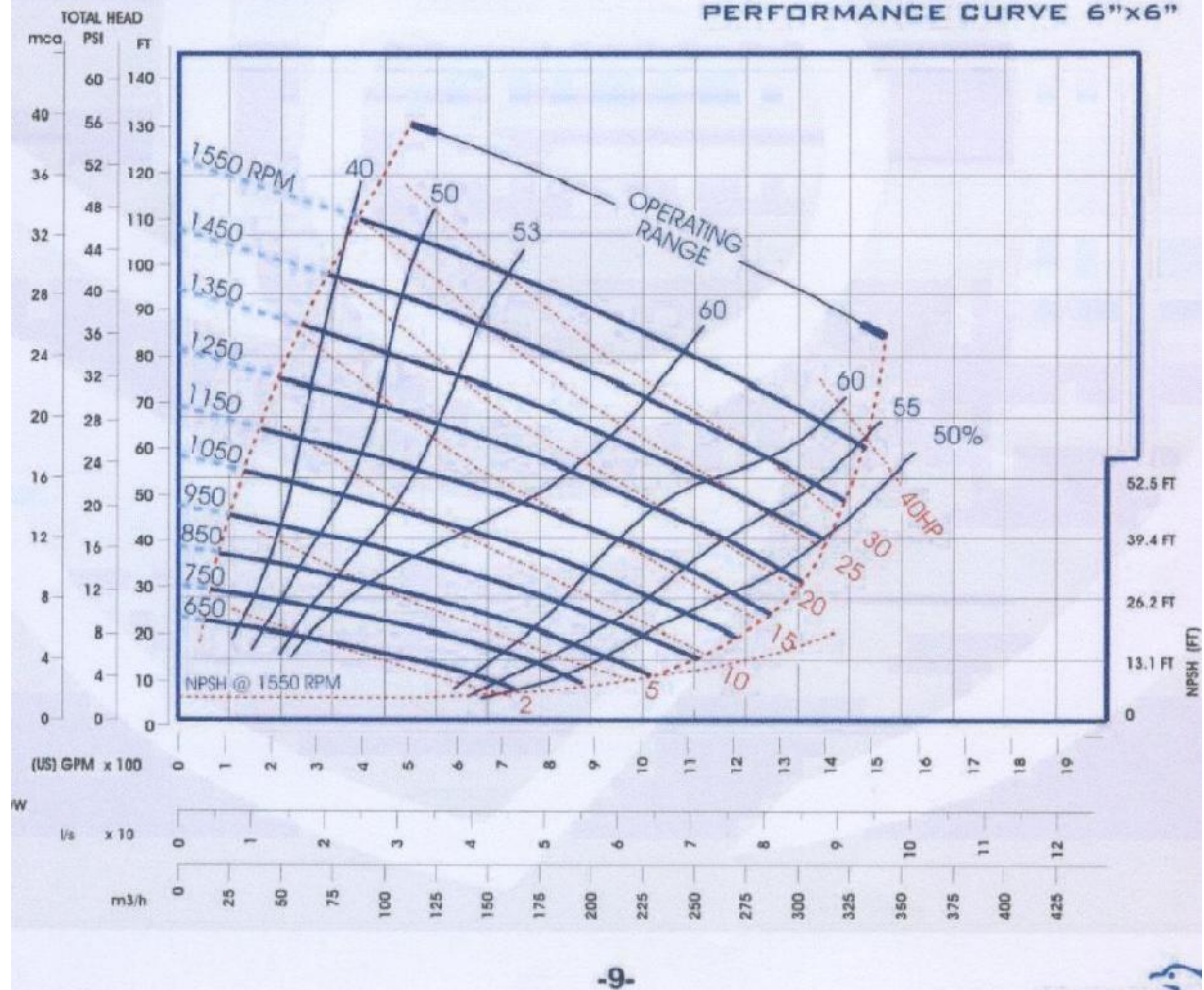
NET WEIGHT 364kg (802lbs)
SHIPPING WEIGHTS 391kg (862lbs)
IMPELLER DIA. 314,32mm (12.3/8")
R.P.M. FROM 650rpm TO 1550rpm
MAX. SOLIDS 76,2mm (3")

SELF-PRIMING

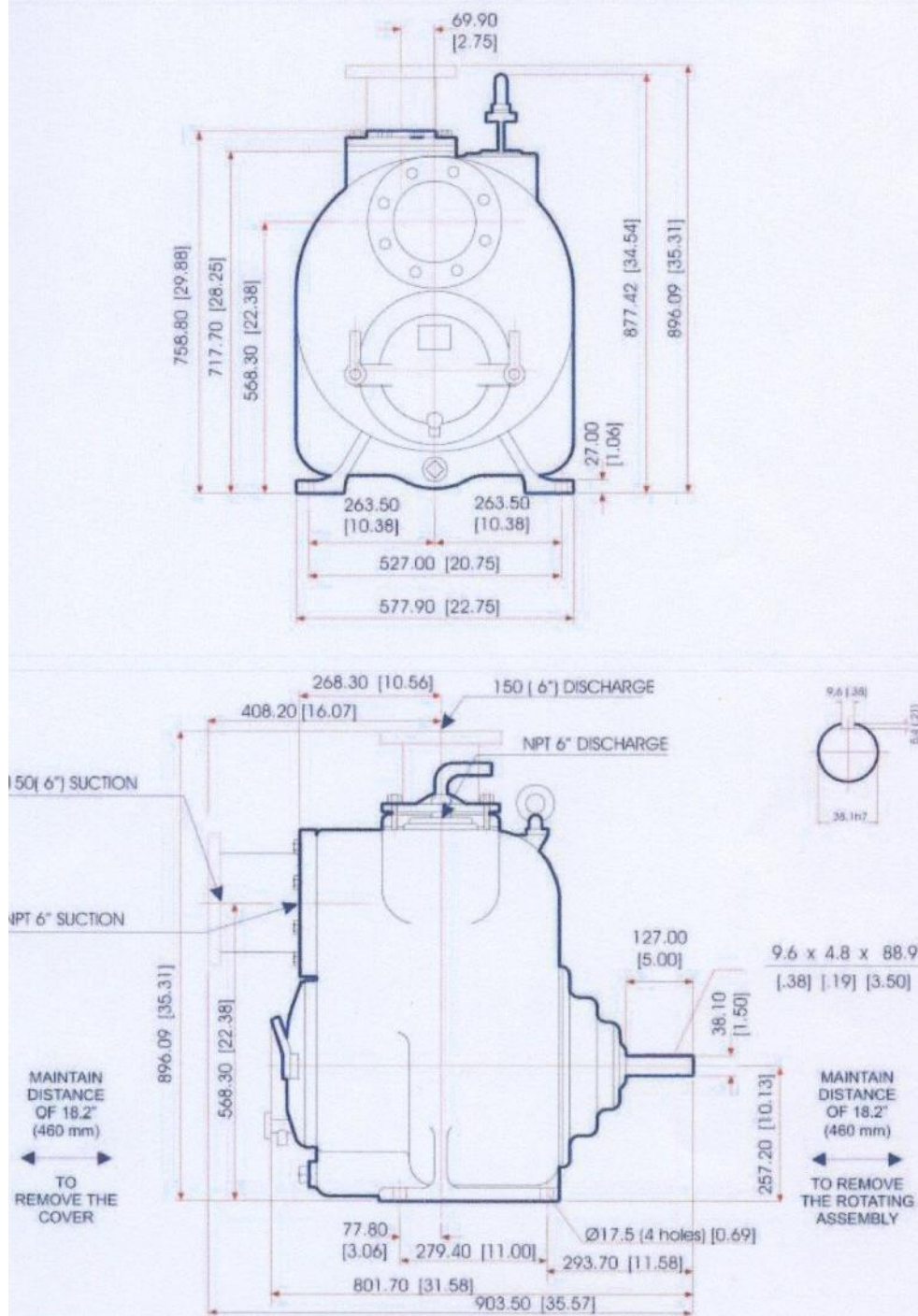
650 RPM 2,4m (8ft) • 750 RPM 2,7m (9ft)
 850 RPM 3,6m (12ft) • 950 RPM 4,2m (14ft)
 1050 RPM 5,5m (18ft) • 1150 RPM 6,4m (21ft)
 1250 RPM 6,4m (21ft) • 1350 RPM 6,7m (22ft)
 1450 RPM 7,0m (23ft) • 1550 RPM 7,6m (25ft)

BEFORE USING THIS TABLE, CHECK THE NPSH.

PERFORMANCE CURVE 6"x6"



EXTERNAL DIMENSIONS
MILLIMETERS (INCHES)



SERIES LP

MODEL LP-8



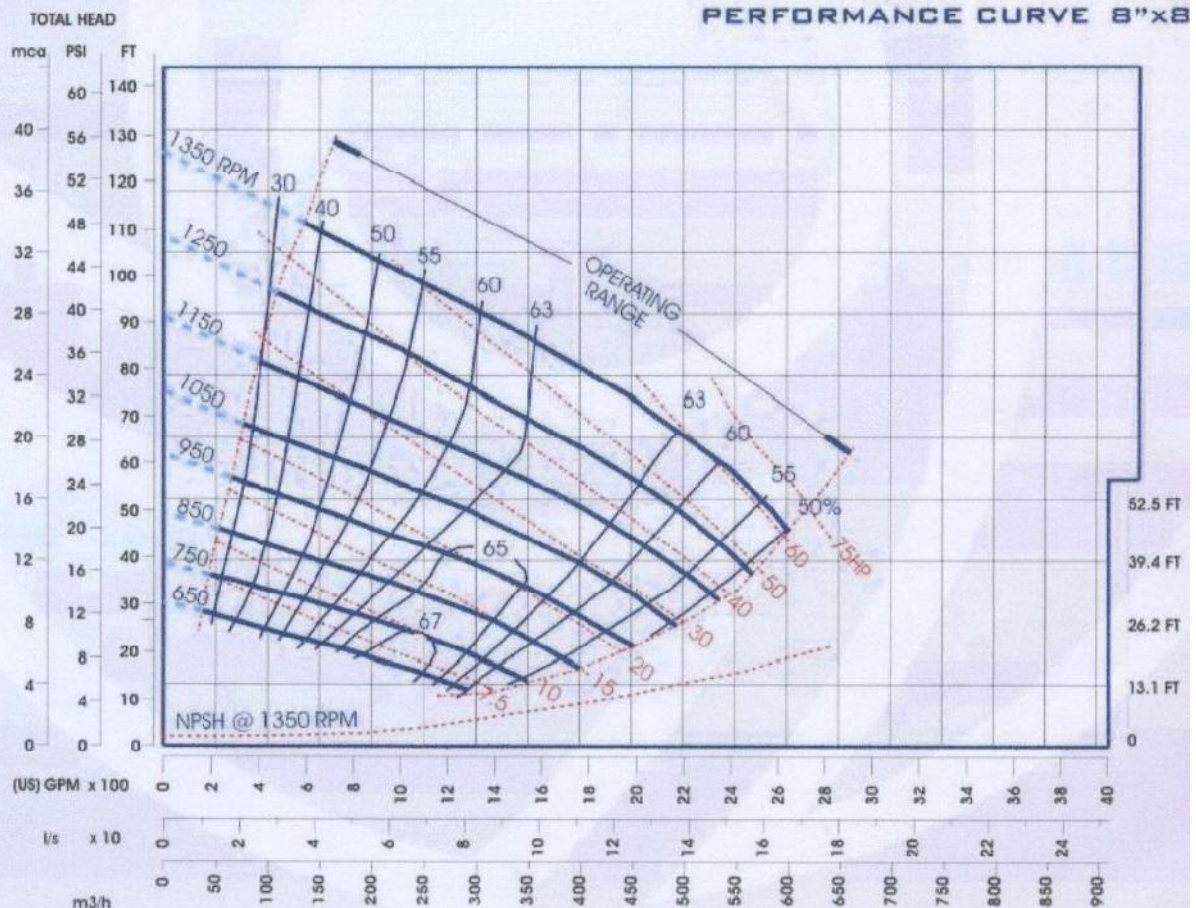
DATA SHEET

NET WEIGHT 581 kg (1295 lbs)
SHIPPING WEIGHTS 634 kg (1399 lbs)
IMPELLER DIA. 374.65 mm (14.3/4")
R.P.M. FROM 650 rpm TO 1350 rpm
MAX. SOLIDS 76,2 mm (3")

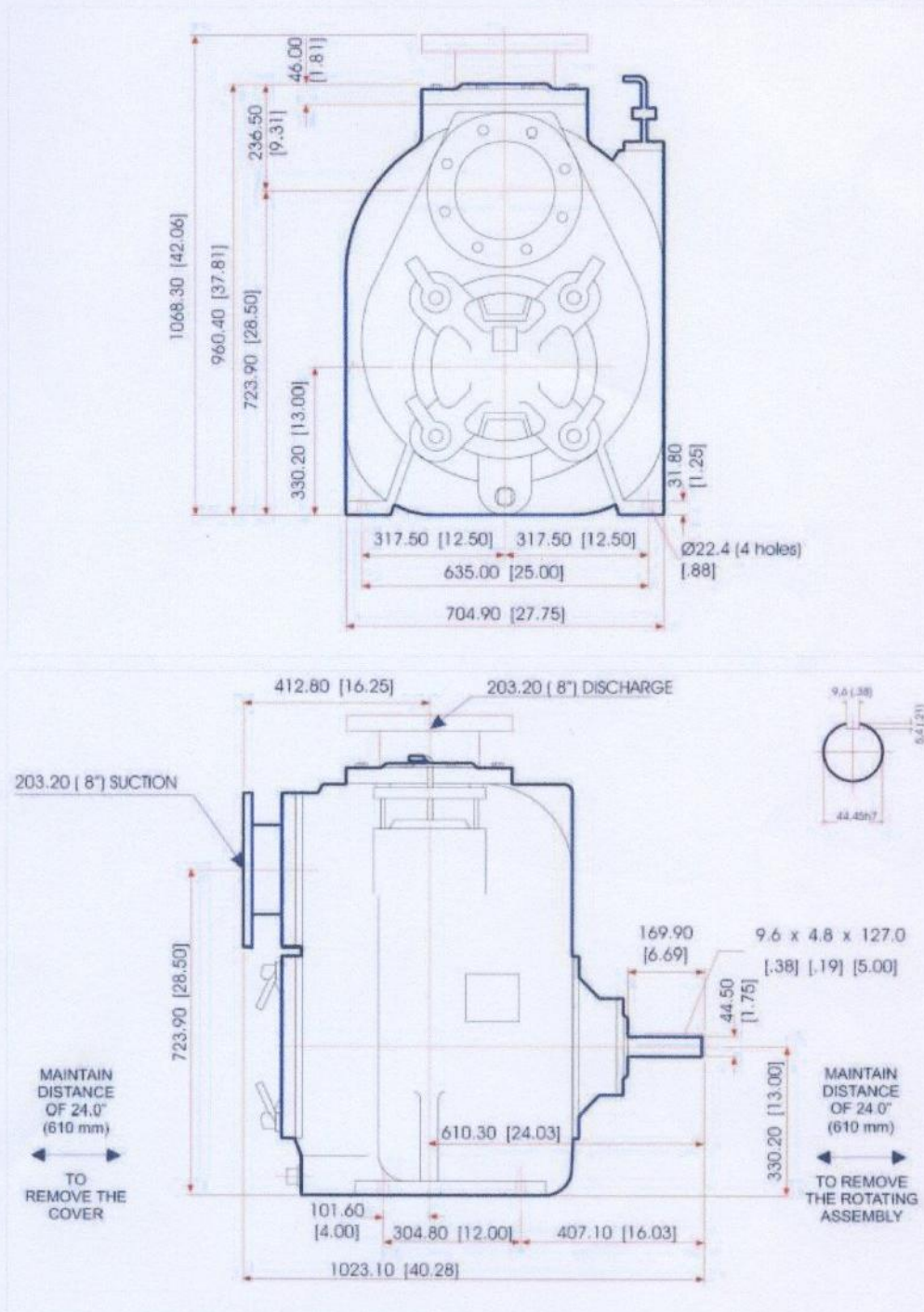
SELF-PRIMING

650 RPM 2,7m (9ft) - 750 RPM 3,7m (12ft)
 850 RPM 4,6m (15ft) - 950 RPM 5,2m (17ft)
 1050 RPM 6,1m (20ft) - 1150 RPM 6,4m (21ft)
 1250 RPM 6,7m (22ft) - 1350 RPM 7,0m (23ft)

BEFORE USING THIS TABLE, CHECK THE NPSH.



EXTERNAL DIMENSIONS
MILLIMETERS (INCHES)



SERIES LP

MODEL LP-10



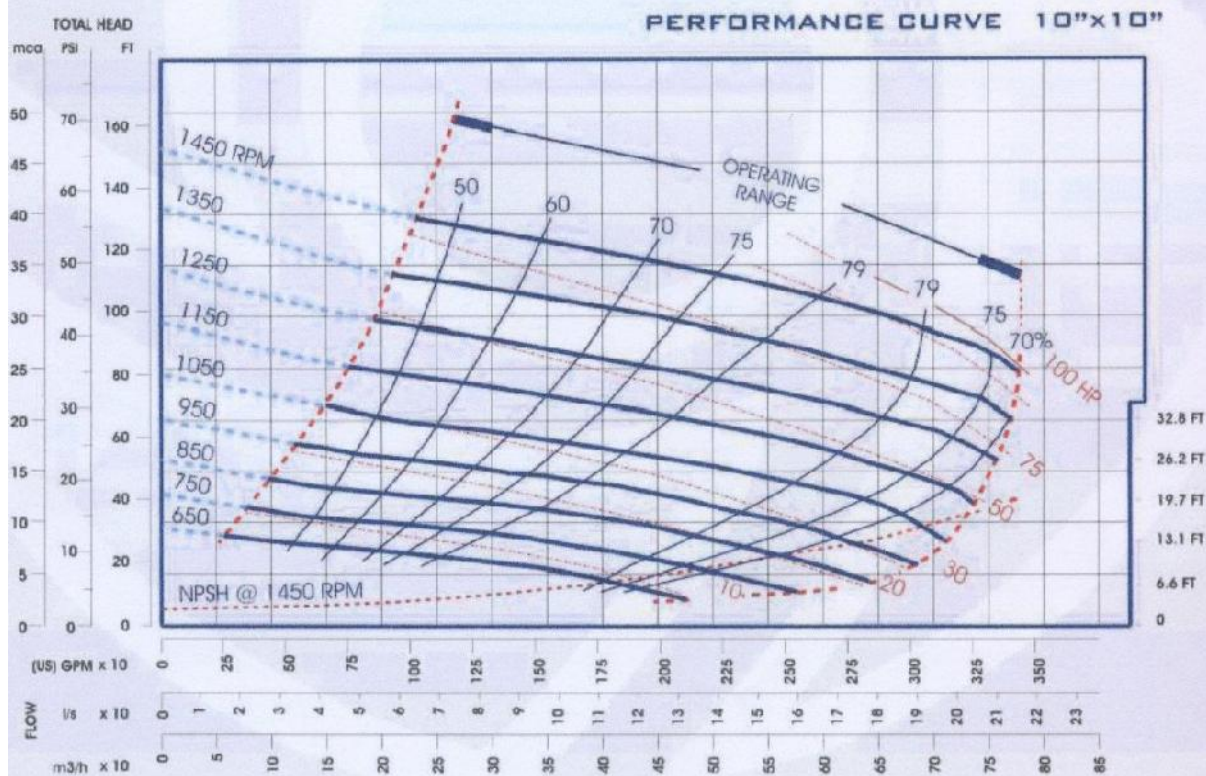
DATA SHEET

NET WEIGHT **635kg (1400lbs)**
 SHIPPING WEIGHTS **663kg (1461lbs)**
 IMPELLER DIA. **374,65mm (14.3/4")**
 R.P.M. **FROM 650rpm TO 1450rpm**
 MAX. SOLIDS **76,2mm (3")**

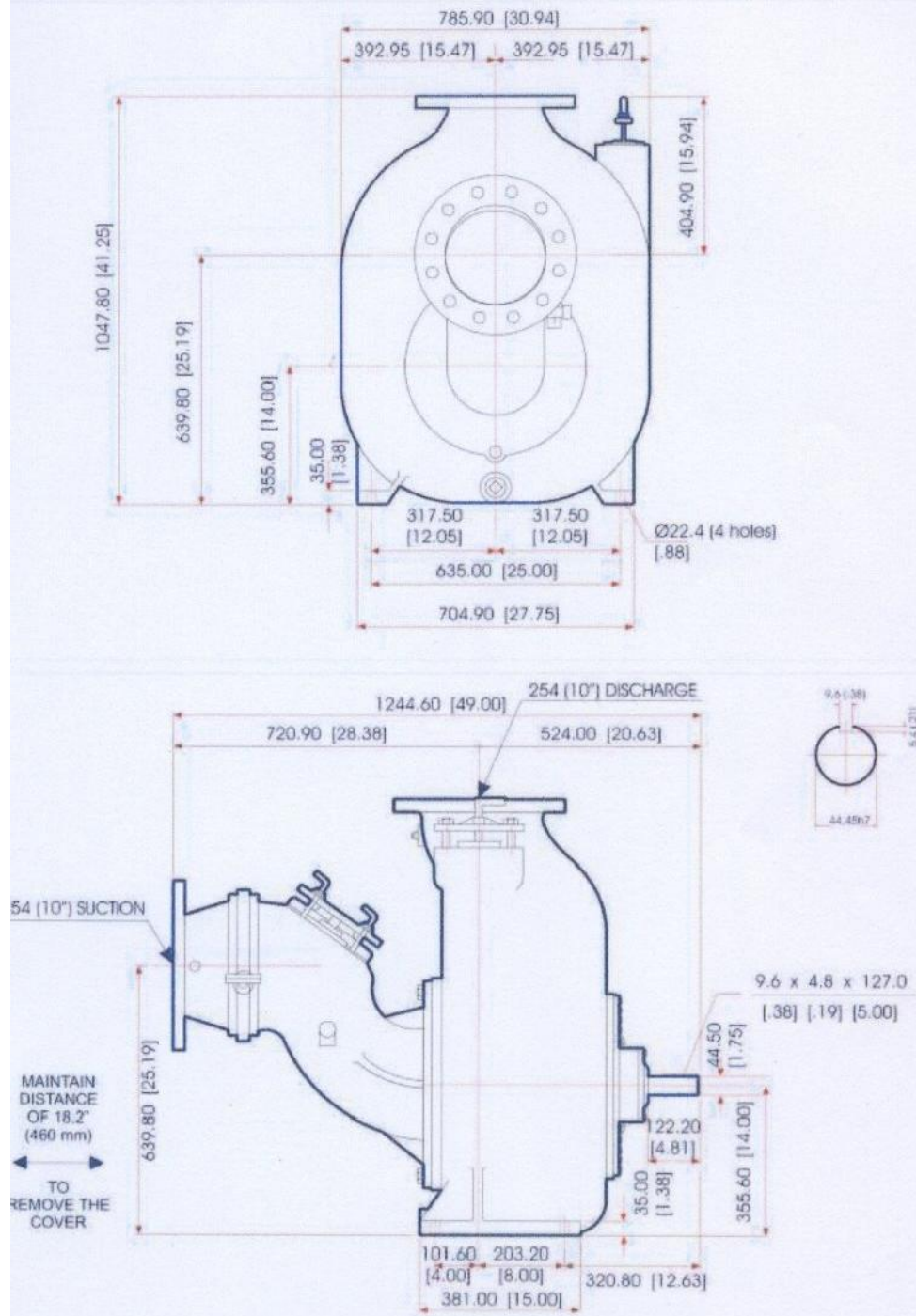
SELF-PRIMING

650 RPM 2,1m (7ft) - 750 RPM 3,4m (11ft)
 850 RPM 4,3m (14ft) - 950 RPM 5,2m (17ft)
 1050 RPM 5,5m (18ft) - 1150 RPM 5,5m (18ft)
 1250 RPM 5,8m (19ft) - 1350 RPM 6,7m (22ft)
 1450 RPM 6,7m (22ft)

BEFORE USING THIS TABLE, CHECK THE NPSH.



EXTERNAL DIMENSIONS
MILLIMETERS (INCHES)



SERIES LP

MODEL LP-12



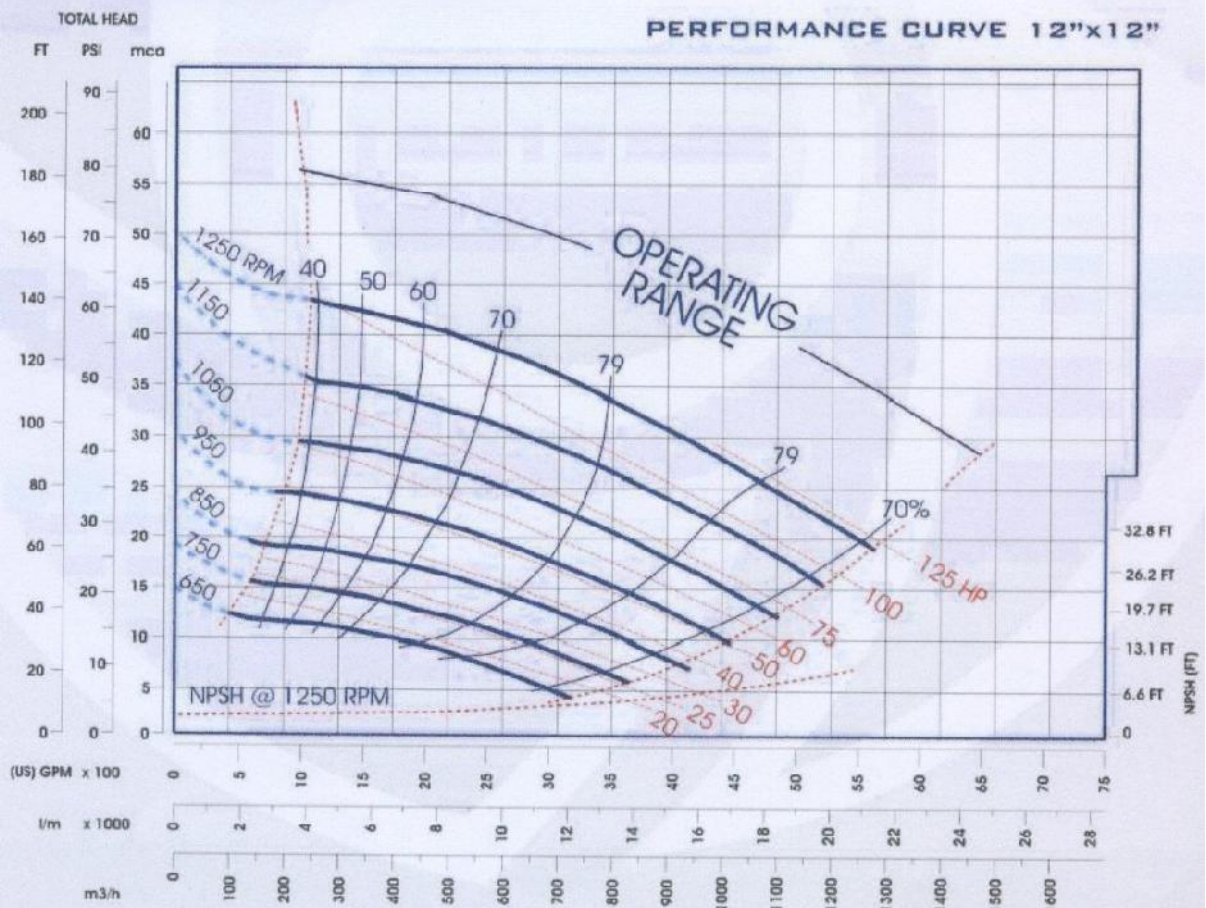
DATA SHEET

NET WEIGHT **998kg (2200lbs)**
 SHIPPING WEIGHTS **1066kg (2350lbs)**
 IMPELLER DIA. **457,2mm (18")**
 R.P.M. **FROM 650rpm TO 1250rpm**
 MAX. SOLIDS **76,2mm (3")**

SELF-PRIMING

650 RPM 1,6m (5ft) - 750 RPM 2,7m (9ft)
 850 RPM 3,9m (13ft) - 950 RPM 4,5m (15ft)
 1050 RPM 4,9m (16ft) - 1150 RPM 4,9m (16ft)
 1250 RPM 4,9m (16ft)

BEFORE USING THIS TABLE, CHECK THE NPSH.



EXTERNAL DIMENSIONS
MILLIMETERS (INCHES)

