R.B. MOSHER CO.

SELF PRIMING TRASH PUMPS

MOSHER FLO

T and U Series

Address: 5902 FM 517 E
San Leon, TX 77539
PO Box: Drawer A
Dickinson, TX 77539

Office: (281)339-3382
Cell: (281)740-0959
Fax: (281)559-1152
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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 ST AND SU 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.

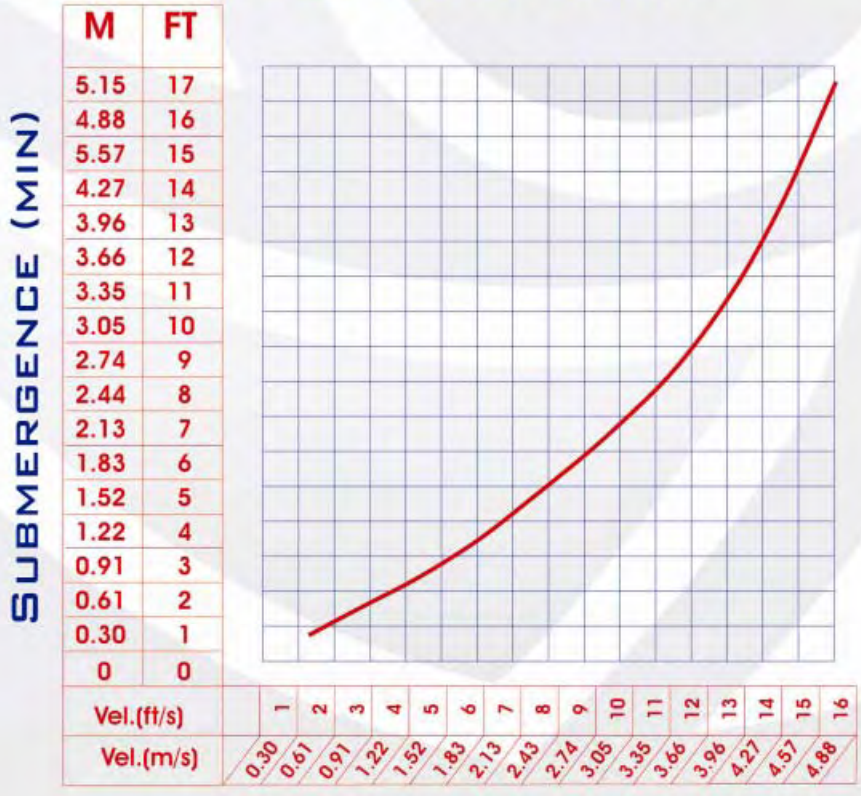
CONSTRUCTION MATERIALS

	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 SWEPT 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 ST MODEL ST-2

DATA SHEET

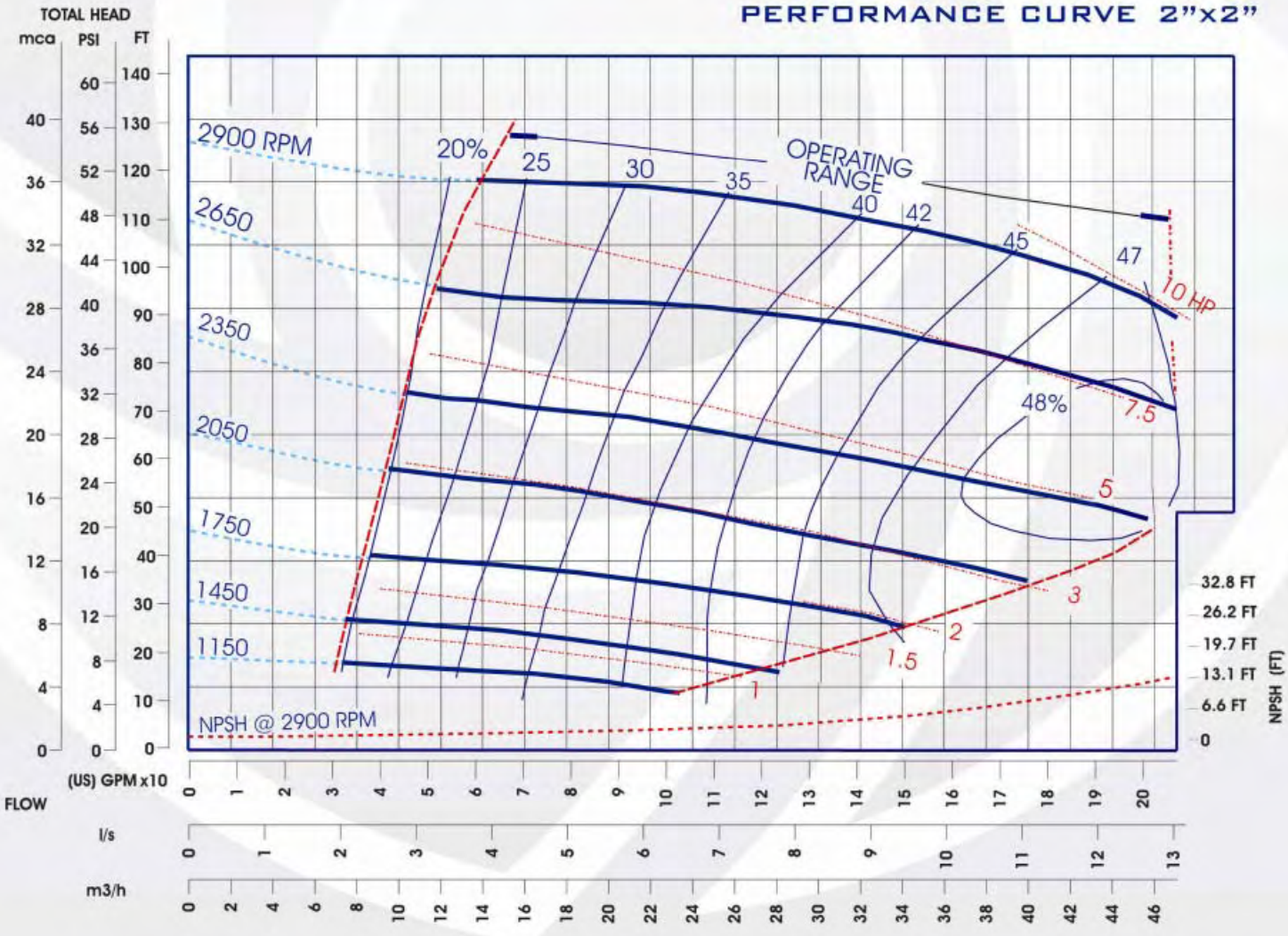
NET WEIGHT 92kg (203lbs)
SHIPPING WEIGHTS 114kg (252lbs)
IMPELLER DIA. 158,75mm (6.1/4")
R.P.M. FROM 1150rpm TO 2900rpm
MAX. SOLIDS 44,45mm (1.3/4")

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)

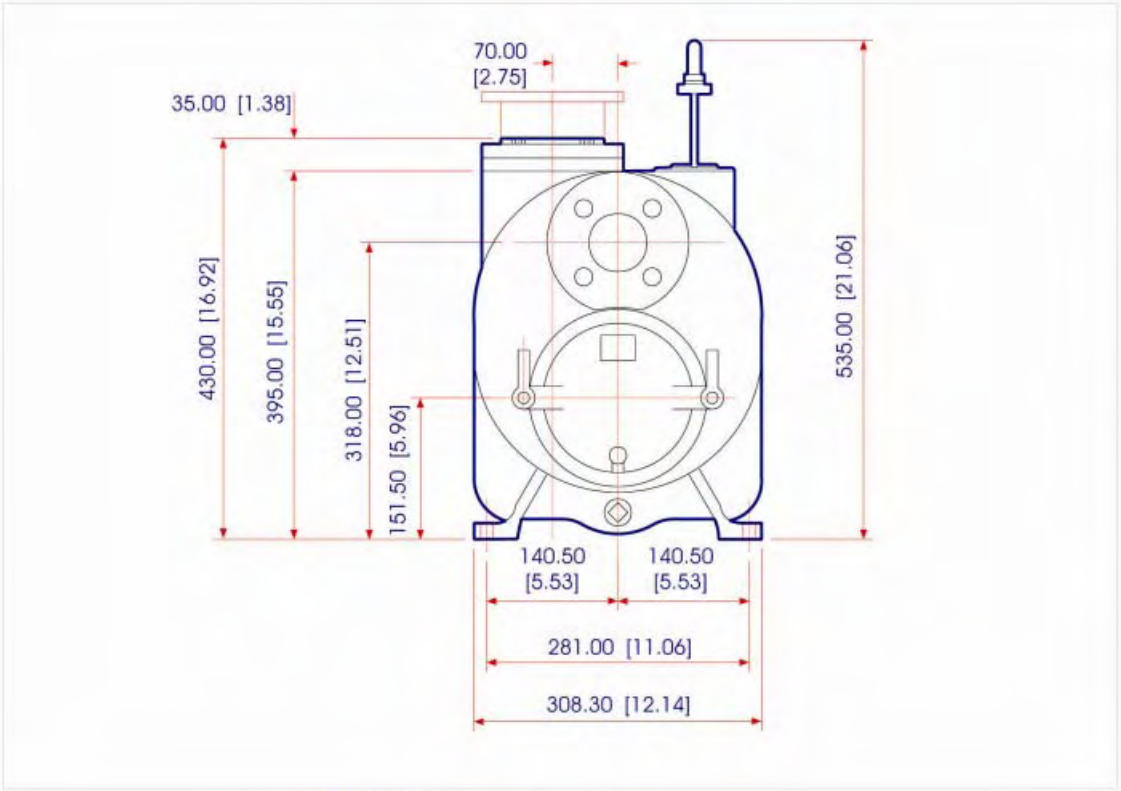
BEFORE USING THIS TABLE, CHECK THE NPSH.

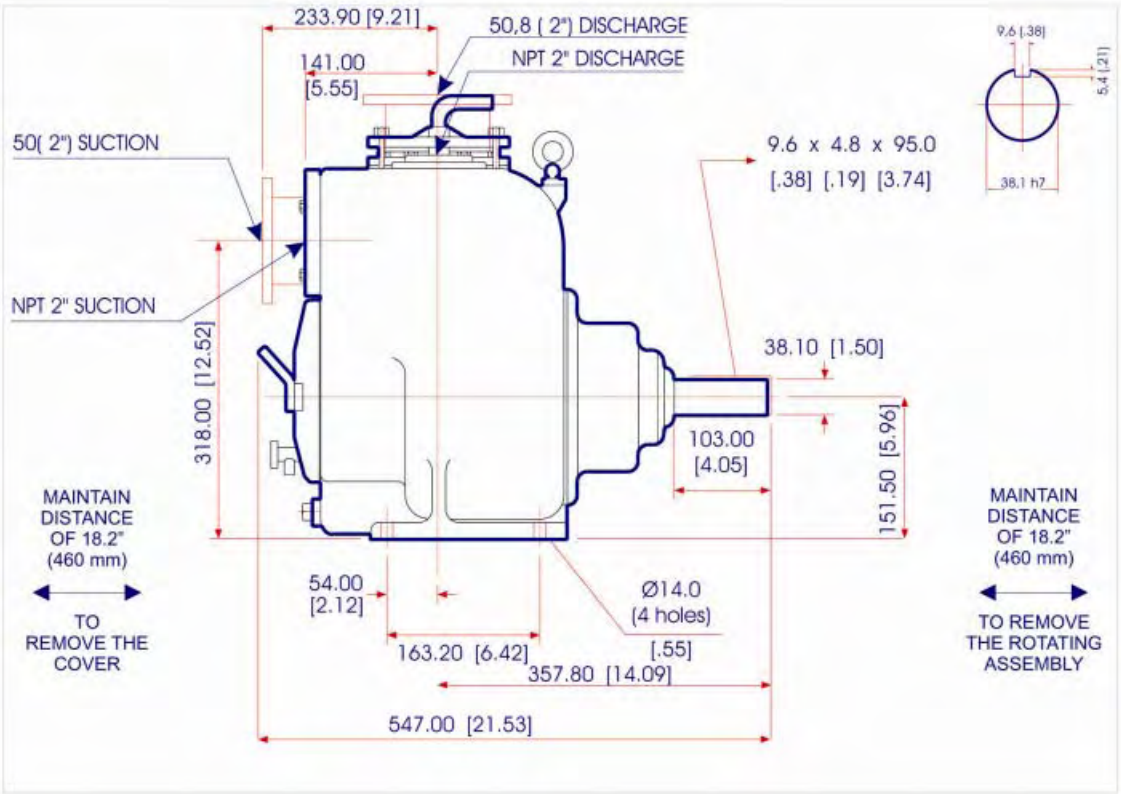
PERFORMANCE CURVE 2"x2"



EXTERNAL DIMENSIONS

MILLIMETERS (INCHES)





SERIES ST MODEL ST-3

DATA SHEET

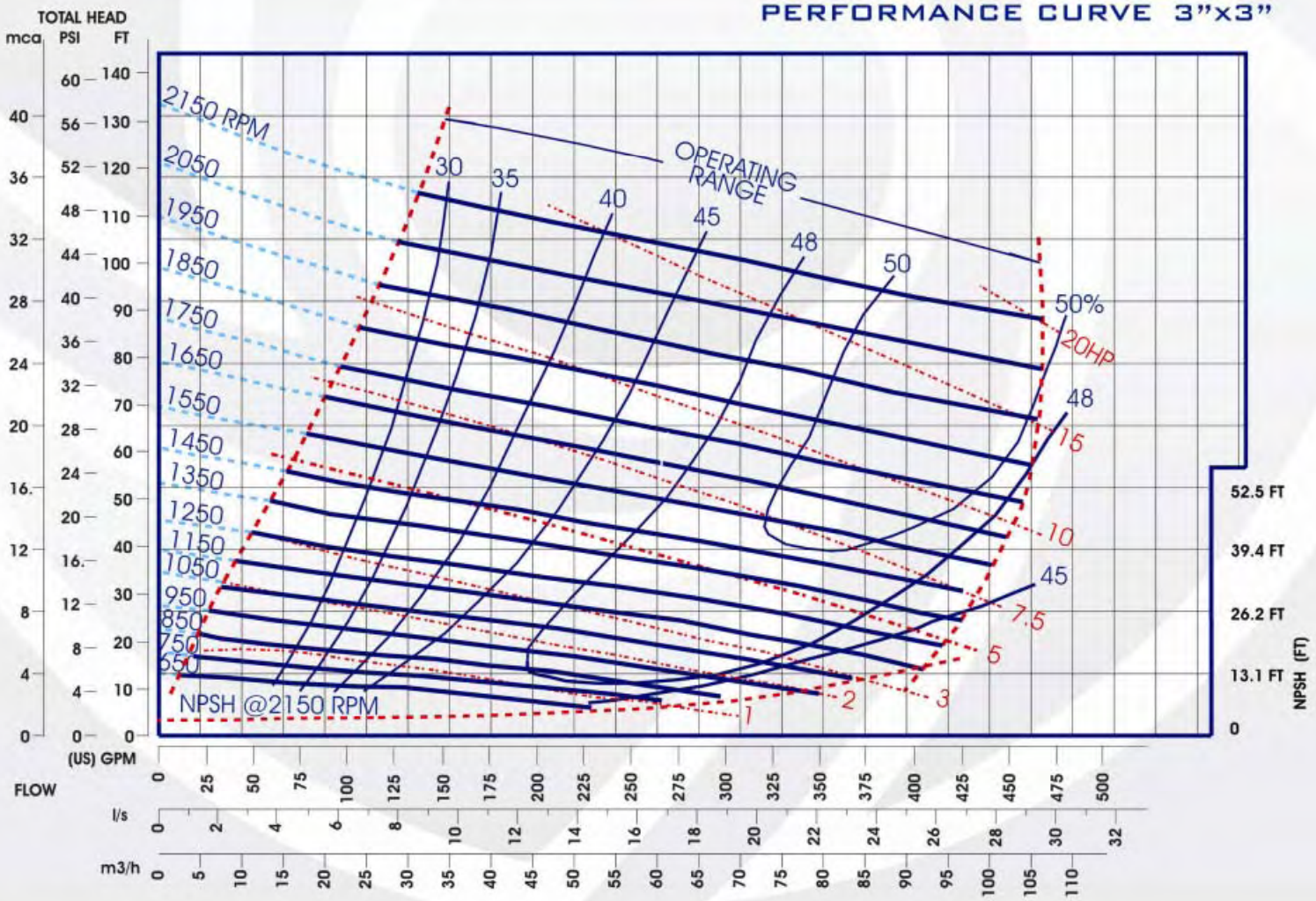
NET WEIGHT 183kg (404lbs)
SHIPPING WEIGHTS 205kg (452lbs)
IMPELLER DIA. 222,25mm (8.3/4")
R.P.M. FROM 650rpm TO 2150rpm
MAX. SOLIDS 63,5mm (2.1/2")

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)

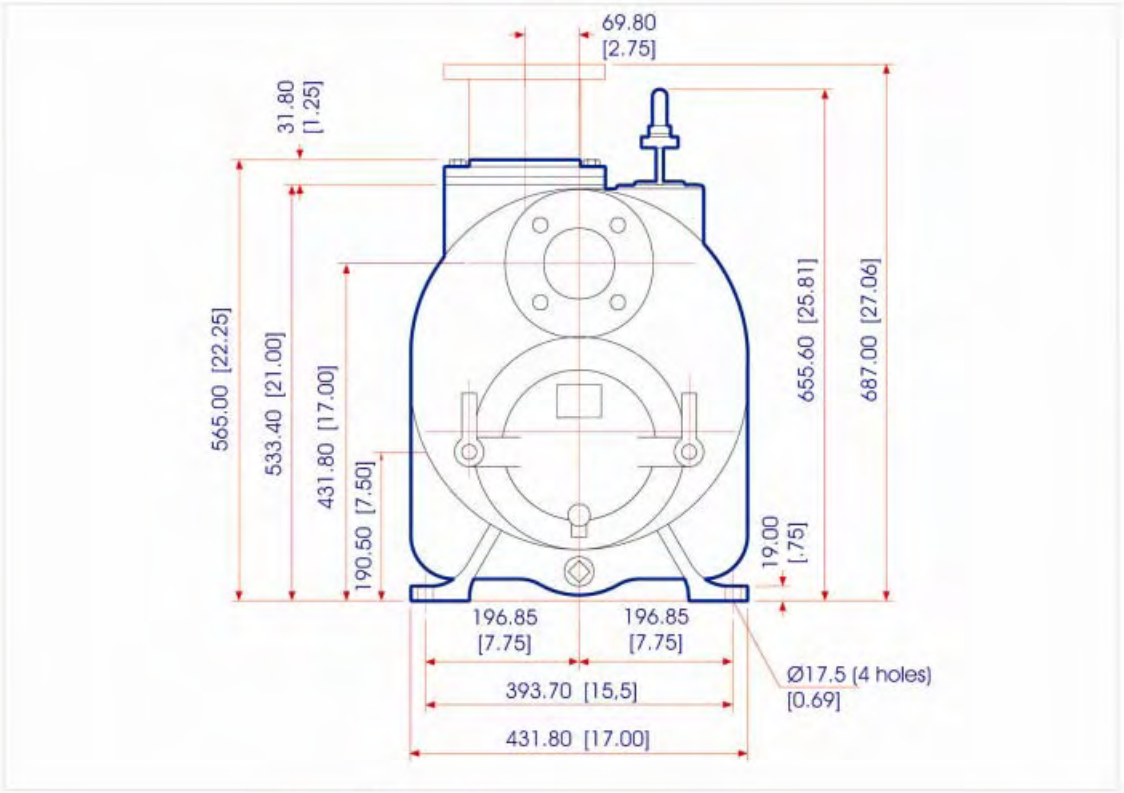
BEFORE USING THIS TABLE, CHECK THE NPSH.

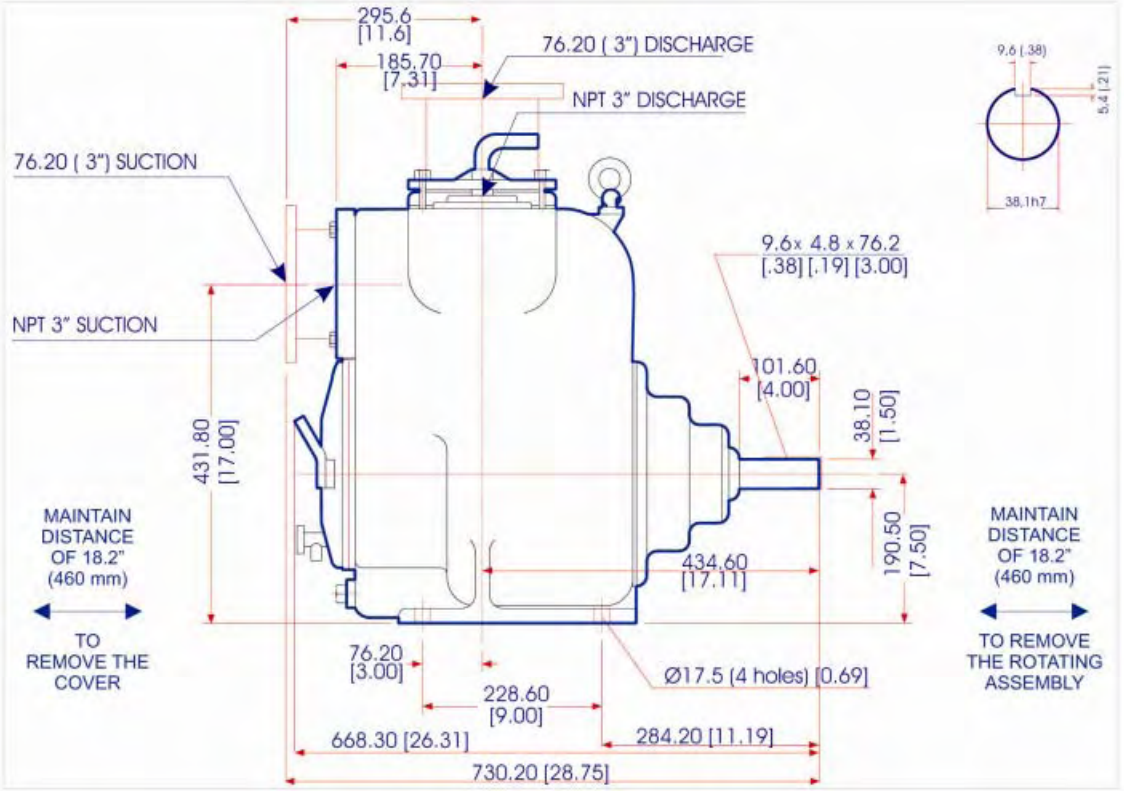
PERFORMANCE CURVE 3"x3"



EXTERNAL DIMENSIONS

MILLIMETERS (INCHES)





SERIES ST MODEL ST-4

DATA SHEET

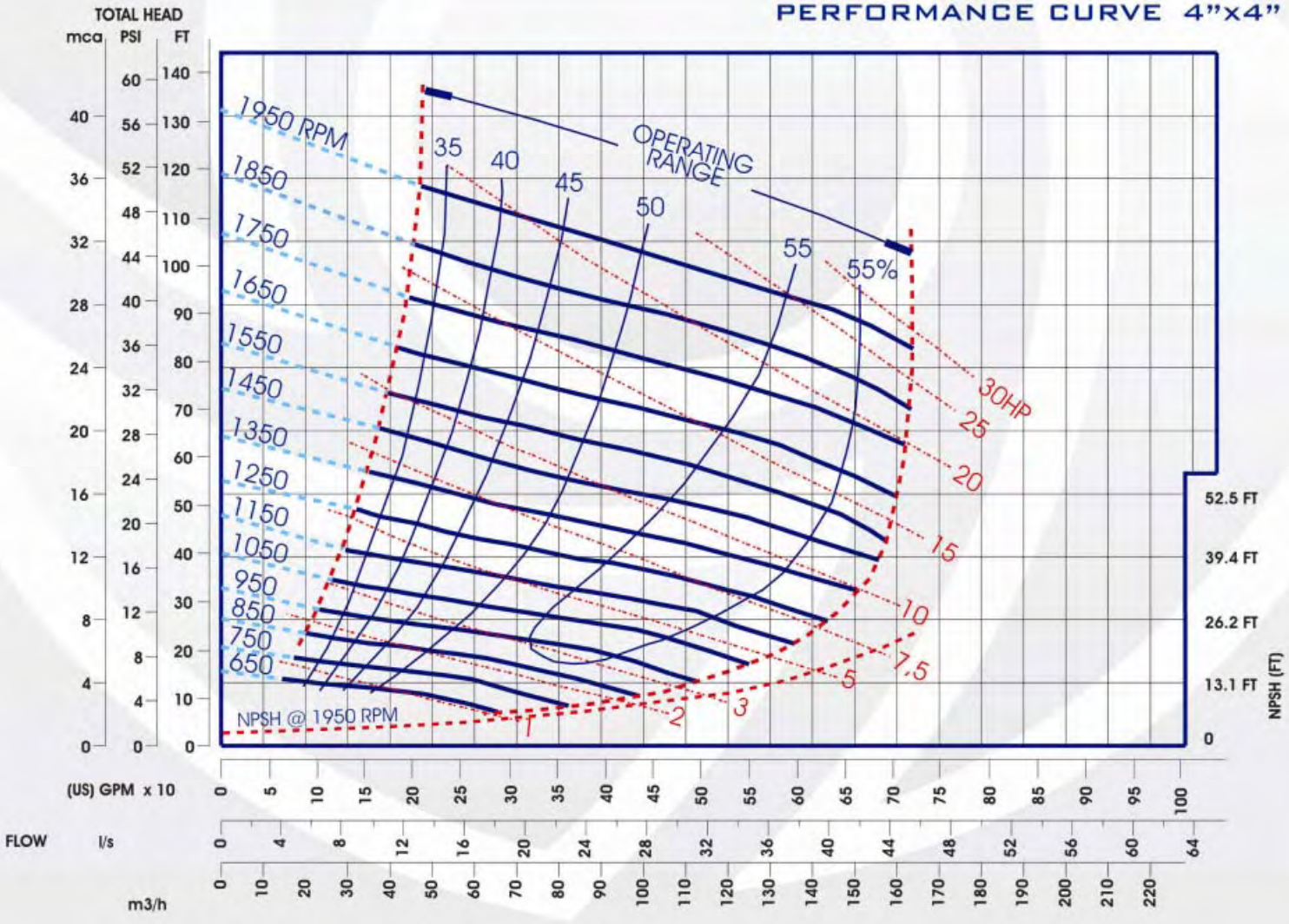
NET WEIGHT 259,5kg (600lbs)
SHIPPING WEIGHTS 280kg (655lbs)
IMPELLER DIA. 247,65mm (9.3/4")
R.P.M. FROM 650rpm TO 1950rpm
MAX. SOLIDS 76,2mm (3")

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)

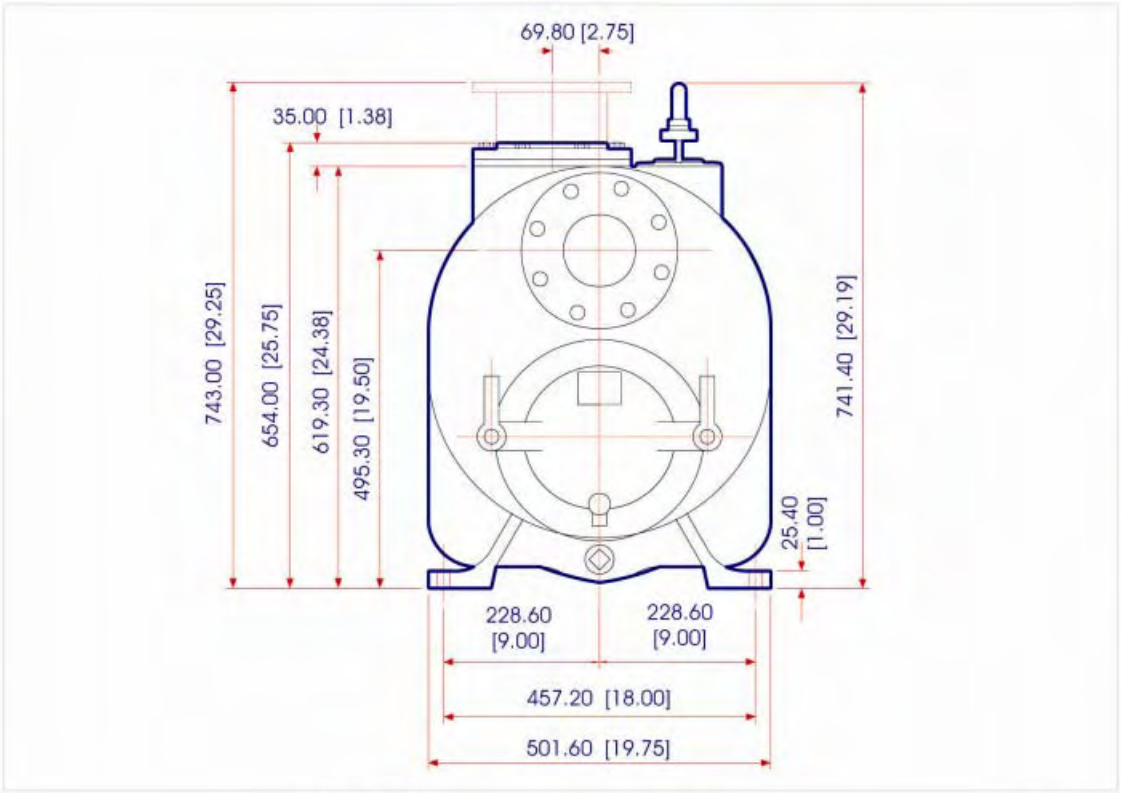
BEFORE USING THIS TABLE, CHECK THE NPSH.

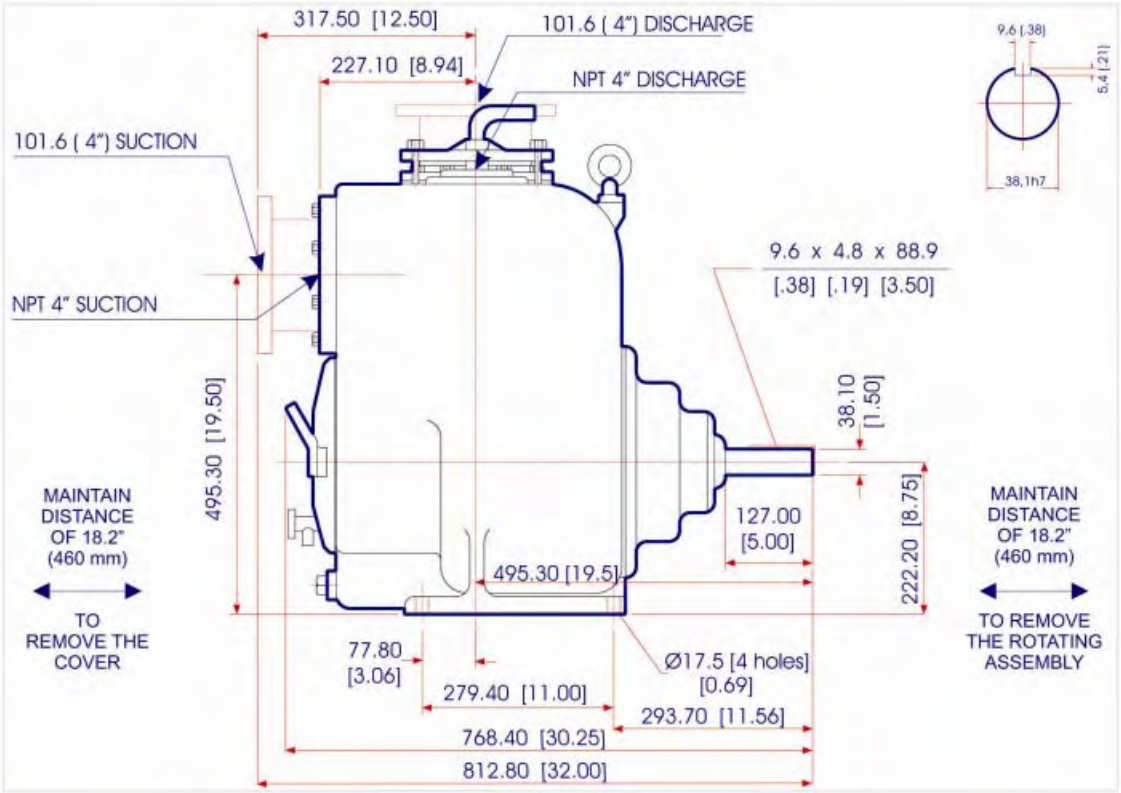
PERFORMANCE CURVE 4"x4"



EXTERNAL DIMENSIONS

MILLIMETERS (INCHES)





SERIES ST MODEL ST-6

DATA SHEET

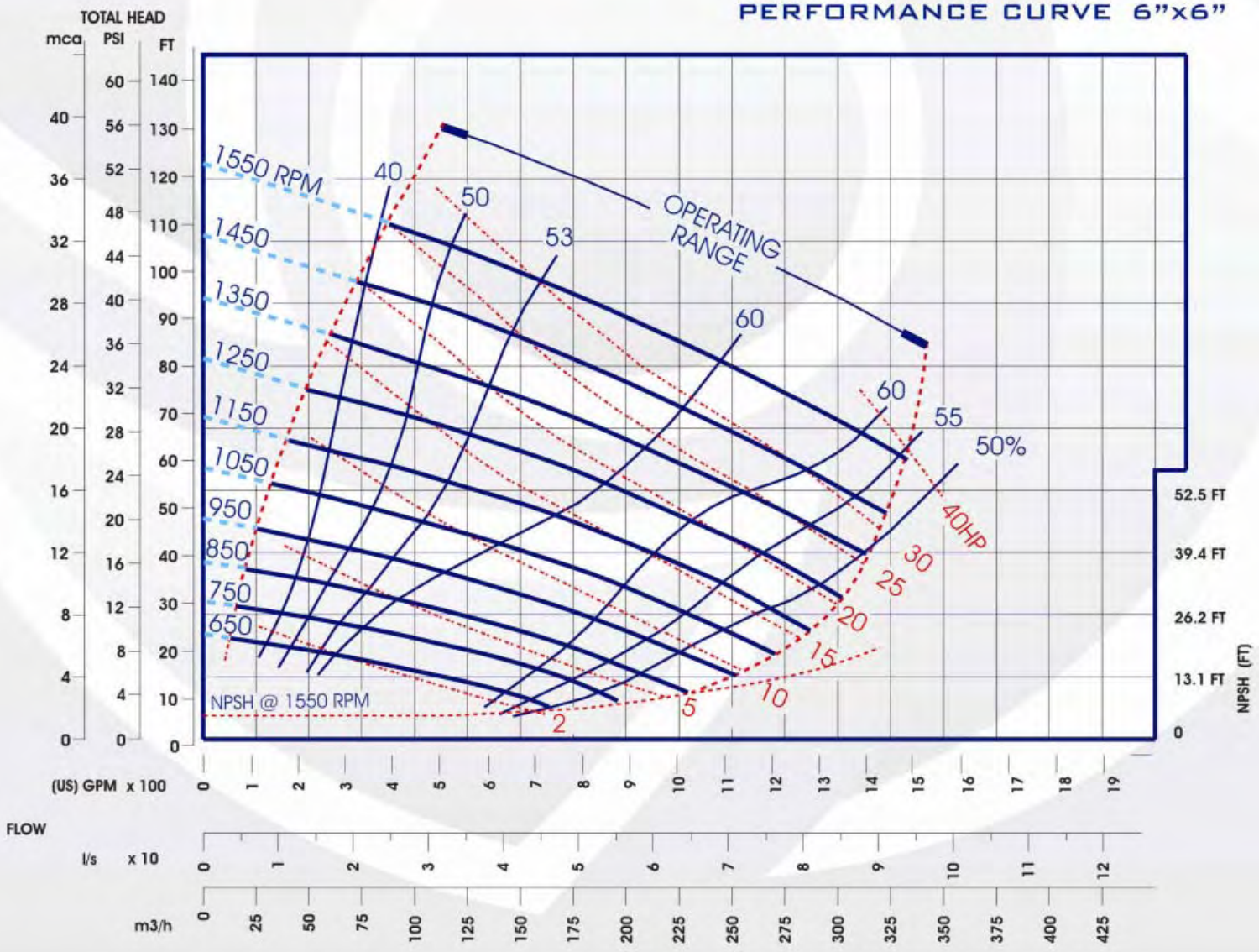
NET WEIGHT 364kg (802lbs)
SHIPPING WEIGHTS 391kg (862lbs)
IMPELLER DIA.314,32mm (12.3/8")
R.P.M. FROM 650rpm TO 1550rpm
MAX. SOLIDS 76,2mm (3")

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)

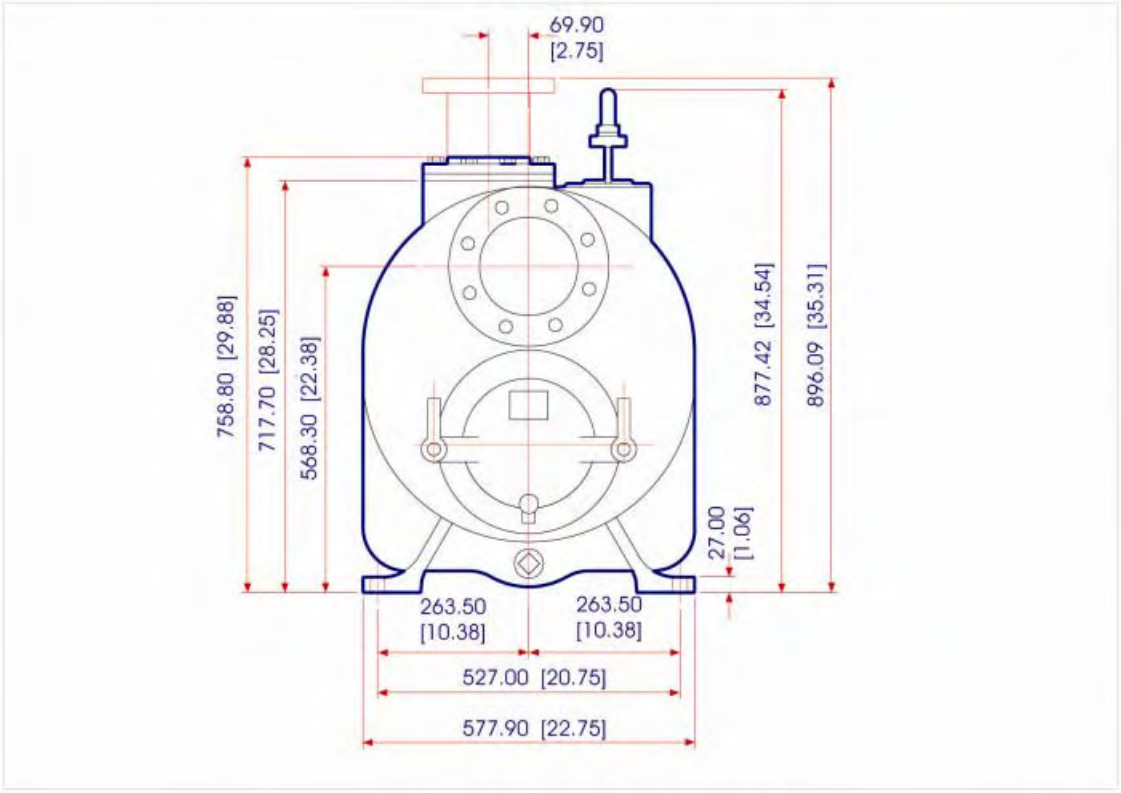
BEFORE USING THIS TABLE, CHECK THE NPSH.

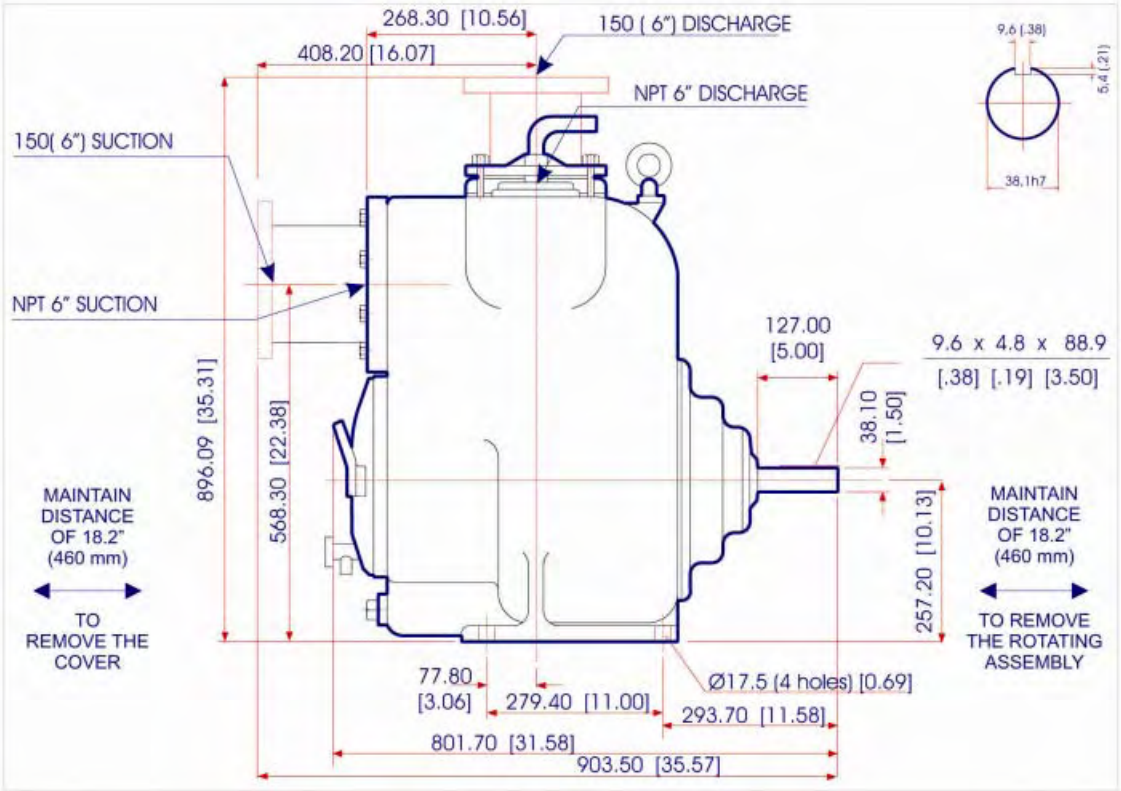
PERFORMANCE CURVE 6"x6"



EXTERNAL DIMENSIONS

MILLIMETERS (INCHES)





DATA SHEET

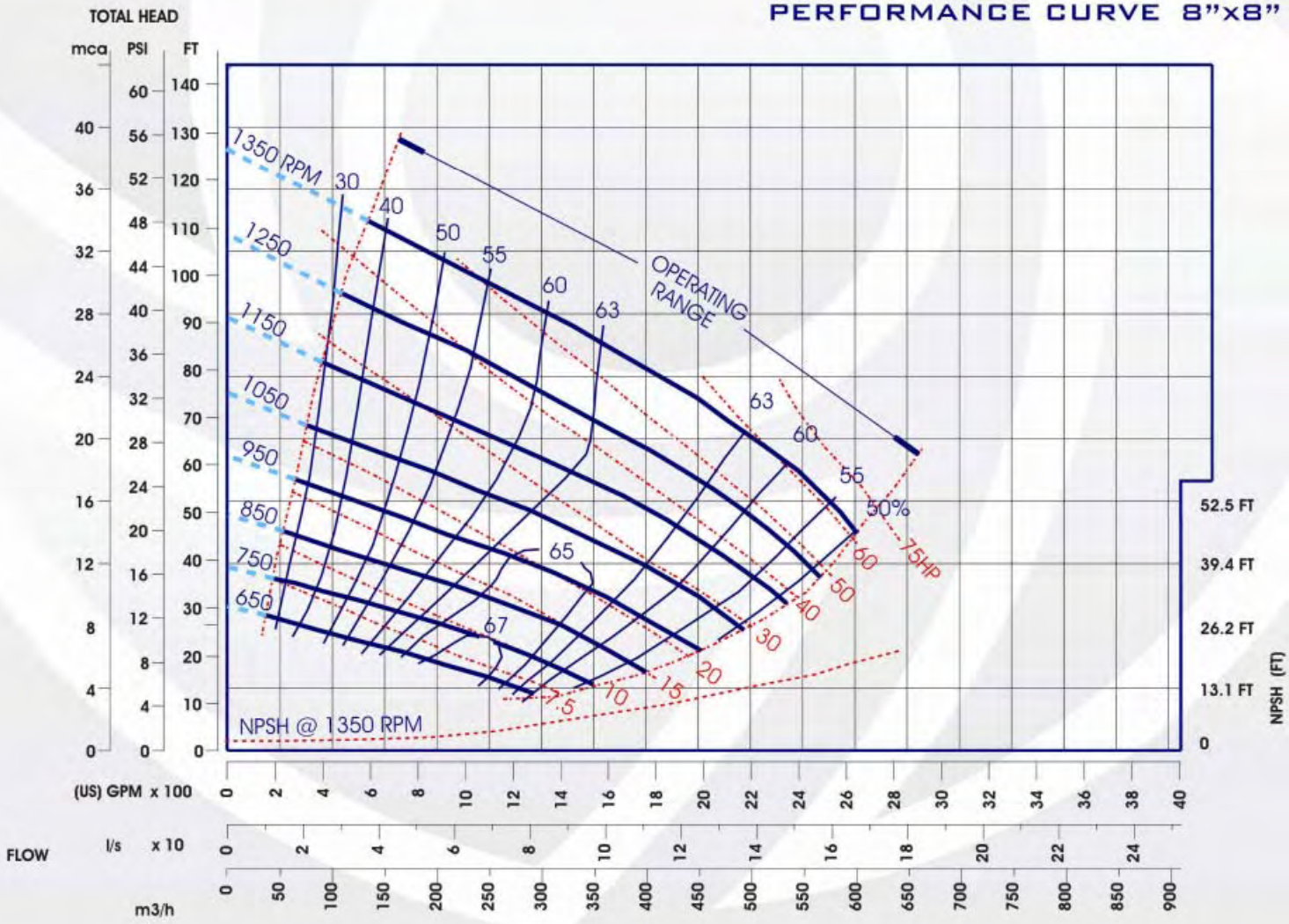
NET WEIGHT 581kg (1295lbs)
SHIPPING WEIGHTS 634kg (1399lbs)
IMPELLER DIA.374.65mm (14.3/4")
R.P.M. FROM 650rpm TO 1350rpm
MAX. SOLIDS 76,2mm (3")

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)

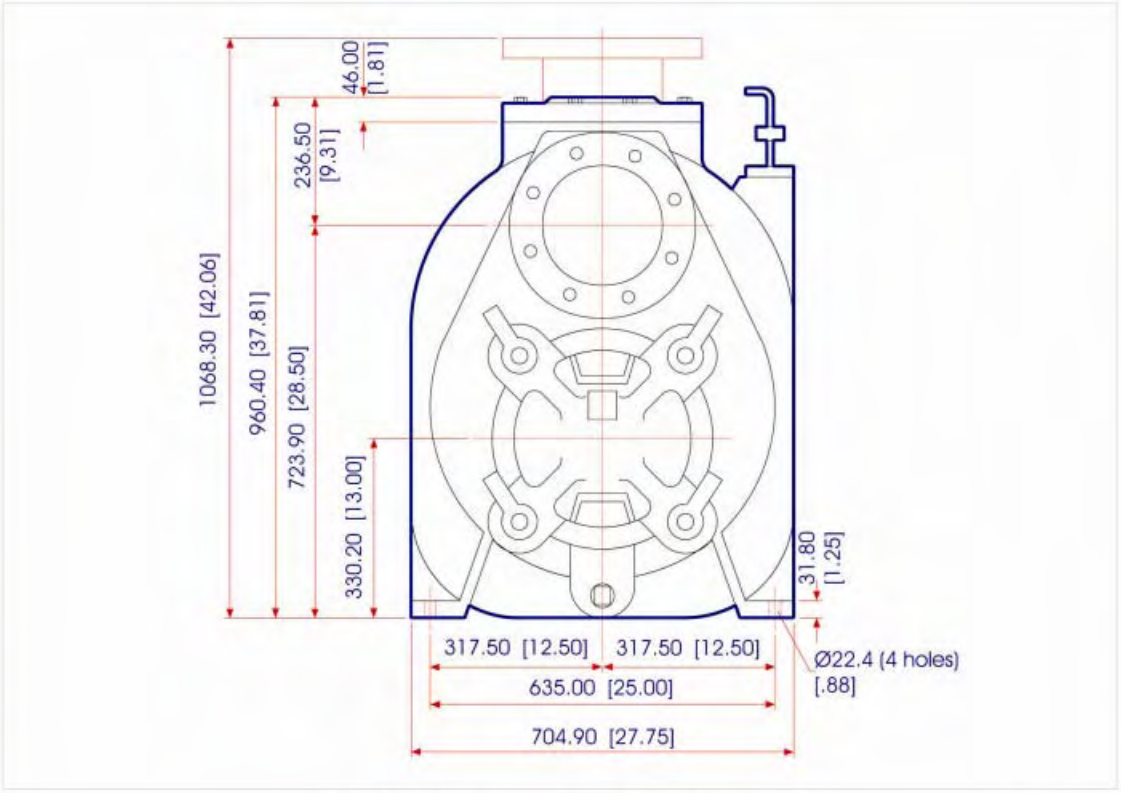
BEFORE USING THIS TABLE, CHECK THE NPSH.

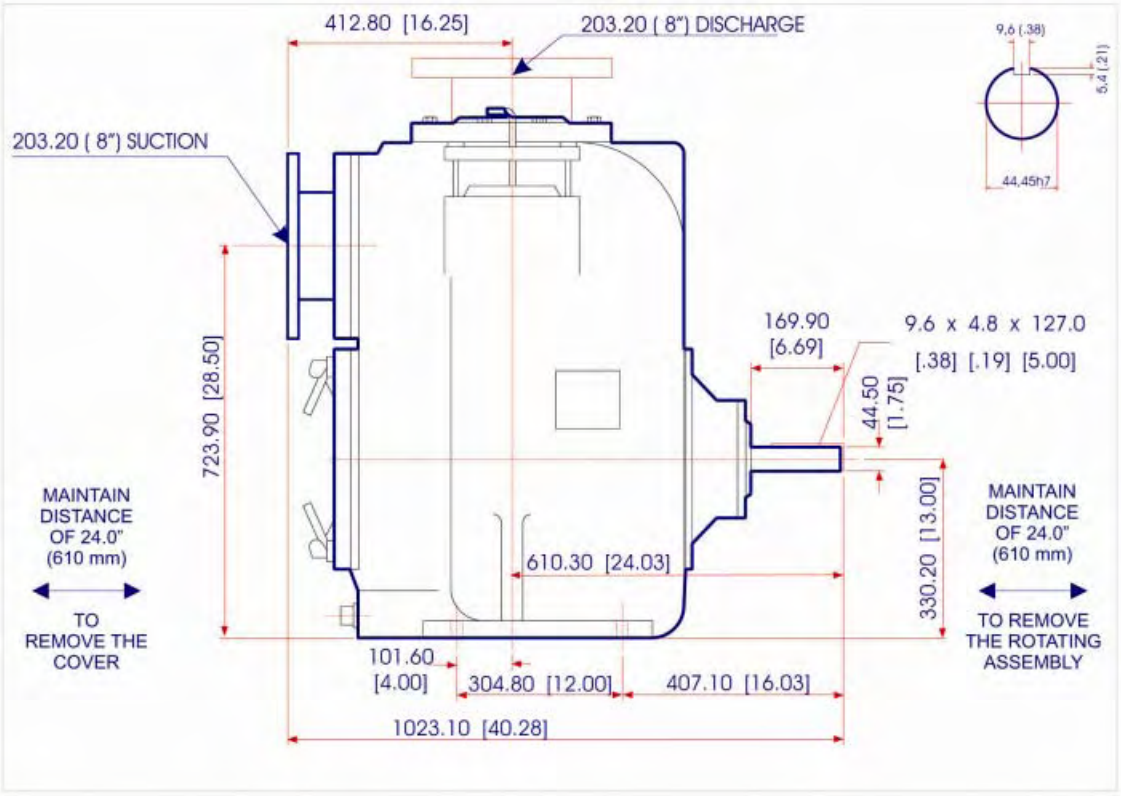
PERFORMANCE CURVE 8"x8"



EXTERNAL DIMENSIONS

MILLIMETERS (INCHES)





DATA SHEET

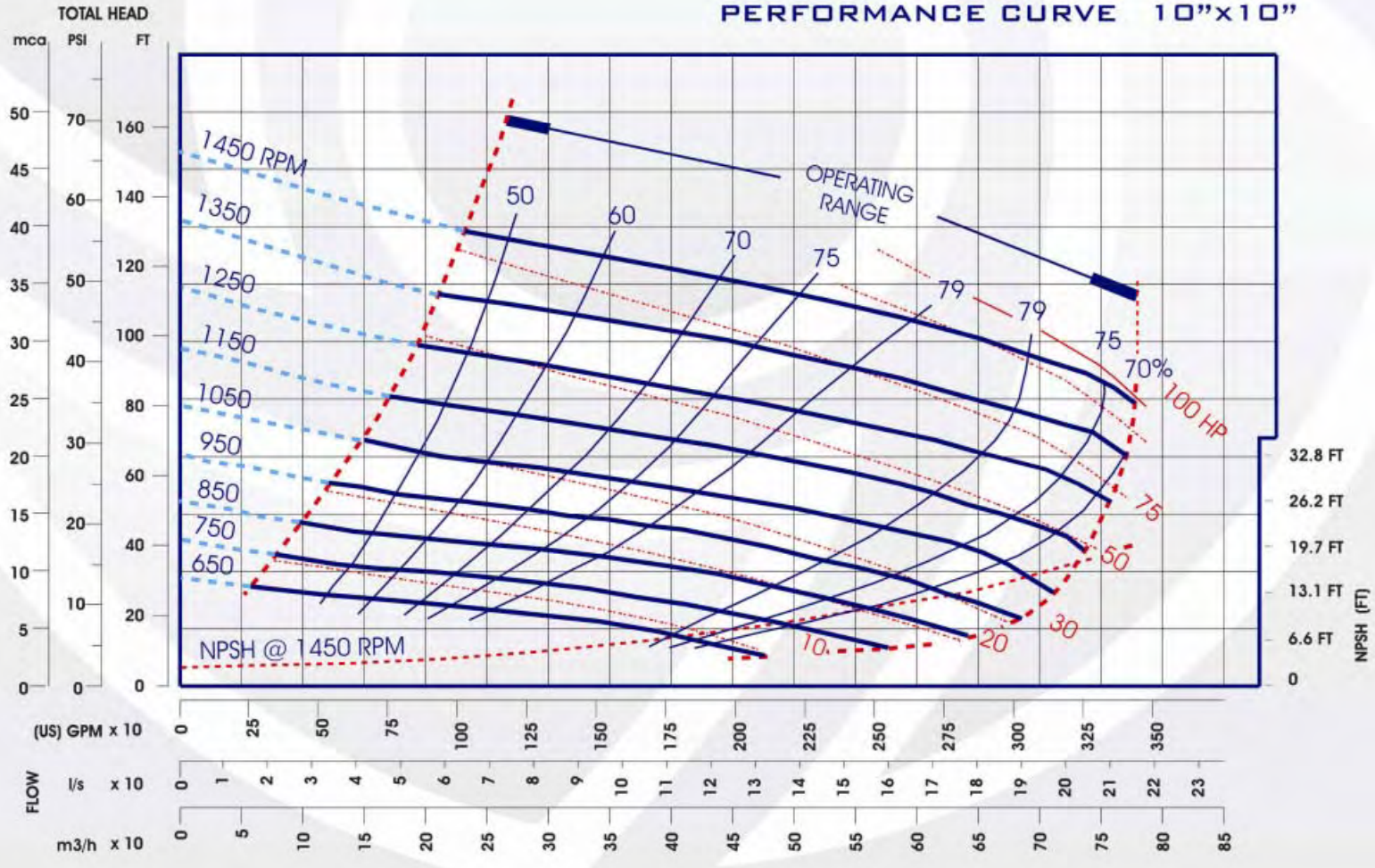
NET WEIGHT 635kg (1400lbs)
SHIPPING WEIGHTS 663kg (1461 lbs)
IMPELLER DIA. 374,65mm (14.3/4")
R.P.M. FROM 650rpm TO 1450rpm
MAX. SOLIDS 76,2mm (3")

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)

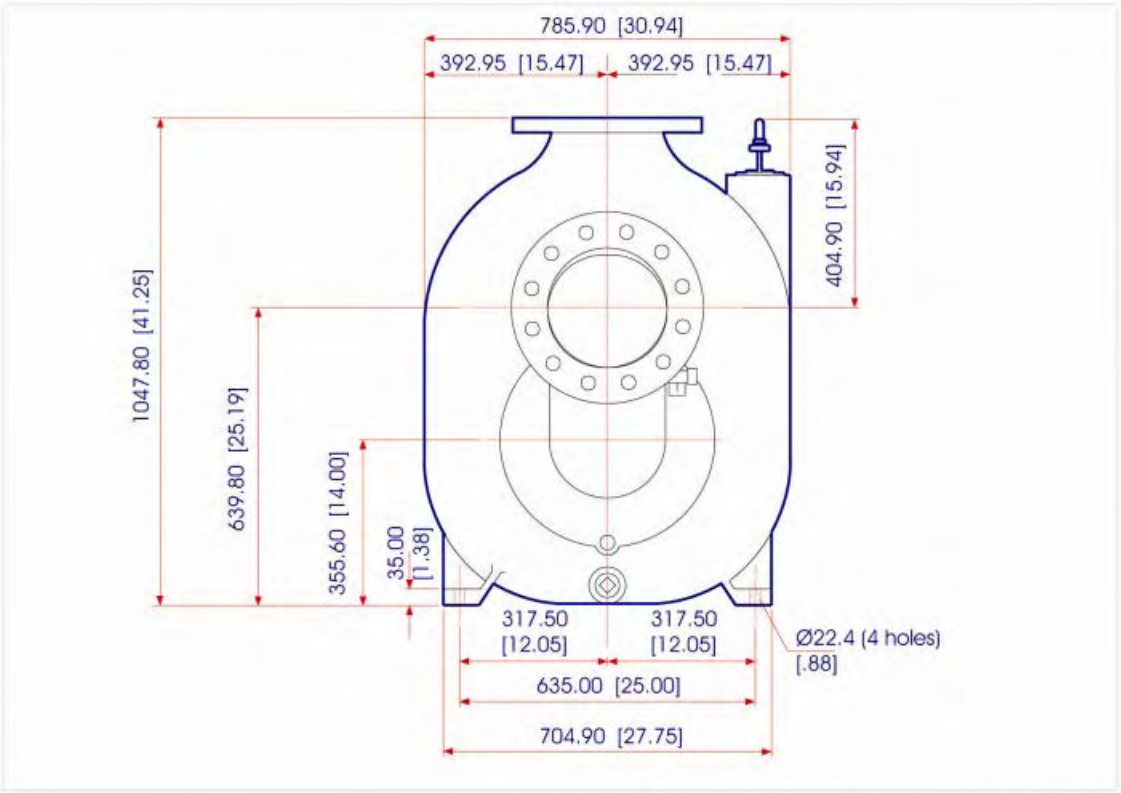
BEFORE USING THIS TABLE, CHECK THE NPSH.

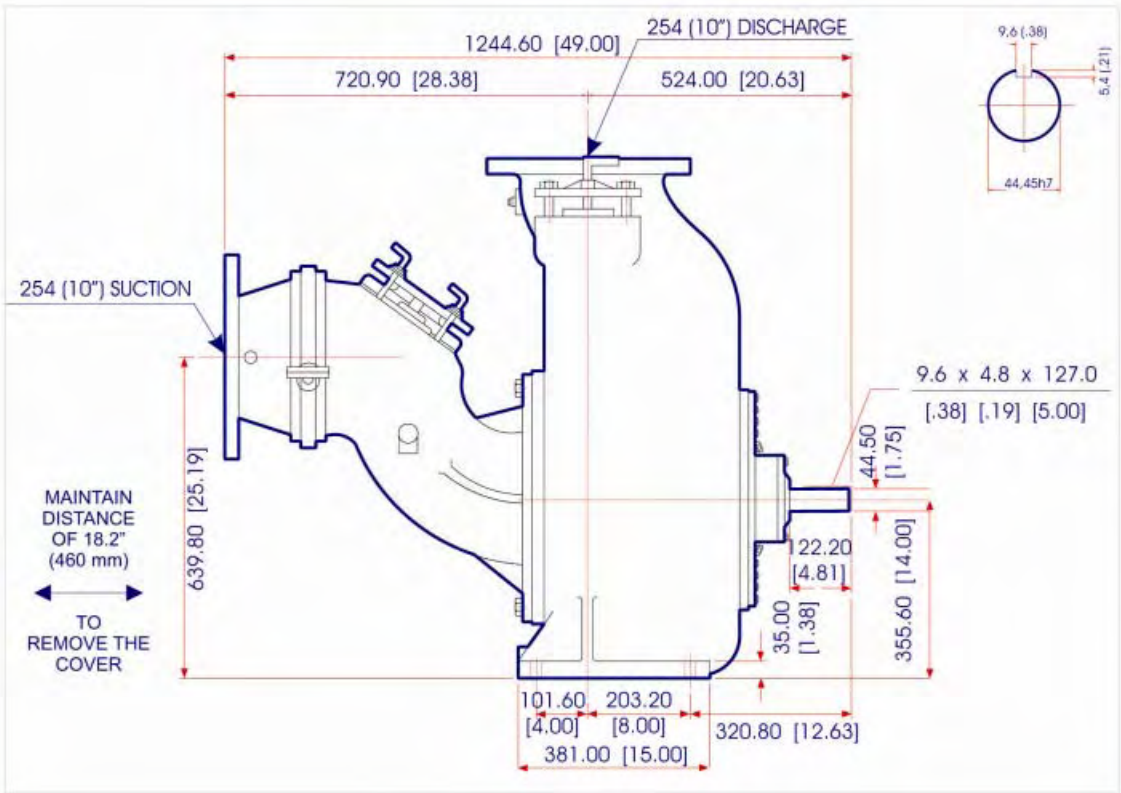
PERFORMANCE CURVE 10"x10"



EXTERNAL DIMENSIONS

MILLIMETERS (INCHES)





SERIES ST MODEL ST-12

DATA SHEET

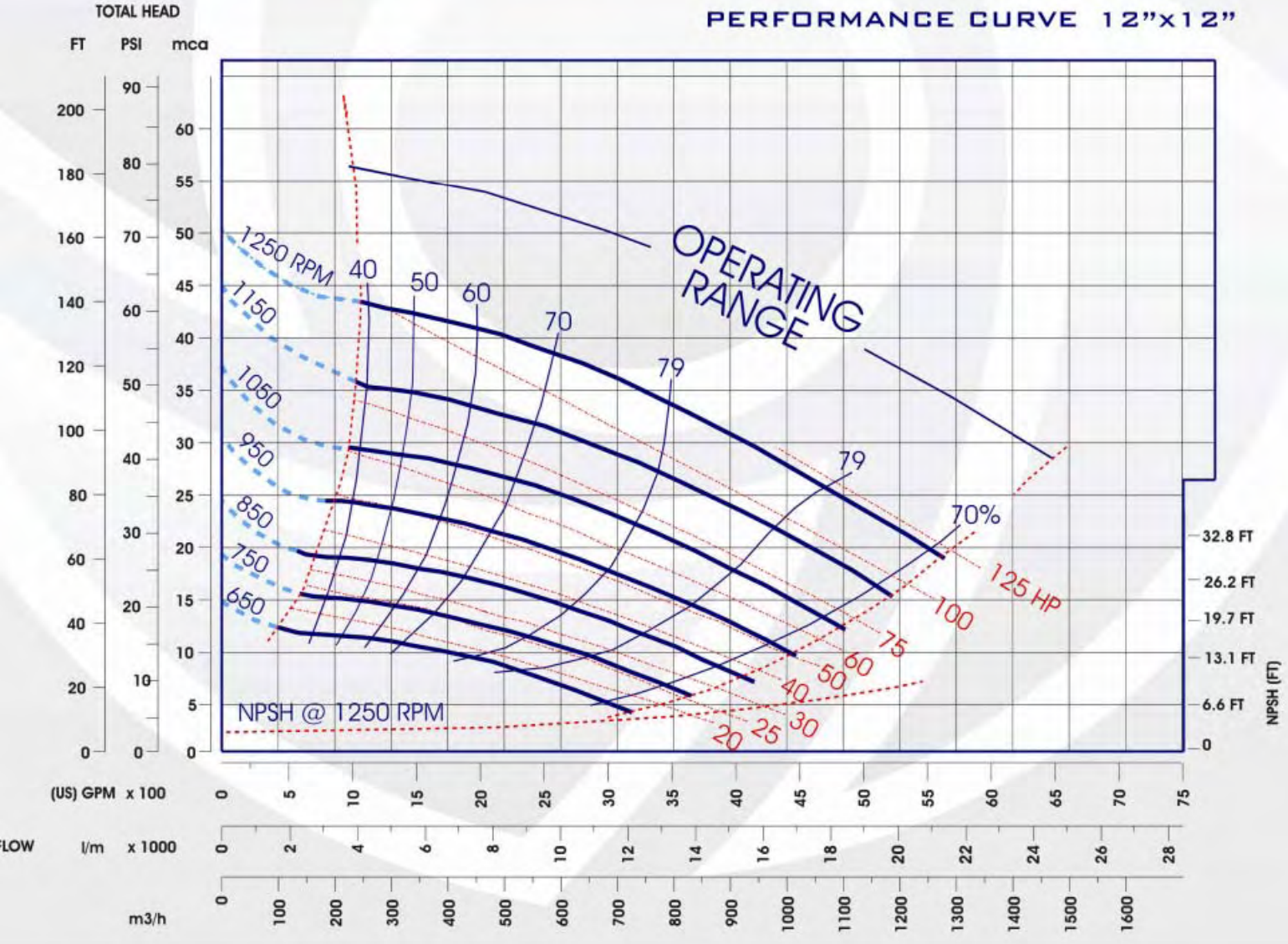
NET WEIGHT 998kg (2200lbs)
SHIPPING WEIGHTS 1066kg (2350lbs)
IMPELLER DIA. 457,2mm (18")
R.P.M. FROM 650rpm TO 1250rpm
MAX. SOLIDS 76,2mm (3")

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)

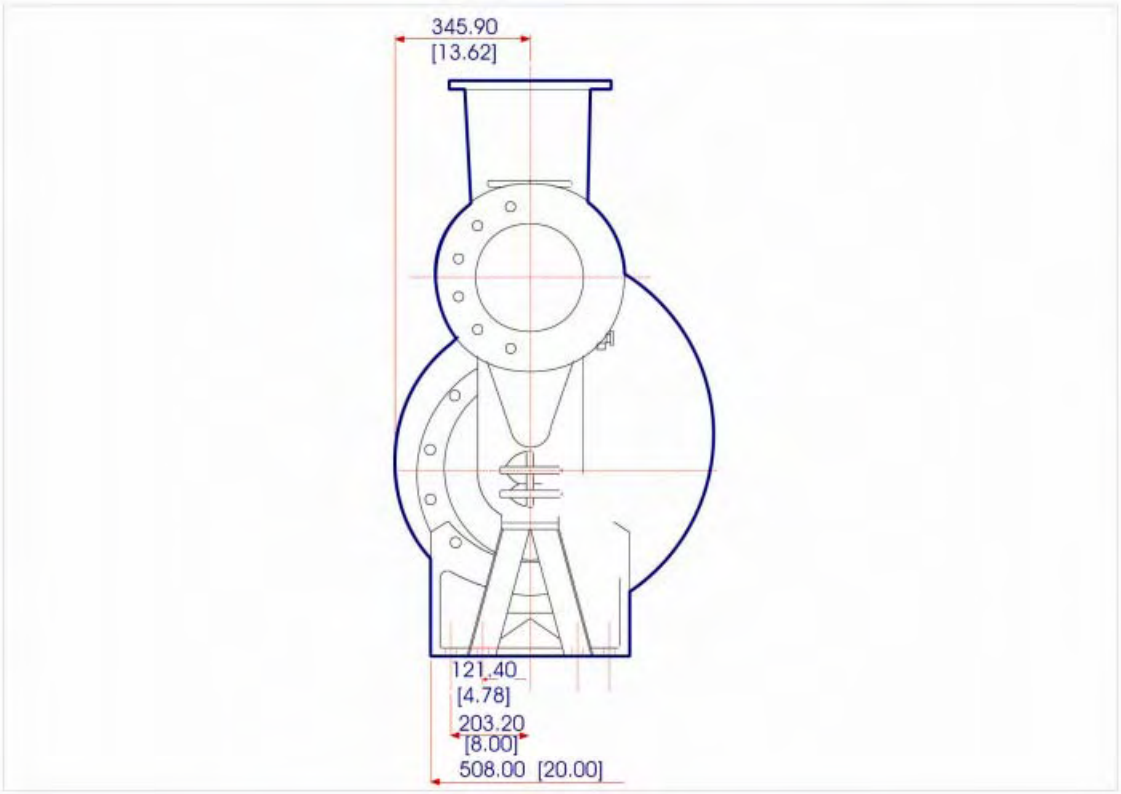
BEFORE USING THIS TABLE, CHECK THE NPSH.

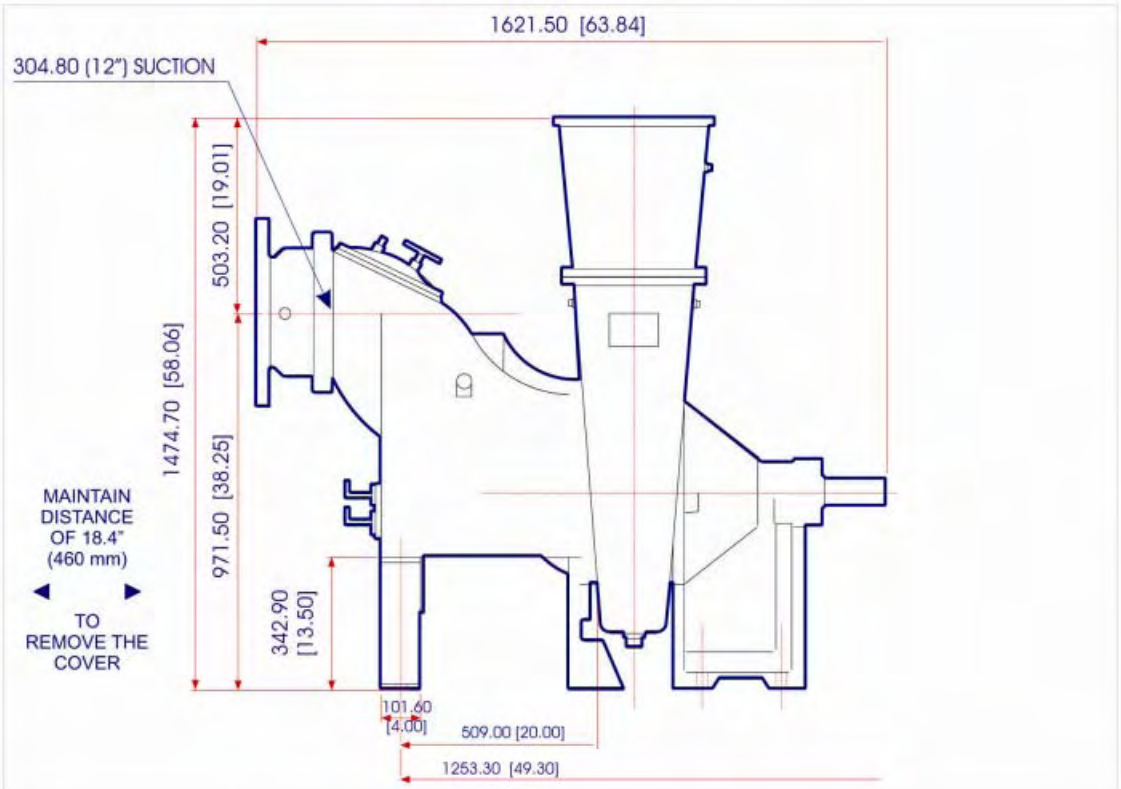
PERFORMANCE CURVE 12"x12"



EXTERNAL DIMENSIONS

MILLIMETERS (INCHES)





DATA SHEET

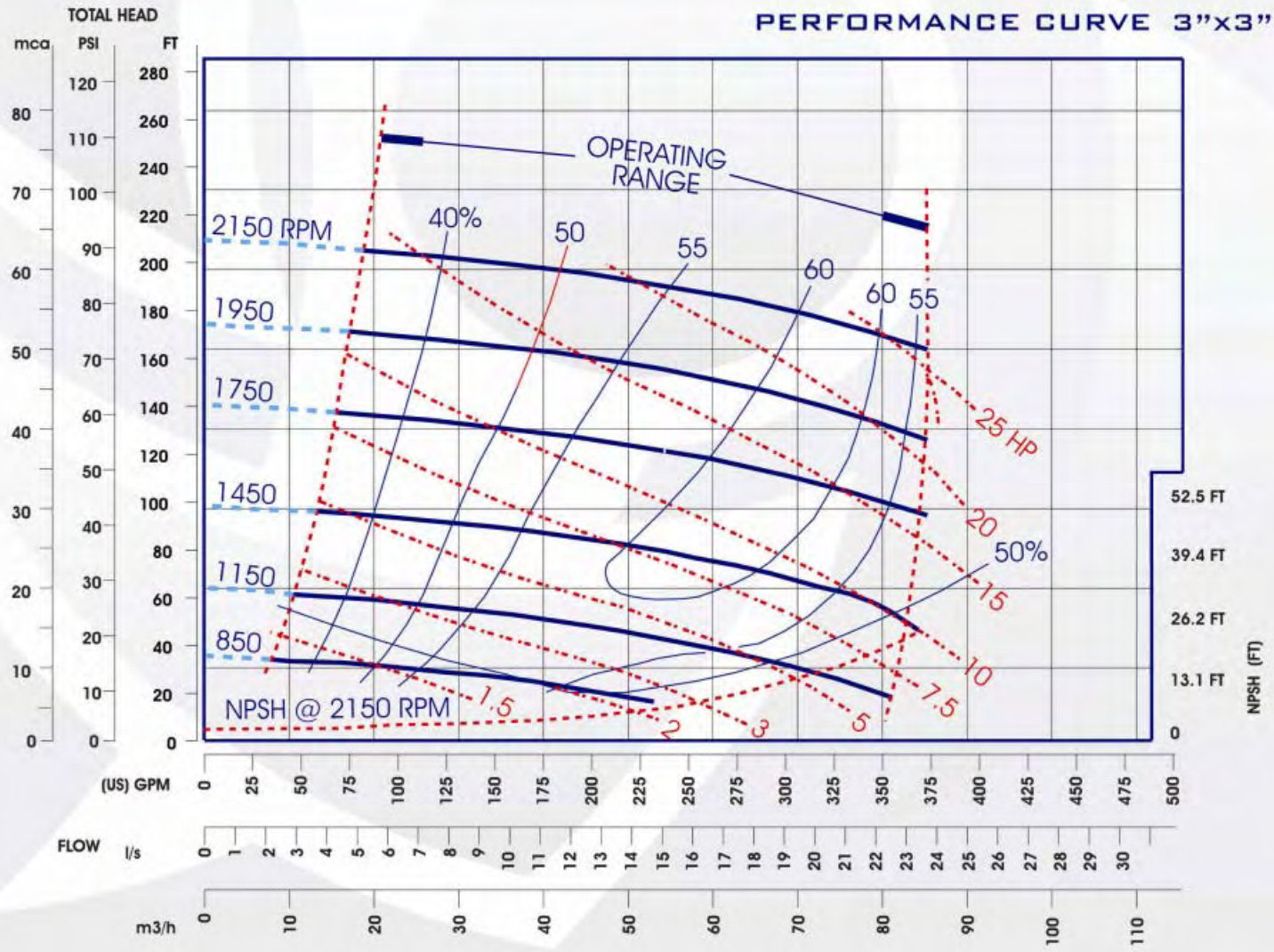
NET WEIGHT 214kg (472lbs)
SHIPPING WEIGHTS 225kg (497lbs)
IMPELLER DIA. 279,4mm (11")
R.P.M. FROM 850rpm TO 2150rpm
MAX. SOLIDS 20.63mm (13/16")

SELF-PRIMING

850 RPM 2,3m (7ft) - 1150 RPM 2,9m (9ft)
1450 RPM 4,5m (15ft) - 1750 RPM 7,6m (25ft)
1950 RPM 7,6m (25ft) - 2150 RPM 7,6m (25ft)

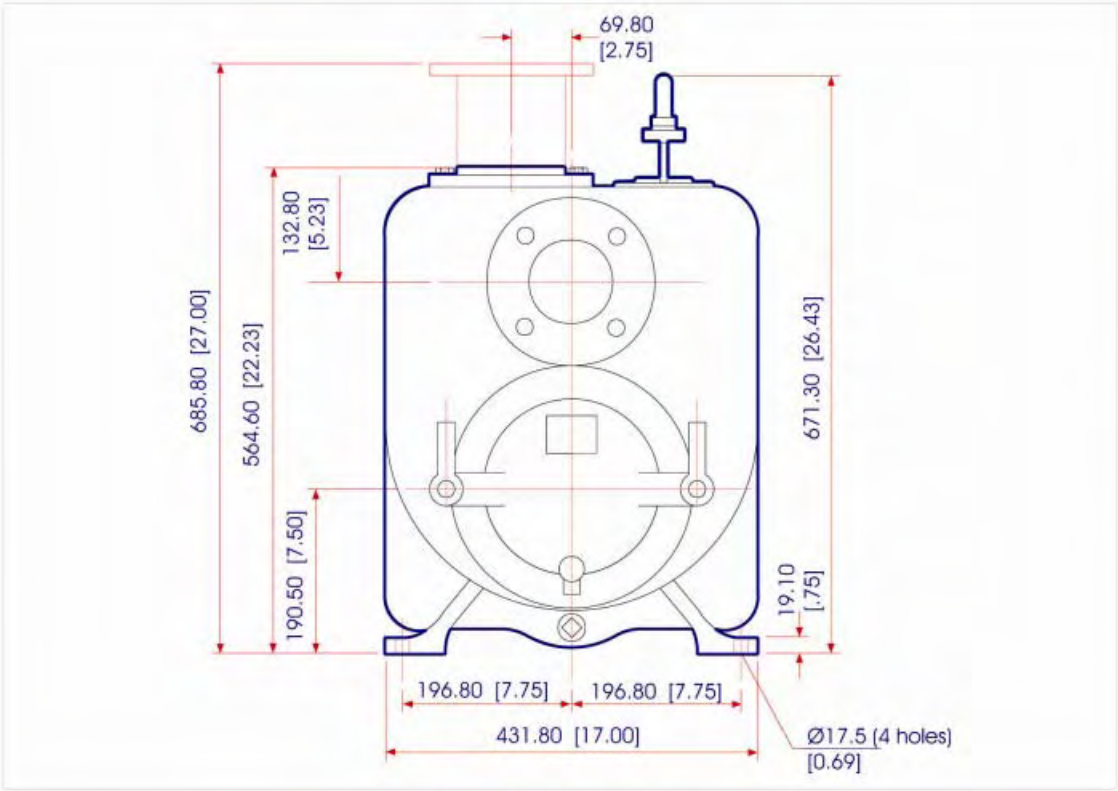
BEFORE USING THIS TABLE, CHECK THE NPSH.

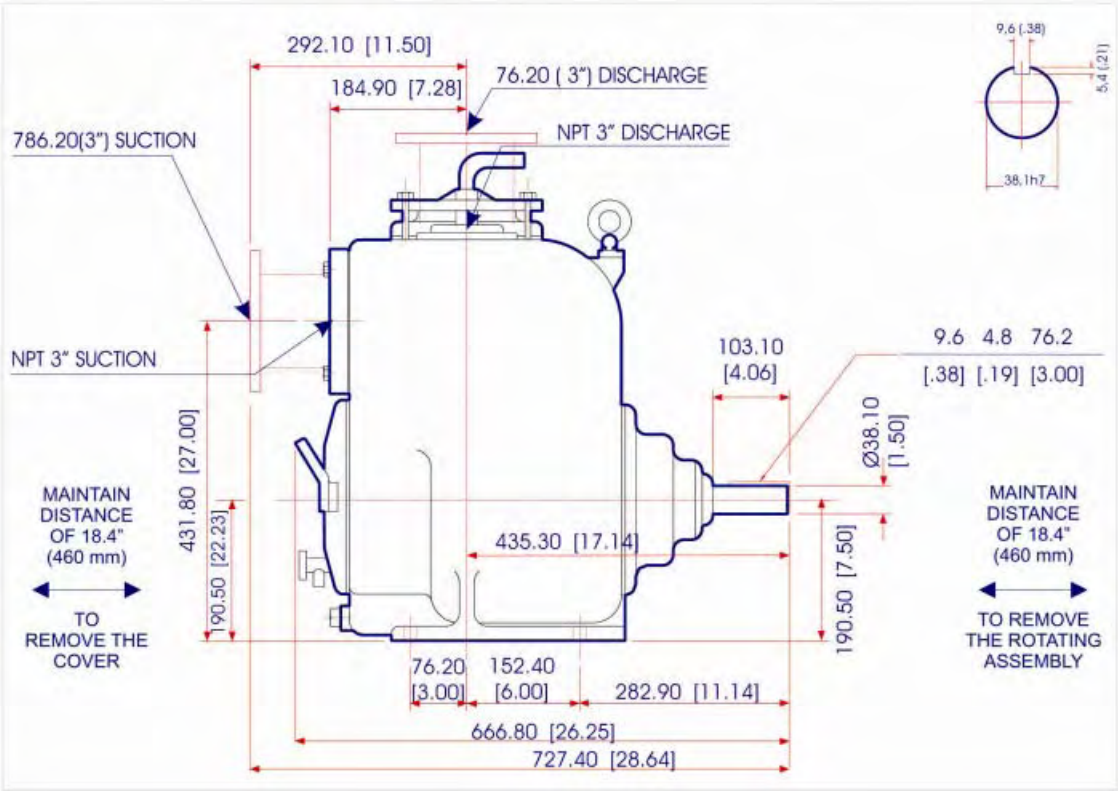
PERFORMANCE CURVE 3"x3"



EXTERNAL DIMENSIONS

MILLIMETERS (INCHES)





DATA SHEET

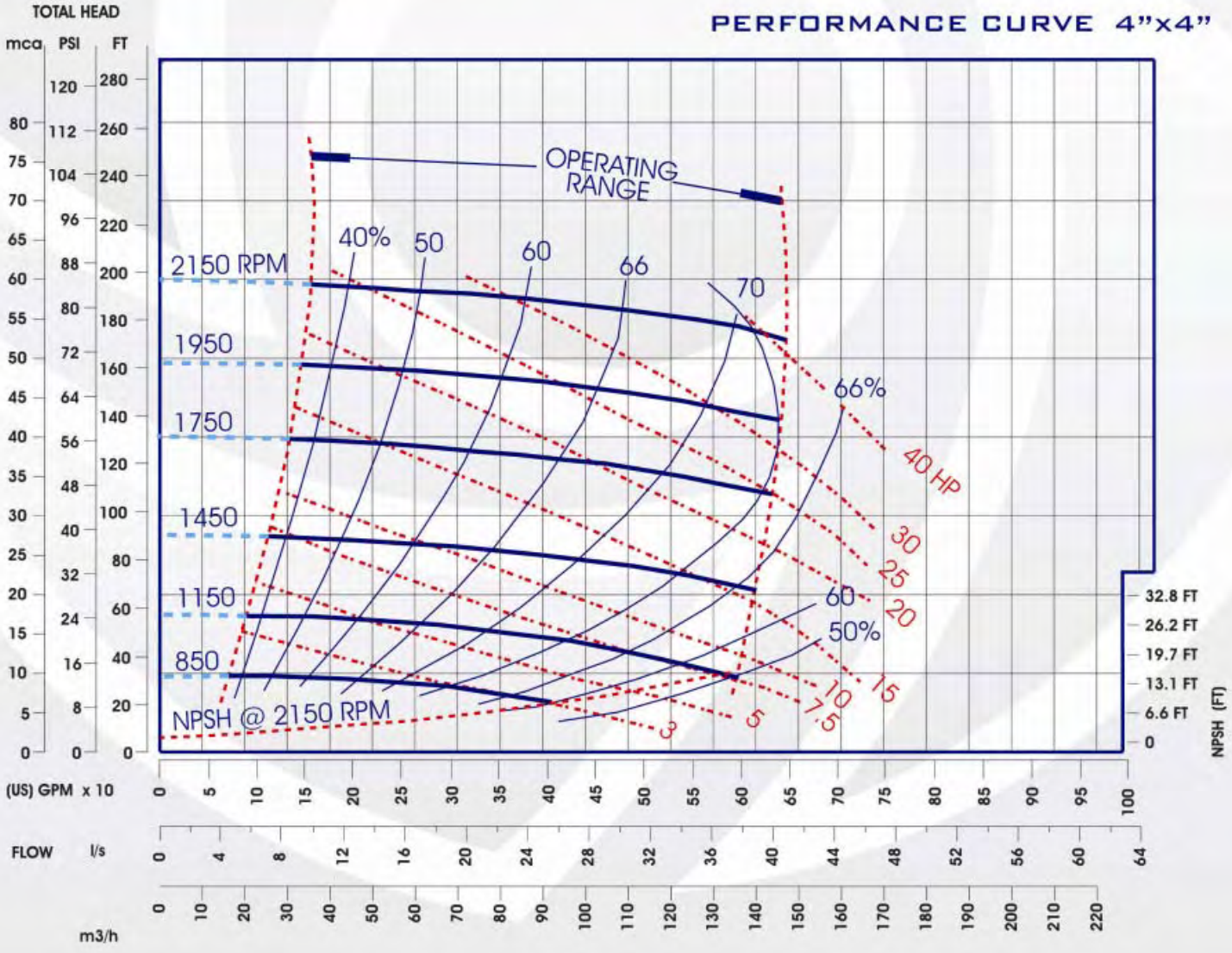
NET WEIGHT 272kg (600lbs)
SHIPPING WEIGHTS 297kg (655lbs)
IMPELLER DIA. 279,4mm (11")
R.P.M. FROM 850rpm TO 2150rpm
MAX. SOLIDS 28.57mm (1.1/8")

SELF-PRIMING

850 RPM 2,4m (8ft) - 1150 RPM 3,0m (10ft)
1450 RPM 3,6m (12ft) - 1750 RPM 3,9m (13ft)
1950 RPM 4,5m (15ft) - 2150 RPM 5,2m (17ft)

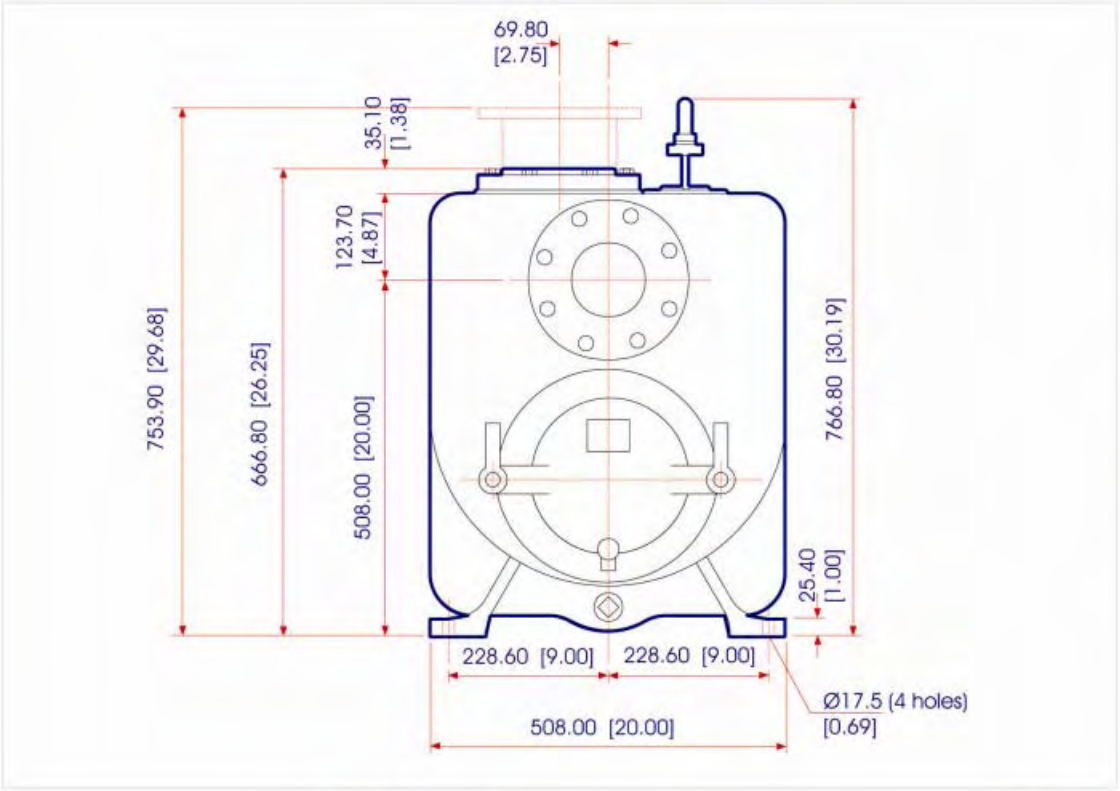
BEFORE USING THIS TABLE, CHECK THE NPSH.

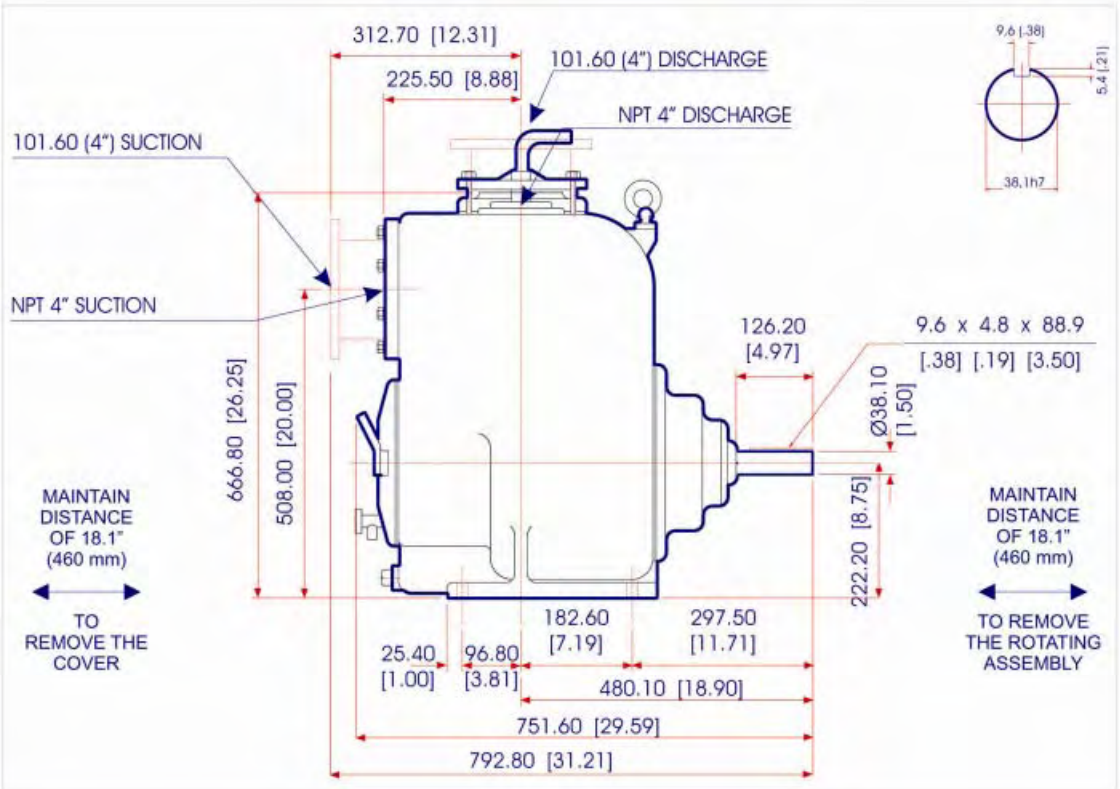
PERFORMANCE CURVE 4"x4"



EXTERNAL DIMENSIONS

MILLIMETERS (INCHES)





SERIES SU MODEL SU-6

DATA SHEET

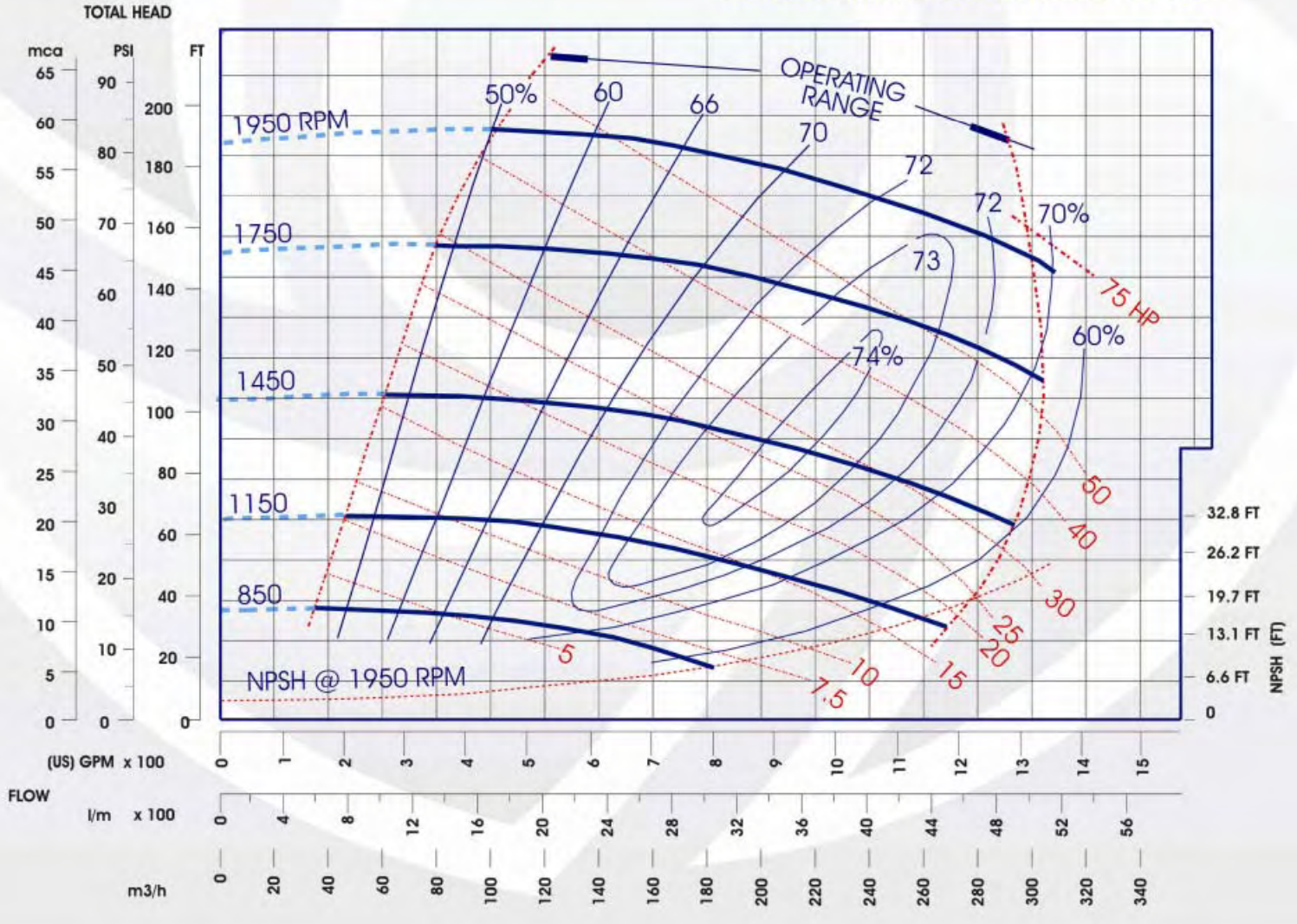
NET WEIGHT 413kg (910lbs)
SHIPPING WEIGHTS 437kg (965lbs)
IMPELLER DIA. 317,5mm (12.1/2")
R.P.M. FROM 850rpm TO 1950rpm
MAX. SOLIDS 31,75mm (1.1/4")

SELF-PRIMING

850 RPM 2,4m (8ft) - 1150 RPM 3,0m (10ft)
1450 RPM 4,2m (10ft) - 1750 RPM 4,5m (15ft)
1950 RPM 4,5m (15ft)

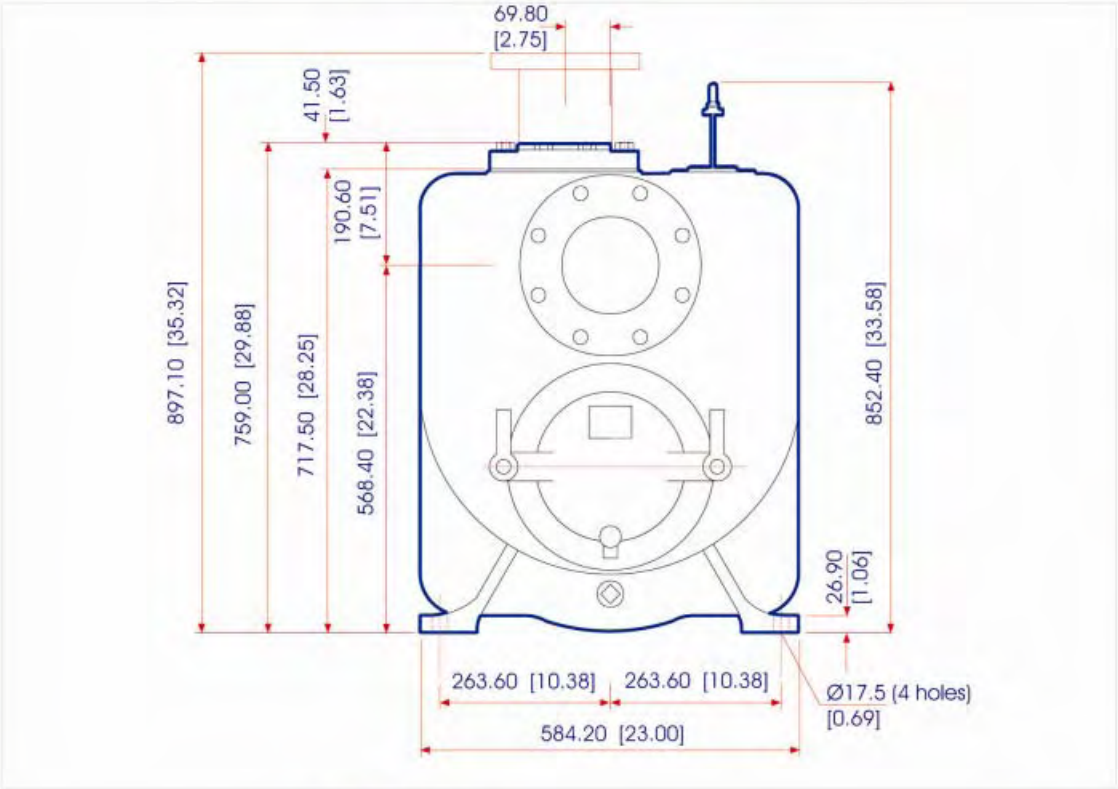
BEFORE USING THIS TABLE, CHECK THE NPSH.

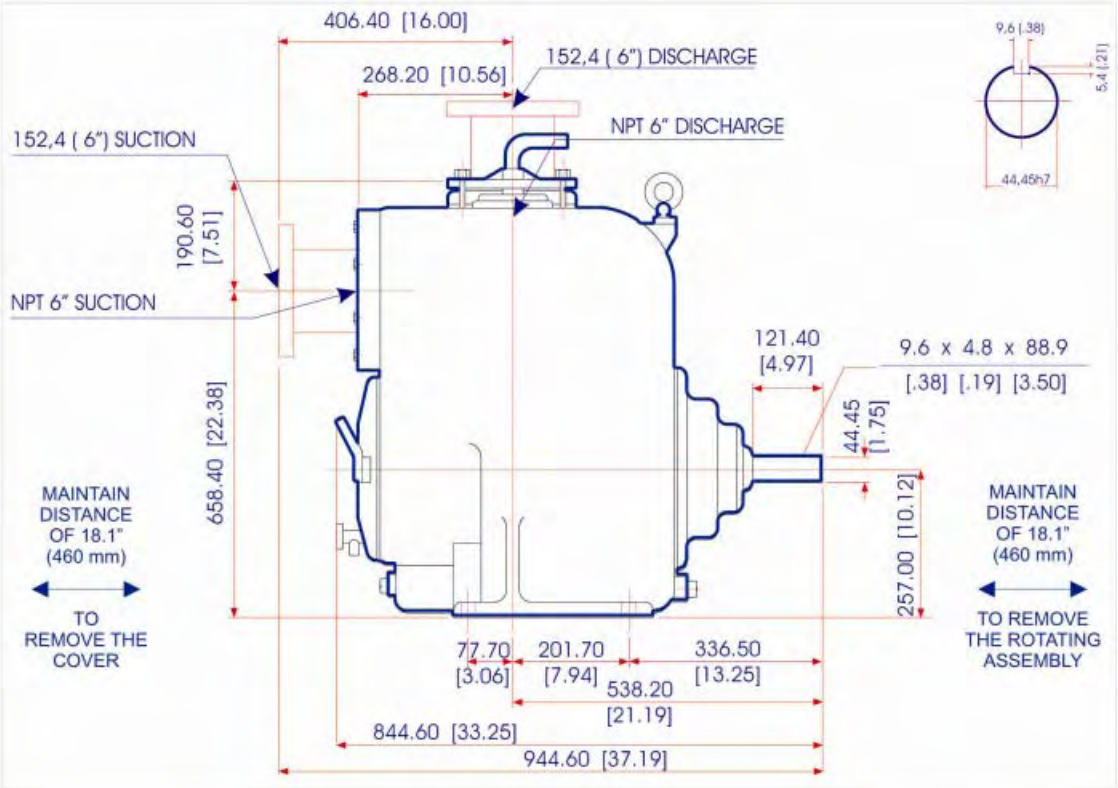
PERFORMANCE CURVE 6"x6"



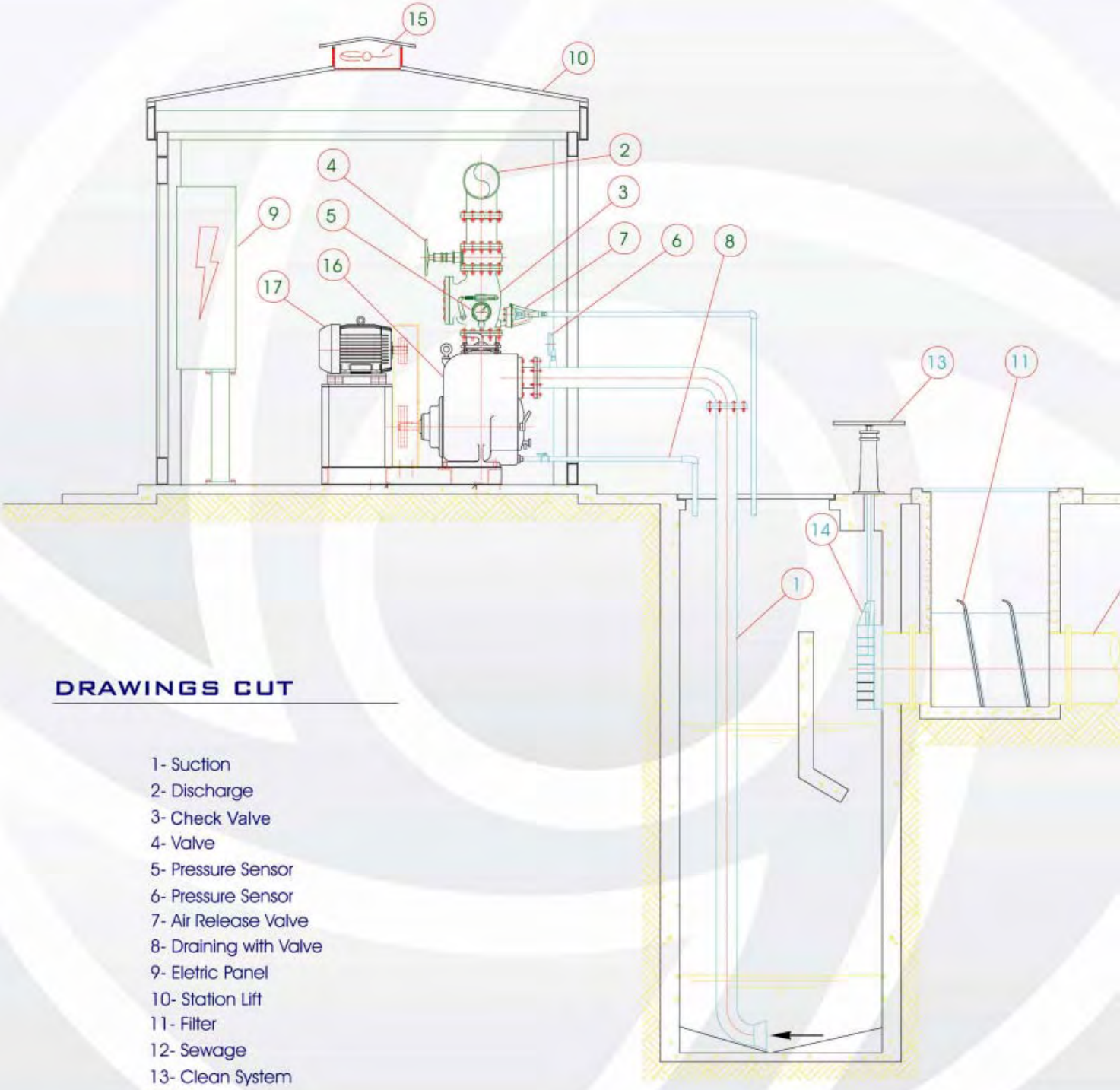
EXTERNAL DIMENSIONS

MILLIMETERS (INCHES)





STATION LIFT



DRAWINGS CUT

1- Suction
2- Discharge
3- Check Valve
4- Valve
5- Pressure Sensor
6- Pressure Sensor
7- Air Release Valve
8- Draining with Valve
9- Eletric Panel
10- Station Lift
11- Filter
12- Sewage
13- Clean System
14- Valve
15- Fan
16- Pump
17- Eletric Motor