



SELF-PRIMING, SOLID HANDLING CENTRIFUGAL PUMP

URAFLO self-priming pump are design for rugged and dependable solid handling application. The heavy duty and easy to maintain design provide economical and trouble free operation in handling solid-laden liquids and slurries

The large volute design enables the pump to reprime automatically, without the need for suction or discharge check valves. Automatic repriming is even possible with the pump casing only partially filled with liquid and with a completely dry suction line. SPT pumps are designed with ability to overcome priming and vapor handling problems common in conventional centrifugal pumps.

CLEANING AND INSPECTION

WITHOUT DISCONNECTING THE PIPEWORK (BACK - PULL - OUT)

Anoter advantage of the **DURAFLO** pump is that cleaning and clearing are simple tasks, as are inspection and substitution of the impeller and seal, when necessary. The ST 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 disconnection ten pipework.



SHIMLESS EXTERNAL IMPELLER ADJUSTMENT

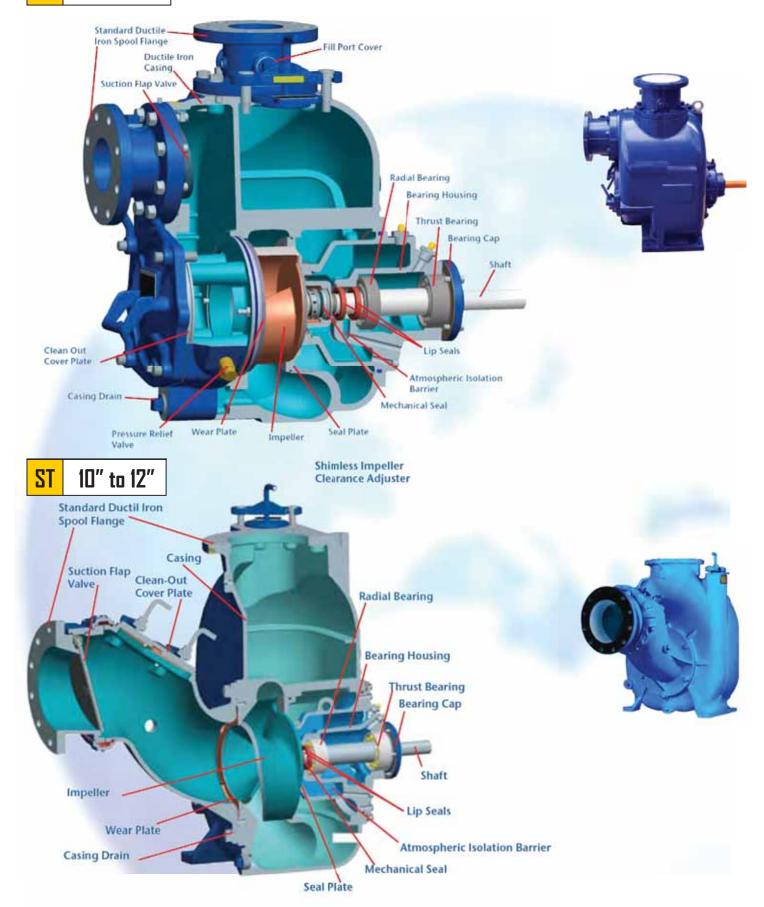
An exclusive system to externally adjust the impeller clearance without disassembling the pump. With the use of just an allen or fixed wrench, simple adjustment can optimize pump efficiency while extending the life of both impeller and wear plate







ST 2" to 8"



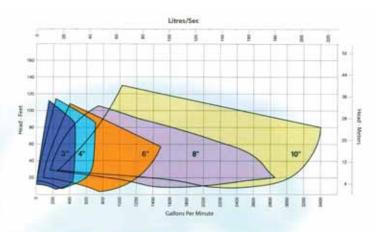


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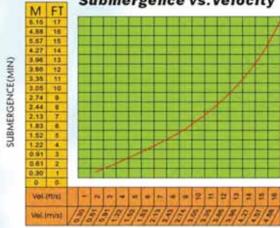
PUMP SIZE	2" (50mm) , 3" (75mm) 4" (100mm) , 6" (150mm) 8" (200mm) , 10" (250mm) 12" (300mm)
Max Capacity	5,500 GPM (1250 M ³ /hr)
Max Head	130' (40m)
Operation Pressure	Max 120 psi(797 kP)
Pump Casing	Cast Iron
Impeller	Semi Open type, two vane. Material -Ductile Iron Max 3" (76mm) solids
Shaft	AISI 420
Wear Plate, Replaceable	SAE 1020
Cover Plate	Cast Iron
Flap valve	Neoprene with steel
Bearing Housing	Cast Iron
Seal Plate	Cast Iron
Shaft Sleeve	304 SS
Redia Bearing	Single ball
Thrust Bearing	Double ball
Bearing/Seal Cavity	SAE NO 30 oil
Flanges	125 # ANS or DIN
Seal Plate	Silicon carbide/Tungsten carbide
O-Rings	Buna-n
Hardware	Plated steel
Pressure Release Valve	Brass
Oil Level Sight Gauges	Bearing and Seal Cavity



Materials 304SS, 316SS, CD4CMU. **Epoxy and Ceramic internal coatings**



Recommended Minimum Suction Line Submergence vs. Velocity



Note:

- 1: The suggested suction should have the same nominal diameter
- as the pump, so that the solids be totally swept up.

 2: The depth of submergence of the suction line is critical to efficient pump operation. See recommended chart

Vel.(M/sec)= Ft/Sec+0.3048







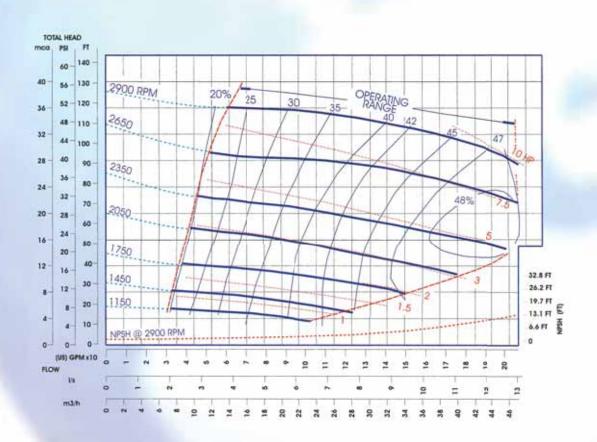
DATA SHEET

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

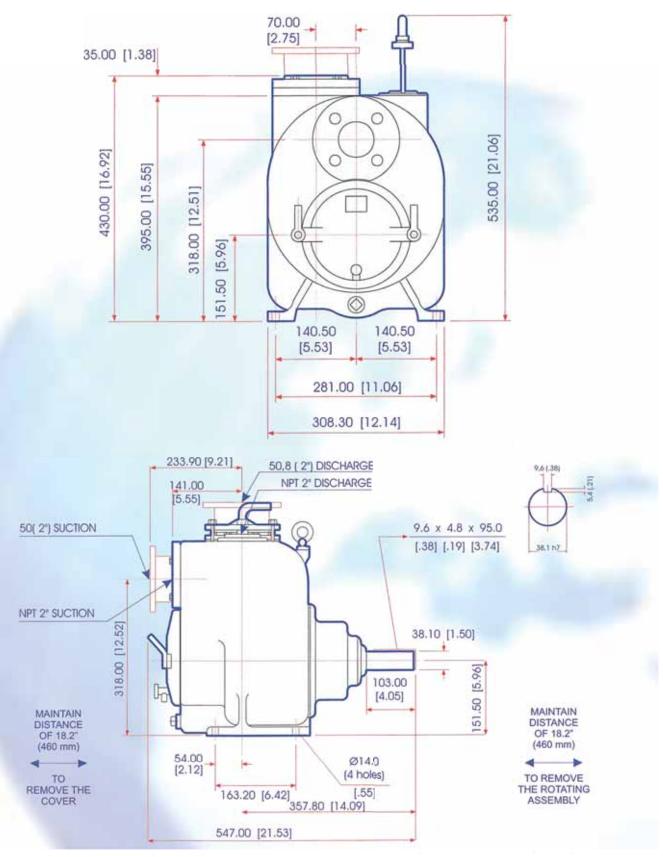
SELF - PRIMING

1150 RPM 7,3 m (24 ft) - 1450 RPM 7,6 m (25 ft) 1750 RPM 7,6 m (25 ft) - 2050 RPM 7,6 m (25 ft) 2050 RPM 7,6 m (25 ft) 2650 RPM 7,6 m (25 ft) 20 RPM 7,6 m (25 ft) 20 RPM 7,6 m (25 ft)

BEFORE USING THIS TABLE, CHECK THE NPSH.











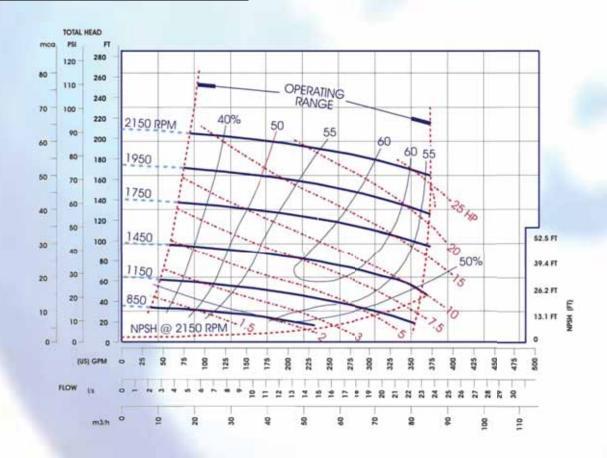
DATA SHEET

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

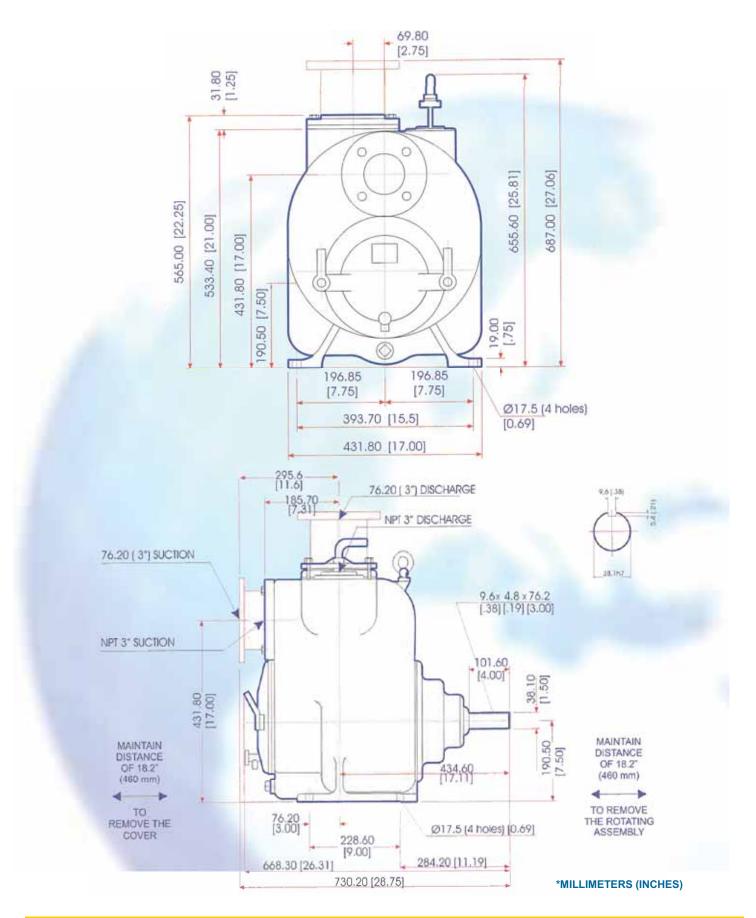
SELF - PRIMING

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

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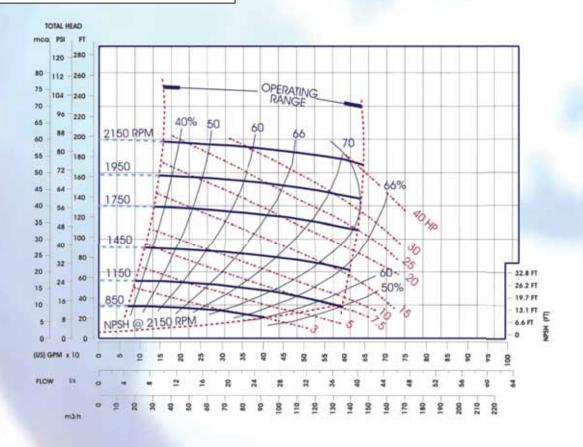
DATA SHEET

NET WEIGHT 259.5 kg (600 lbs) SHIPPING WEIGHTS 280 kg (655 lbs) IMPELLER DIA. 247,65 mm (9.3/4") R.P.M. FROM 650 rpm TO 1950 rpm MAX. SOLIDS 76,2 mm (3")

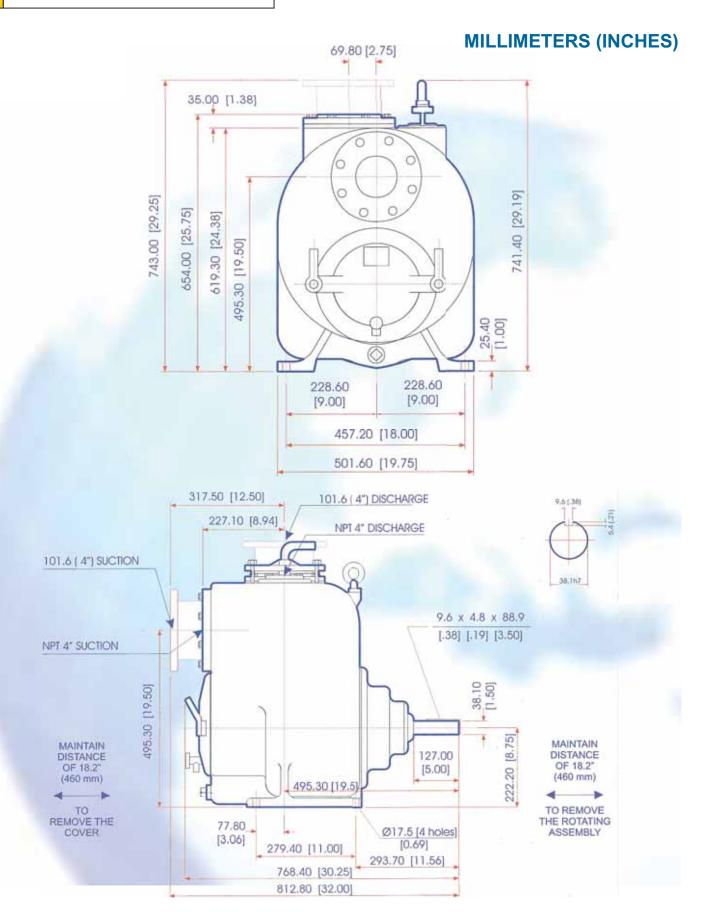
SELF - PRIMING

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

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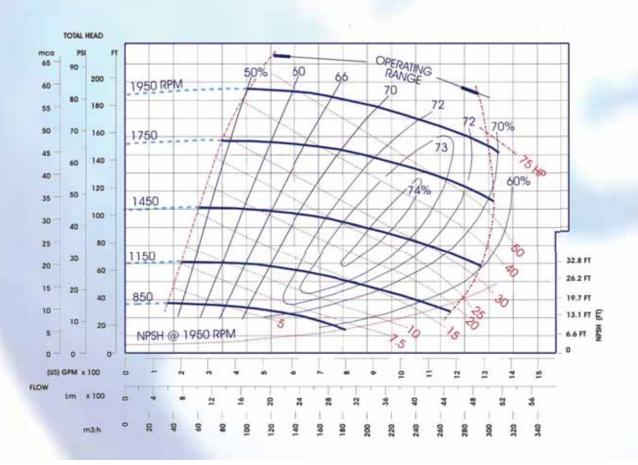
DATA SHEET

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

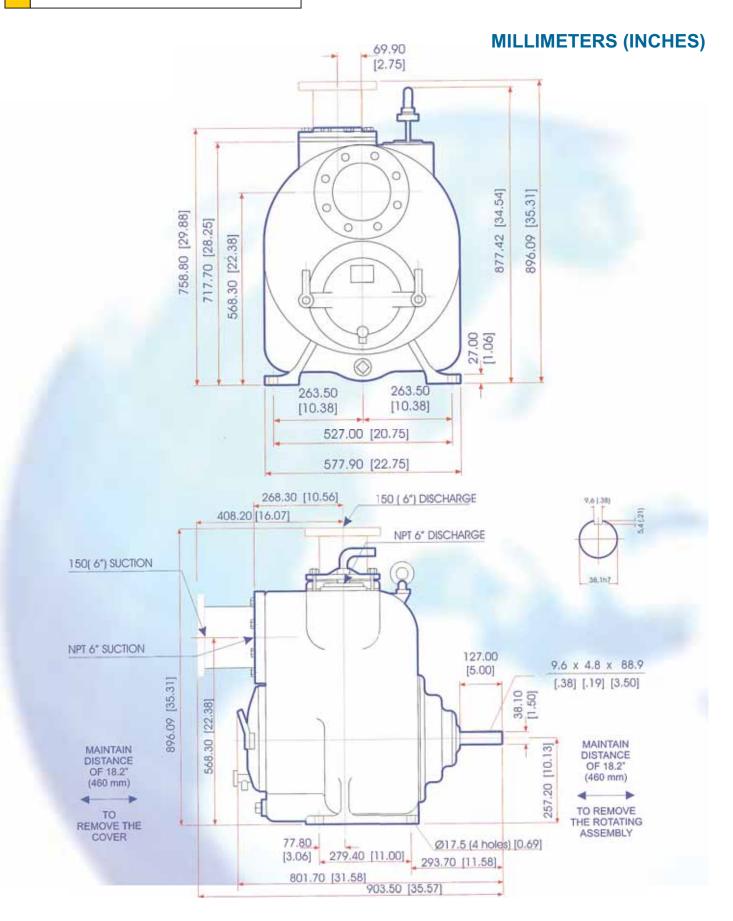
SELF - PRIMING

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

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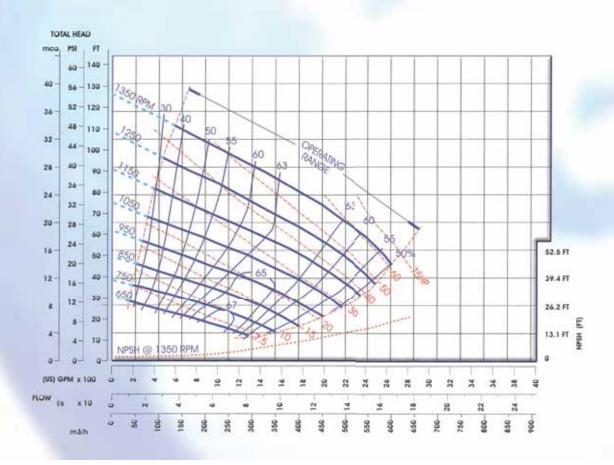
DATA SHEET

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")

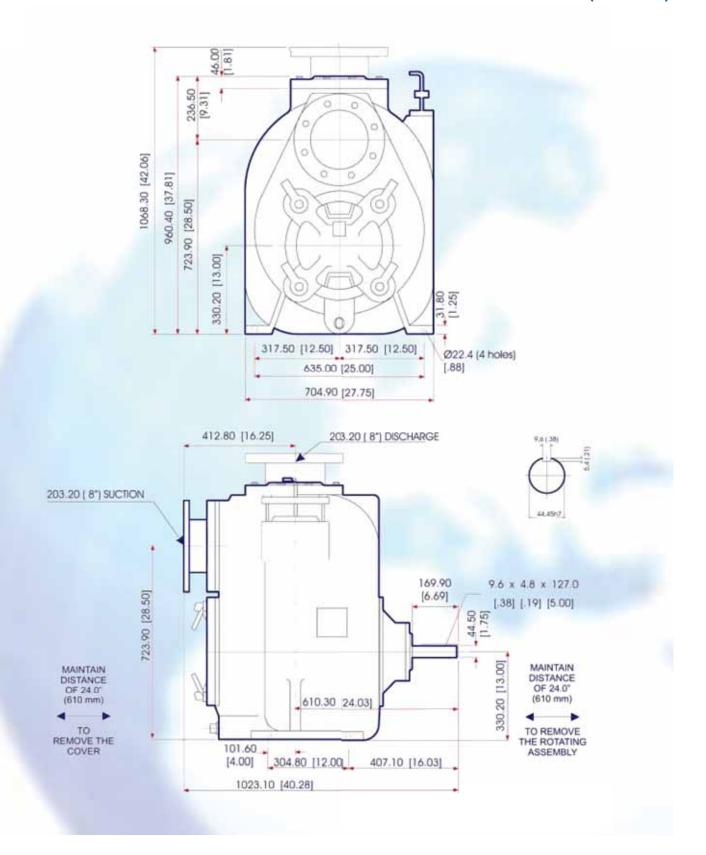
SELF - PRIMING

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

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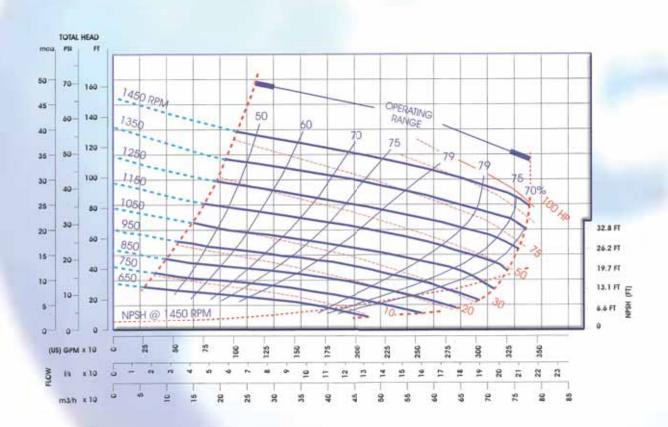
DATA SHEET

NET WEIGHT 635 kg (1400 lbs) SHIPPING WEIGHTS 663 kg (1461 lbs) IMPELLER DIA. 374.65 mm (14.3/4") R.P.M. FROM 650 rpm TO 1450 rpm MAX. SOLIDS 76,2 mm (3")

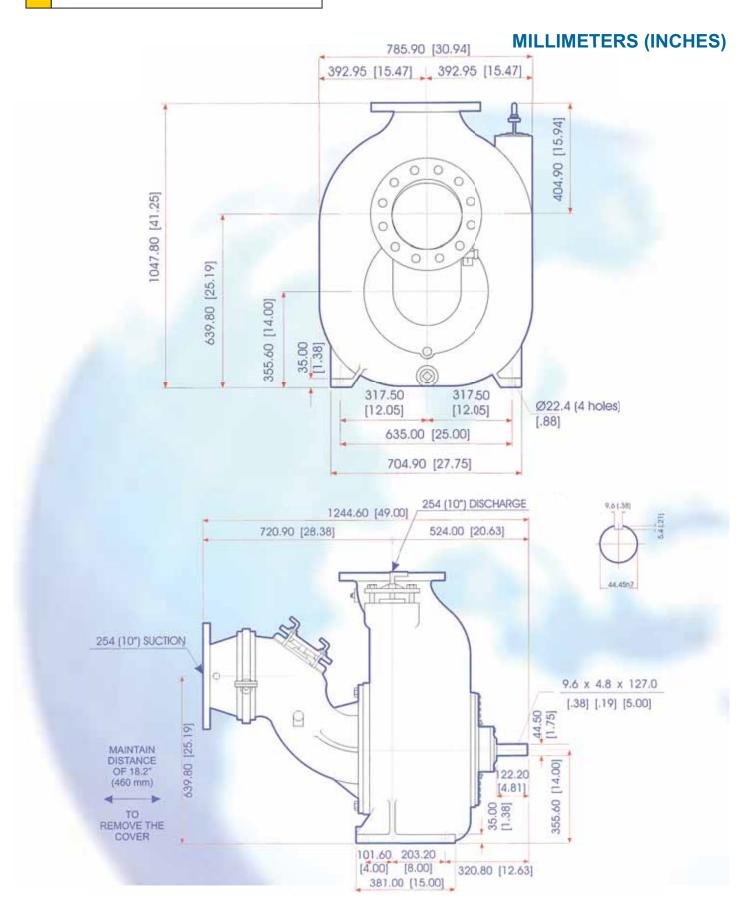
SELF - PRIMING

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

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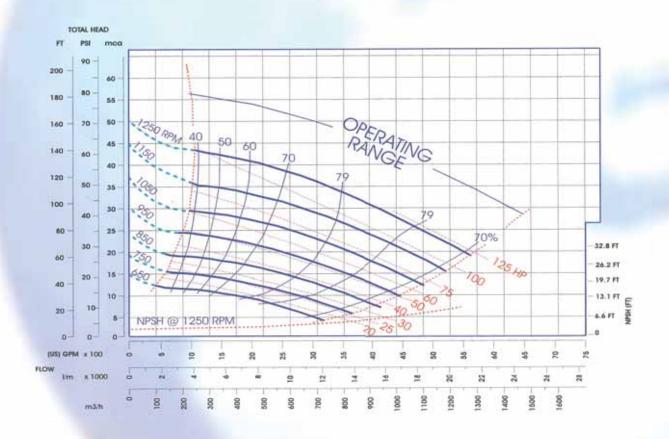
DATA SHEET

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

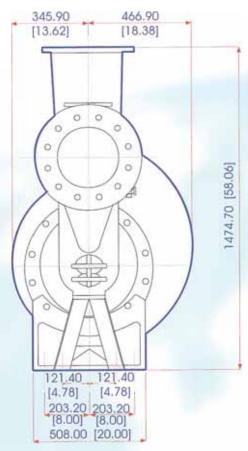
SELF - PRIMING

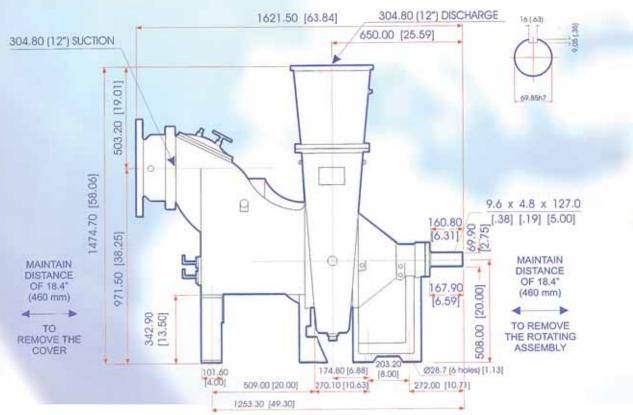
650 RPM 1,6 m (5 ft) - 750 RPM 2,7 m (9 ft) 850 RPM 3,9 m (13 ft) - 950 RPM 4,5 m (15 ft) 1050 RPM 4,9 m (16 ft) - 1150 RPM 4,9 m (16 ft) 1250 RPM 4,9 m (16 ft)

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SU 3



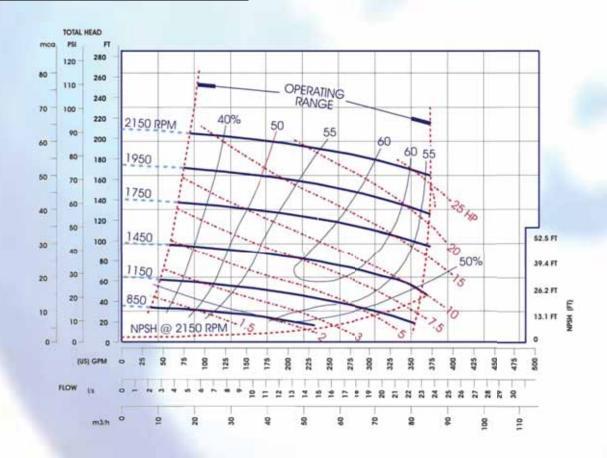
DATA SHEET

NET WEIGHT 214 kg (472 lbs) SHIPPING WEIGHTS 225 kg (497 lbs) IMPELLER DIA. 279,4 mm (11") R.P.M. FROM 850 rpm TO 2150 rpm MAX. SOLIDS 20,63 mm (13/16")

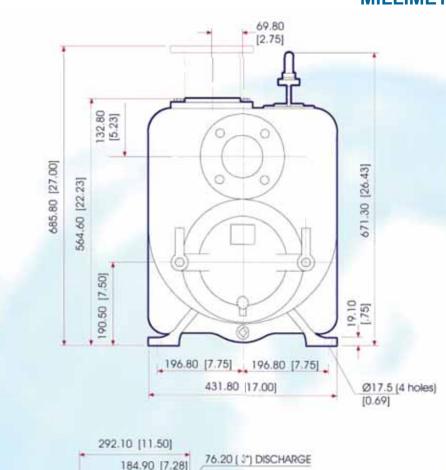
SELF - PRIMING

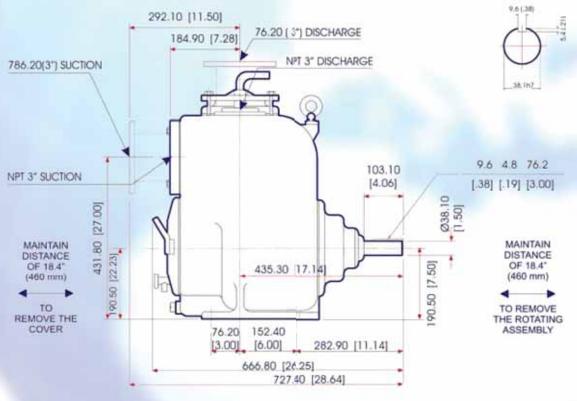
850 RPM 2,3 m (7 ft) - 1150 RPM 2,9 m (9 ft) 1450 RPM 4,5 m (15 ft) - 1750 RPM 7,6 m (25 ft) 1950 RPM 7,6 m (25 ft) - 2150 RPM 7,6 m (25 ft)

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SU 4



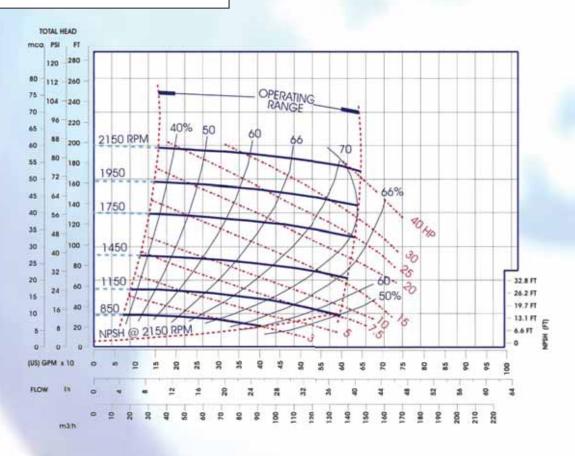
DATA SHEET

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

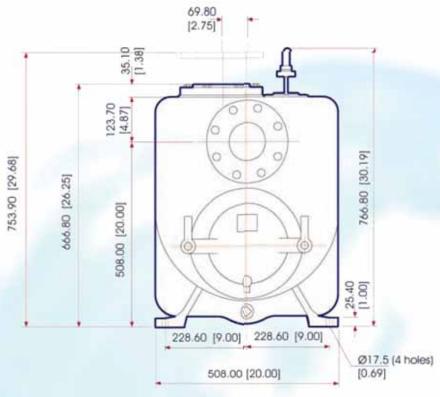
SELF - PRIMING

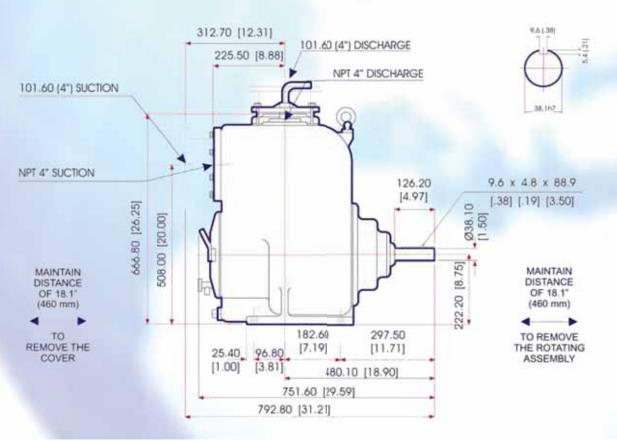
850 RPM 2,4 m (8 ft) - 1150 RPM 3,0 m (10 ft) 1450 RPM 3,6 m (12 ft) - 1750 RPM 3,9 m (13 ft) 1950 RPM 4,5 m (15 ft) - 2150 RPM 5,2 m (17 ft)

BEFORE USING THIS TABLE, CHECK THE NPSH.











SU 6



DATA SHEET

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

SELF - PRIMING

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

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