



A RUTHMAN COMPANY

# General Service Industrial Pumps

## Self Priming Series



**RUTHMAN**  
Engineering Pump Solutions™

[www.gusher.com](http://www.gusher.com)

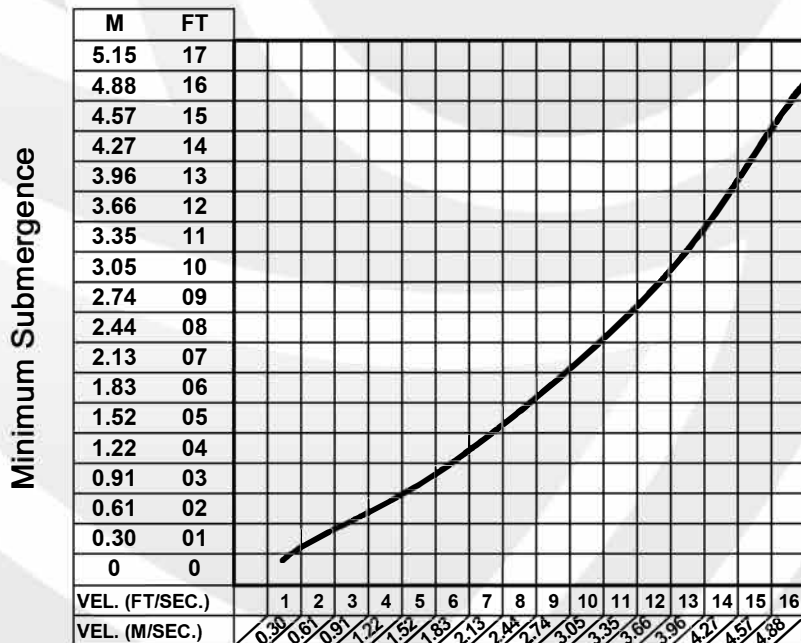


# MATERIALS OF CONSTRUCTION

	Standard	Type E	Type F
Casing	A 48CL30	CD4 MCU	SS 316
Impeller	A 60-40-18	CD4 MCU	SS 316
Wear Plate	SAE 1020	CD4 MCU	SS 316
Cover Plate	A 48CL30	CD4 MCU	SS 316
Bearing Housing	A 48CL30	CD4 MCU	SS 316
Seal Plate	A 48CL30	CD4 MCU	SS 316
Flap Valve	Neoprene	Viton	
Sleeve Shaft	ANSI 4140HT	ANSI 17-4	
Flange	A 48CL30	SS 316	SS 316
O-rings	Buna	Viton	
Impeller Shaft	ANSI 4140HT	ANSI 17-4	
Mechanical Seal	O-ring style, Viton material. Tungsten Carbide inboard and outboard faces.		

Other construction materials available upon request; consult factory. Price and lead time will vary.

## 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.  
**Note 2:** If the speed is higher than 3.5 m/s and if there is a need for higher "NPSH", please contact the factory.

# Model-SPP2



## DATA SHEET

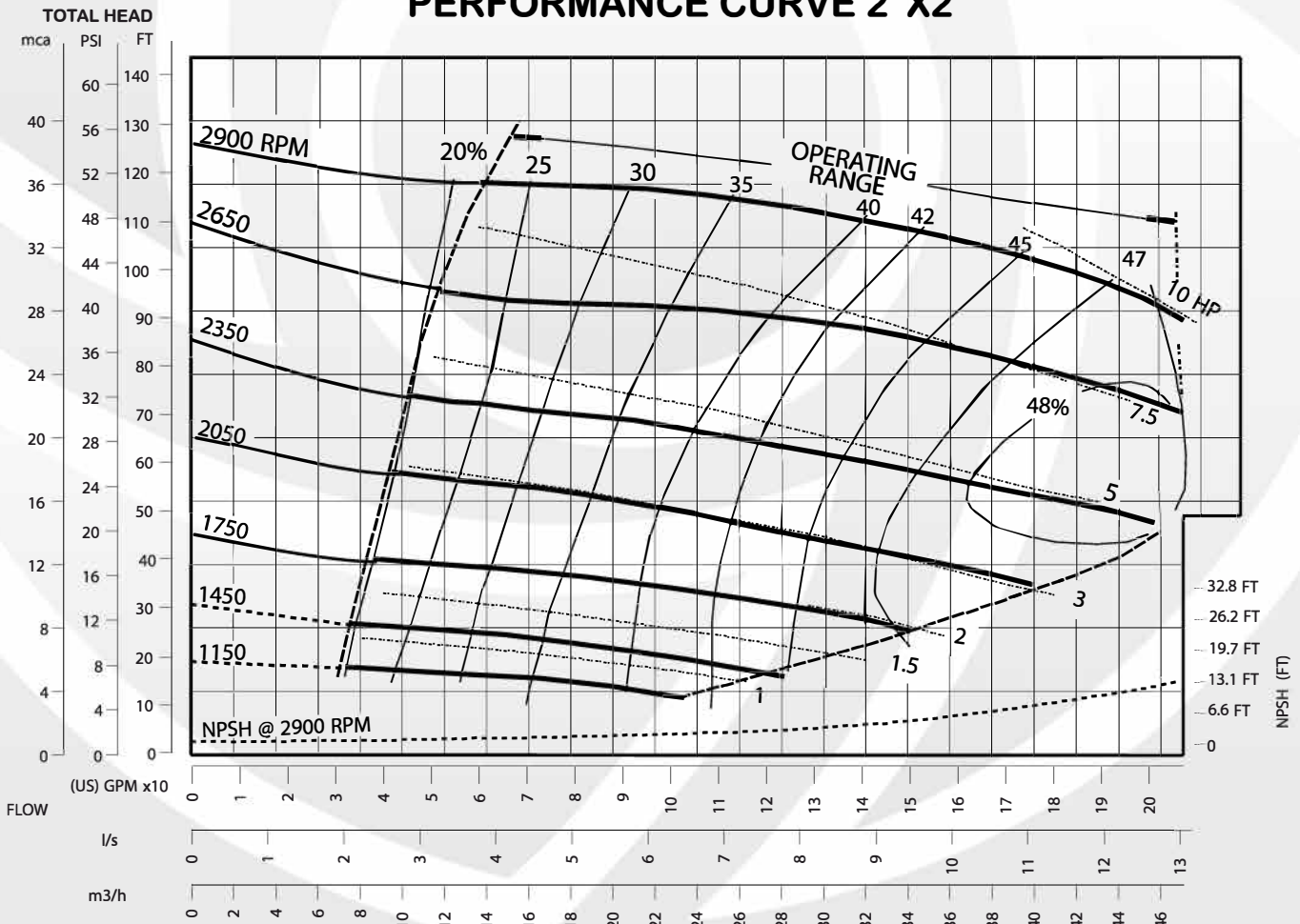
Net Weight	203 lbs
Impeller Dia.	6-1/4"
R.P.M.	1150rpm-2900rpm
Max. Solids	1-3/4"

## SELF-PRIMING

1150rpm	24ft	-	1450rpm	25ft
1750rpm	25ft	-	2040rpm	25ft
2350rpm	25ft	-	2650rpm	25ft
2650rpm	25ft	-	2900rpm	25ft

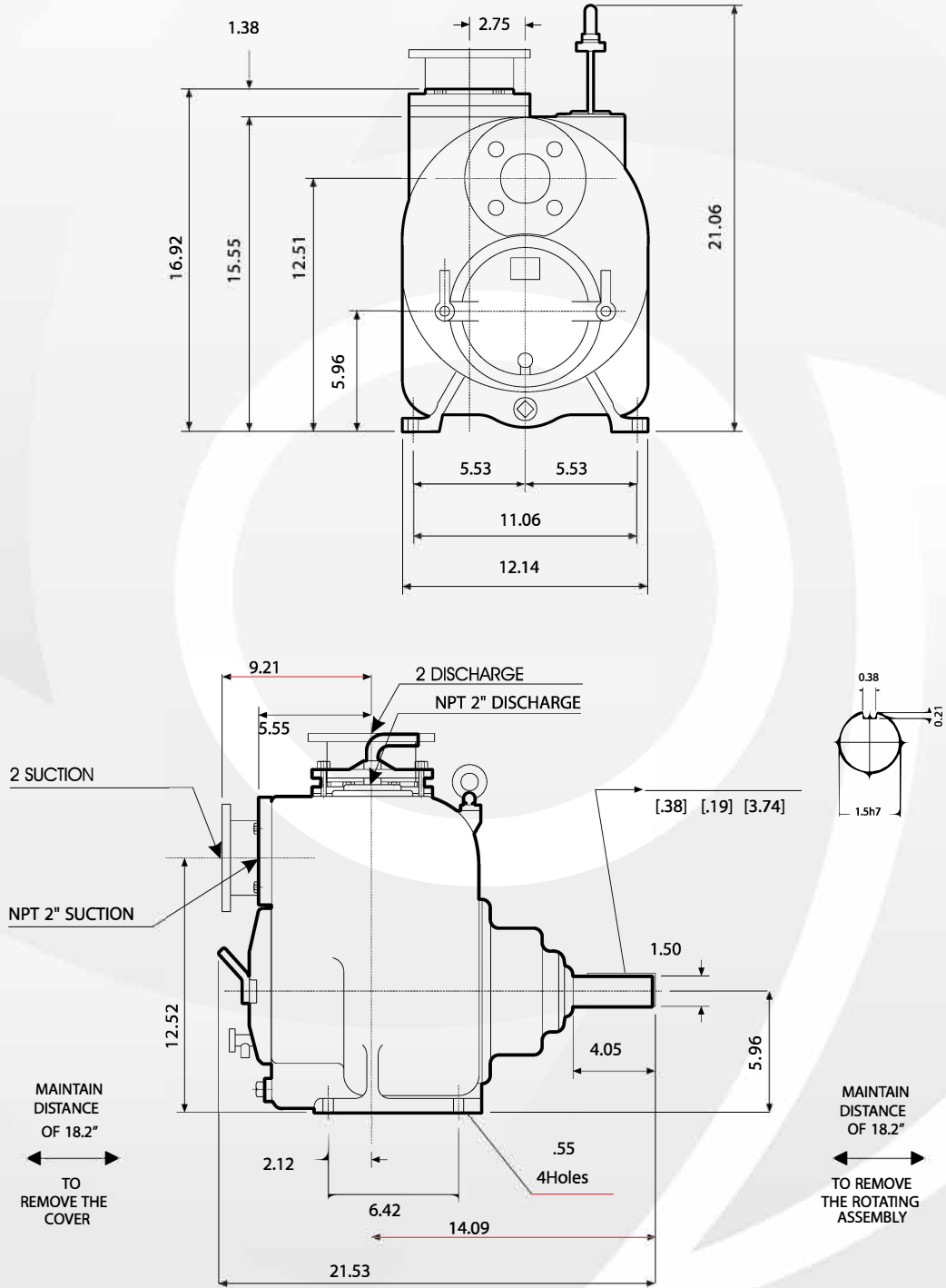
Before using this table, check the NPSH.

## PERFORMANCE CURVE 2"X2"



# Model-SPP2

## EXTERNAL DIMENSIONS INCHES



# Model-SPP3



## DATA SHEET

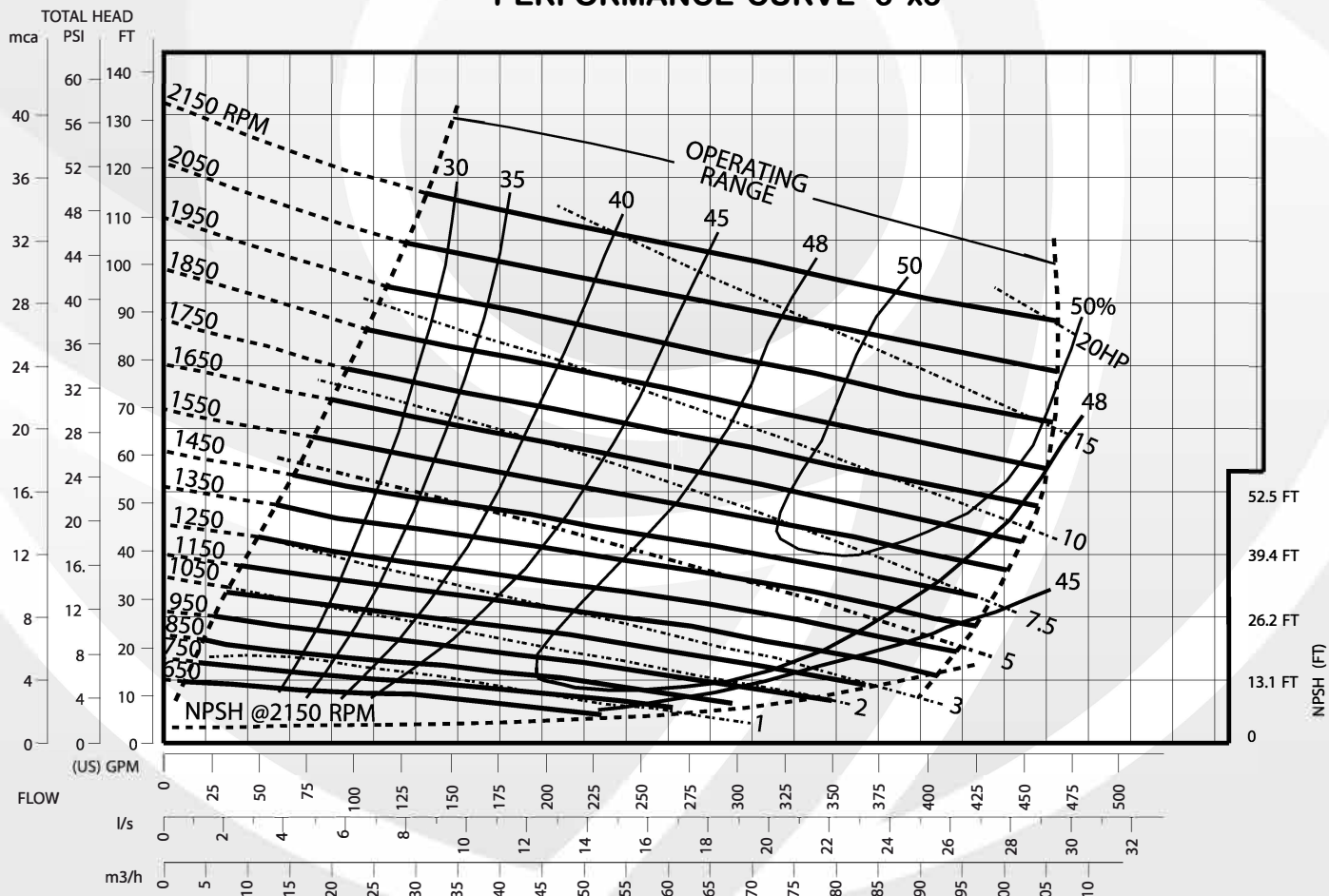
**Net Weight**            404 lbs  
**Impeller Dia.**         8-3/4"  
**R.P.M.**                 650rpm-2150rpm  
**Max. Solids**          2-1/2"

## SELF-PRIMING

650rpm 5ft - 750rpm 6ft  
 850rpm 8ft - 1150rpm 16ft  
 1050rpm 13ft - 1150rpm 16ft  
 1240rpm 18ft - 1350rpm 19ft  
 1450rpm 21ft - 1550rpm 21ft  
 1650rpm 22ft - 1750rpm 22ft  
 1850rpm 25ft - 1950rpm 25ft  
 2050rpm 25ft - 2150rpm 25ft

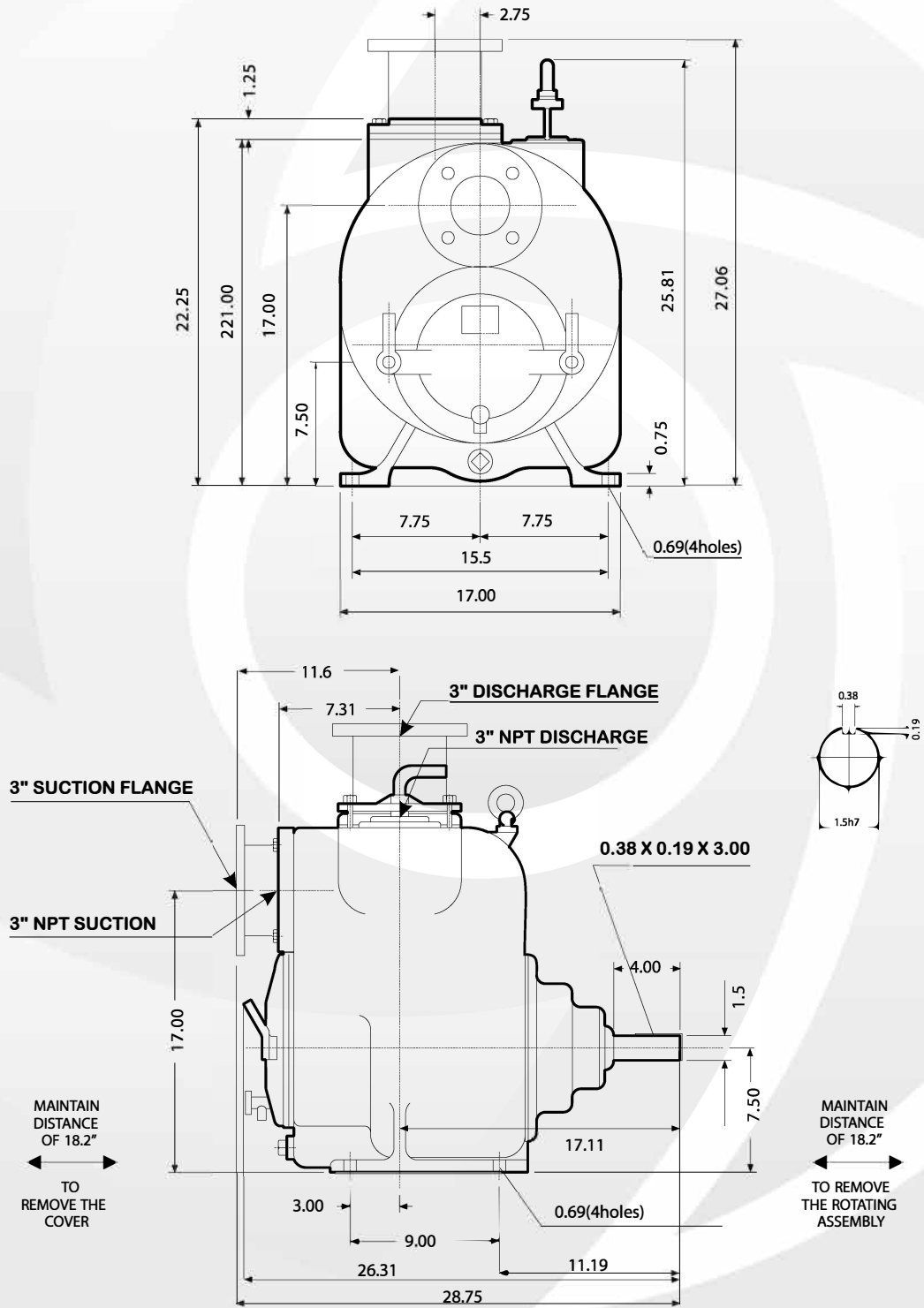
Before using this table, check the NPSH.

## PERFORMANCE CURVE 3"x3"



# Model-SPP3

## EXTERNAL DIMENSIONS INCHES



# Model-SPP4



## DATA SHEET

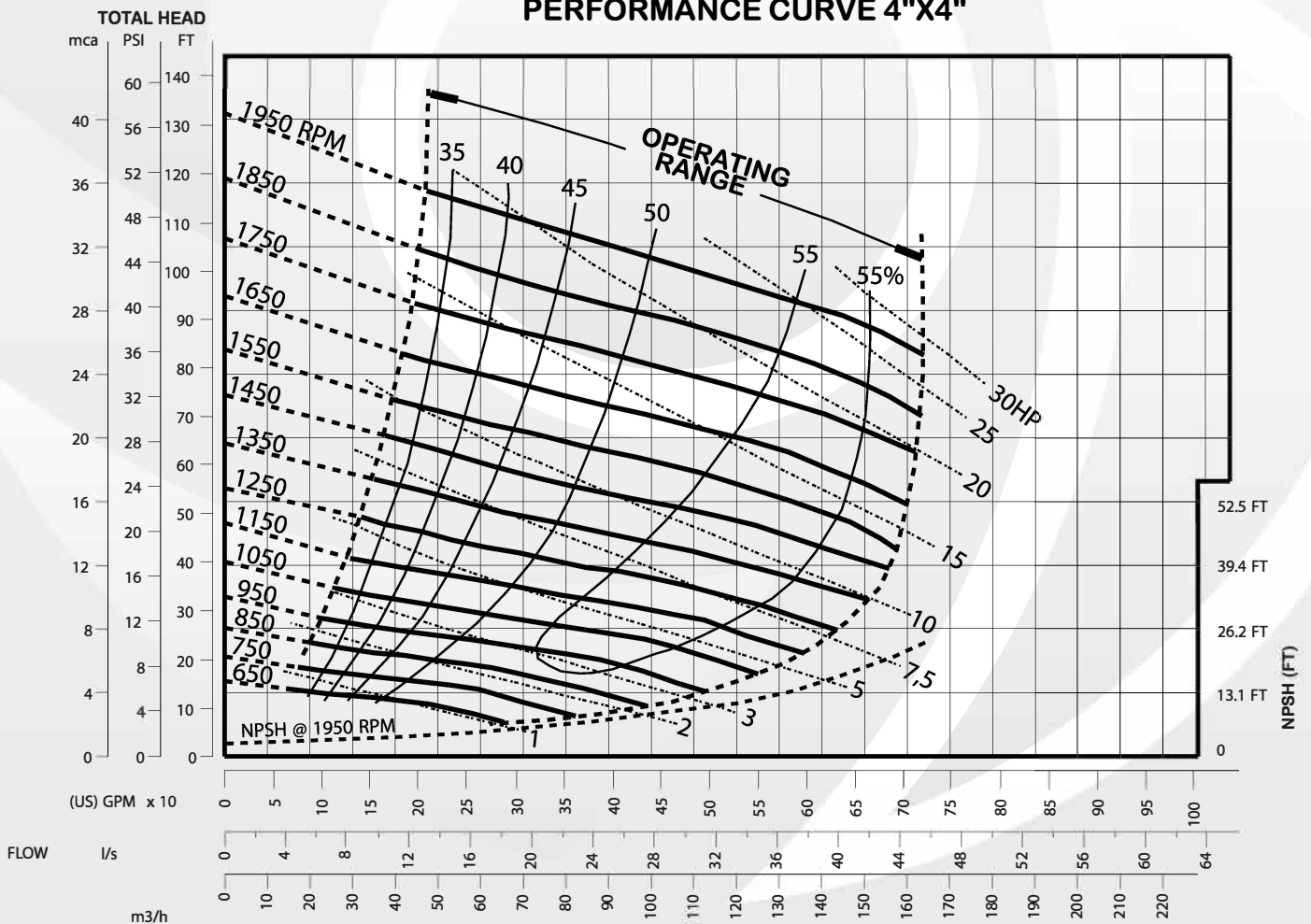
**Net Weight** 600 lbs  
**Impeller Dia.** 9-3/4"  
**R.P.M.** 650rpm-1950rpm  
**Max. Solids** 3"

## SELF-PRIMING

650rpm 5ft - 750rpm 8ft  
 850rpm 16ft - 950rpm 19ft  
 1050rpm 22ft - 1150rpm 24ft  
 1250rpm 25ft - 1350rpm 25ft  
 1450rpm 25ft - 1550rpm 25ft  
 1650rpm 25ft - 1750rpm 25ft  
 1850rpm 25ft - 1950rpm 25ft

Before using this table, check the NPSH.

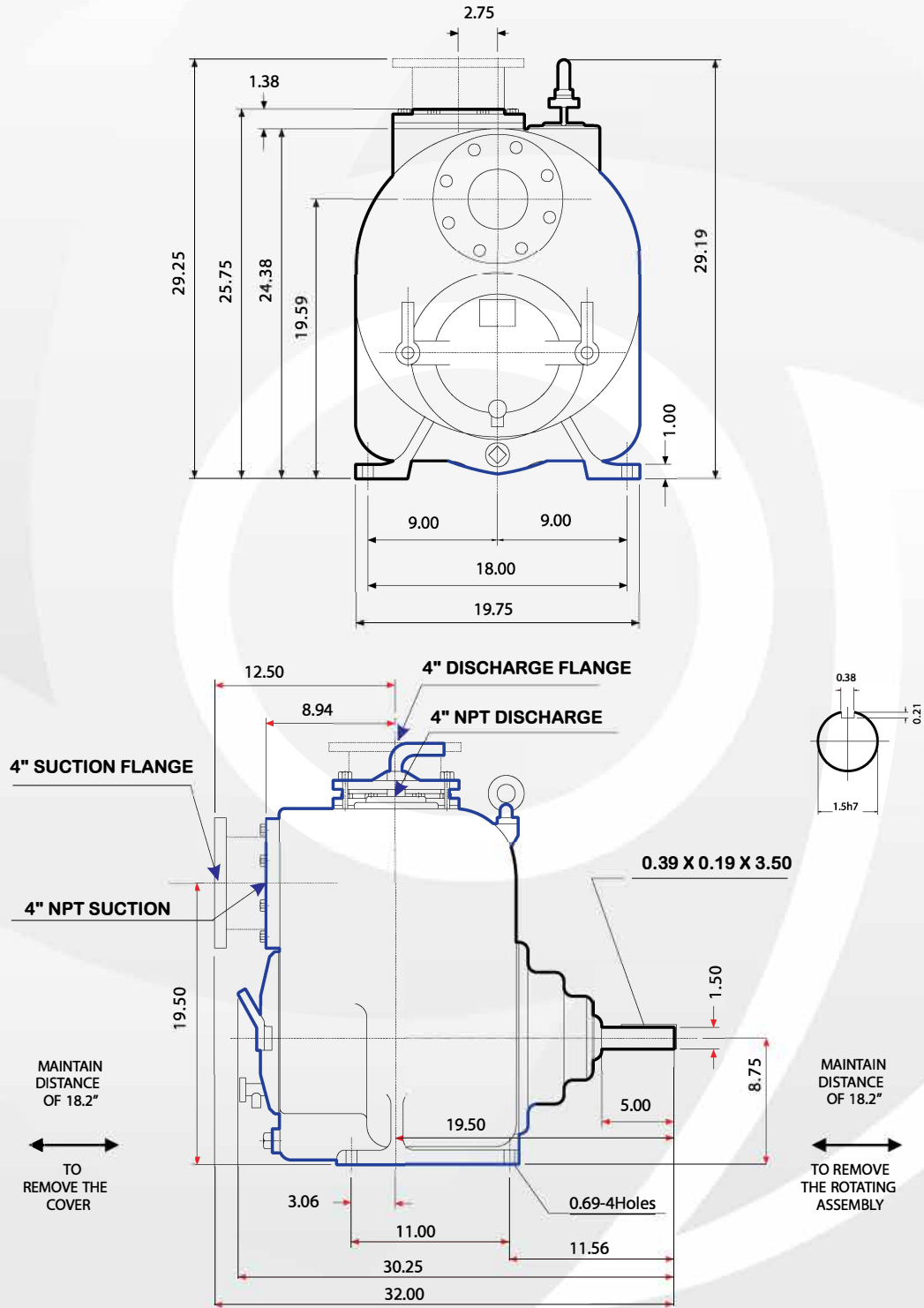
## PERFORMANCE CURVE 4"X4"





# Model-SPP4

## EXTERNAL DIMENSIONS INCHES



# Model-SPP6



## DATA SHEET

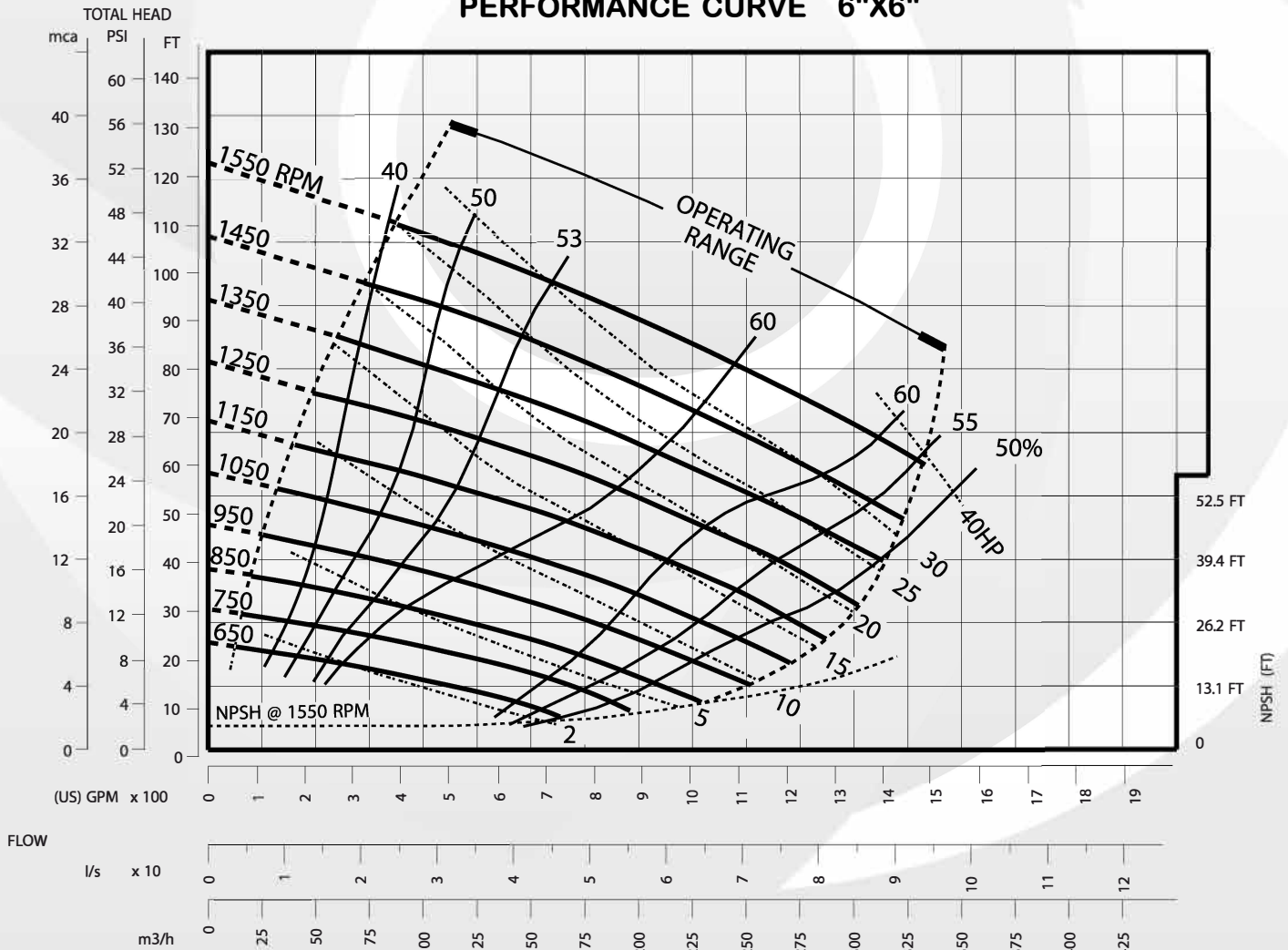
Net Weight	802	bs
Impeller Dia.	1	2-3/8
R.P.M.	650rpm-1550rpm	
Max. Solids	3	

## SELF PRIMING

650rpm	8ft	-	750rpm	9ft
850rpm	12ft	-	950rpm	14ft
1050rpm	18ft	-	1150rpm	21ft
1250rpm	21ft	-	1350rpm	22ft
1450rpm	23ft	-	1550rpm	25ft

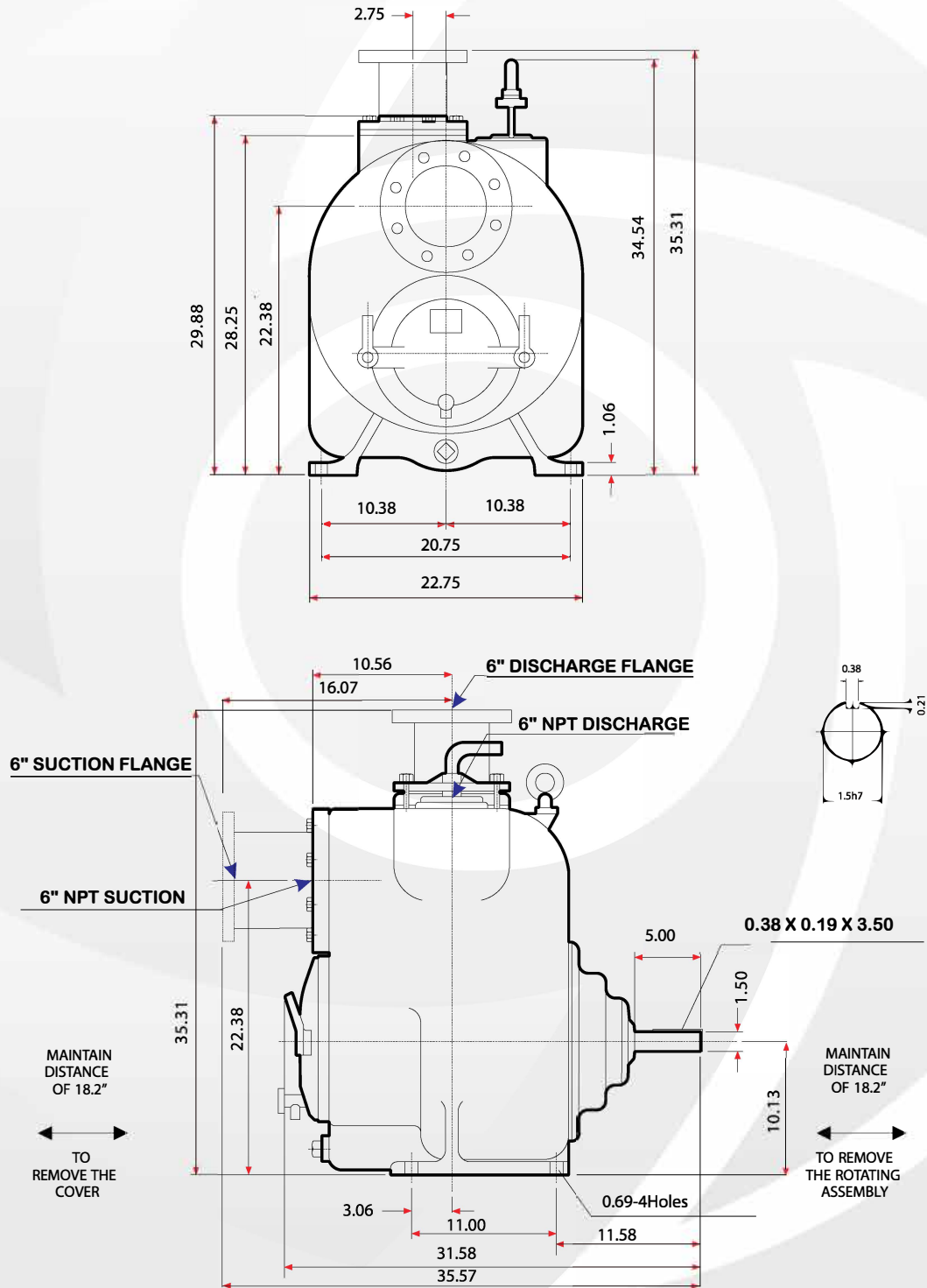
Before using this table, check the NPSH.

## PERFORMANCE CURVE 6"X6"



# Model-SPP6

## EXTERNAL DIMENSIONS INCHES



# Model-SPP8



## DATA SHEET

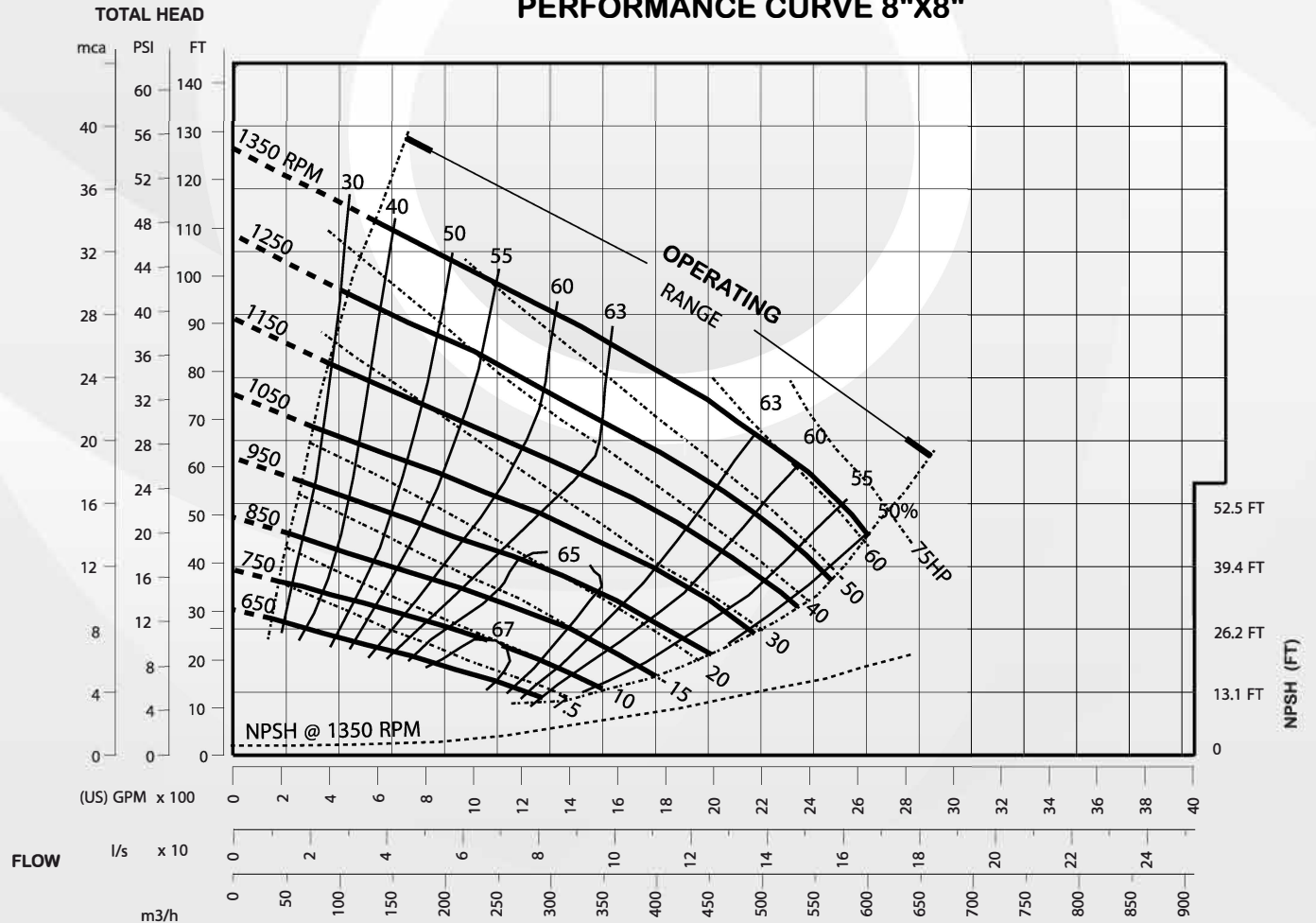
**Net Weight** 1295 lbs  
**Impeller Dia.** 14-3/4"  
**R.P.M.** 650rpm - 1350rpm  
**Max. Solids** 3"

## SELF-PRIMING

650rpm 9ft - 750rpm 12ft  
 850rpm 15ft - 950rpm 17ft  
 1050rpm 20ft - 1150rpm 21ft  
 1250rpm 22ft - 1350rpm 23ft

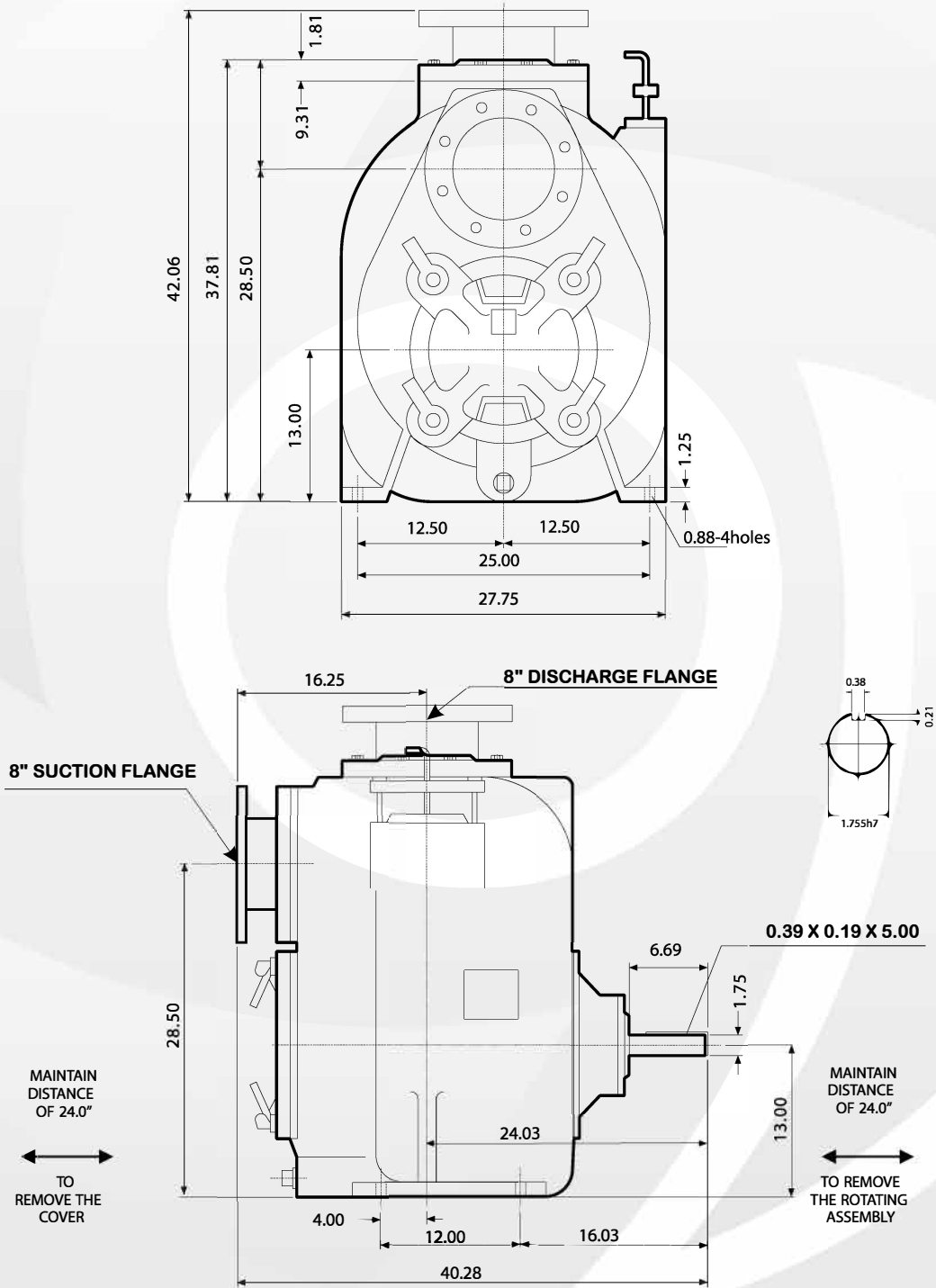
Before using this table, check the NPSH.

### PERFORMANCE CURVE 8"X8"



# Model-SPP8

## EXTERNAL DIMENSIONS INCHES



# Model-SPP10



## DATA SHEET

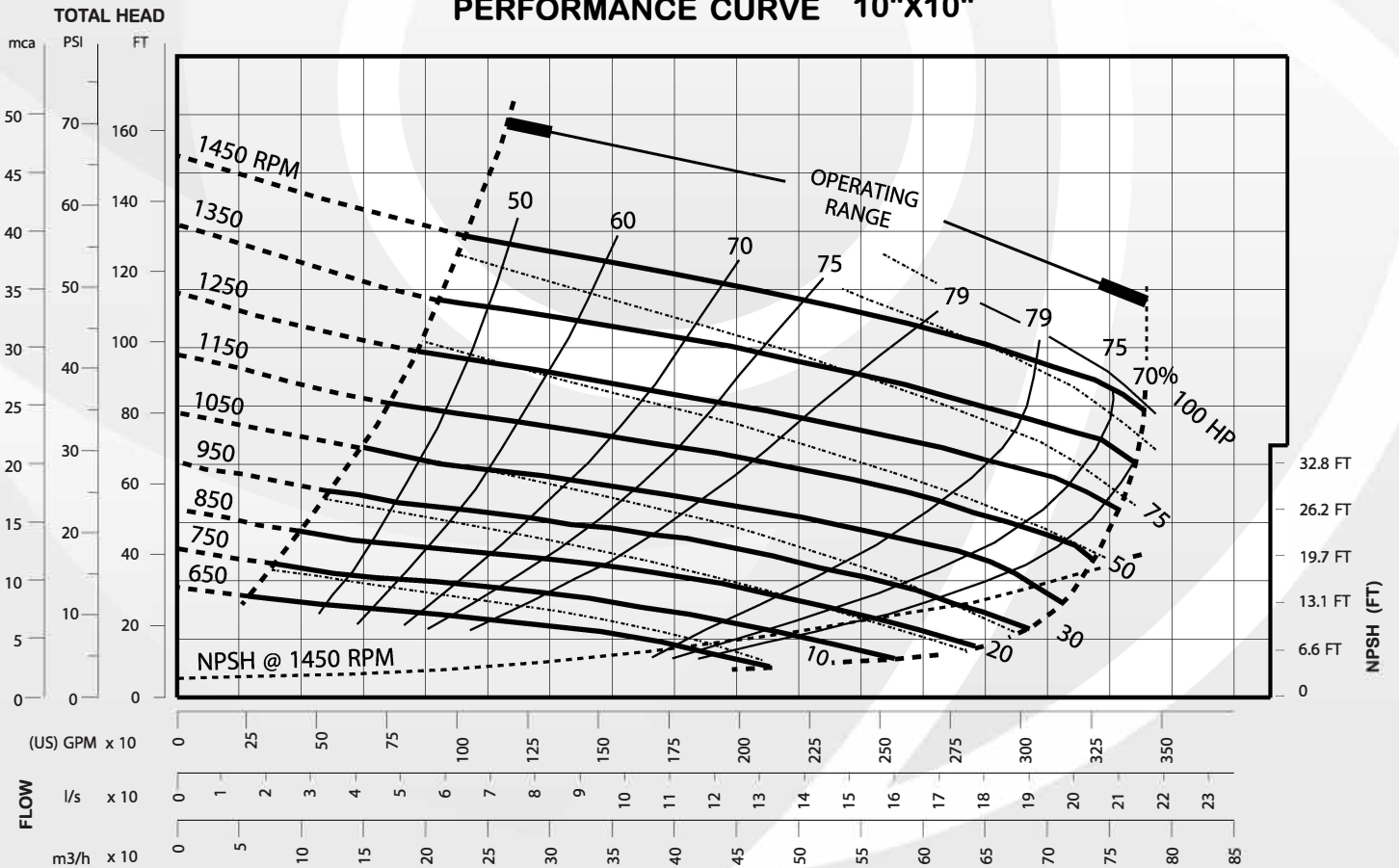
**Net Weight** 1461 lbs  
**Impeller Dia.** 14-3/4"  
**R.P.M.** 650rpm-1450rpm  
**Max. Solids** 3"

## SELF-PRIMING

650rpm 7ft - 750rpm 11ft  
 850rpm 14ft - 950rpm 17ft  
 1050rpm 18ft - 1150rpm 18ft  
 1250rpm 19ft - 1350rpm 22ft  
 1450rpm 22ft

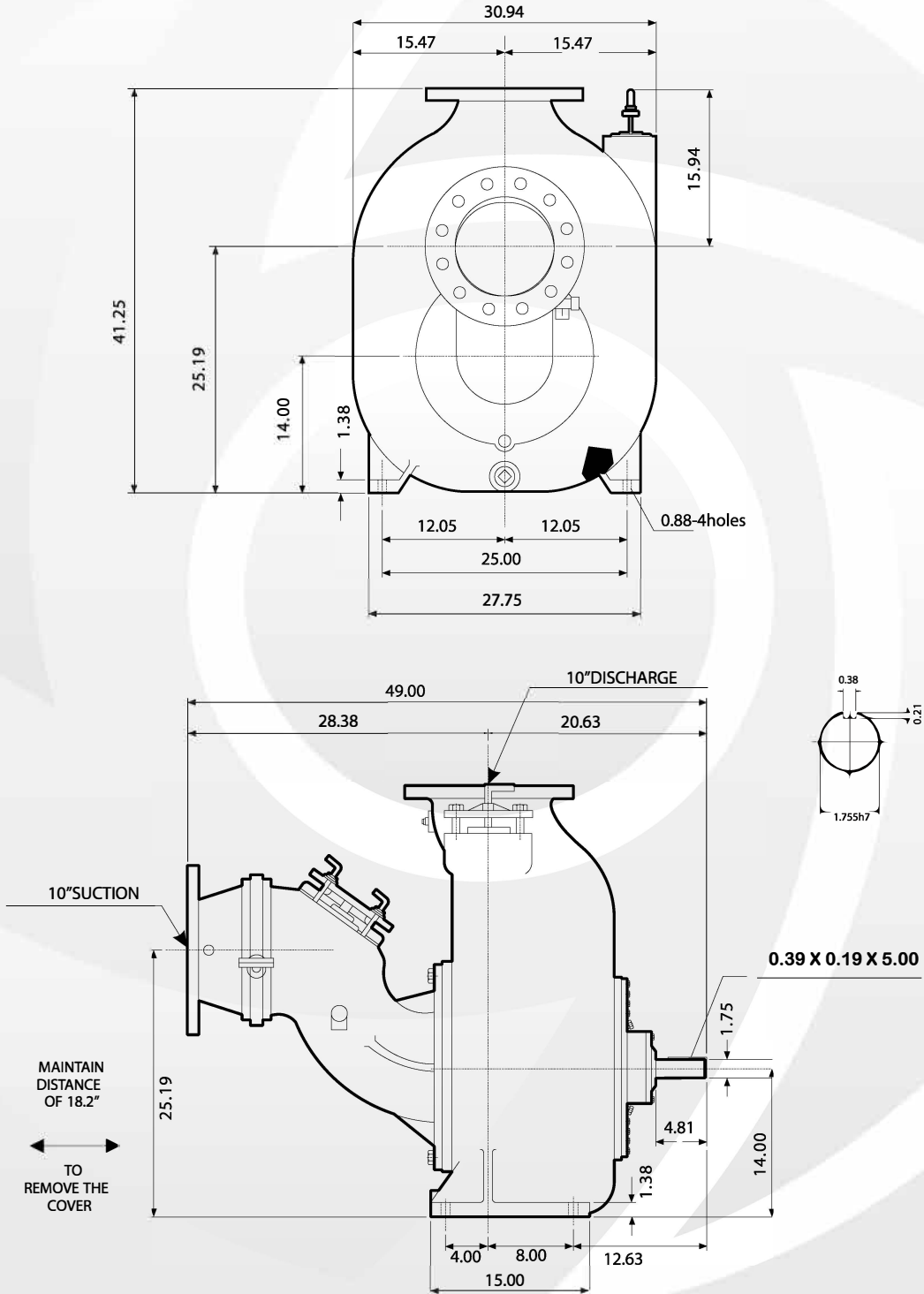
Before using this table, check the NPSH.

## PERFORMANCE CURVE 10"X10"



# Model-SPP10

## EXTERNAL DIMENSIONS INCHES



# Model-SPP12



## DATA SHEET

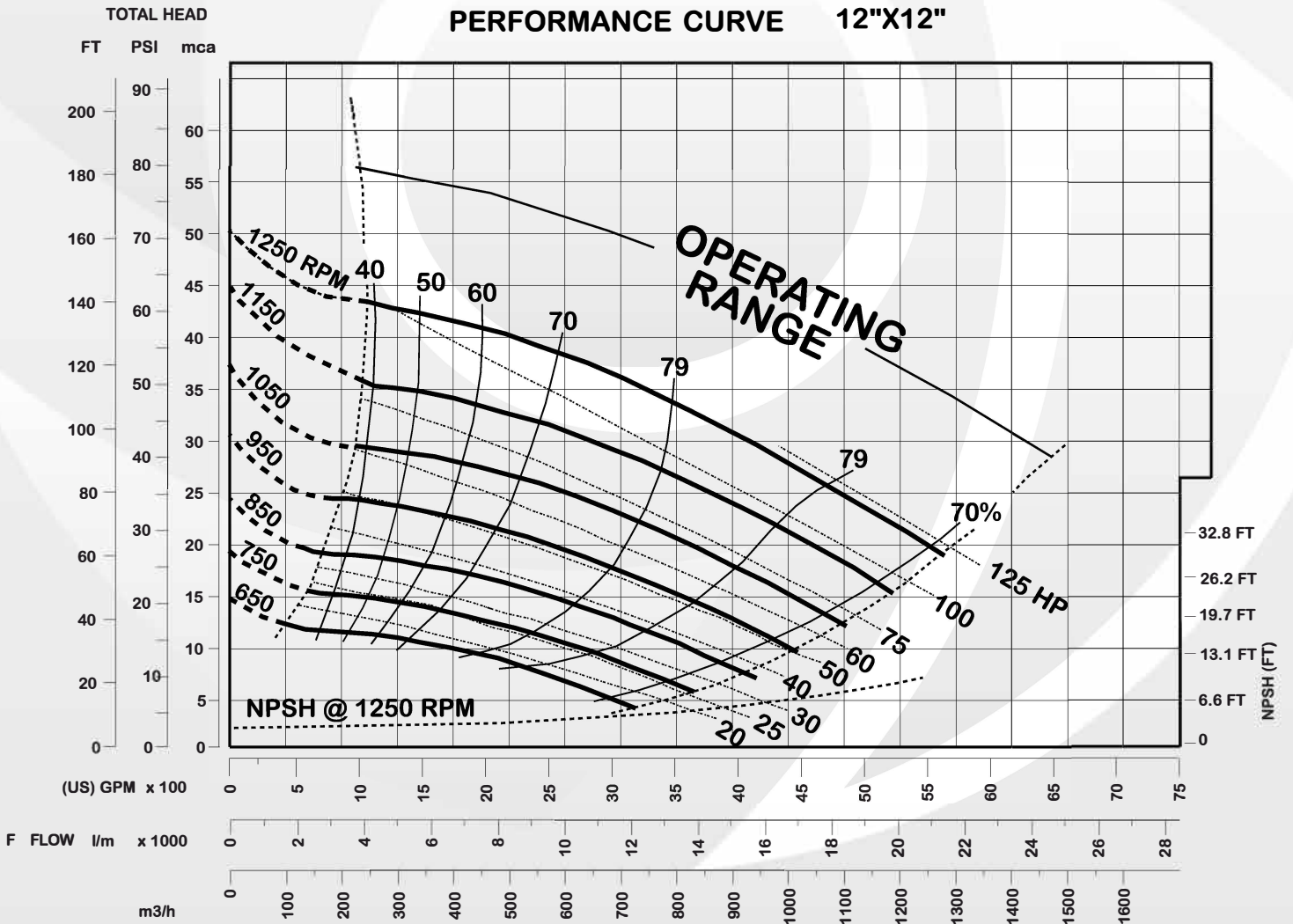
**Net Weight**      2200 lbs  
**Impeller Dia.**    18"  
**R.P.M.**            650rpm-1250rpm  
**Max. Solids**      3"

## SELF-PRIMING

650rpm 5ft - 750rpm 9ft  
 850rpm 13ft - 950rpm 15ft  
 1050rpm 16ft - 1150rpm 16ft  
 1250rpm 16ft

Before using this table, check the NPSH.

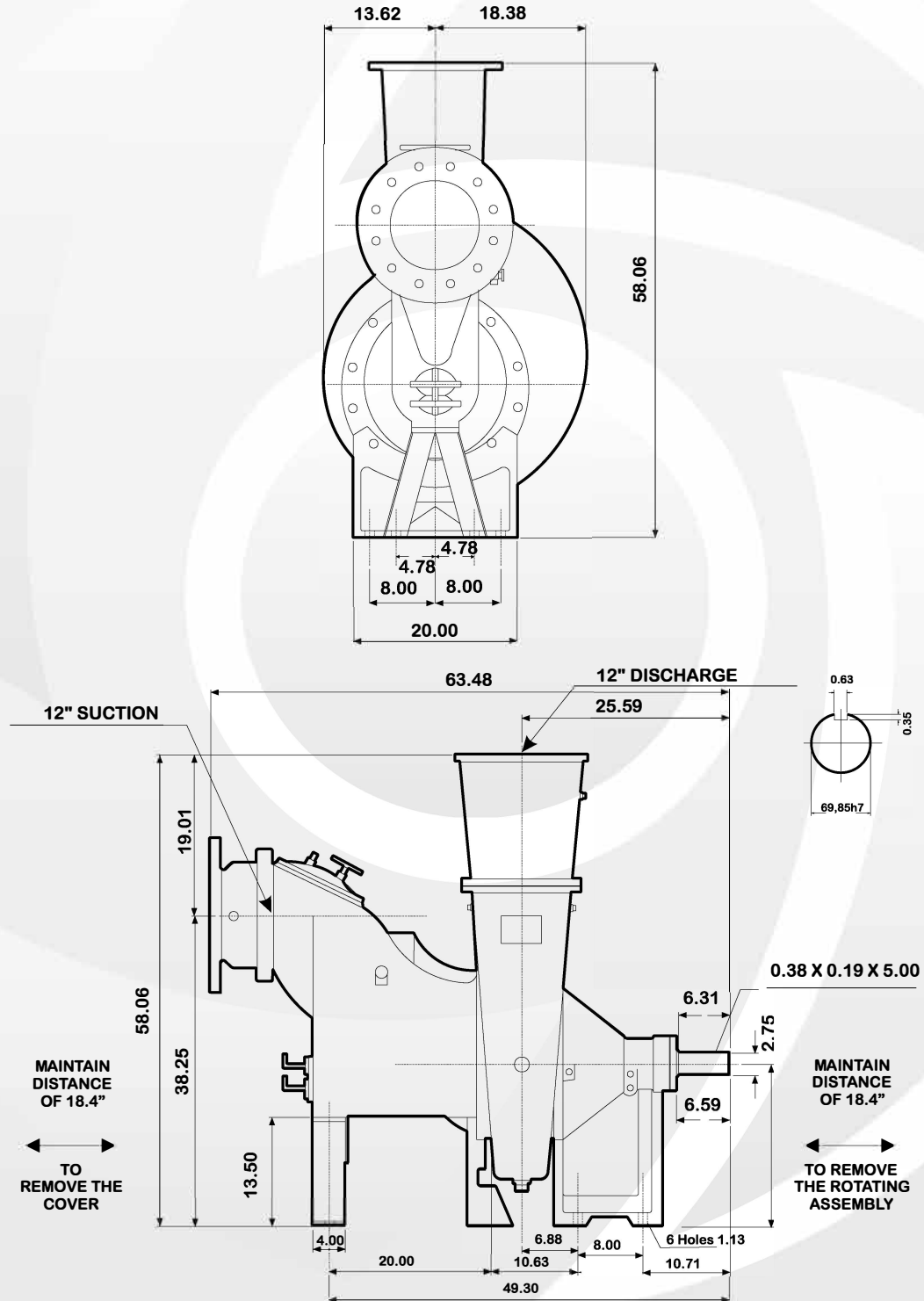
## PERFORMANCE CURVE 12"X12"





# Model-SPP12

## EXTERNAL DIMENSIONS INCHES



# Model-HPSSP3

## DATA SHEET



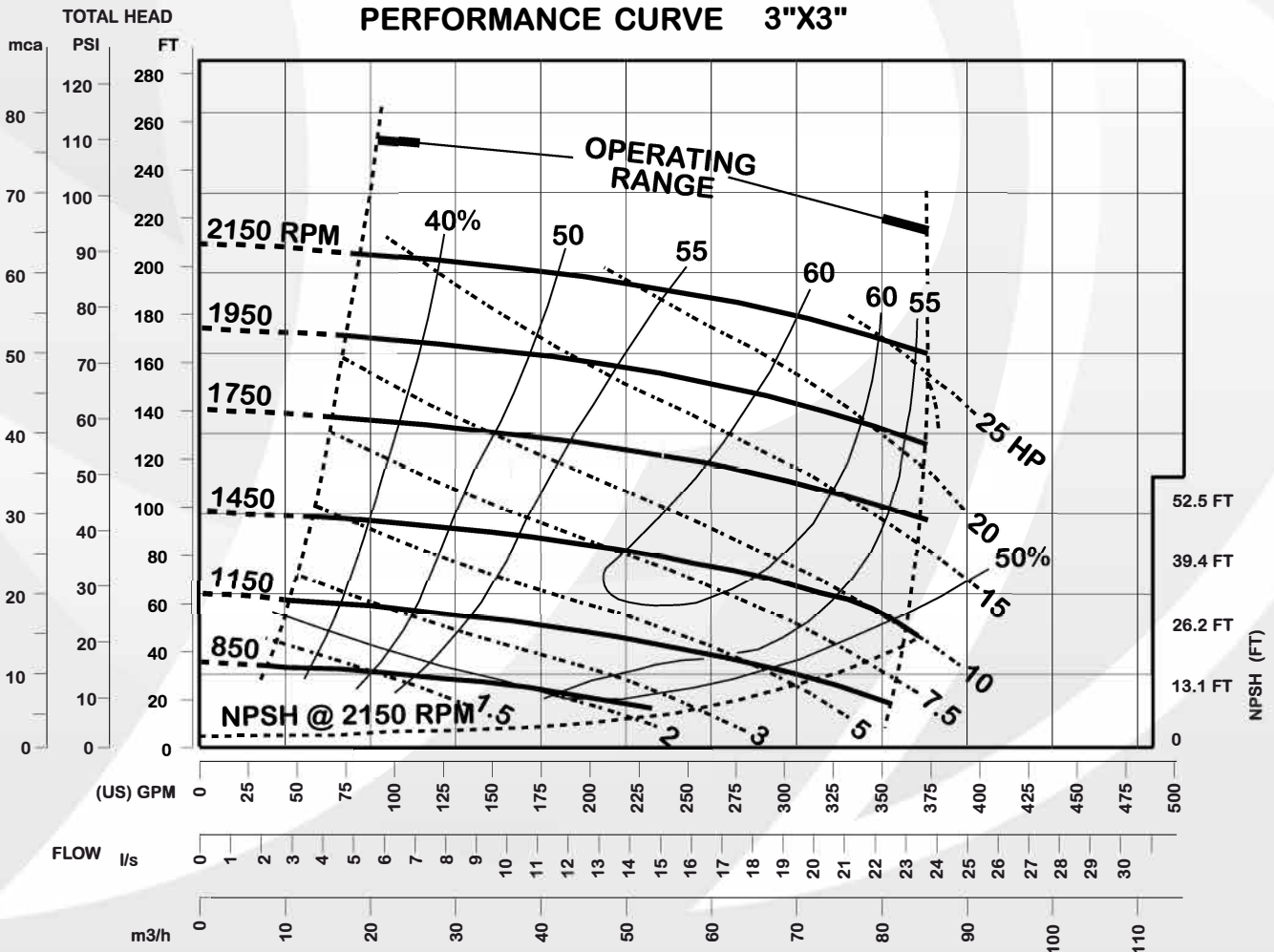
**Net Weight** 472 lbs  
**Impeller Dia.** 11.00"  
**R.P.M.** 850rpm-2150rpm  
**Max. Solids** 13/16"

### SELF-PRIMING

850rpm 7ft - 1150 9ft  
 1450rpm 15ft - 1750rpm 25ft  
 1950rpm 25ft - 2150rpm 25ft

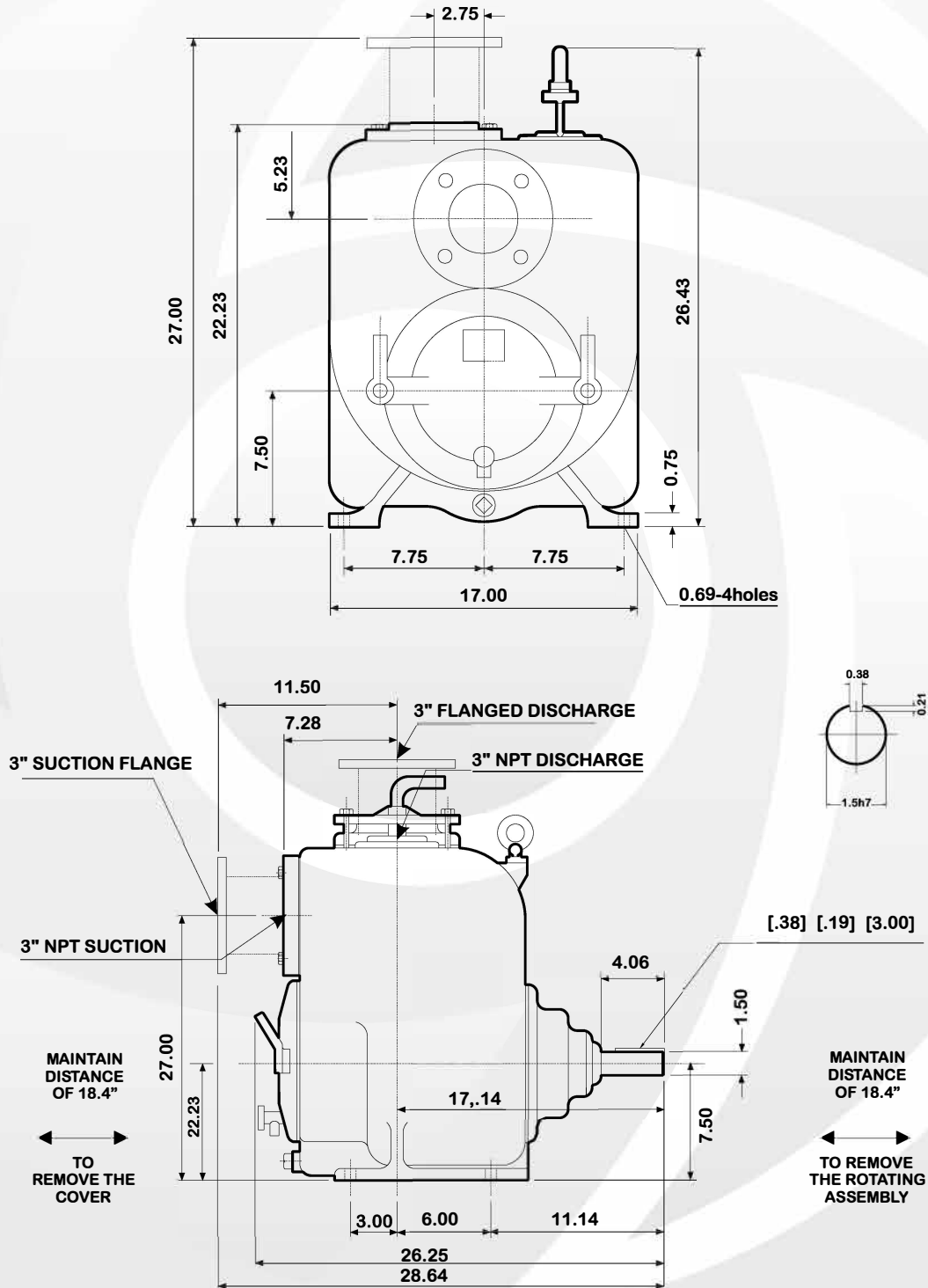
Before using this table, check the NPSH.

## PERFORMANCE CURVE 3"X3"



# Model-HPSP3

## EXTERNAL DIMENSIONS INCHES



# Model-HPSP4



## DATA SHEET

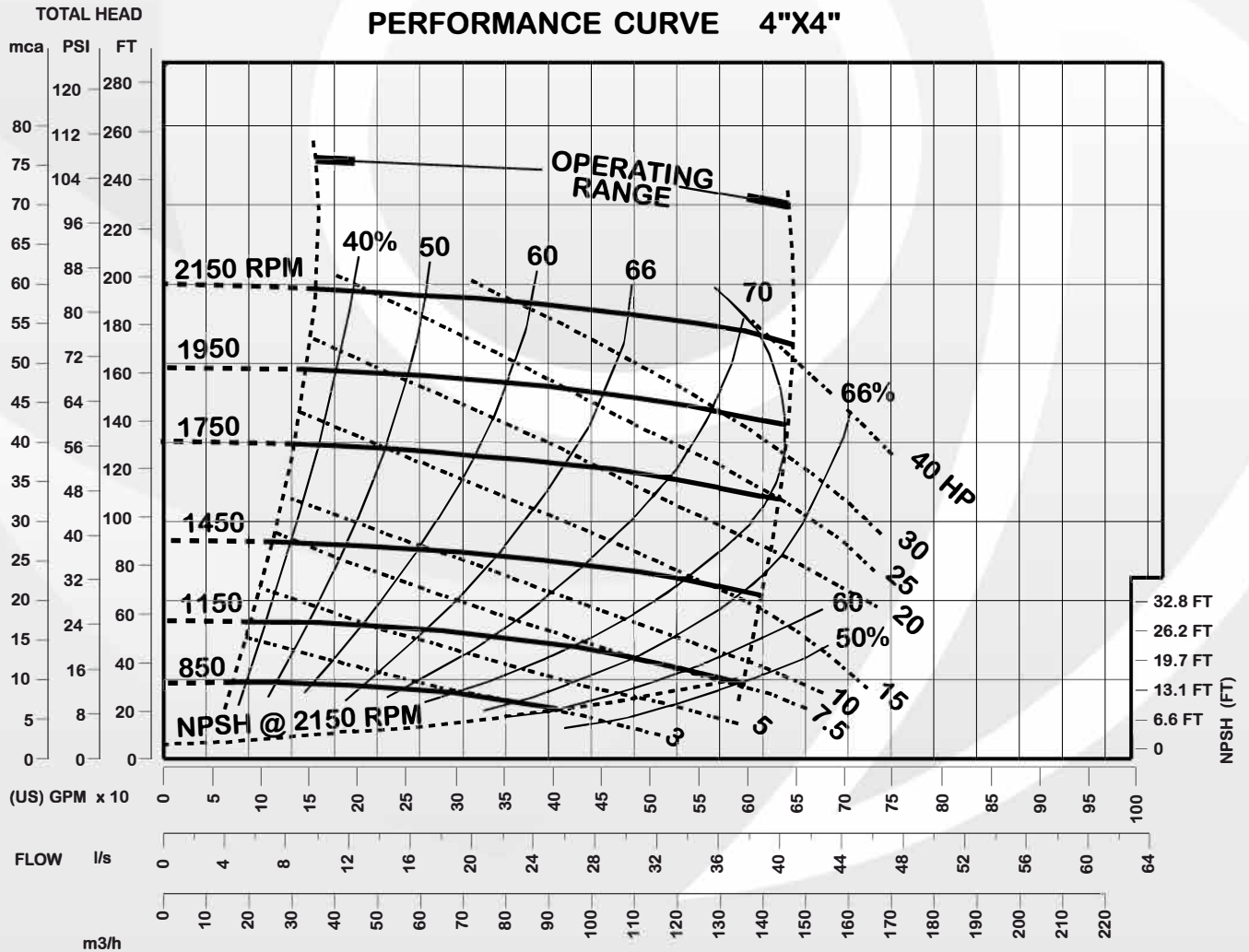
**Net Weight** 600lbs  
**Impeller Dia.** 11"  
**R.P.M.** 850rpm-2150rpm  
**Max. Solids** 1-1/8"

### SELF-PRIMING

850rpm 4ft - 1150rpm 10ft  
 1450rpm 12ft - 1750rpm 13ft  
 1950rpm 15ft - 2150rpm 17ft

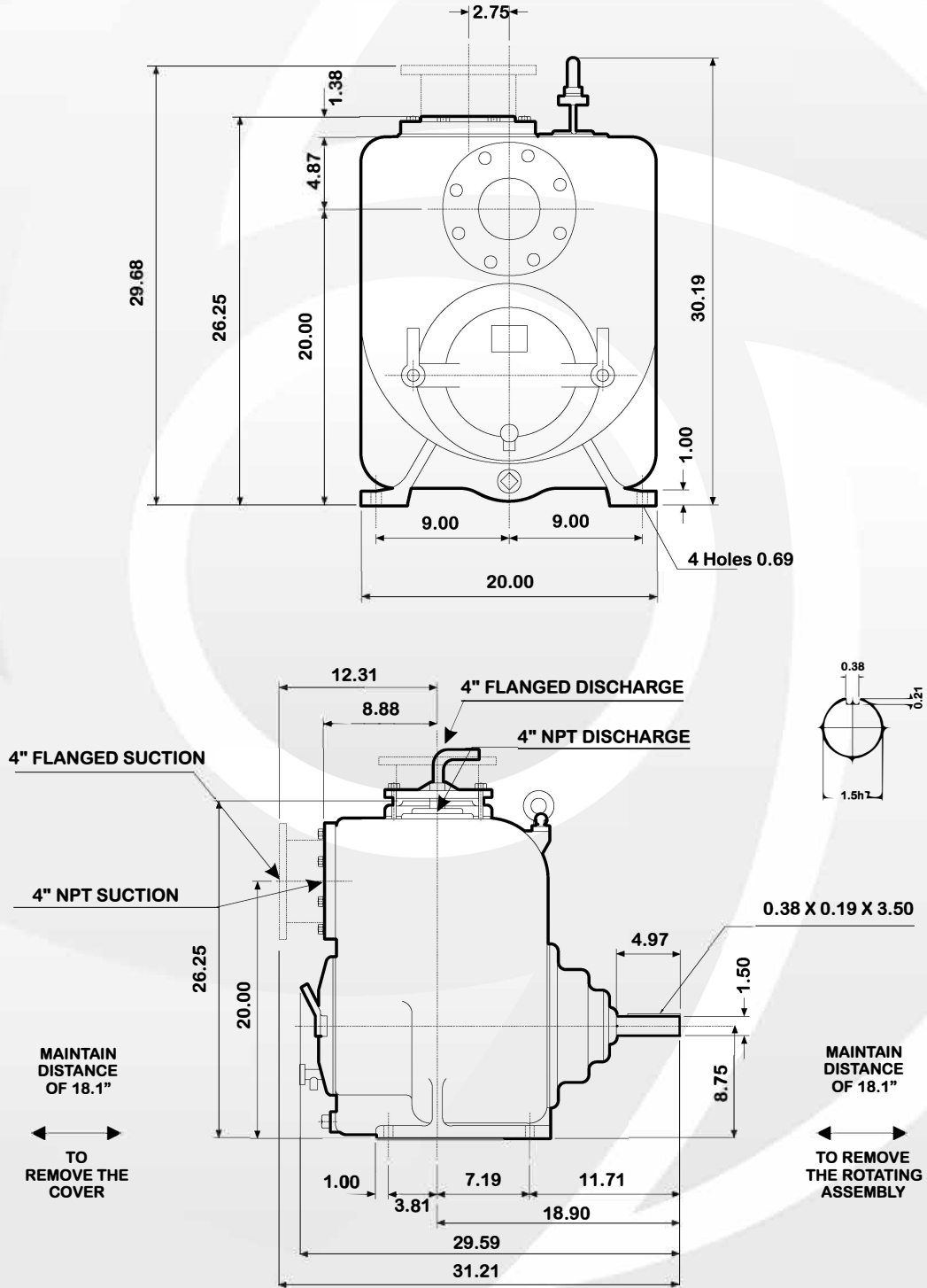
Before using this table, check the NPSH.

## PERFORMANCE CURVE 4"X4"



# Model-HPSP4

## EXTERNAL DIMENSIONS INCHES



# Model-HPSP6



## DATA SHEET

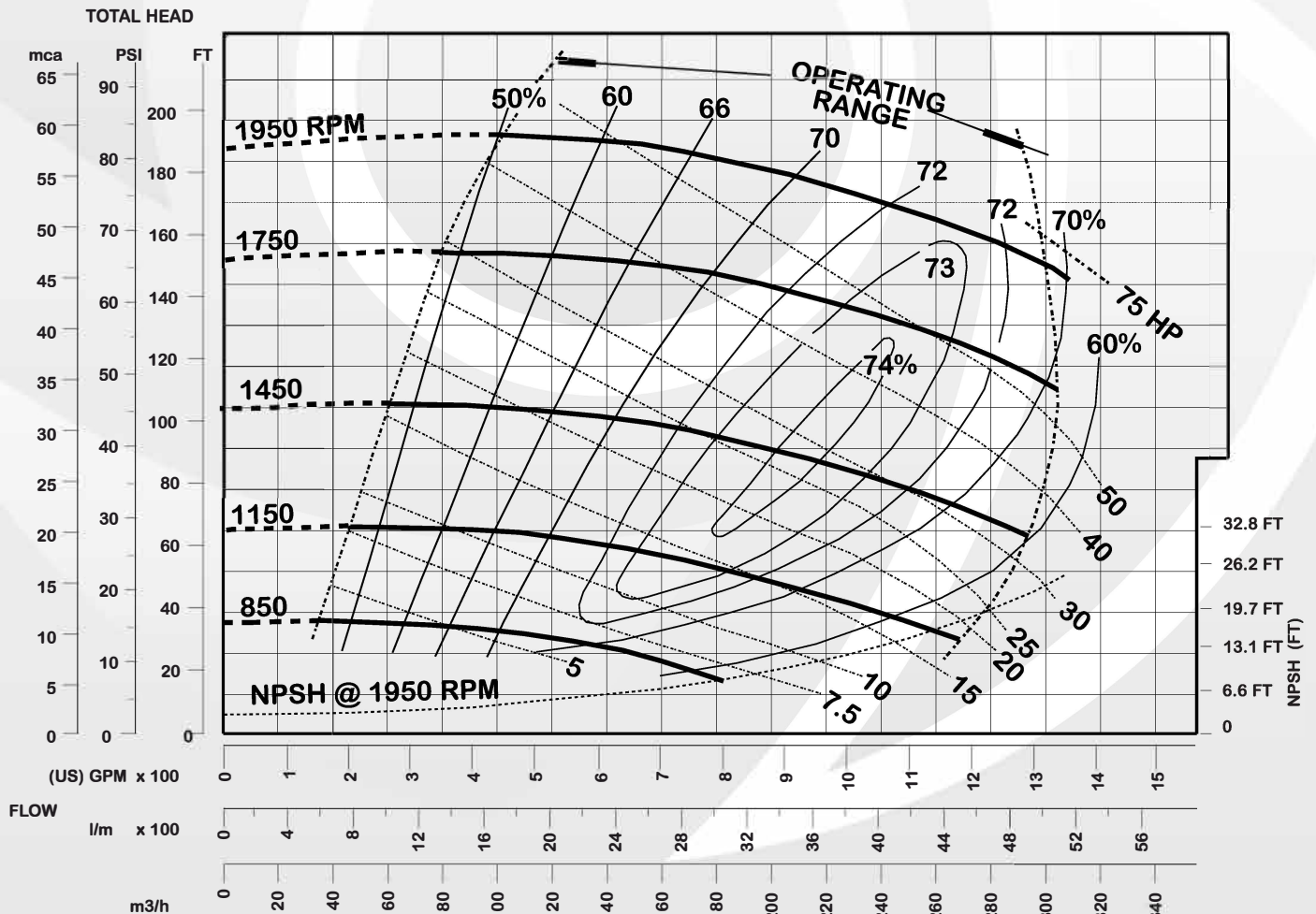
**Net Weight** 913lbs  
**Impeller Dia.** 12-1/2"  
**R.P.M.** 850rpm-1950rpm  
**Max. Solids** 1-1/4"

## SELF-PRIMING

850rpm 8ft - 1150rpm 10ft  
 1450rpm 10ft - 1750rpm 15ft  
 1950rpm 15ftm

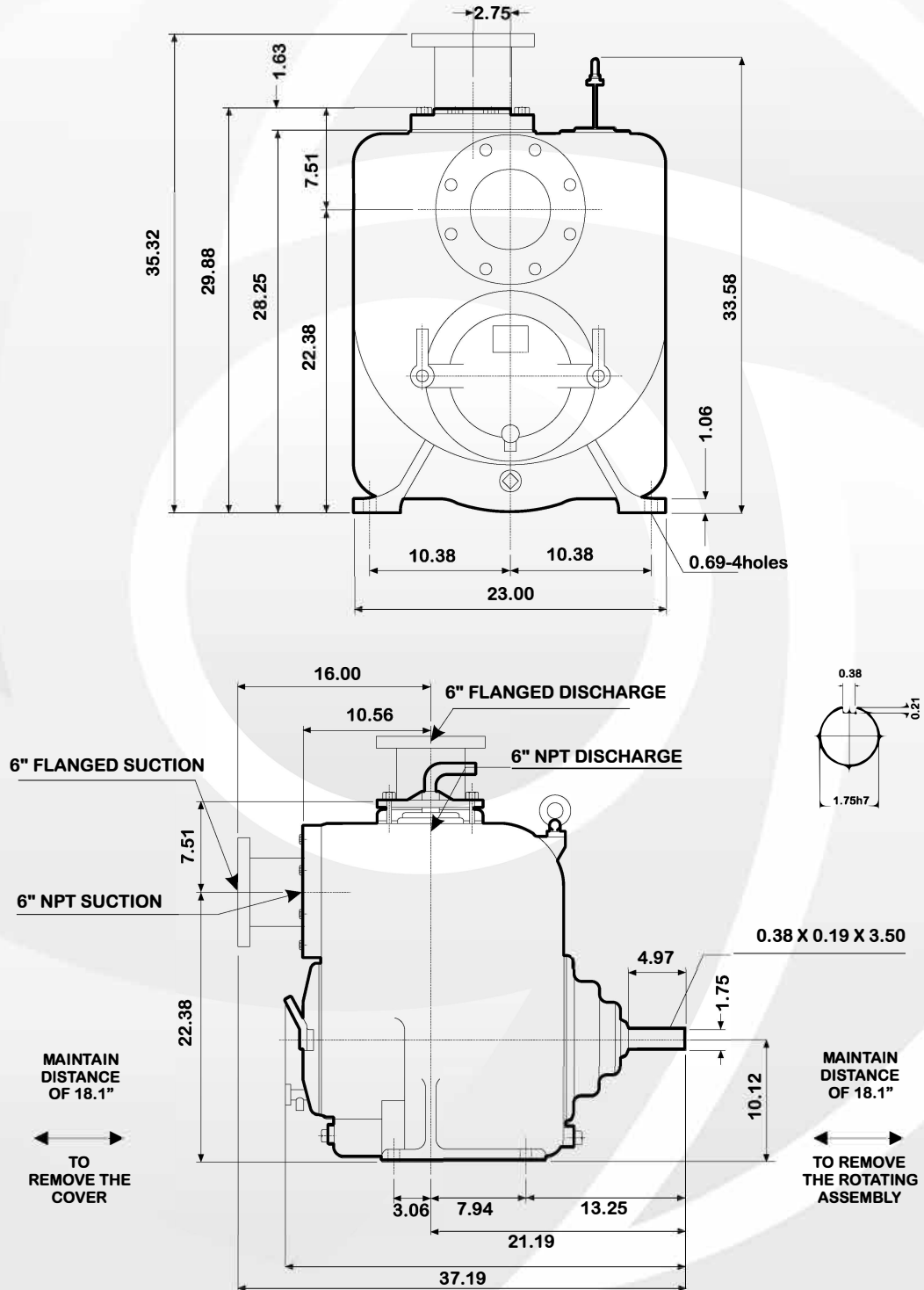
Before using this table, check the NPSH.

## PERFORMANCE CURVE 6"X6"



# Model-HPSP6

## EXTERNAL DIMENSIONS INCHES





A RUTHMAN COMPANY

[www.Gusher.com](http://www.Gusher.com)

## GUSHER PUMPS LOCATIONS

### Williamstown Headquarters

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### Dry Ridge Manufacturing

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**Fax:** 859.824.3011  
**Email:** [Info@Gusher.com](mailto:Info@Gusher.com)

### Dry Ridge Training Facility

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**Phone:** 859.824.5001  
**Email:** [Info@Gusher.com](mailto:Info@Gusher.com)

### California Sales & Service

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Cudahy, CA 90201  
**Phone:** 323.773.0847  
**Fax:** 323.773.0958  
**Email:** [FConrad@Gusher.com](mailto:FConrad@Gusher.com)

### New Castle Sales & Service

403 North Ninth Street  
New Castle, IN 47362  
**Phone:** 765.529.5624  
**Fax:** 765.521.0008  
**Email:** [GusherNC@Gusher.com](mailto:GusherNC@Gusher.com)

### Gusher Pumps, Shanghai

655 Caosheng Rd, Jiading District  
Shanghai, China 201808  
**Phone:** +86 (021) 55151993  
**Email:** [Flomo@Gusher.com](mailto:Flomo@Gusher.com)

## Ruthman Companies: A family-owned business supplying pumps for over 100 years



Ruthman Companies was co-founded in 1912 by brothers Alois and Edward Ruthman as the "Ruthman Machinery Company." Based in Cincinnati, the company serviced the steamboats that traveled the Ohio River.

In 1924, Alois conceived the first sealless centrifugal pump, coining the term 'coolant pump.' The brothers named this new pump "Gusher," giving birth to what is now Ruthman Companies' flagship brand, Gusher Pumps.

Alois' son Thomas R. Ruthman joined the family business in 1949, growing the business globally through organic growth and the acquisition of complementary technologies. In the early 1990's, Alois' grandson, Thomas G. Ruthman, became the third generation of Ruthmans in the pump business. Over the years, Ruthman Companies has expanded its product line from the original centrifugal coolant pumps to include valves, vertical turbine pumps, positive displacement pumps, gear pumps, and other specialized pump equipment, while upholding its reputation as a leader in the custom engineering of pumps for the most challenging applications.

## RUTHMAN COMPANIES MANUFACTURING DIVISIONS

### BSM Pump Corp.

180 Frenchtown Road  
North Kingstown, RI 02852  
**Phone:** 401.471.6350  
**Fax:** 401.471.6370  
**Email:** [Sales@BSMPump.com](mailto:Sales@BSMPump.com)  
[www.BSMPump.com](http://www.BSMPump.com)

### Fulflo Hydraulic Valves

459 East Fancy Street  
Blanchester, OH 45107  
**Phone:** 937.783.2411  
**Fax:** 937.783.4983  
**Email:** [Info@Fulflo.com](mailto:Info@Fulflo.com)  
[www.Fulflo.com](http://www.Fulflo.com)

### Nagle Pumps

1249 Center Avenue  
Chicago Heights, IL 60411  
**Phone:** 708.754.2940  
**Fax:** 708.754.2944  
[www.NaglePumps.com](http://www.NaglePumps.com)

### Process Systems Inc., Headquarters

23633 Pinewood Street  
Warren, MI 48091  
**Phone:** 586.757.5711  
**Fax:** 586.758.6996  
**Email:** [Sales@PSI4Pumps.com](mailto:Sales@PSI4Pumps.com)  
[www.PSI4Pumps.com](http://www.PSI4Pumps.com)

### Process Systems Inc., Midwest Service

485 N. State Route 341 South  
Mellott, IN 47958  
**Phone:** 765.295.2206  
**Fax:** 765.295.2343  
**Email:** [Sales@PSI4Pumps.com](mailto:Sales@PSI4Pumps.com)  
[www.PSI4Pumps.com](http://www.PSI4Pumps.com)

### RAE Pumps

1212 Steng Street  
Cincinnati, OH 45223  
**Phone:** 513.779.3034  
[www.RuthmanCompanies.com](http://www.RuthmanCompanies.com)

### Ruthman Pumps & Service

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Cincinnati, OH 45223  
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**Fax:** + 49 (0) 2401 80489-20  
**Email:** [Info@RuthmannPumpen.de](mailto:Info@RuthmannPumpen.de)  
[www.RuthmannPumpen.de](http://www.RuthmannPumpen.de)

## RUTHMAN COMPANIES HEADQUARTERS

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**Phone:** 513.559.1901  
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**RUTHMAN**  
Engineering Pump Solutions™