

3 X 4 MISSION MAGNUM SANDMASTER

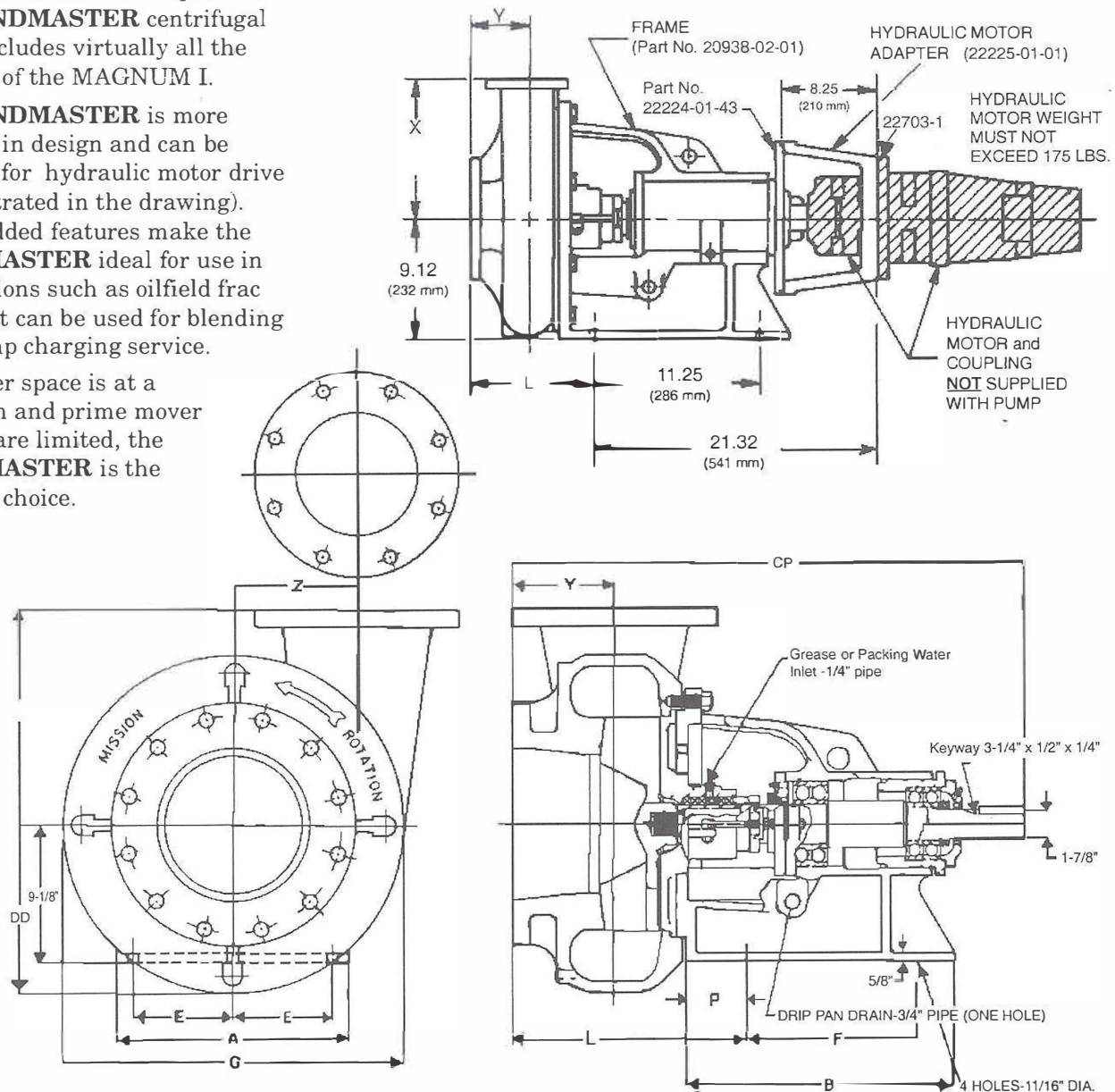
Compact and adaptable

The **SANDMASTER** centrifugal pump includes virtually all the features of the **MAGNUM I**.

The **SANDMASTER** is more compact in design and can be adapted for hydraulic motor drive (as illustrated in the drawing). These added features make the **SANDMASTER** ideal for use in applications such as oilfield frac trucks. It can be used for blending and pump charging service.

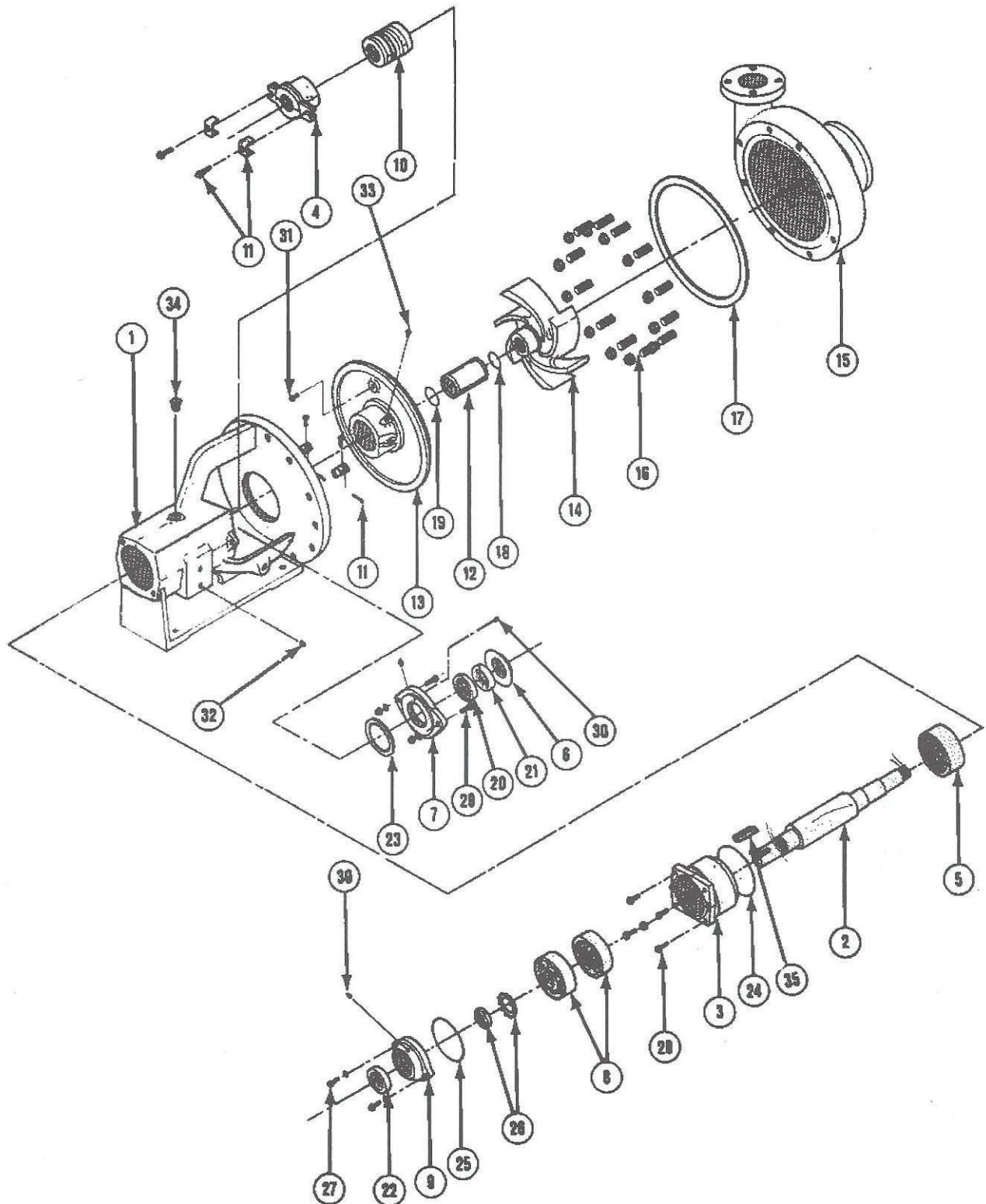
Wherever space is at a premium and prime mover options are limited, the **SANDMASTER** is the pump of choice.

SANDMASTER with a hydraulic motor adapter.



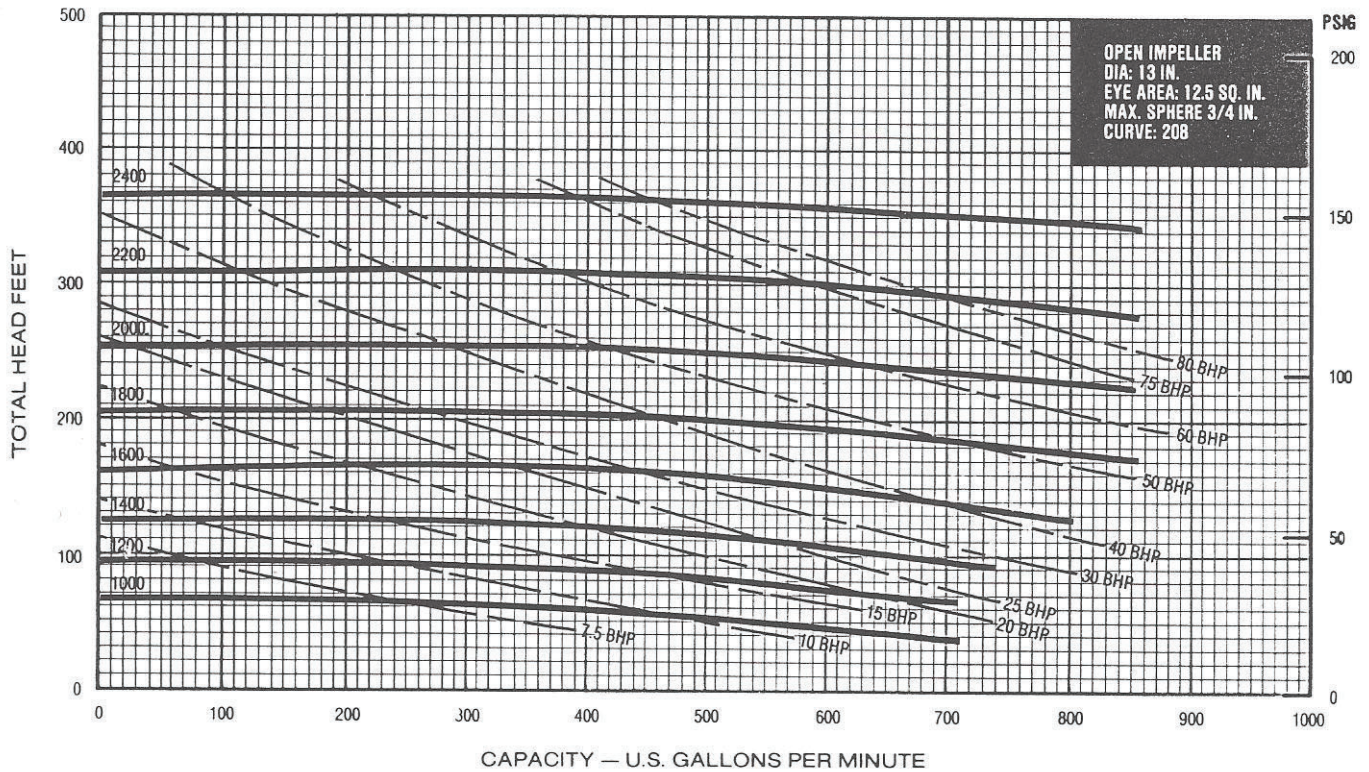
Pump Size	Dimensions In Inches											WT. LBS.	
	A	B	E	F	G	L	P	X	Y	Z	CP		DD
3x2x13	15 1/4	17 3/4	6 9/16	11 1/4	17 7/8	10 7/16	4	10 1/4	3 3/4	7	28 13/16	8 15/16	475
4x3x13	15 1/4	17 3/4	6 9/16	11 1/4	17 7/8	11 1/16	4	10 1/4	4 1/4	6 3/4	29 7/16	8 15/16	491
5x4x14	15 1/4	17 3/4	6 9/16	11 1/4	19	12 7/16	4	11	5	6 1/8	30 13/16	9 1/2	520
6x5x11	15 1/4	17 3/4	6 9/16	11 1/4	17 7/8	13 3/4	4	11	5 3/4	6	32 1/8	8 15/16	550
6x5x14	15 1/4	17 3/4	6 9/16	11 1/4	21	13 3/4	4	11	5 3/4	6	32 1/8	10 1/2	609
8x6x11	15 1/4	17 3/4	6 9/16	11 1/4	20	14 15/16	4	14	6 1/4	8 3/8	33 5/16	10	659
8x6x14	15 1/4	17 3/4	6 9/16	11 1/4	23 9/16	14 15/16	4	14	6 1/4	8 3/8	33 5/16	11 13/16	701
10x8x14	15 1/4	17 3/4	6 9/16	11 1/4	22 3/8	15 3/8	4	14 3/16	6 11/16	8	33 3/4	11 3/16	705

250 SERIES

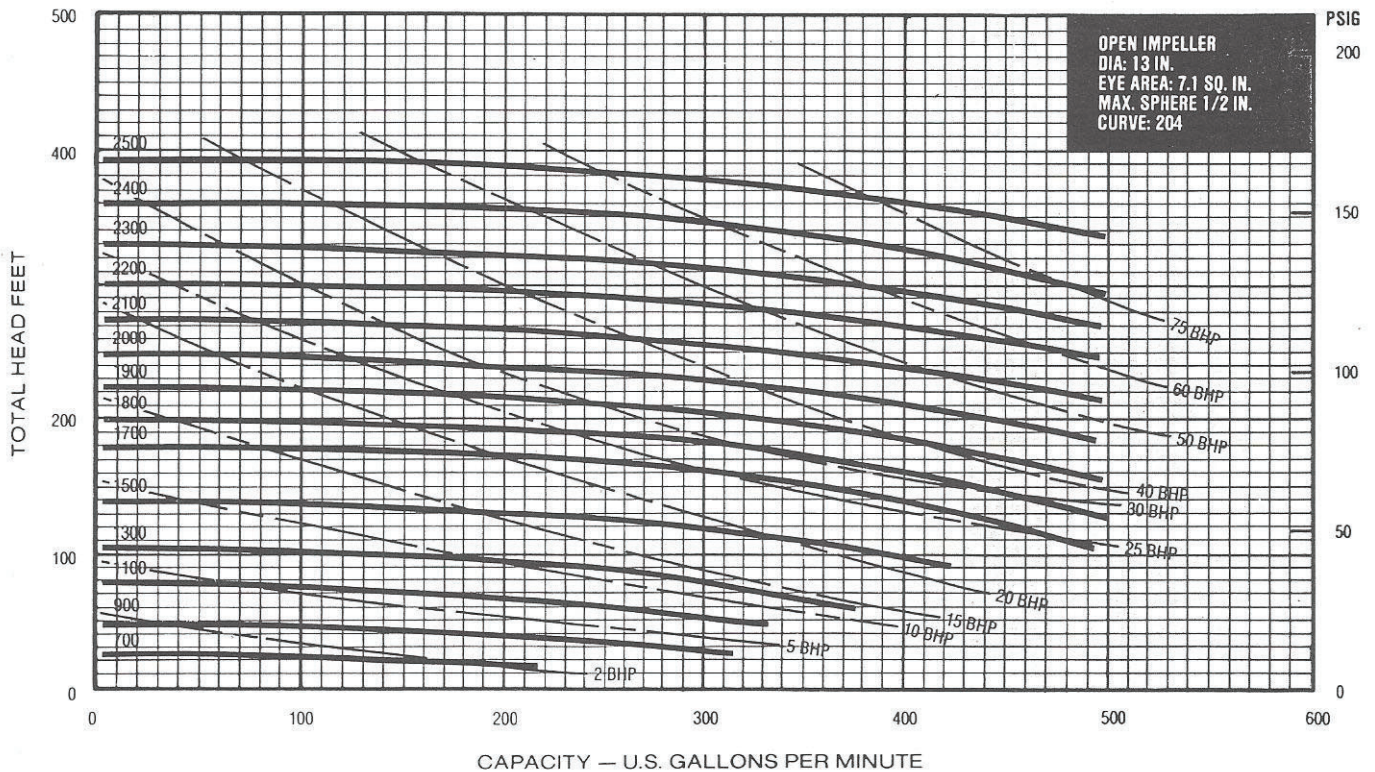


250 SERIES

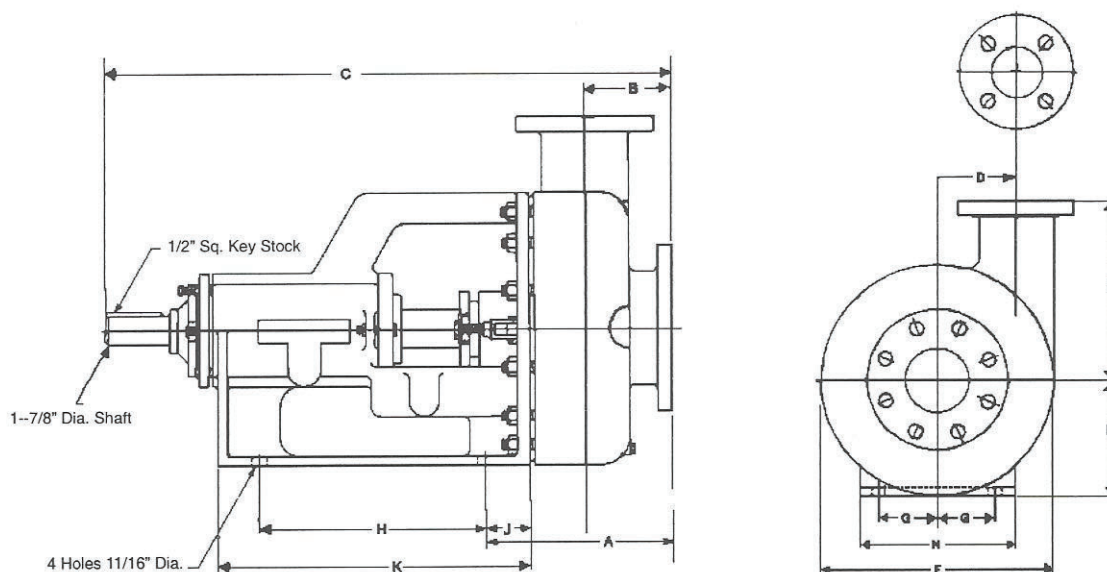
3 x 4 x 13 1000-2400 RPM



2 x 3 x 13 700-2500 RPM



250 SERIES DIMENSIONAL DATA CENTRIFUGAL PUMP



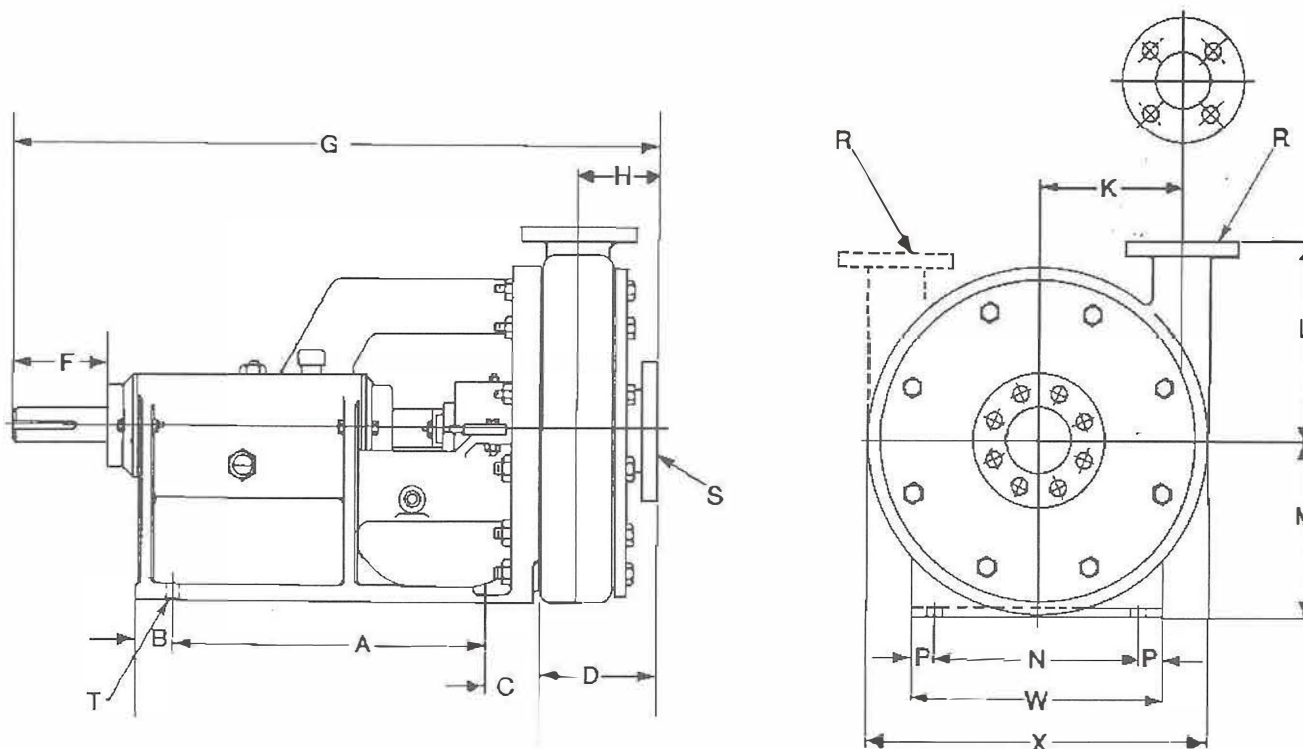
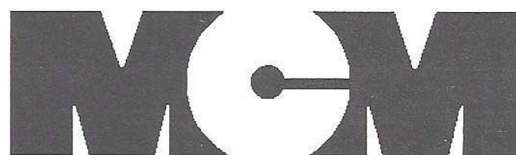
PEDESTAL, HOUSING & INSTALLATION DIMENSIONS

SIZE	2x3x13	3x4x13	4x5x14	5x6x11	5x6x14	6x8x11	6x8x14
DIMENSION							
A	8-3/4	9-3/8	10-3/4	12-1/16	12-1/16	13-1/4	13-1/4
B	3-3/4	4-1/4	5	5-3/4	5-3/4	6-3/4	6-3/4
C	33	33-5/8	35	36-3/8	36-3/8	37-1/2	37-1/2
D	7	6-3/4	6-1/8	6	6	8-3/8	8-3/8
E	10-1/4	10-1/4	11	11	11	14	14
F	17-7/8	17-7/8	19	17-7/8	21	20	23
G	3-1/2	3-1/2	3-1/2	3-1/2	3-1/2	3-1/2	3-1/2
H	15-7/16	15-7/16	15-7/16	15-7/16	15-7/16	15-7/16	15-7/16
J	2-5/16	2-5/16	2-5/16	2-5/16	2-5/16	2-5/16	2-5/16
K	19-5/8	19-5/8	19-5/8	19-5/8	19-5/8	19-5/8	19-5/8
M	9	9	9	9	9	9	9
N	9	9	9	9	9	9	9
Max. Impeller Dia.	13	13	14	11	14	11	14
Min. Impeller Dia.	6	6	7	8	10	8	10
Suction Size	3	4	5	6	6	8	8
Discharge Size	2	3	4	5	5	6	6
Weight - Lbs.	430	440	490	520	550	610	630

FLANGE SIZES

FLANGE SIZE	I.D.	O.D.	B.C.	NO. OF HOLES	SIZE OF HOLES	THICKNESS
2	2	6	4-3/4	4	3/4	5/8
3	3	7-1/2	6	4	3/4	3/4
4	4	9	7-1/2	8	3/4	15/16
5	5	10	8-1/2	8	7/8	15/16
6	6	11	9-1/2	8	7/8	1
8	8	13-1/2	11-3/4	8	7/8	1-1/8

178 SERIES DIMENSIONAL DATA CENTRIFUGAL PUMP



Pedestal, Housing, & Installation Dimensions

PUMP SIZE	A	B	C	D	F	G	H	K	L	M	N	P	R	S	T	W	X
2x3	16-1/2	1-11/16	2-1/4	6	5	33-1/2	4	7	10-1/4	9	7	1	2	3	(4)-11/16	9	18
3x4	16-1/2	1-11/16	2-1/4	6-3/8	5	34-1/2	4-1/4	7-1/2	10-1/4	9	7	1	3	4	(4)-11/16	9	18
4x5	16-1/2	1-11/16	2-1/4	6-3/8	5	35-3/4	5-1/2	7	11	9	7	1	4	5	(4)-11/16	9	18
5x6	16-1/2	1-11/16	2-1/4	8-3/4	5	36-3/4	5-3/4	6	11	9	7	1	6	8	(4)-11/16	9	18
6x8	16-1/2	1-11/16	2-1/4	10-1/8	5	37-7/8	6-1/4	8-3/8	14-1/4	9	7	1	6	8	(4)-11/16	9	23

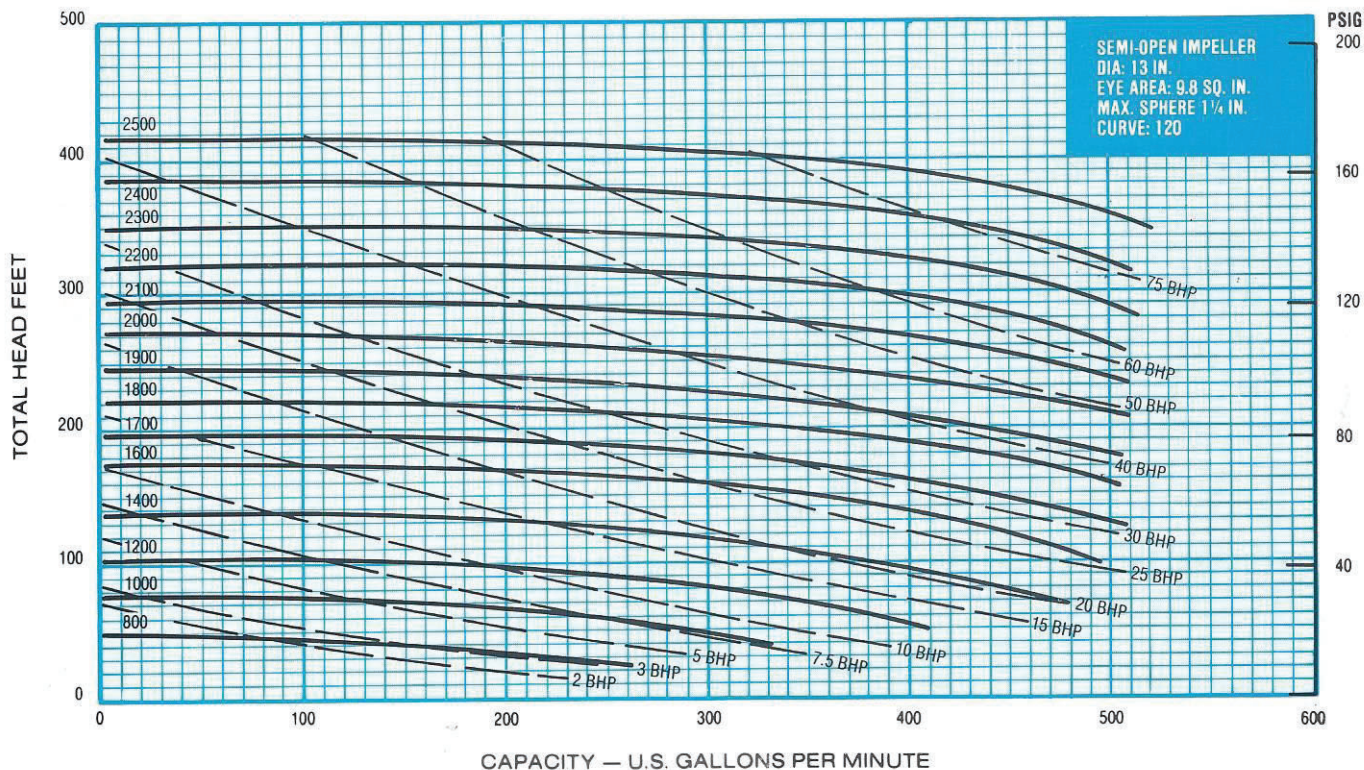
FLANGE SIZES

Pump Size	Pump Type (Shaft Dia.)	Discharge Pipe		Suction Pipe	
		SIZE	DRILLING	SIZE	DRILLING
2x3-R & L	1-7/8	2	4 Holes 3/4 Dia. 4-3/4 B.C.	3	4 Holes 3/4 Dia. 6 B.C.
3x4-R & L	1-7/8	3	8 Holes 3/4 Dia. 6 B.C.	4	8 Holes 3/4 Dia. 7-1/2 B.C.
4x5-R & L	1-7/8	4	8 Holes 3/4 Dia. 7-1/2 B.C.	5	8 Holes 7/8 Dia. 8-1/2 B.C.
5x6-R & L	1-7/8	5	8 Holes 7/8 Dia. 8-1/2 B.C.	6	8 Holes 7/8 Dia. 9-1/2 B.C.
6x8- R & L	1-7/8	6	8 Holes 7/8 Dia. 9-1/2 B.C.	8	8 Holes 7/8 Dia. 11-3/4 B.C.

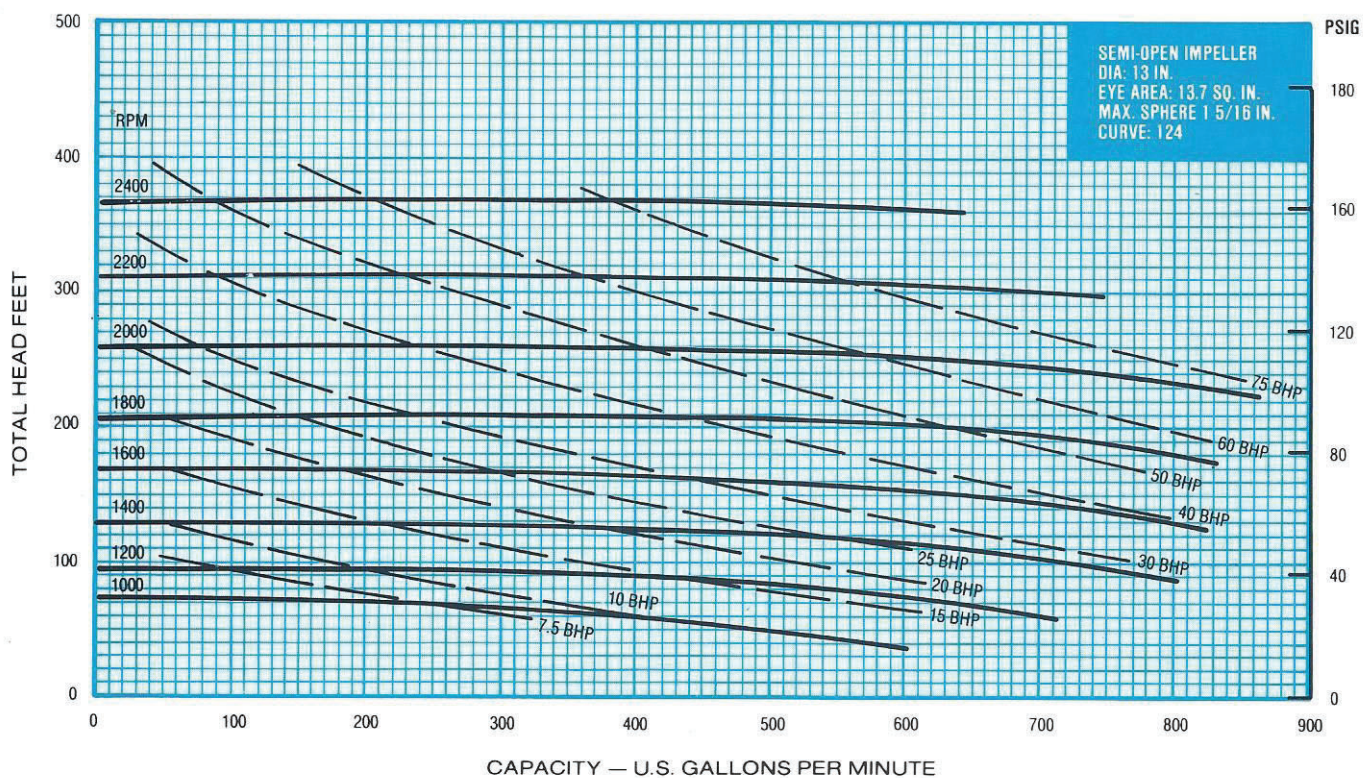
178 SERIES

Curves show performance with clear water. If specific gravity is other than 1.0, curve HP must be corrected.

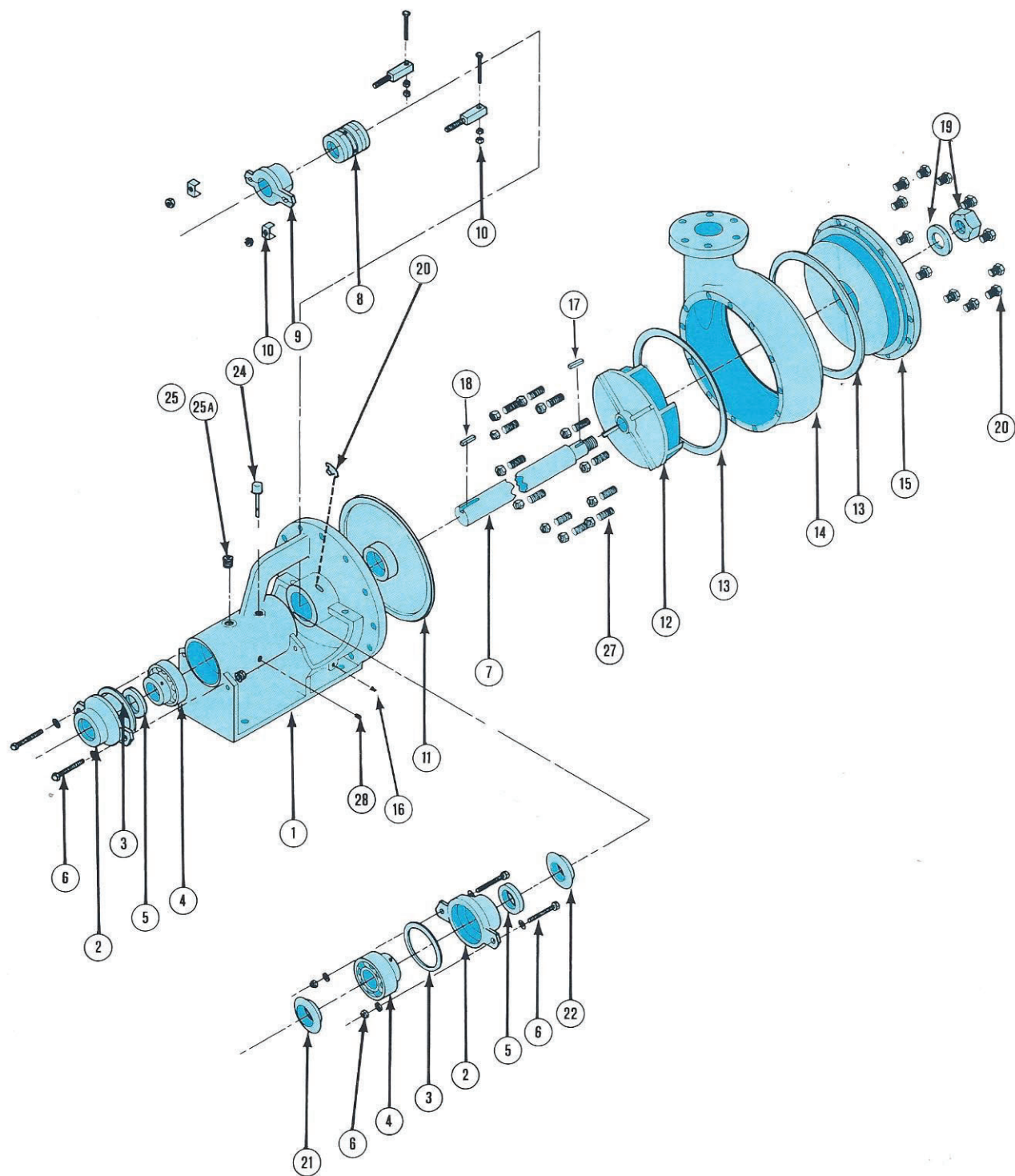
2 x 3 700-2500 RPM



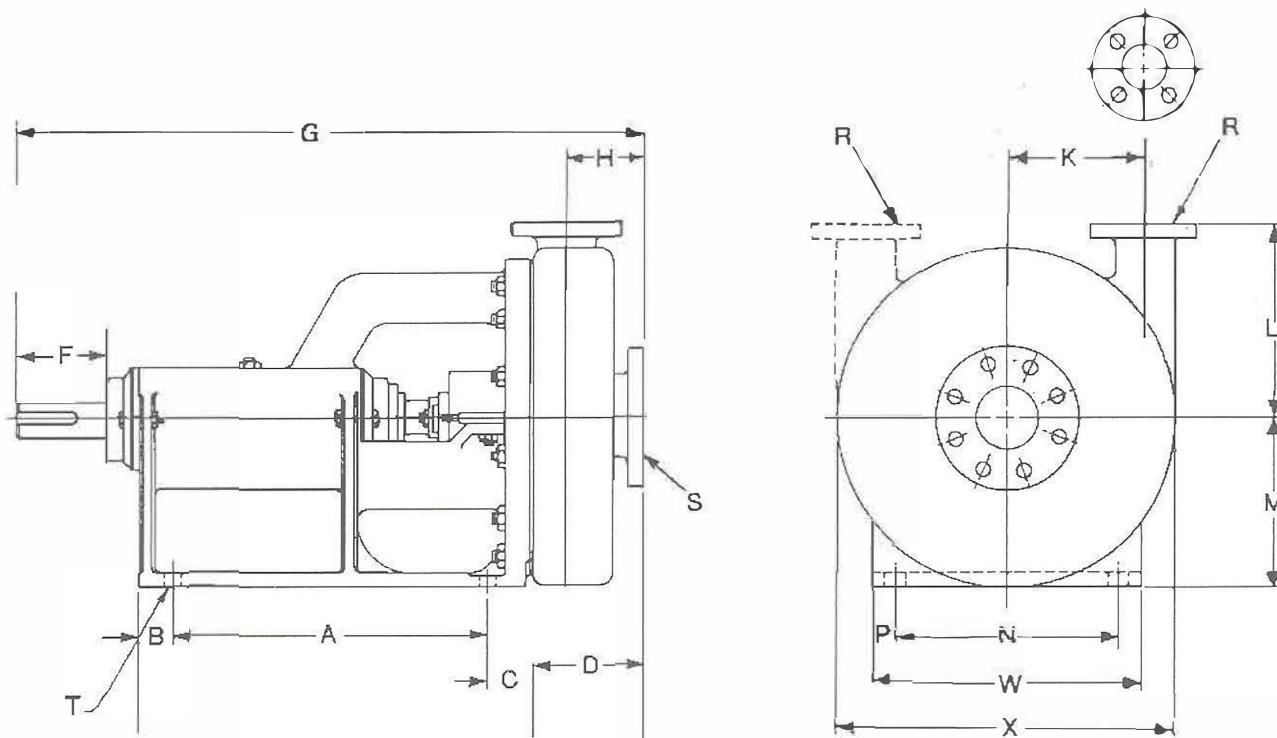
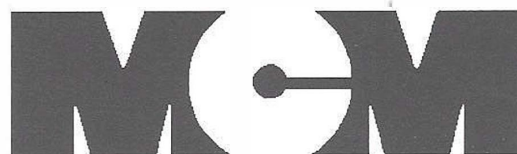
3 x 4 1000-2400 RPM



178 SERIES PARTS DIAGRAM



118 SERIES DIMENSIONAL DATA CENTRIFUGAL PUMP



PEDESTAL, HOUSING & INSTALLATION DIMENSIONS

PUMP SIZE	A	B	C	D	F	G	H	K	L	M	N	P	R	S	T	W	X
1x1-1/2 R & L	13	1-7/16	2-3/8	4-1/4	3-5/16	26-1/4	3-1/8	4-7/8	7-1/2	7	4-1/4	7/8	1	1-1/2	(4)-11/16	6	12
1-1/2x2 R & L	13	1-7/16	2-3/8	5	3-5/16	26-3/4	3-1/2	4-5/8	7-11/16	7	4-1/4	7/8	1-1/2	2	(4)-11/16	6	12
2x3 R & L	13	1-7/16	2-3/8	5-1/2	3-5/16	27	3-3/4	5-1/2	7-3/4	7	4-1/4	7/8	2	3	(4)-11/16	6	12
3x4 R & L	13	1-7/16	2-3/8	6-5/8	3-5/16	28-1/2	4-1/4	5	8	7	4-1/4	7/8	3	4	(4)-11/16	6	12-3/4

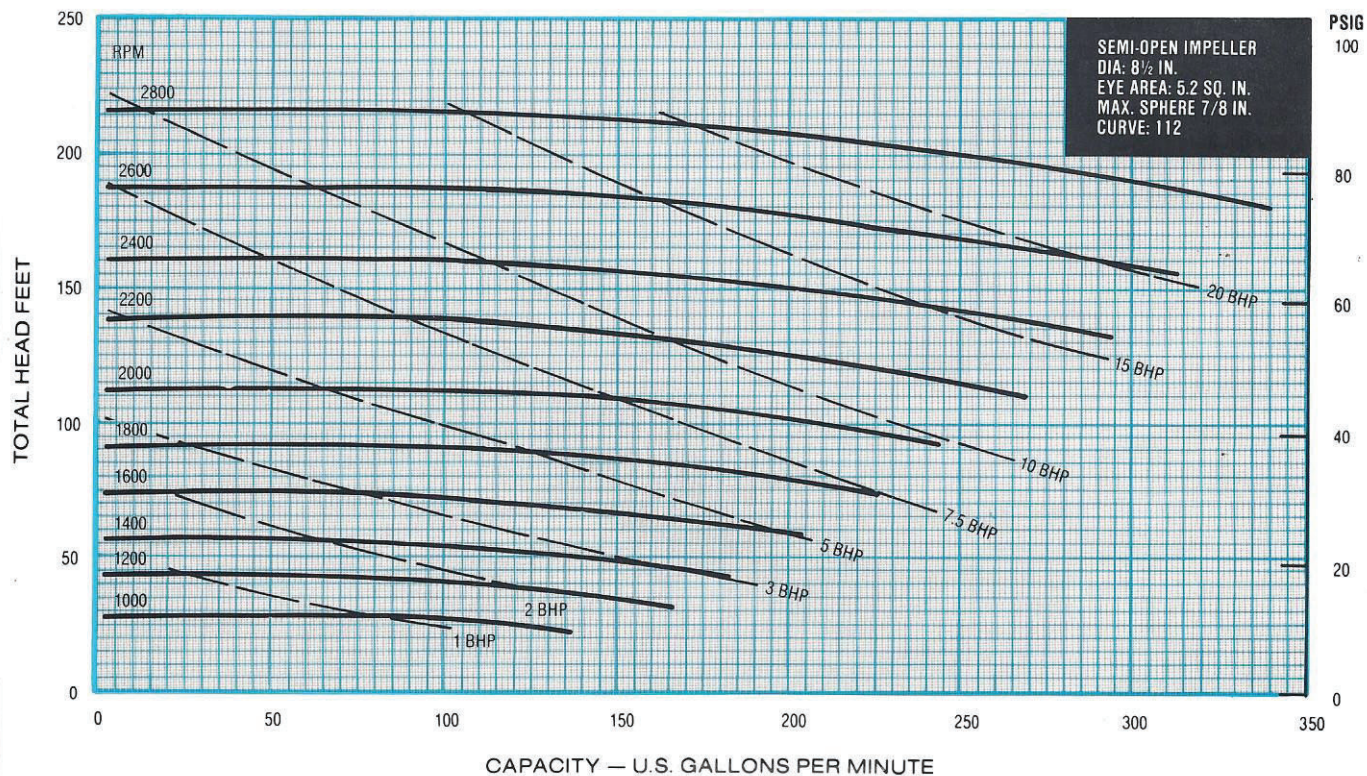
FLANGE SIZES

PUMP SIZE	PUMP TYPE (Shaft Dia.)	Discharge Pipe		Suction Pipe	
		SIZE	DRILLING	SIZE	DRILLING
1 x 1-1/2	1-1/8	1	4 Holes 5/8 Dia. 3-1/8 B.C.	1-1/2	4 Holes 5/8 Dia. 3-7/8 B.C.
1-1/2 x 2	1-1/8	1-1/2	4 Holes 5/8 Dia. 3-7/8 B.C.	2	4 Holes 3/4 Dia. 4-3/4 B.C.
2 x 3	1-1/8	2	4 Holes 3/4 Dia. 4-3/4 B.C.	3	4 Holes 3/4 Dia. 6 B.C.
3 x 4	1-1/8	3	4 Holes 3/4 Dia. 6 B.C.	4	4 Holes 3/4 Dia. 7-1/2 B.C.

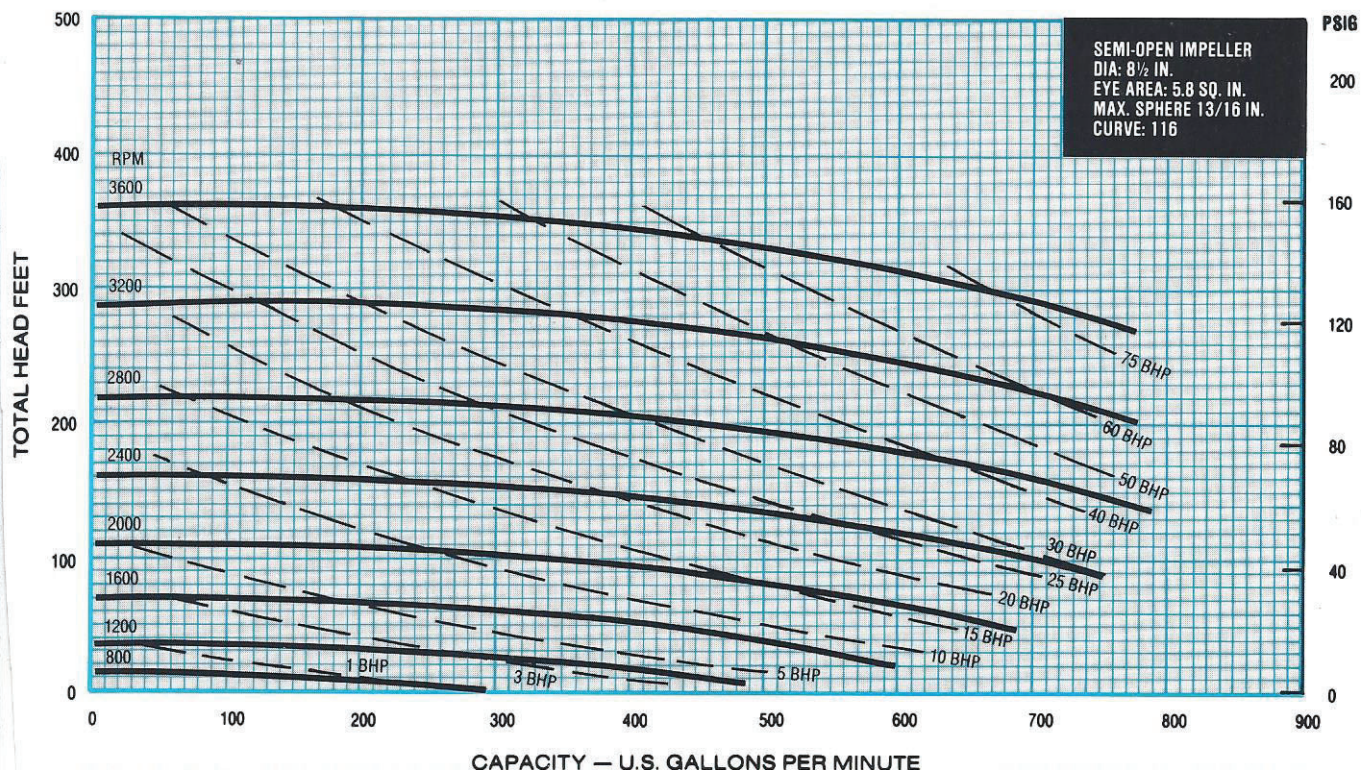
118 SERIES

Curves show performance with clear water. If specific gravity is other than 1.0, curve HP must be corrected.

2 x 3 1000-2800 RPM



3 x 4 800-3600 RPM



118 SERIES PARTS DIAGRAM

