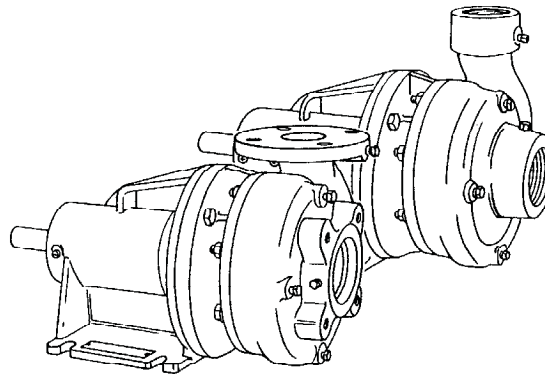
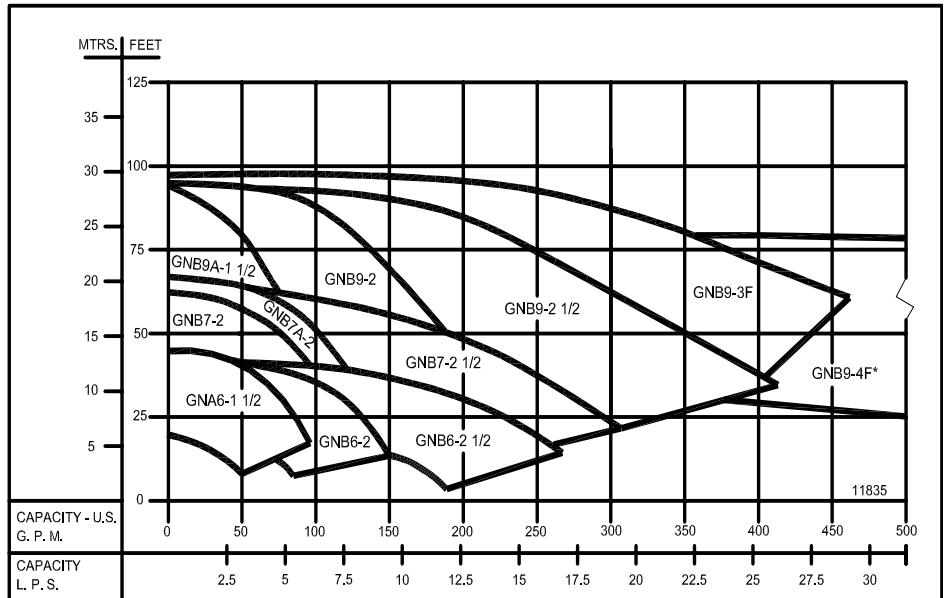


Base Mounted Centrifugal Pumps



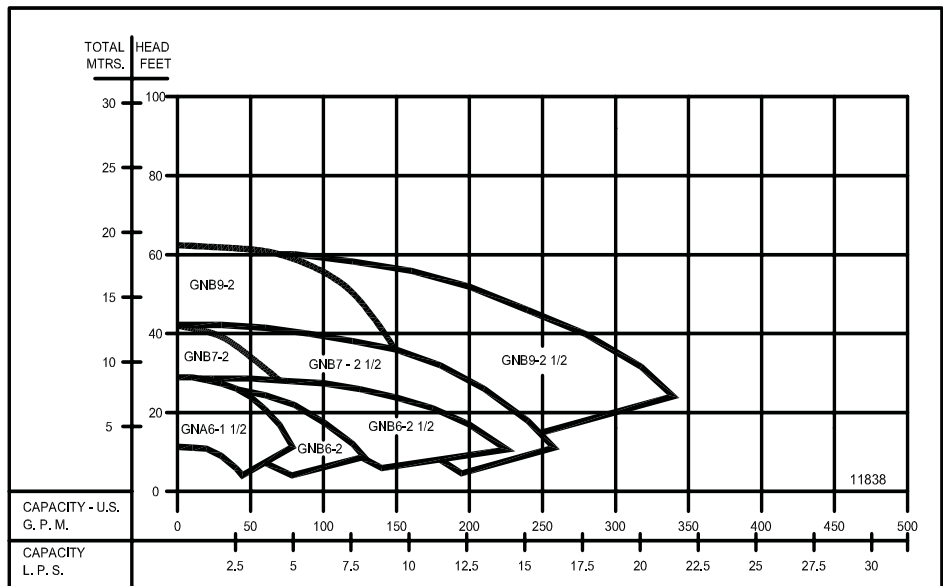
1750 RPM - 60Hz.
CAPACITIES TO 1100 GPM (69.4 LPS)
HEADS TO 95 FEET (29 M)

(*) FOR CAPACITIES ABOVE 500 GPM
SEE GNB9-4F CURVE.

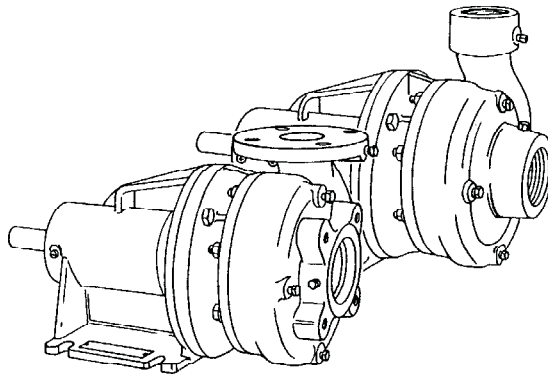


1450 RPM - 50Hz.
CAPACITIES TO 340 GPM (21.5 LPS)
HEADS TO 62 FEET (19 M)

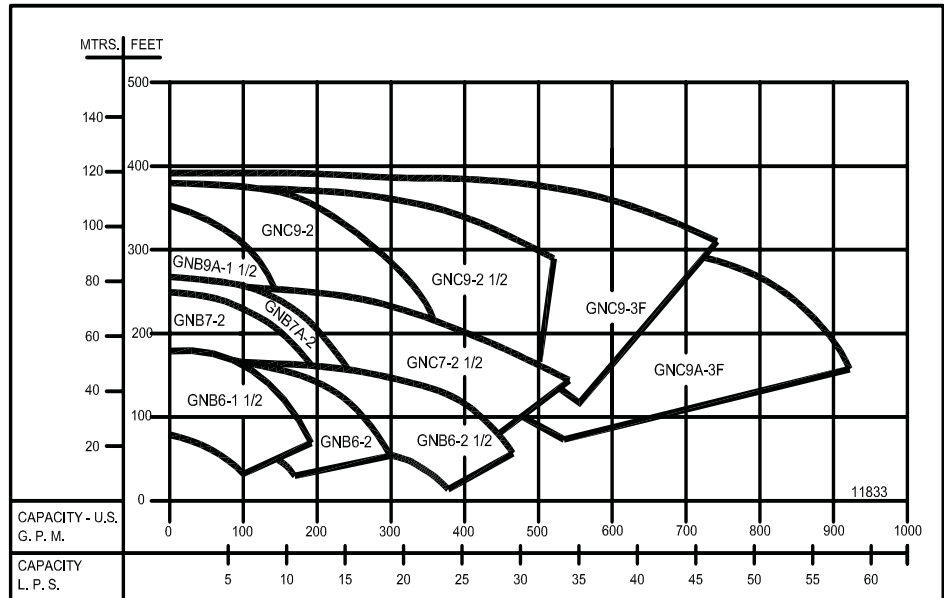
Individual performance curve should be
checked for final selection.



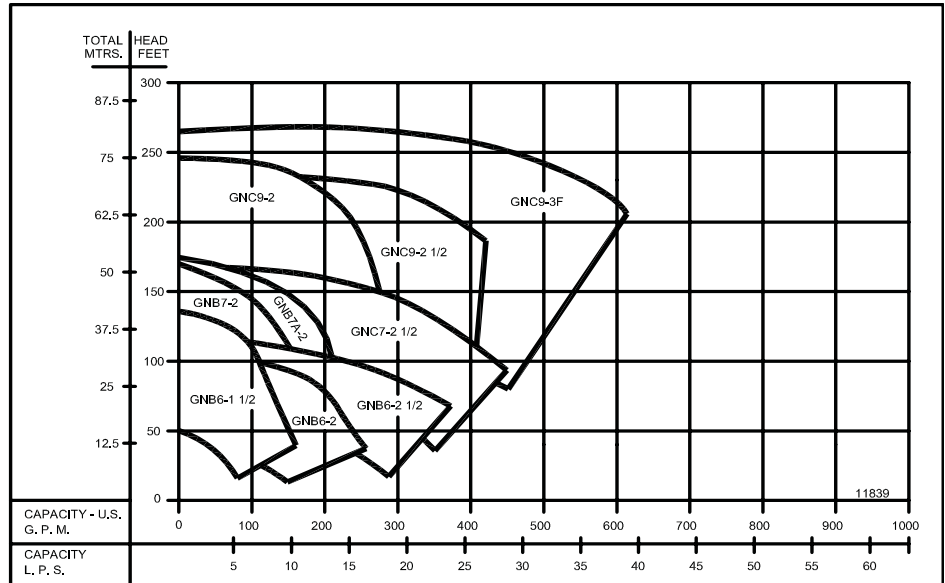
Base Mounted Centrifugal Pumps



3500 RPM - 60Hz.
CAPACITIES TO 960 GPM (60.6 LPS)
HEADS TO 380 FEET (116 M)

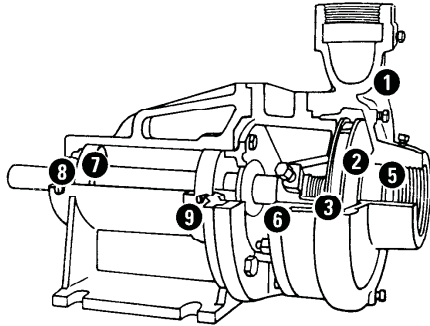


2900 RPM - 50Hz.
CAPACITIES TO 640 GPM (40.4 LPS)
HEADS TO 270 FEET (82.3 M)



Individual performance curve should be checked for final selection.

Base Mounted Centrifugal Pumps



1. RADIAL SPLIT CASING DESIGN

Casing is close grain iron of 30,000 p.s.i. minimum tensile strength. Back pull-out design eliminates the need to disturb piping should the pump ever require service - the casing stays in the line. Centerline discharge. Stud mounted casing assures positive alignment and allows rotation of discharge to eight different positions. Openings are provided for test gauges, for venting and for draining the pump.

2. ENCLOSED BRONZE IMPELLER

Enclosed bronze impeller is of latest hydraulic design for maximum efficiency. It is balanced for vibration free operation. Precision fit to shaft and double-locked with key and cap screw.

3. MECHANICAL SHAFT SEAL

Mechanical Shaft Seal is self-adjusting for temperatures up to 225°F (107°C) and pressures to 150 psi (1034kpa). Has ceramic seat and carbon seal faces for long trouble-free service. Special seals are available for higher temperatures and fluids other than water. Tapped opening is provided in the seal chamber for flushing seal faces.

MAXIMUM OPERATING CONDITIONS		
Pumping Speed	3500 & 2900 RPM	1750 & 1450 RPM
Horsepower with "A" Power Frame	N/A	1 HP
Horsepower with "B" Power Frame	20 HP	15 HP
Horsepower with "C" Power Frame	75 HP	N/A
Pumping Temperature*	225°F (107°C)	
Inlet Pressure	100 PSI (690kpa)	
Case Working Pressure	200 PSI (1379kpa)	

* FOR STANDARD BUNA-N SEAL

MATERIALS OF CONSTRUCTION			
Part	Brone Fitted	All Bronze	All Iron
Adapter	Cast Iron	Bronze	Cast Iron
Casing	Cast Iron	Bronze	Cast Iron
Casing Wear Ring	Bronze	Bronze	Steel
Shaft	Steel	Steel	Steel
Shaft Sleeve	Bronze	Bronze	#316 Stainless
Impeller	Bronze	Bronze	Cast Iron
Shaft Seal	Carbon-Ceramic SS - Buna-N	Carbon-Ceramic SS - Buna-N	Carbon-Ceramic SS - Buna-N

SUCTION & DISCHARGE SIZES		
* SERIES	SUCTION (in)	DISCHARGE (in)
GNA6-1-1/2	2	1-1/2
GNB6-1-1/2	2	1-1/2
GNB6-2 & 2F	2-1/2	2
GNB6-2-1/2 & 2-1/2F	3	2-1/2
GNB7-2 & 2F	2-1/2	2
GNB7A-2 & 2F	2-1/2	2
GNB7-2-1/2 & 2-1/2F	3	2-1/2
GNC7-2-1/2 & 2-1/2F	3	2-1/2
GNB9A-1-1/2	2	1-1/2
GNB9-2 & 2F	2-1/2	2
GNC9-2 & 2F	2-1/2	2
GNB9-2-1/2 & 2-1/2F	3	2-1/2
GNC9-2-1/2 & 2-1/2F	3	2-1/2
GNB9-3F	4	3
GNC9-3F	4	3

*F Suffix Denotes ANSI 125# Flat Face Flanges

4. COUPLING GUARD (NOT SHOWN)

Furnished on all complete Base-Mounted units manufactured by Burks Pumps. Not furnished with purchase of pump only, but required.

5. REPLACEABLE CASING WEAR RING

Prevents wear on casing and is easy to replace.

6. GASKETED BRONZE SLEEVE

Gasketed Bronze Sleeve on GNB and GNC power frames protects the shaft against wear and corrosion. Shaft on GNA power frame in #316 Stainless Steel.

7. BEARINGS

Grease lubricated ball bearings provide two years minimum service at maximum load. Average bearing life is five times minimum. Wide bearing spacing provides solid shaft support.

8. OIL SEALS

Protect both bearings.

9. CONVENIENT RELUBRICATION

Tapped and plugged openings are conveniently located for easy relubrication of power frame.

10. FACTORY TESTED

After careful assembly and inspection, EVERY pump is factory tested and will meet Hydraulic Institute standards.

FOR TEMPERATURES TO 500°F (260°C).

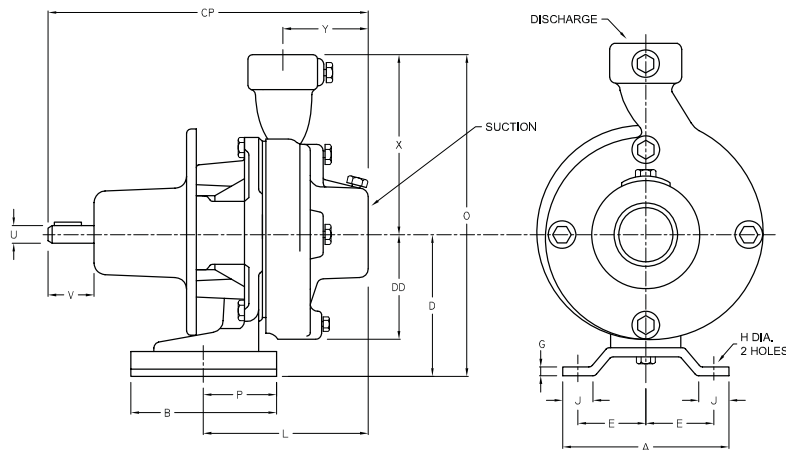
All models, with the exception of the GNA7-21/2 and all GN9 series pumps are available in a Jacketed Seal Cavity design for pumping hot oil, hot water and heat transfer fluids in common use in high temperature heating or cooling applications. This feature greatly extends seal life in high temperature applications. To order, add suffix "MJ" to pump catalog number for temperatures below 400°F (204°C) and add suffix "MJK" to pump catalog number for temperatures over 400°F (204°C). Example: GNA5-11/2MJ. See Section on High Temperature Pumps for more information.

Series: GNA

Dimensions

Pump Only and Pump, Motor & Coupling - Base Mounted

Base Mounted Centrifugal Pumps

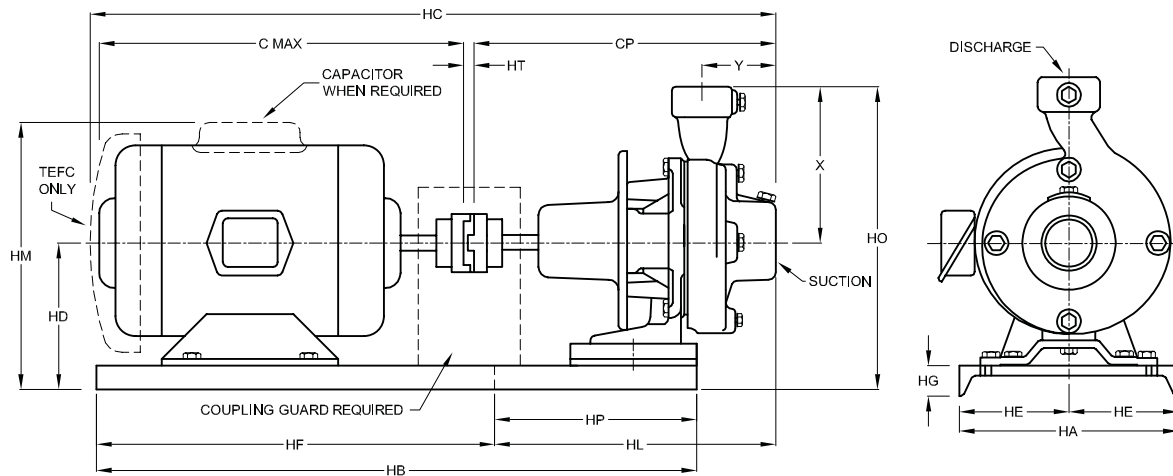


DIMENSIONS IN INCHES

MODEL	DISC.	SUCT.	A	B	CP	D	DD	E	G	H	J	L	O	P	U	V	X	Y
GNA6-1½	1½	2	5	4	10 ⁵ / ₈	5 ⁵ / ₁₆	4 ¹ / ₈	1 ¹⁵ / ₁₆	¼	9 ¹ / ₁₆	1 ¹ / ₈	5 ⁷ / ₈	12 ⁹ / ₁₆	1 ³ / ₄	5 ⁵ / ₈	1 ¹¹ / ₁₆	7 ¹ / ₄	2 ³ / ₄

DIMENSIONS IN MILLIMETERS

MODEL	DISC. (in)	SUCT. (in)	A	B	CP	D	DD	E	G	H	J	L	O	P	U	V	X	Y
GNA6-1½	1½	2	127	102	270	135	105	49	6.3	14	29	149	319	44	16	43	184	70



DIMENSIONS IN INCHES

MODEL	MOTOR FRAME	Disc.	Suct.	C*	CP	HA	HB	HC*	HD	HE	HF	HG	HH	HL	HM	HO	HP	HT	X	Y
GNA6-1½	56	1½	2	12 ⁵ / ₁₆	10 ⁵ / ₈	8	20 ¹ / ₄	23 ³ / ₁₆	7 ¹³ / ₁₆	3	14 ⁷ / ₈	2 ¹ / ₂	1 ¹ / ₁₆	8 ⁵ / ₈	13 ¹ / ₈	15 ¹ / ₁₆	4 ³ / ₈	¼	7 ¹ / ₄	2 ³ / ₄
	143T			13 ⁹ / ₁₆	10 ⁵ / ₈	8	20 ¹ / ₄	24 ⁷ / ₁₆	7 ¹³ / ₁₆	3	14 ⁷ / ₈	2 ¹ / ₂	1 ¹ / ₁₆	8 ⁵ / ₈	9 ⁷ / ₈	15 ¹ / ₁₆	4 ³ / ₈	¼	7 ¹ / ₄	2 ³ / ₄
	145T			13 ⁹ / ₁₆	10 ⁵ / ₈	8	20 ¹ / ₄	24 ⁷ / ₁₆	7 ¹³ / ₁₆	3	14 ⁷ / ₈	2 ¹ / ₂	1 ¹ / ₁₆	8 ⁵ / ₈	9 ⁷ / ₈	15 ¹ / ₁₆	4 ³ / ₈	¼	7 ¹ / ₄	2 ³ / ₄

DIMENSIONS IN MILLIMETERS

MODEL	MOTOR FRAME	Disc.	Suct.	C*	CP	HA	HB	HC*	HD	HE	HF	HG	HH	HL	HM	HO	HP	HT	X	Y
GNA6-1½	56	1½	2	313	270	203	514	589	198	76	378	64	17	219	333	383	111	6.3	184	70
	143T			344	270	203	514	621	198	76	378	64	17	219	251	383	111	6.3	184	70
	145T			344	270	203	514	621	198	76	378	64	17	219	251	383	111	6.3	184	70

(*) Maximum - Varies with Enclosure, HP and Motor Manufacturer.

SECTION 3B
PAGE 4
DATE 1/06

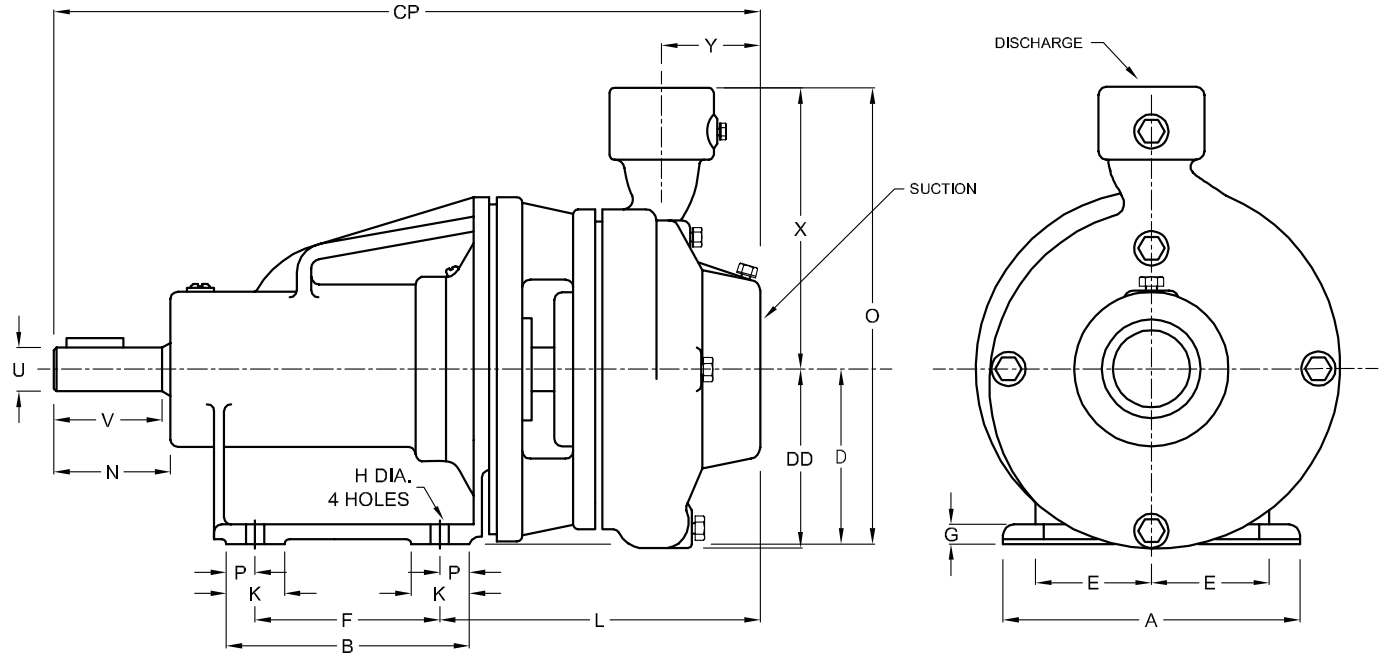


PUMPS & SYSTEMS

A Crane Co. Company

USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

Base Mounted Centrifugal Pumps



DIMENSIONS IN INCHES

MODEL	DISC.	SUCT.	A	B	CP	D	DD	E	F	G	H	K	L	N	O	P	U	V	X	Y
GNB6-1½	1½	2	8	6½	18¾	4½	4⅛	3⅜	5	½	⅝	1½	8⅜	2⅞	11¼	¾	1⅞	2⅛	7¼	2¾
GNB6-2	2	2½	8	6½	18½	4½	4⅞	3⅜	5	½	⅝	1½	8⅝	2⅞	12	¾	1⅞	2⅛	7¼	2⅜
GNB6-2½	2½	3	8	6½	19⅞	4½	4⅞	3⅜	5	½	⅝	1½	9	2⅞	12¾	¾	1⅞	2⅛	8¼	3⅜
GNB7-2 GNB7A-2	2	2½	8	6½	19⅞	4½	5	3⅜	5	½	⅝	1½	9⅜	2⅞	12¾	¾	1⅞	2⅛	8¼	3¼
GNB7-2½	2½	3	8	6½	19⅞	4½	5½	3⅜	5	½	⅝	1½	9⅞	2⅞	13¾	¾	1⅞	2⅛	9¼	3½
GNB9A-1½	1½	2	8	6½	18⅜	4½	5⅜	3⅜	5	½	⅝	1½	8½	2⅞	13½	¾	1⅞	2⅛	9	3⅜
GNB9-2	2	2½	8	6½	19⅜	4½	5⅜	3⅜	5	½	⅝	1½	9⅞	2⅞	14⅞	¾	1⅞	2⅛	9⅞	4
GNB9-2½	2½	3	8	6½	19⅞	4½	6⅞	3⅜	5	½	⅝	1½	9¼	2⅞	15	¾	1⅞	2⅛	10½	3½
GNC7-2½	2½	3	8	6¾	22	7	5½	3⅜	5	½	⅝	1¾	10½	4	14¾	⅞	1⅞	3¼	9¼	3½
GNC9-2	2	2½	8	6¾	23	7	5⅜	3⅜	5	½	⅝	1¾	11¼	4	15⅞	⅞	1⅞	3¼	9⅞	4
GNC9-2½	2½	3	8	6¾	22½	7	6⅞	3⅜	5	½	⅝	1¾	10¾	4	17½	⅞	1⅞	3¼	10½	3½

DIMENSIONS IN MILLIMETERS

MODEL	DISC. (in)	SUCT. (in)	A	B	CP	D	DD	E	F	G	H	K	L	N	O	P	U	V	X	Y
GNB6-1½	1½	2	203	165	467	114	105	90	127	13	16	38	208	73	298	19	28	68	184	70
GNB6-2	2	2½	203	165	470	114	113	90	127	13	16	38	211	73	305	19	28	68	191	71
GNB6-2½	2½	3	203	165	487	114	124	90	127	13	16	38	229	73	324	19	28	68	210	84
GNB7-2 GNB7A-2	2	2½	203	165	492	114	127	90	127	13	16	38	233	73	324	19	28	68	210	95
GNB7-2½	2½	3	203	165	492	114	140	90	127	13	16	38	232	73	349	19	28	68	235	89
GNB9A-1½	1½	2	203	165	475	114	148	90	127	13	16	38	216	73	343	19	28	68	228	78
GNB9-2	2	2½	203	165	503	114	151	90	127	13	16	38	244	73	359	19	28	68	244	102
GNB9-2½	2½	3	203	165	494	114	154	90	127	13	16	38	235	73	381	19	28	68	267	89
GNC7-2½	2½	3	203	171	559	178	140	90	127	13	16	44	267	102	375	22	35	95	235	89
GNC9-2	2	2½	203	171	584	178	151	90	127	13	16	44	286	102	397	22	35	95	244	102
GNC9-2½	2½	3	203	171	572	178	154	90	127	13	16	44	273	102	445	22	35	95	267	89

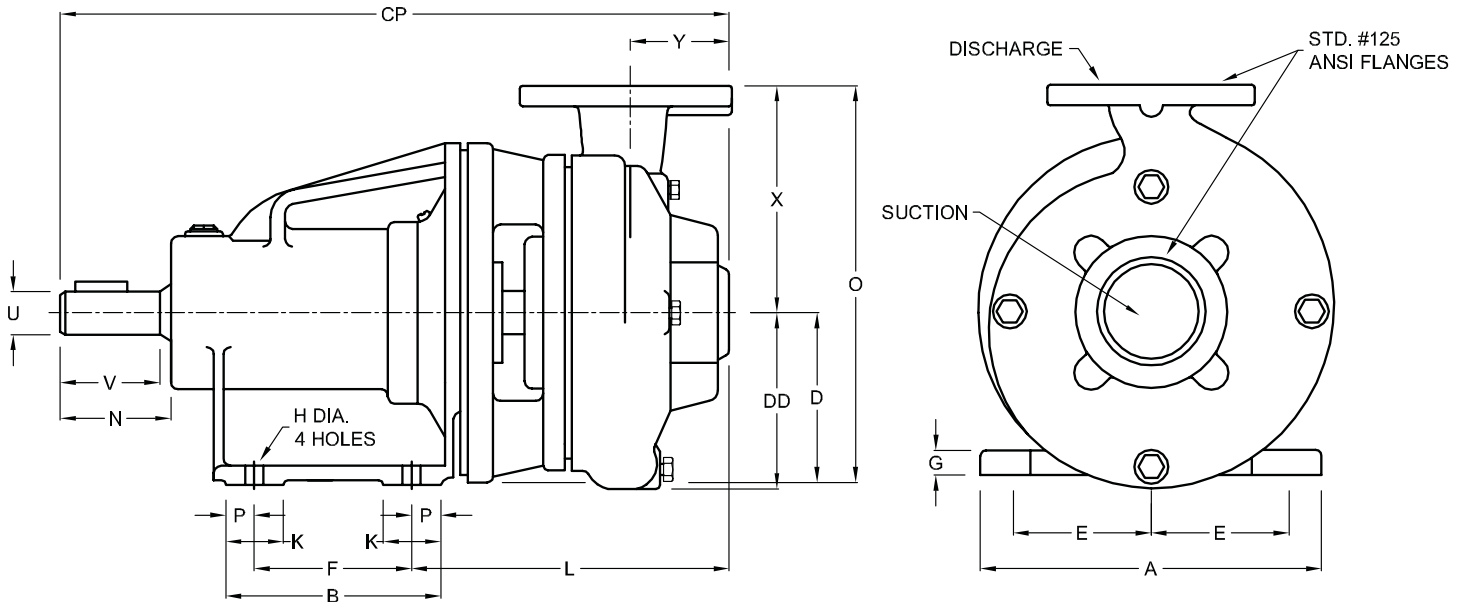
Series: GNB, GNC

Dimensions

Pump Only with Flanged Casing



Base Mounted Centrifugal Pumps



DIMENSIONS IN INCHES																				
MODEL	DISC.	SUCT.	A	B	CP	D	DD	E	F	G	H	K	L	N	O	P	U	V	X	Y
GNB6-2F	2	2½	8	6½	17 ¹³ / ₁₆	4½	4½	3 ⁹ / ₁₆	5	½	5 ⁸ / ₁₆	1½	7 ¹¹ / ₁₆	2 ⁵ / ₈	10½	¾	1 ¹ / ₈	2 ¹¹ / ₁₆	6	2 ⁵ / ₈
GNB6-2½F	2½	3	8	6½	18¼	4½	4 ⁷ / ₈	3 ⁹ / ₁₆	5	½	5 ⁸ / ₁₆	1½	8 ¹ / ₈	2 ⁵ / ₈	11	¾	1 ¹ / ₈	2 ¹¹ / ₁₆	6½	2 ⁵ / ₈
GNB7-2F GNB7A-2F	2	2½	8	6½	18 ¹ / ₁₆	4½	5	3 ⁹ / ₁₆	5	½	5 ⁸ / ₁₆	1½	7 ¹⁵ / ₁₆	2 ⁵ / ₈	11¼	¾	1 ¹ / ₈	2 ¹¹ / ₁₆	6¾	2 ⁵ / ₁₆
GNB7-2½F	2½	3	8	6½	18¼	4½	5½	3 ⁹ / ₁₆	5	½	5 ⁸ / ₁₆	1½	8 ¹ / ₁₆	2 ⁵ / ₈	12	¾	1 ¹ / ₈	2 ¹¹ / ₁₆	7½	2 ⁵ / ₈
GNB9-2F	2	2½	8	6½	18 ³ / ₈	4½	5 ⁵ / ₈	3 ⁹ / ₁₆	5	½	5 ⁸ / ₁₆	1½	8 ³ / ₁₆	2 ⁵ / ₈	13	¾	1 ¹ / ₈	2 ¹¹ / ₁₆	8½	2 ⁹ / ₁₆
GNB9-2½F	2½	3	8	6½	18 ⁹ / ₁₆	4½	6	3 ⁹ / ₁₆	5	½	5 ⁸ / ₁₆	1½	8 ⁷ / ₁₆	2 ⁵ / ₈	13¾	¾	1 ¹ / ₈	2 ¹¹ / ₁₆	9¼	2 ⁹ / ₁₆
GNC7-2½F	2½	3	8	6¾	20 ¹³ / ₁₆	7	5½	3 ⁹ / ₁₆	5	½	5 ⁸ / ₁₆	1¾	9 ⁹ / ₁₆	4	14½	7 ¹ / ₈	1 ³ / ₈	3¾	7½	2 ⁵ / ₈
GNC9-2F	2	2½	8	6¾	21 ⁵ / ₁₆	7	5 ⁵ / ₈	3 ⁹ / ₁₆	5	½	5 ⁸ / ₁₆	1¾	9 ¹ / ₁₆	4	15½	7 ¹ / ₈	1 ³ / ₈	3¾	8½	2 ⁹ / ₁₆
GNC9-2½F	2½	3	8	6¾	21½	7	6	3 ⁹ / ₁₆	5	½	5 ⁸ / ₁₆	1¾	9 ⁷ / ₁₆	4	16¼	7 ¹ / ₈	1 ³ / ₈	3¾	9¼	2 ⁹ / ₁₆
GNB-3F	3	4	8	6½	19	4½	6¼	3 ⁹ / ₁₆	5	½	5 ⁸ / ₁₆	1½	8 ⁷ / ₈	2 ⁵ / ₈	13½	¾	1 ¹ / ₈	2 ¹¹ / ₁₆	9	2 ¹¹ / ₁₆
GNC9-3F GNC9A-3F	3	4	8	6¾	21 ¹⁵ / ₁₆	7	6¼	3 ⁹ / ₁₆	5	½	5 ⁸ / ₁₆	1¾	10 ⁵ / ₁₆	4	16	7 ¹ / ₈	1 ³ / ₈	3¾	9	2 ¹¹ / ₁₆
4GNB9-4F	4	5	8	6½	19 ¹¹ / ₁₆	4½	7 ⁹ / ₁₆	3 ⁹ / ₁₆	5	½	5 ⁸ / ₁₆	1½	9½	2 ⁵ / ₈	15 ⁵ / ₈	¾	1 ¹ / ₈	2 ¹¹ / ₁₆	10 ⁵ / ₈	3¼

DIMENSIONS IN MILLIMETERS																				
MODEL	DISC. (in)	SUCT. (in)	A	B	CP	D	DD	E	F	G	H	K	L	N	O	P	U	V	X	Y
GNB6-2F	2	2½	203	165	452	114	114	90	127	13	16	38	195	73	267	19	29	68	152	54
GNB6-2½F	2½	3	203	165	464	114	124	90	127	13	16	38	206	73	279	19	29	68	165	60
GNB7-2F GNB7A-2F	2	2½	203	165	459	114	127	90	127	13	16	38	202	73	286	19	29	68	171	62
GNB7-2½F	2½	3	203	165	464	114	140	90	127	13	16	38	205	73	305	19	29	68	191	60
GNB9-2F	2	2½	203	165	467	114	149	90	127	13	16	38	208	73	330	19	29	68	216	65
GNB9-2½F	2½	3	203	165	471	114	152	90	127	13	16	38	214	73	349	19	29	68	235	65
GNC7-2½F	2½	3	203	172	529	178	140	90	127	13	16	44	233	102	368	22	35	95	191	60
GNC9-2F	2	2½	203	172	541	178	149	90	127	13	16	44	246	102	394	22	35	95	216	65
GNC9-2½F	2½	3	203	172	546	178	152	90	127	13	16	44	251	102	413	22	35	95	235	65
GNB-3F	3	4	203	165	483	114	159	90	127	13	16	38	225	73	343	19	29	68	229	68
GNC9-3F GNC9A-3F	3	4	203	172	557	178	159	90	127	13	16	44	262	102	406	22	35	95	229	68
4GNB9-4F	3	5	203	165	500	114	192	90	127	13	16	38	241	73	384	19	29	68	270	83

SECTION 3B
PAGE 8
DATE 1/06

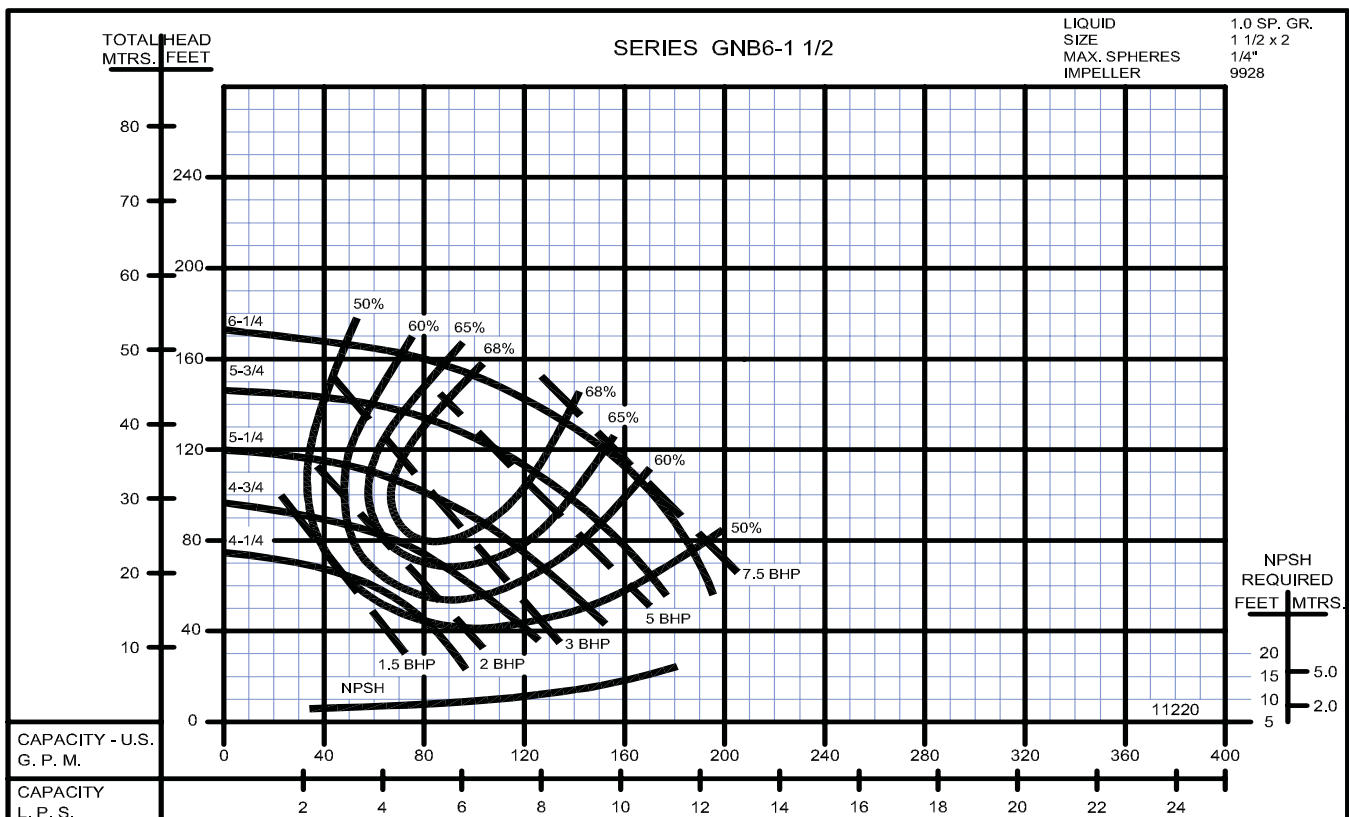
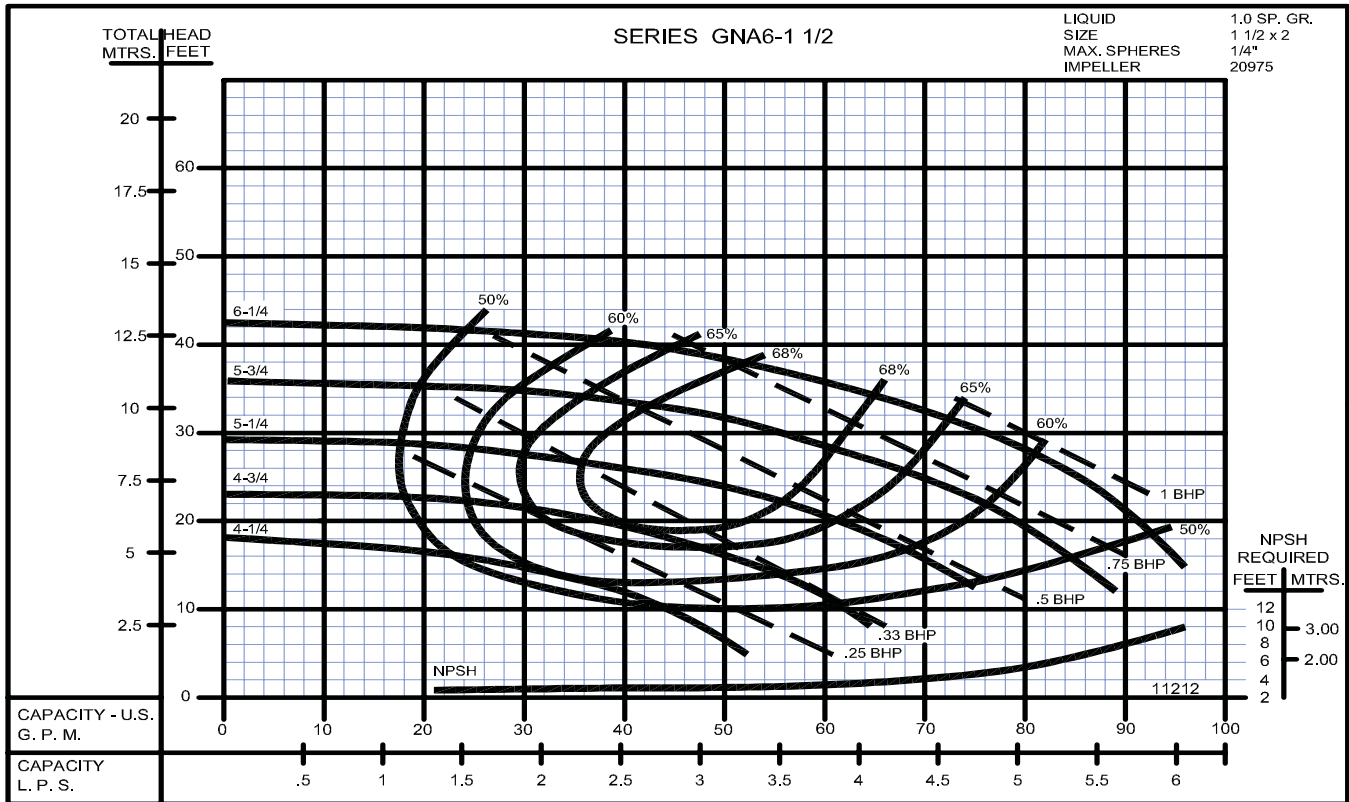


A Crane Co. Company

PUMPS & SYSTEMS

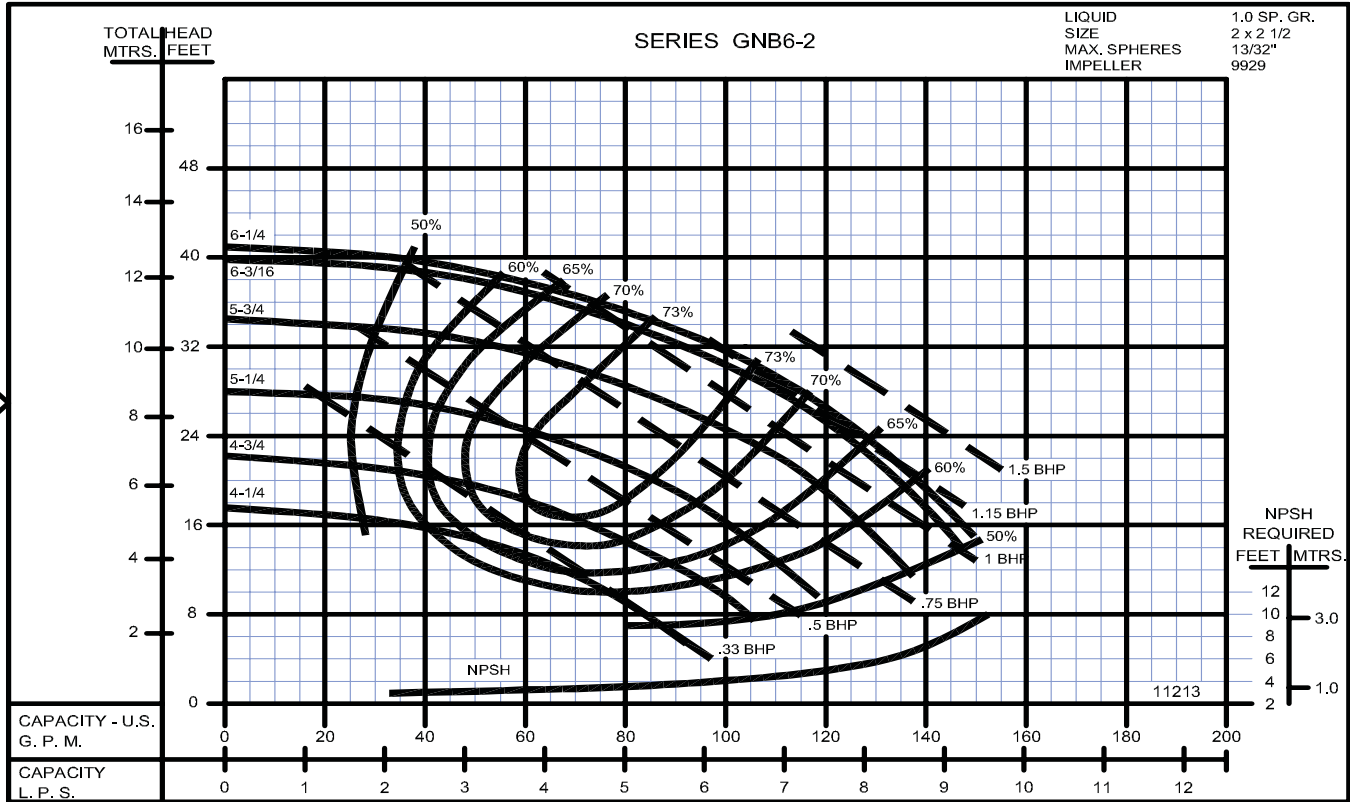
USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

Base Mounted Centrifugal Pumps

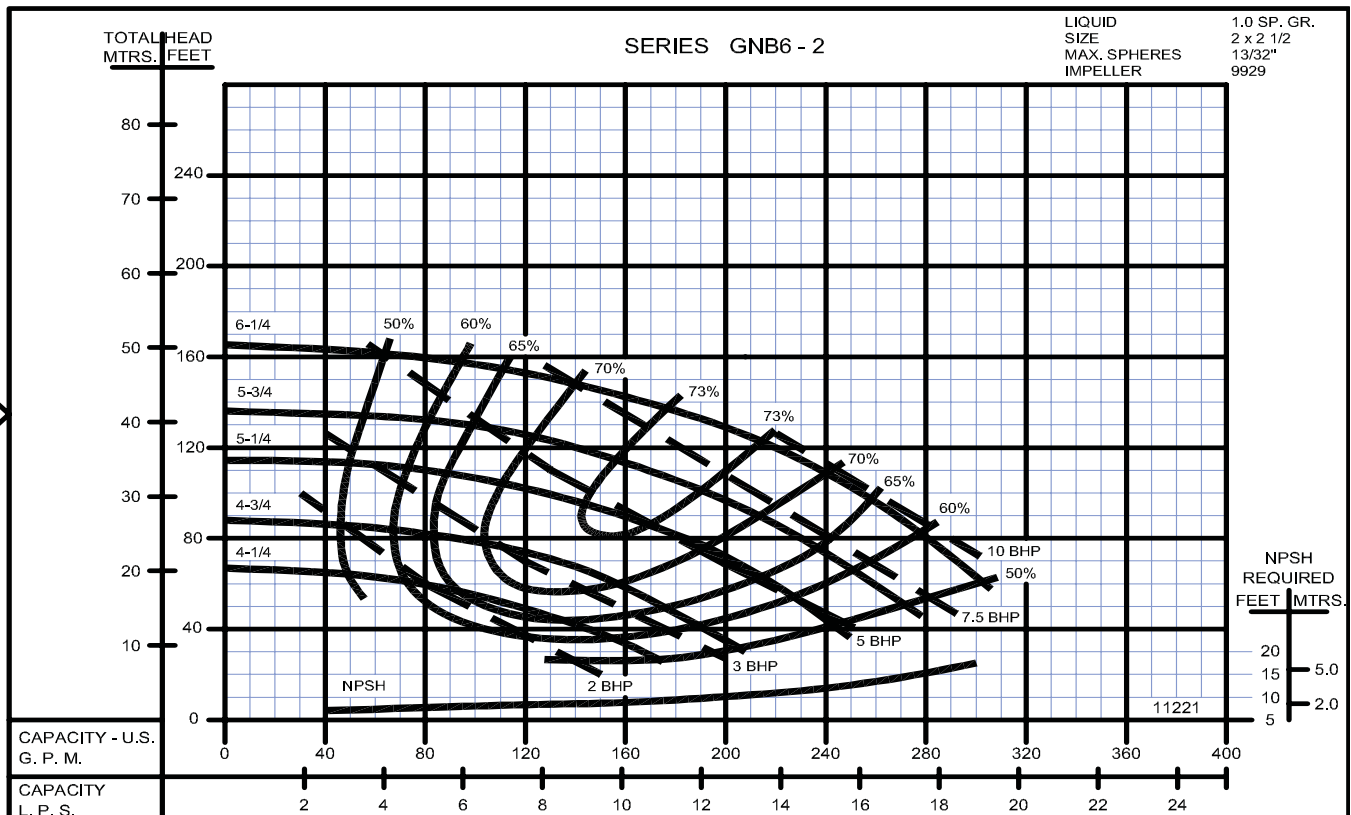


Base Mounted Centrifugal Pumps

1750 RPM



3500 RPM



SECTION 3B
PAGE 12
DATE 1/06

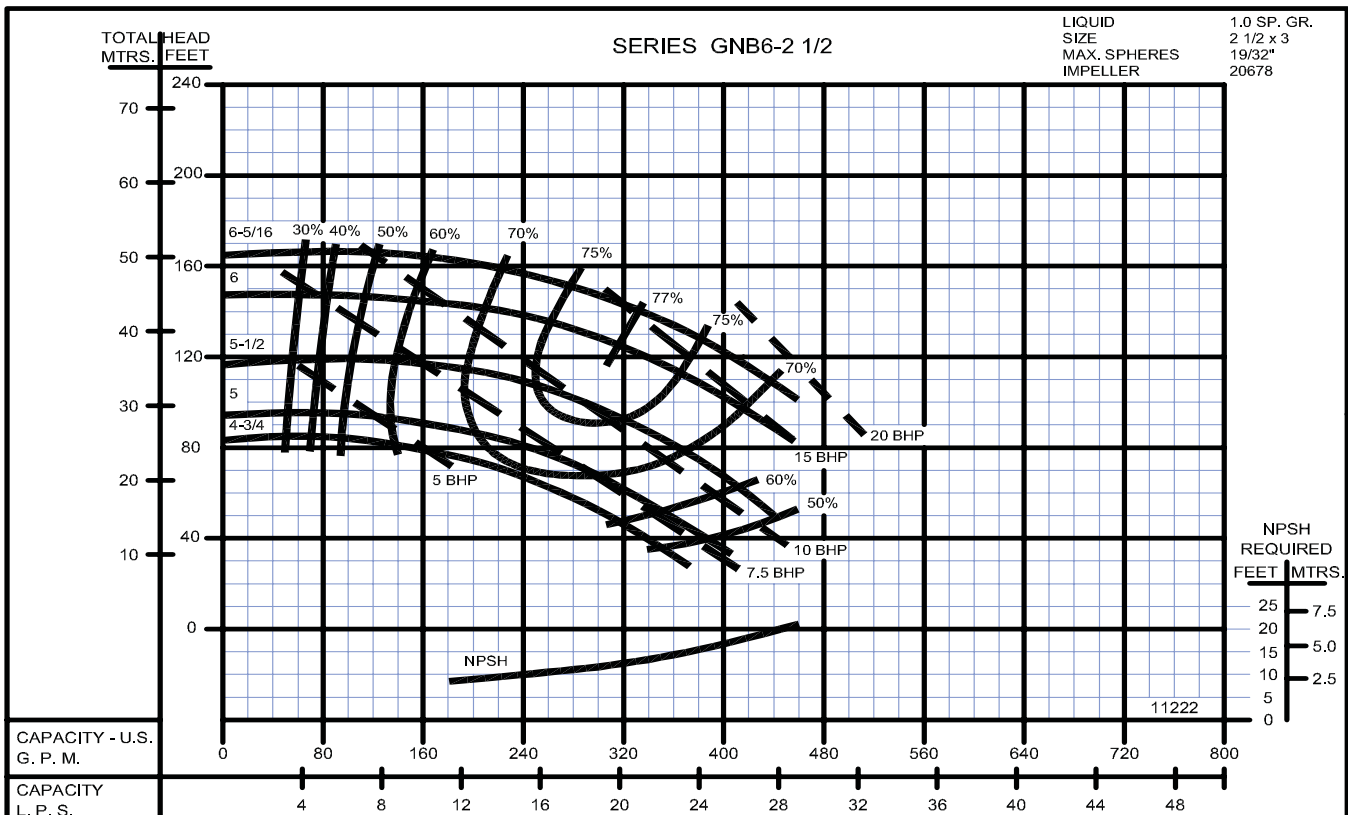
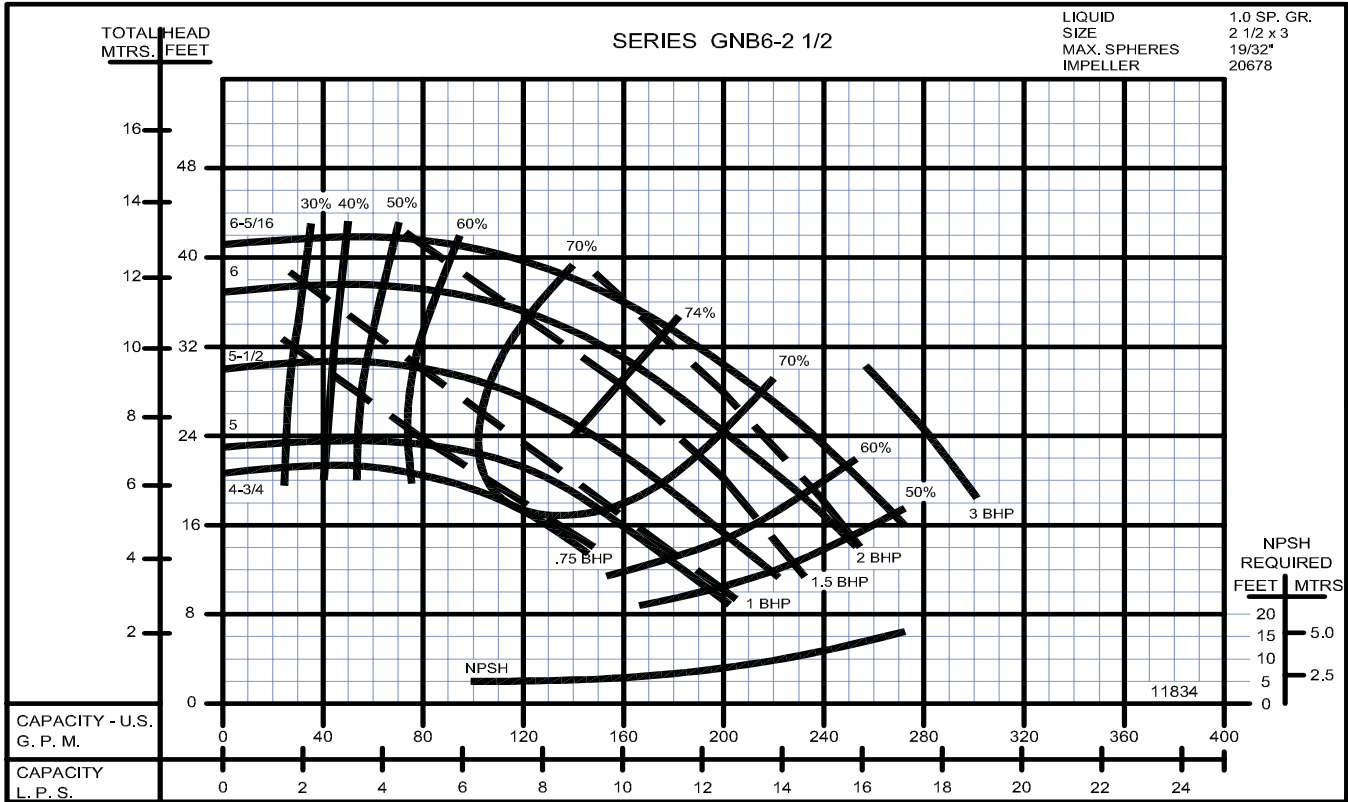


PUMPS & SYSTEMS

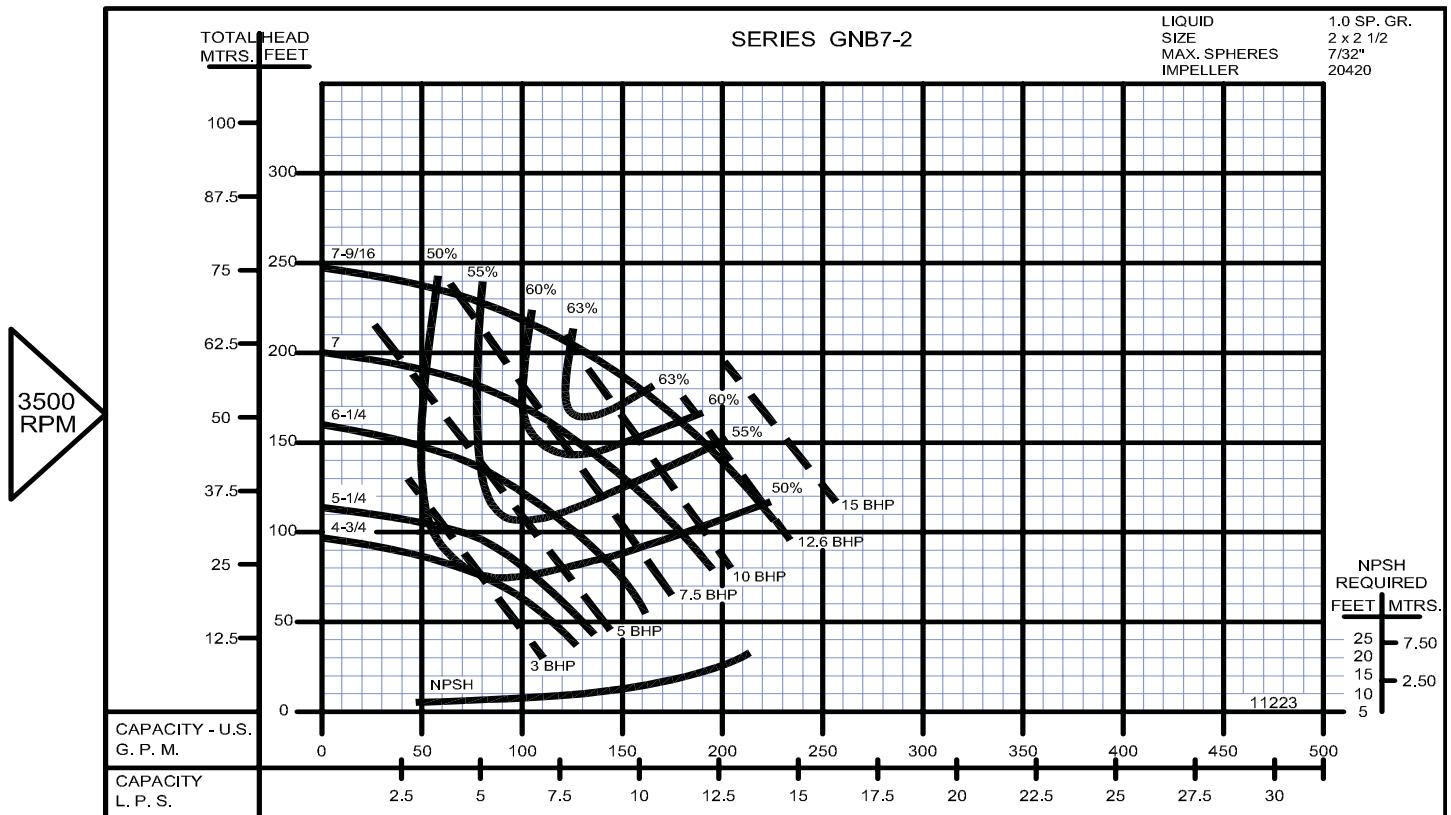
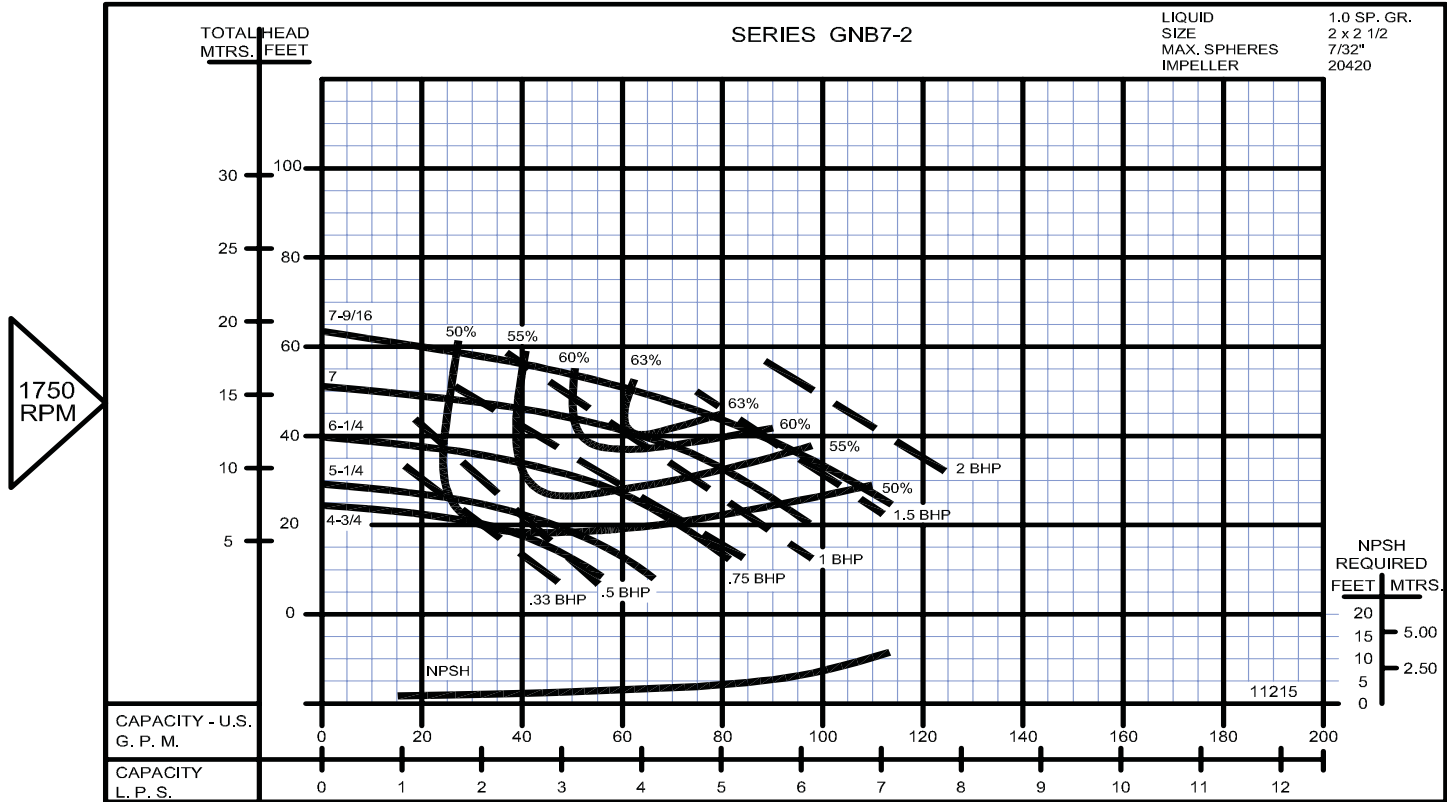
A Crane Co. Company

USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

Base Mounted Centrifugal Pumps



Base Mounted Centrifugal Pumps



SECTION 3B
PAGE 14
DATE 1/06

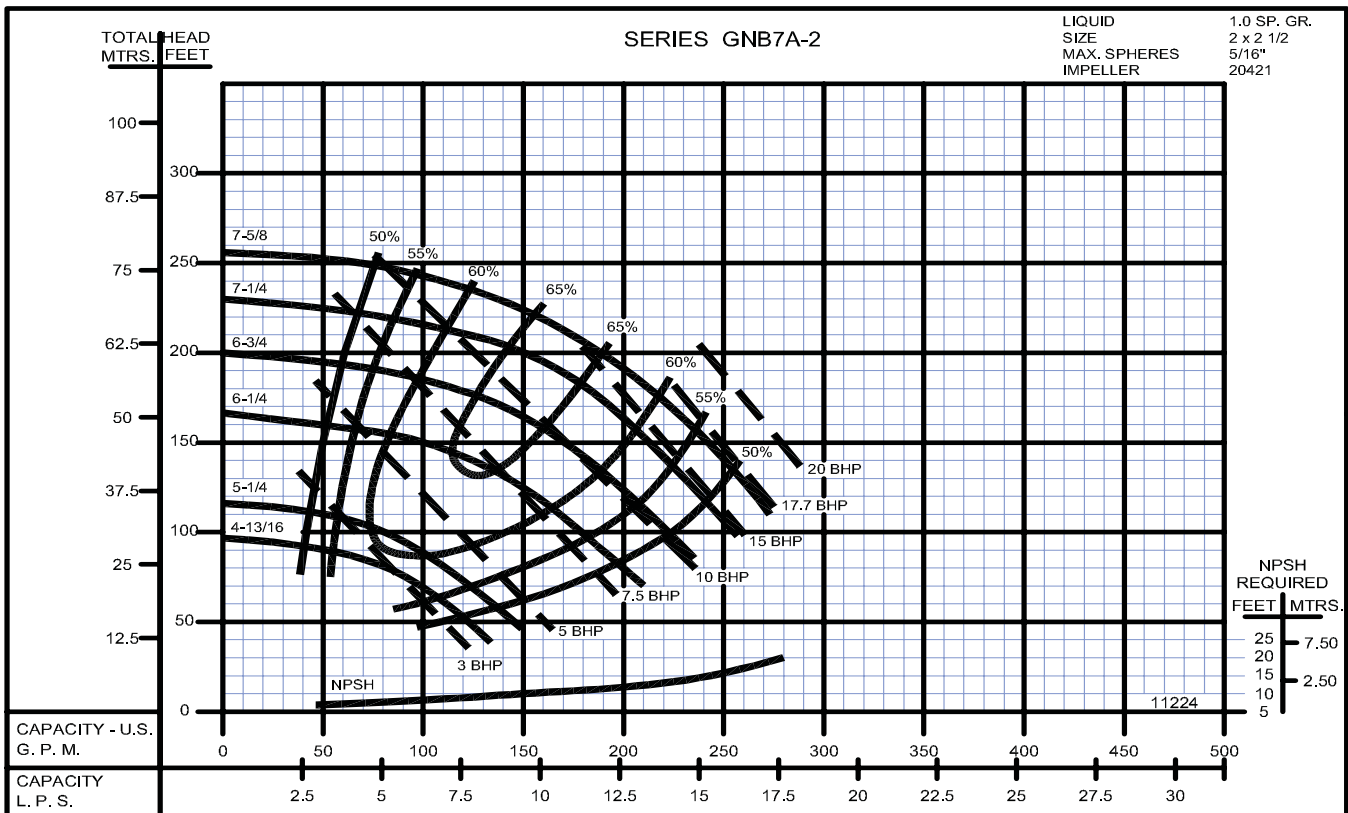
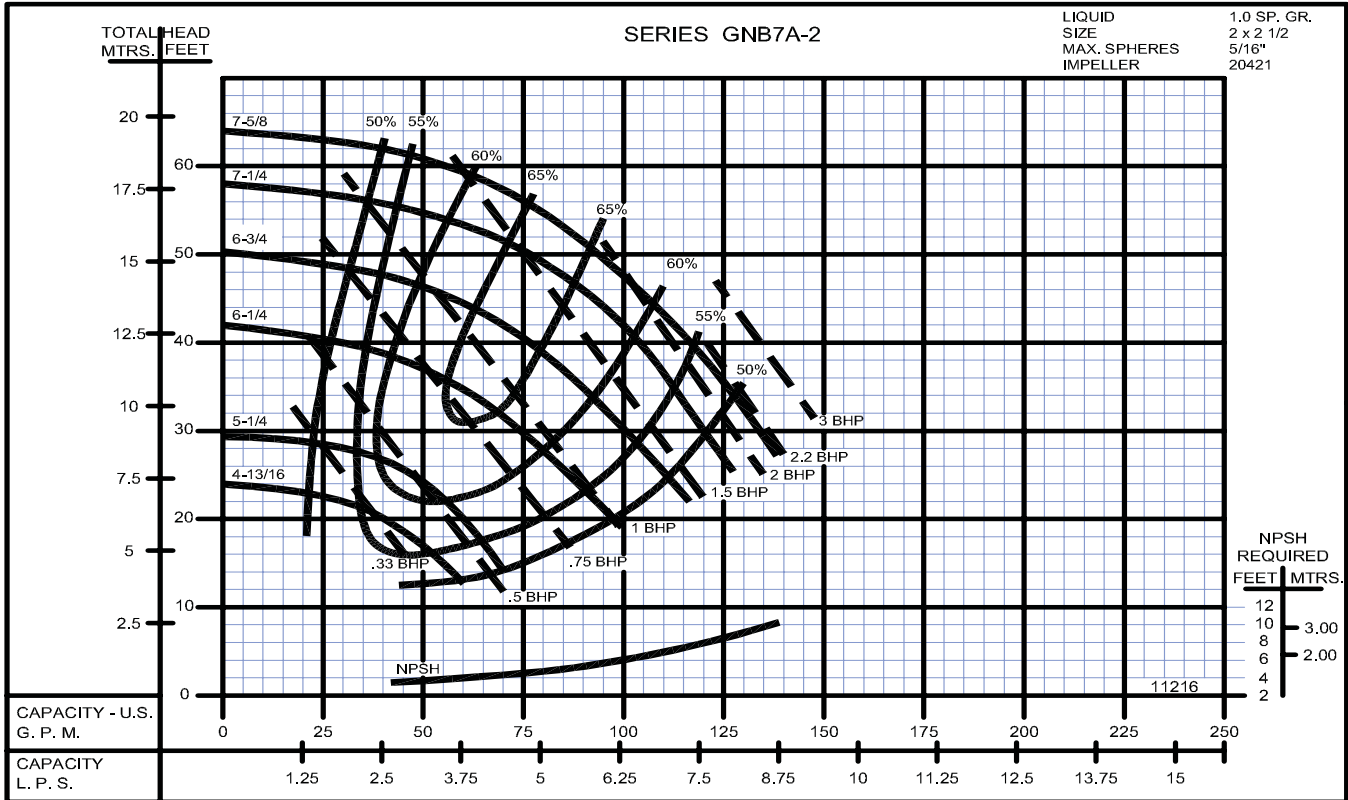


A Crane Co. Company

PUMPS & SYSTEMS

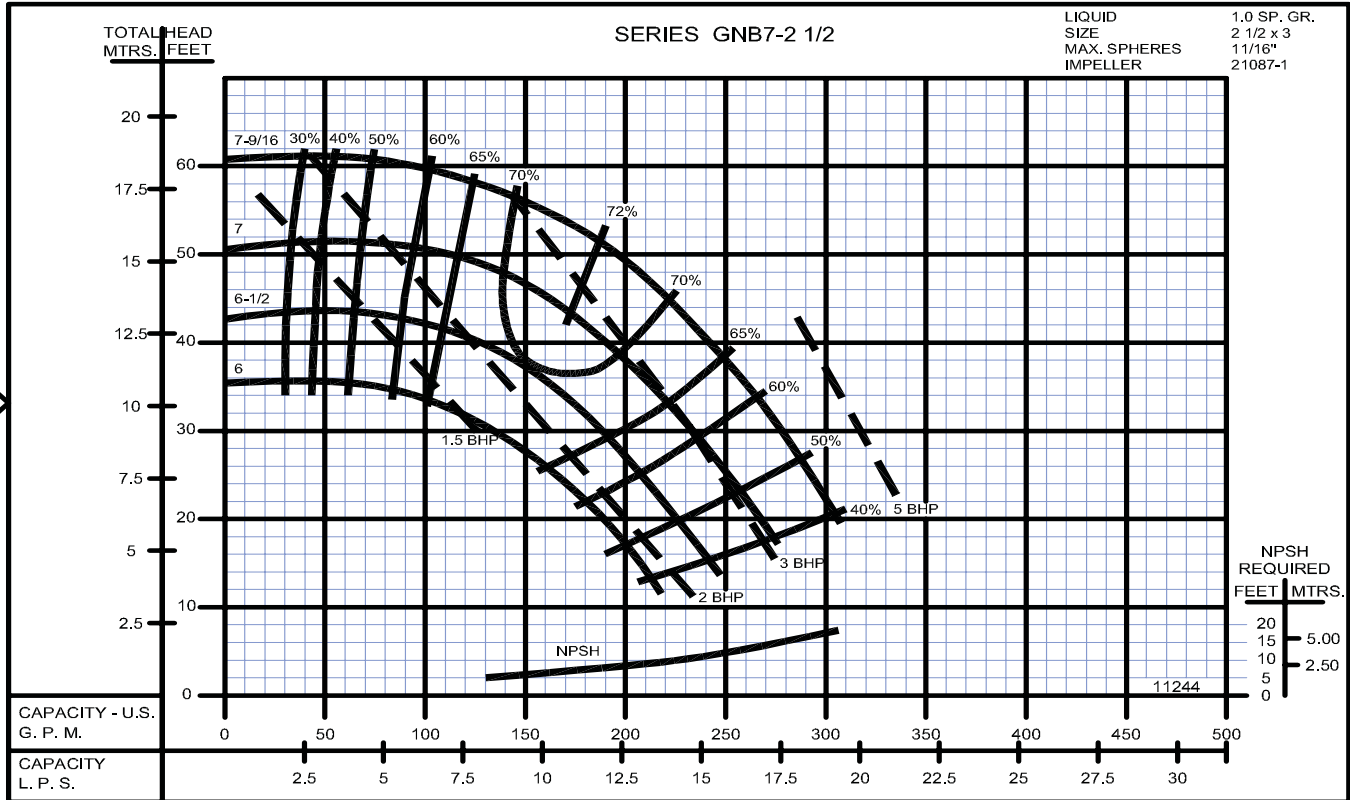
USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

Base Mounted Centrifugal Pumps

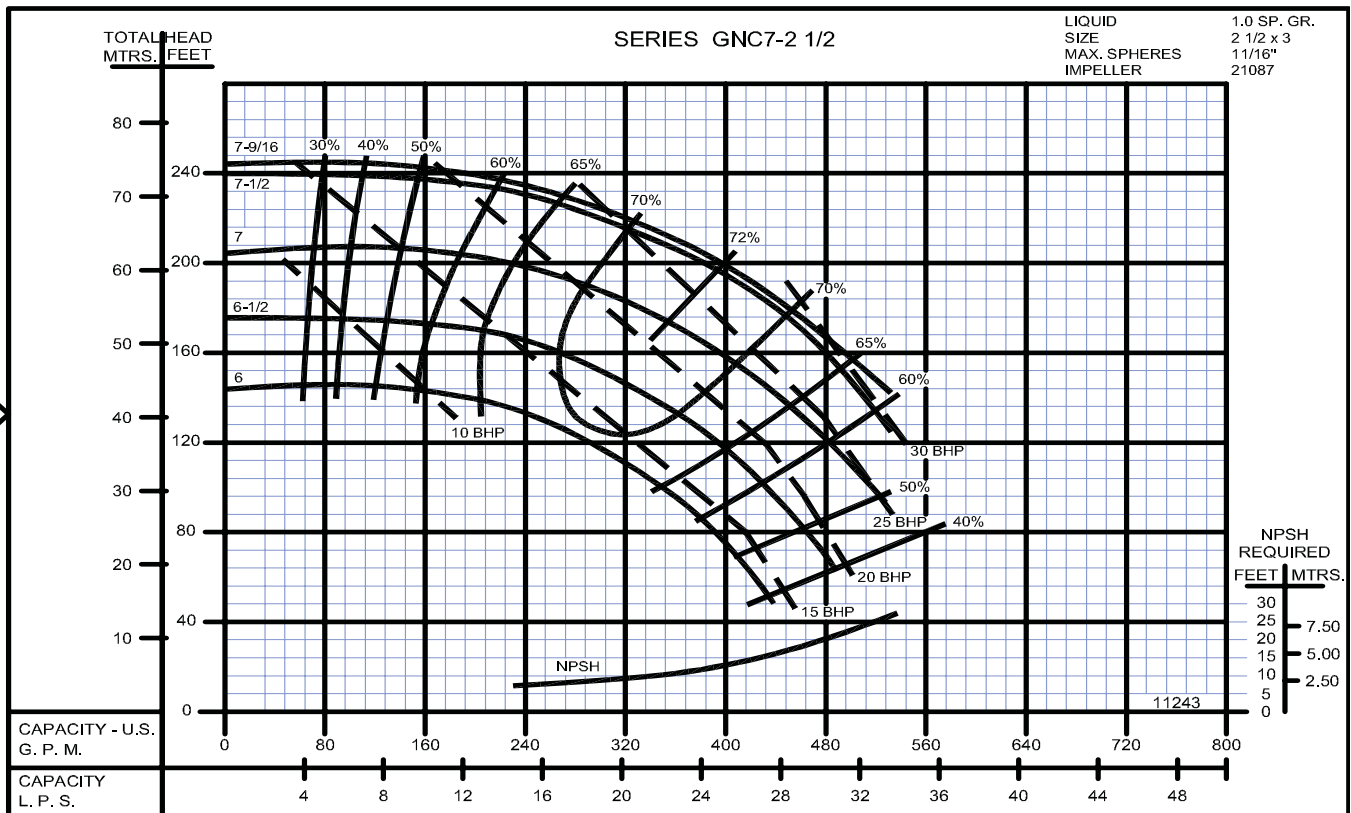


Base Mounted Centrifugal Pumps

1750 RPM



3500 RPM



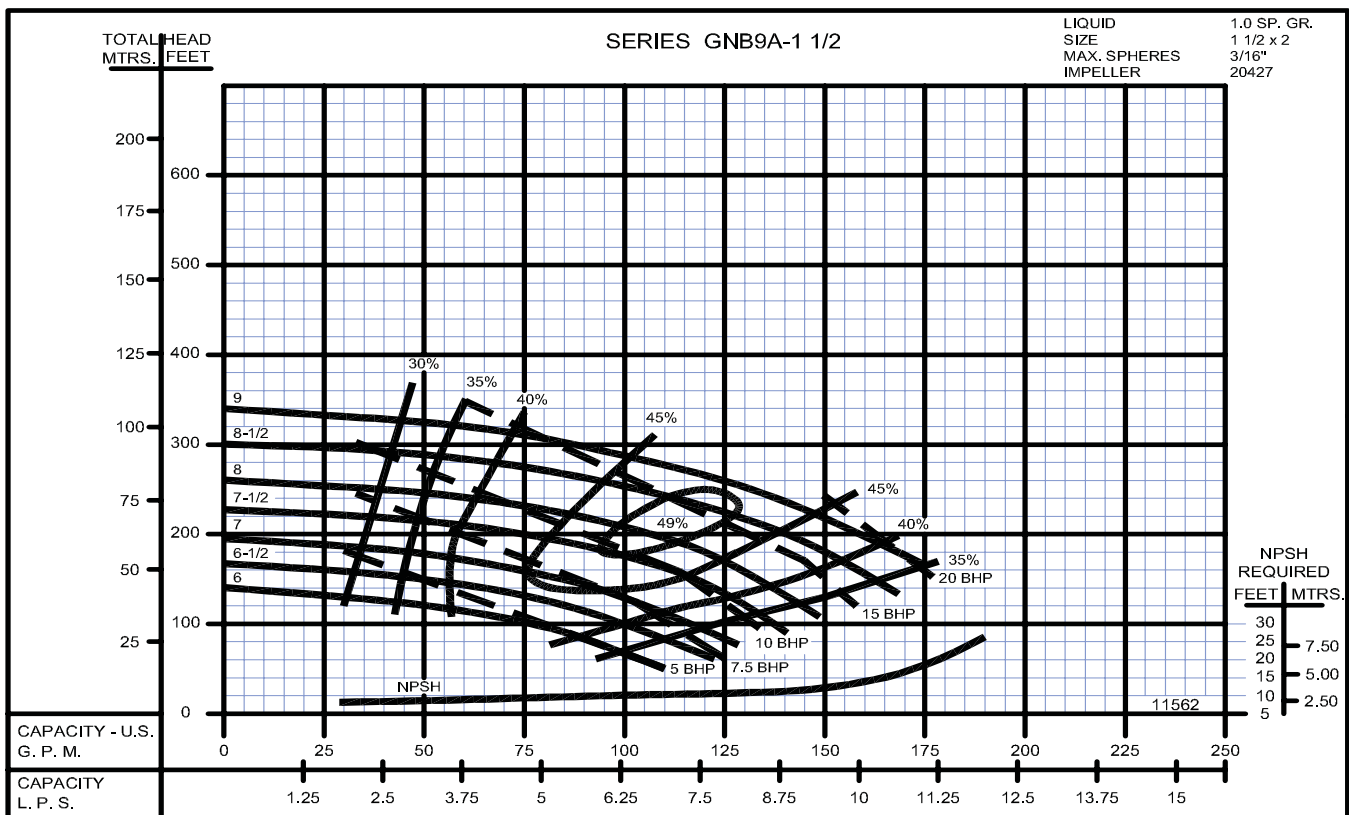
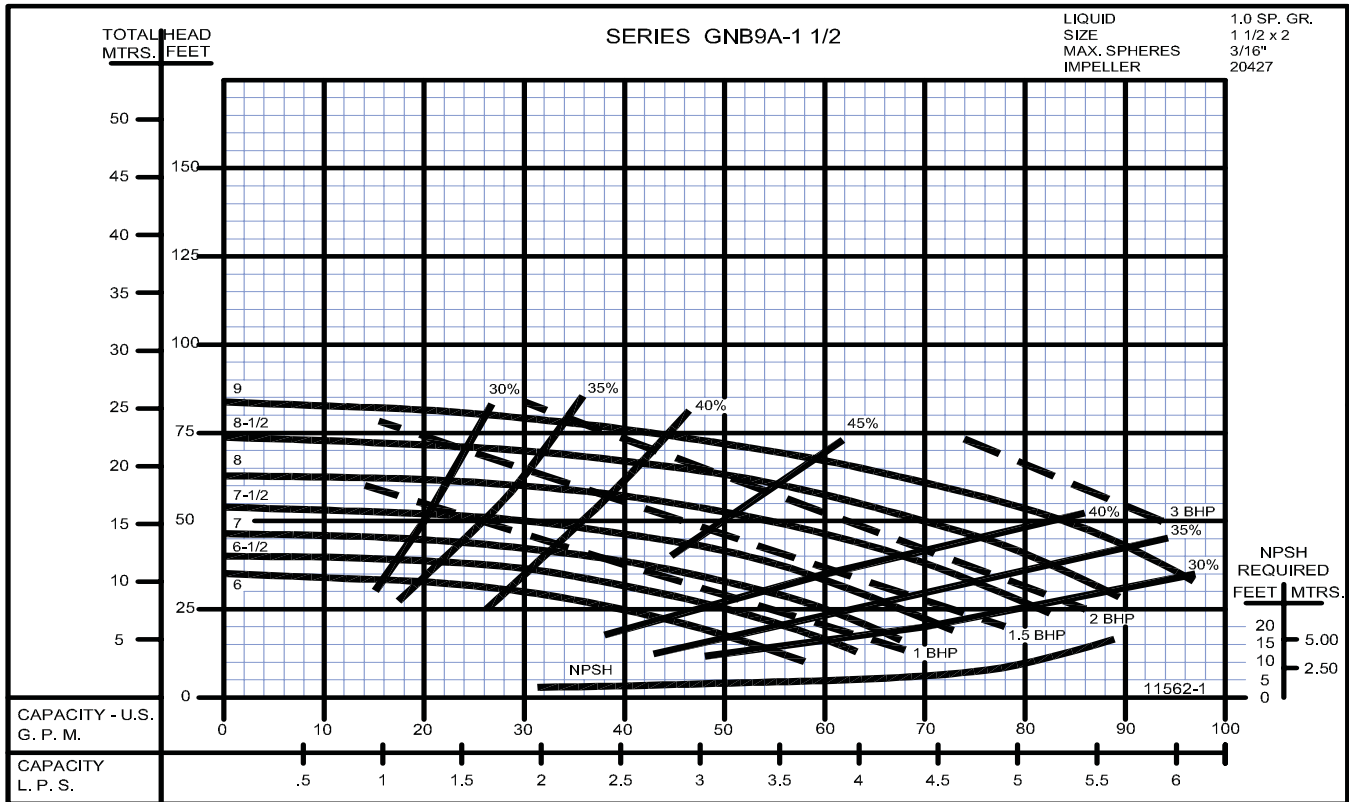
SECTION 3B
PAGE 16
DATE 1/06



A Crane Co. Company

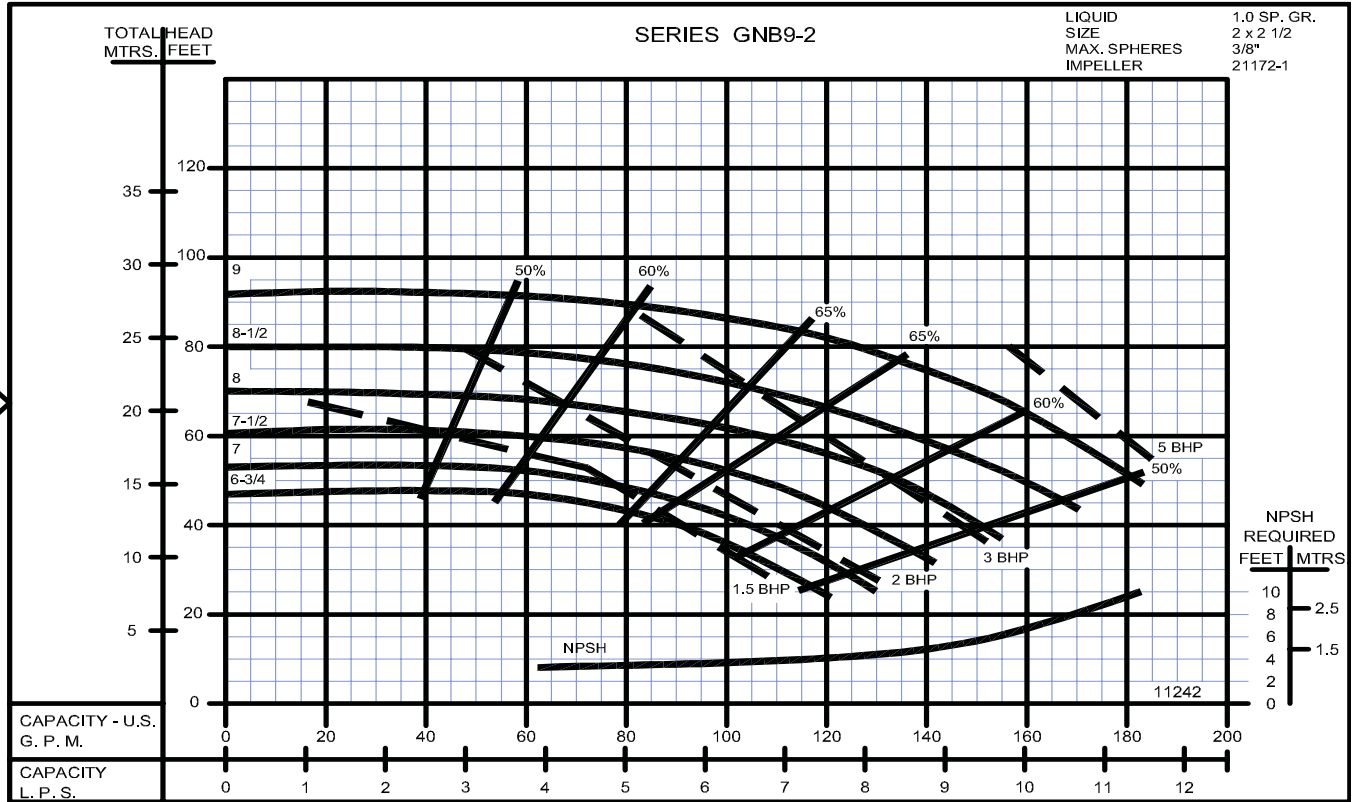
PUMPS & SYSTEMS

Base Mounted Centrifugal Pumps

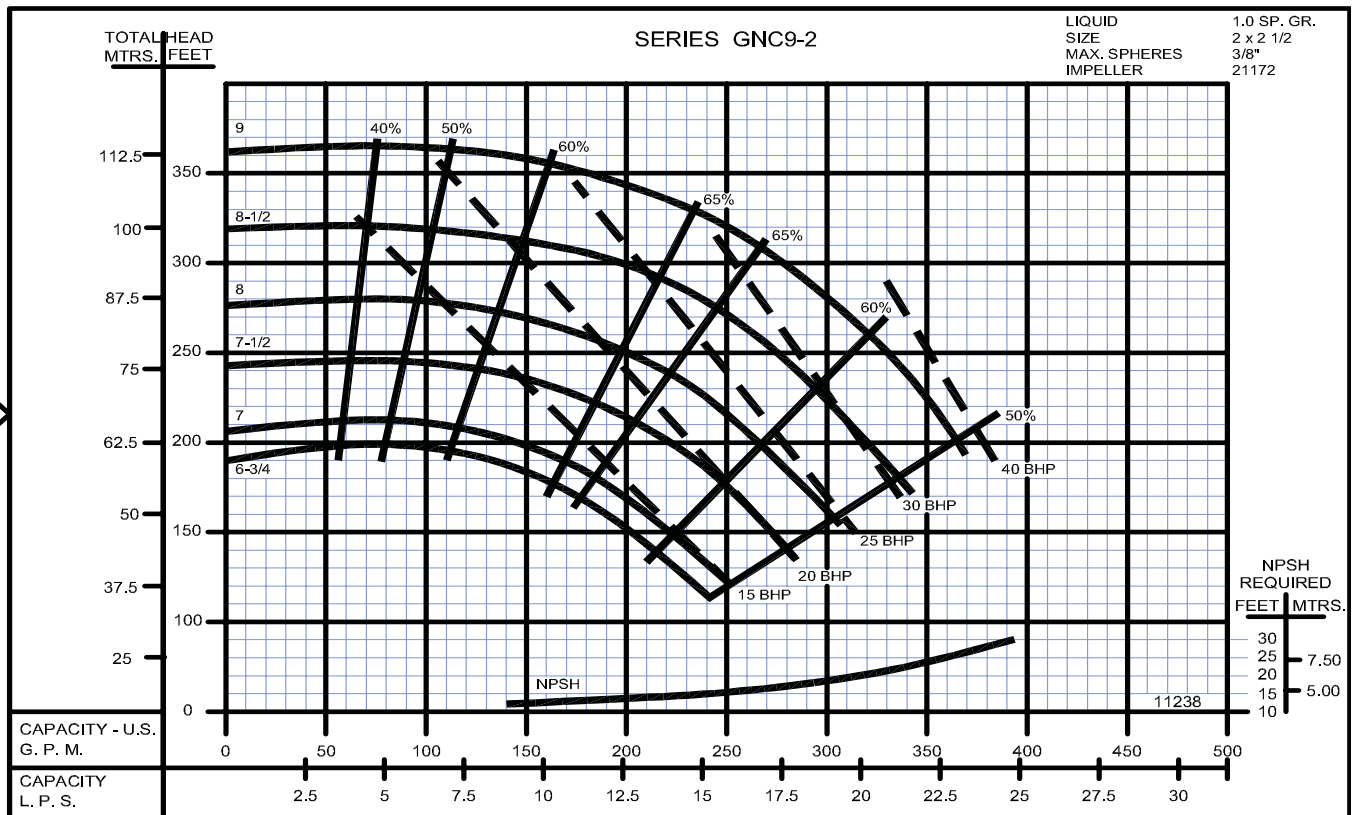


Base Mounted Centrifugal Pumps

1750 RPM



3500 RPM

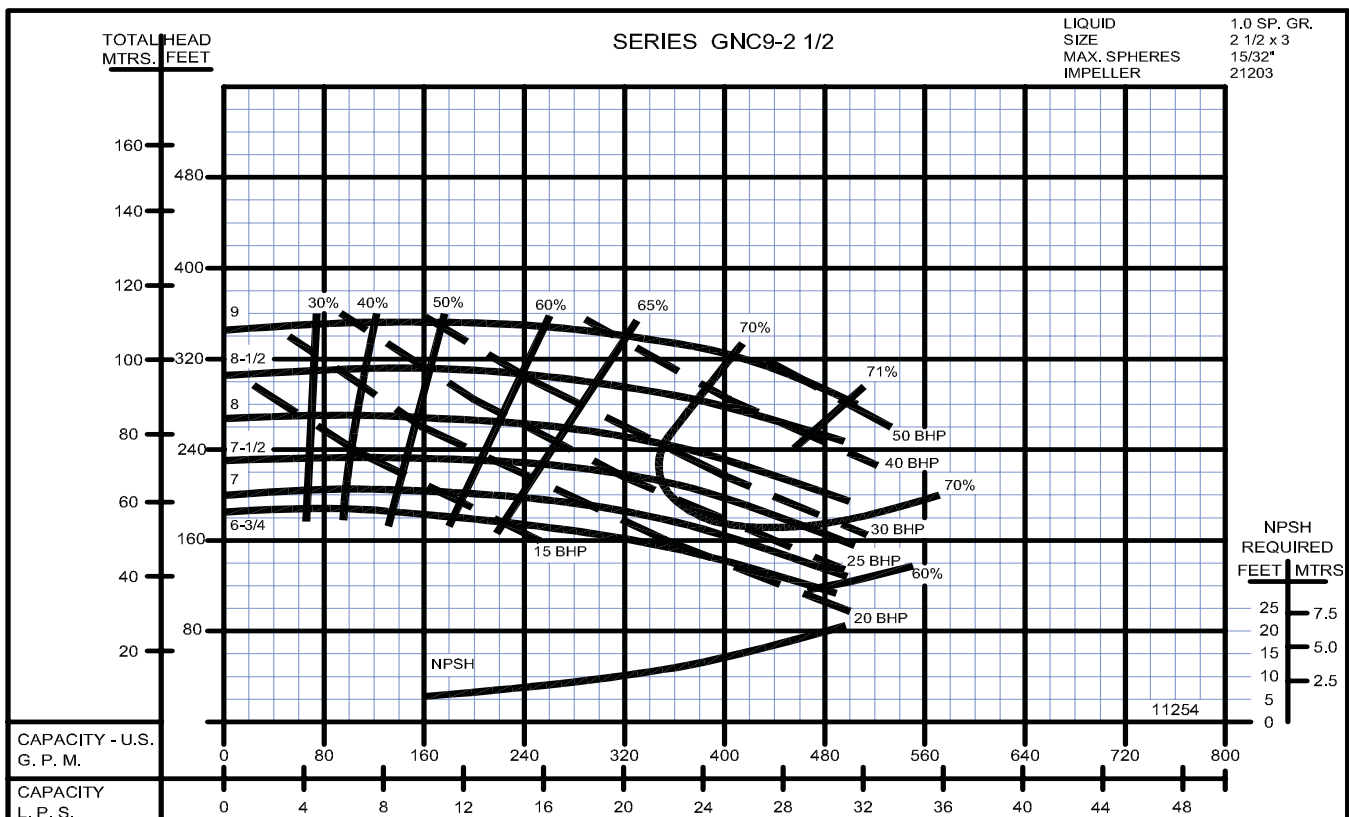
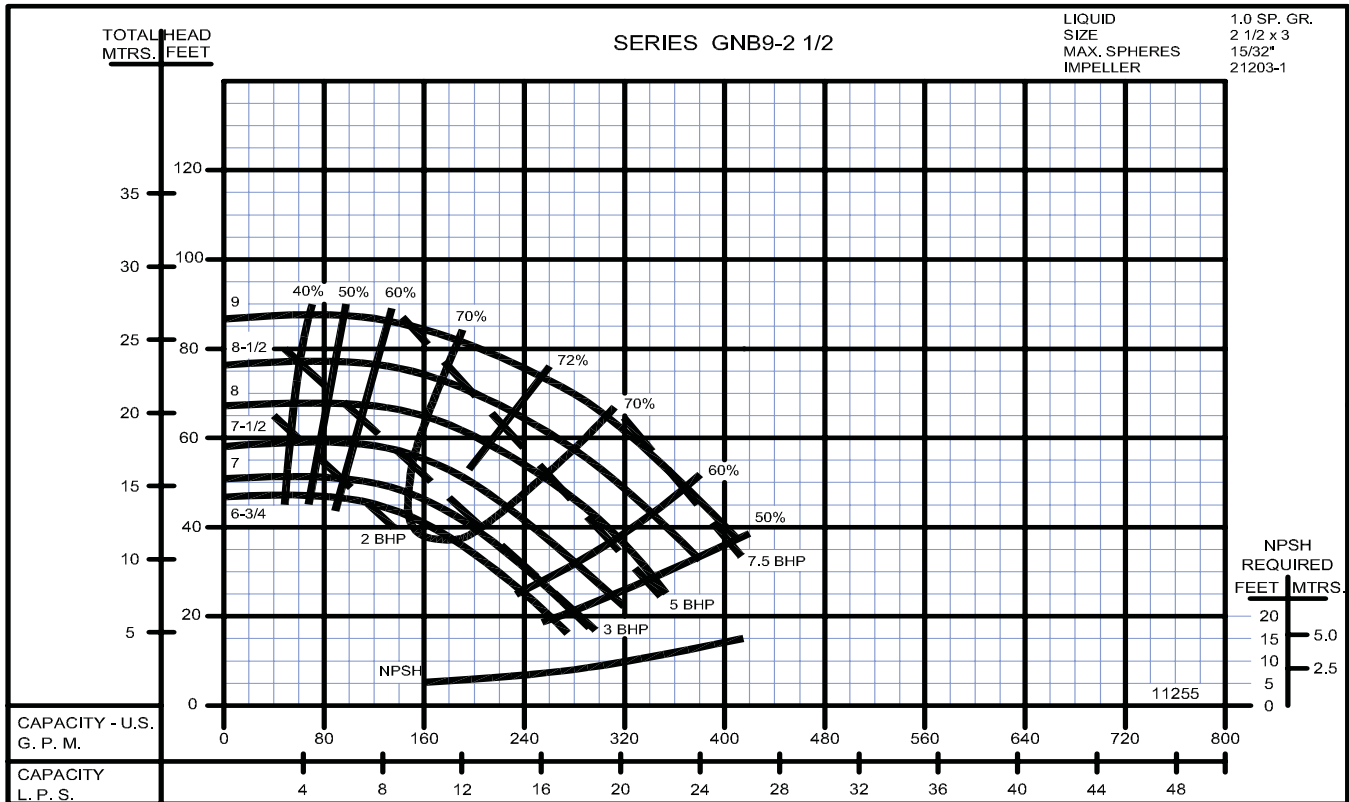


SECTION 3B
PAGE 18
DATE 1/06

CRANE[®]

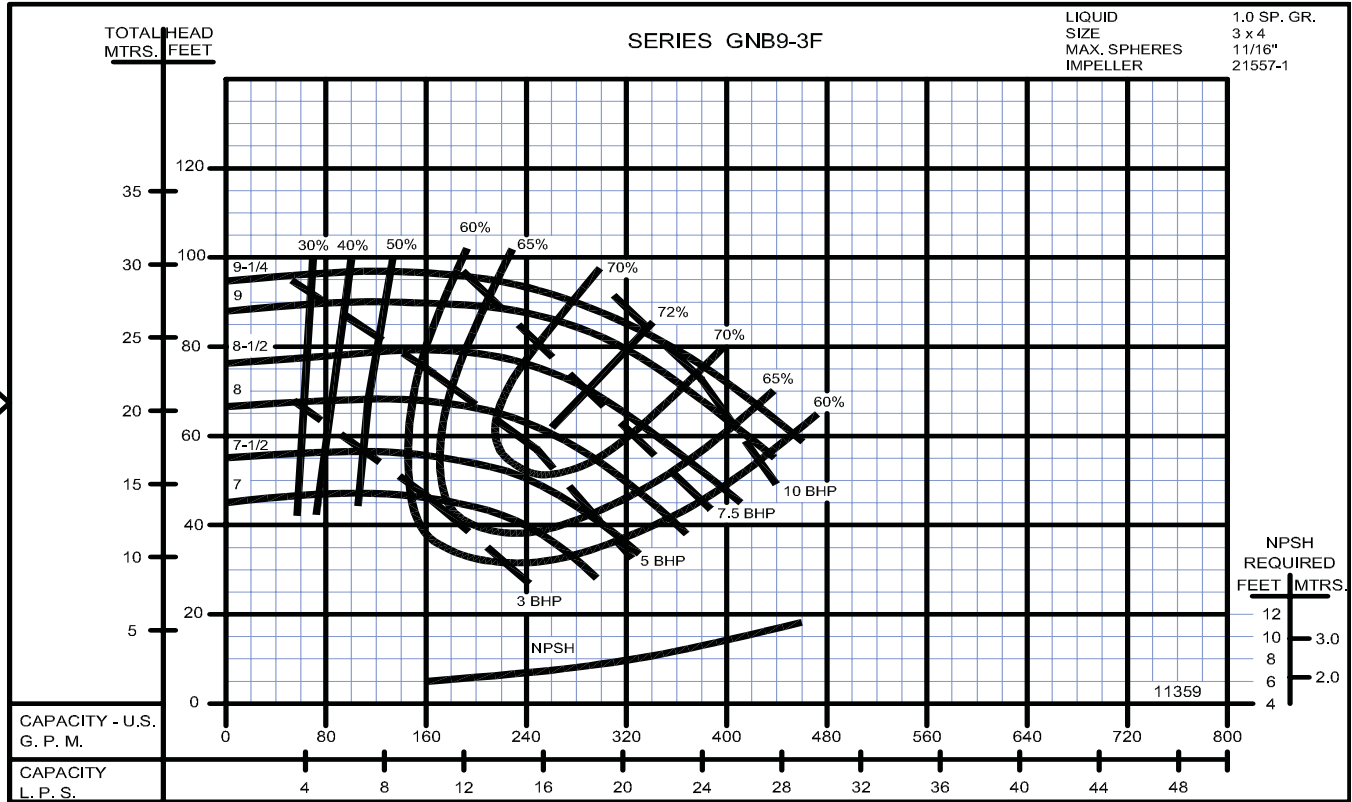
PUMPS & SYSTEMS

Base Mounted Centrifugal Pumps

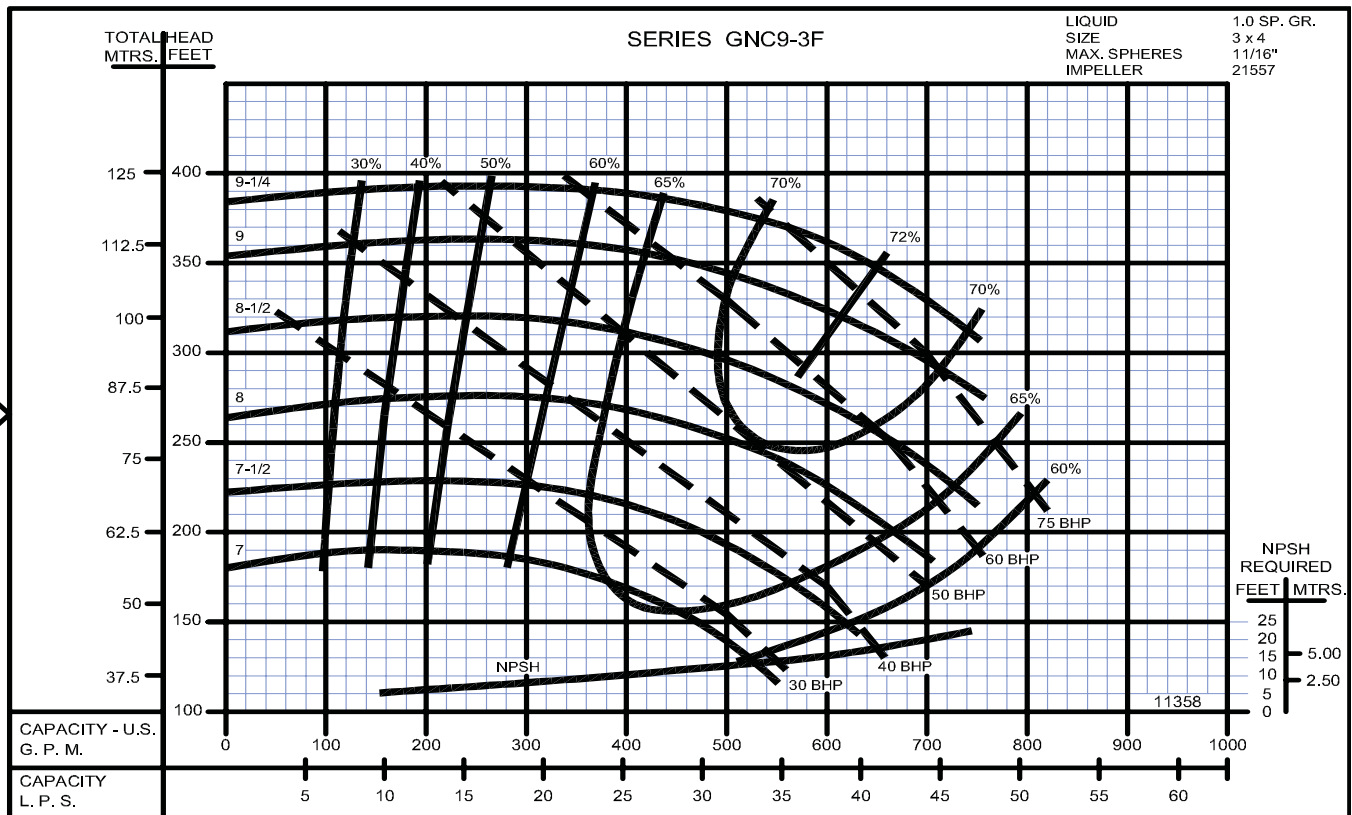


Base Mounted Centrifugal Pumps

1750 RPM



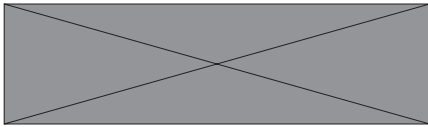
3500 RPM



SECTION 3B
PAGE 20
DATE 1/06



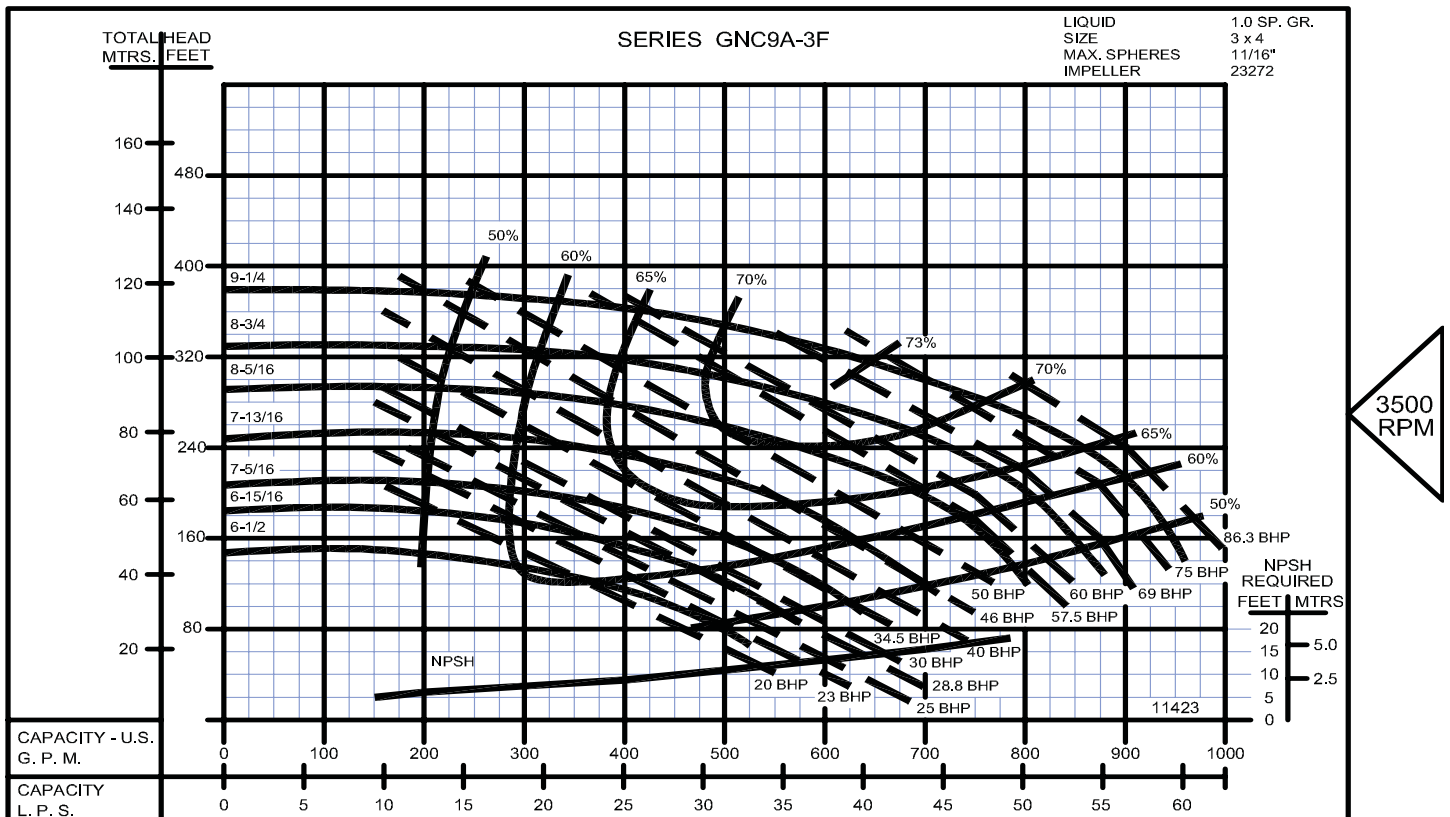
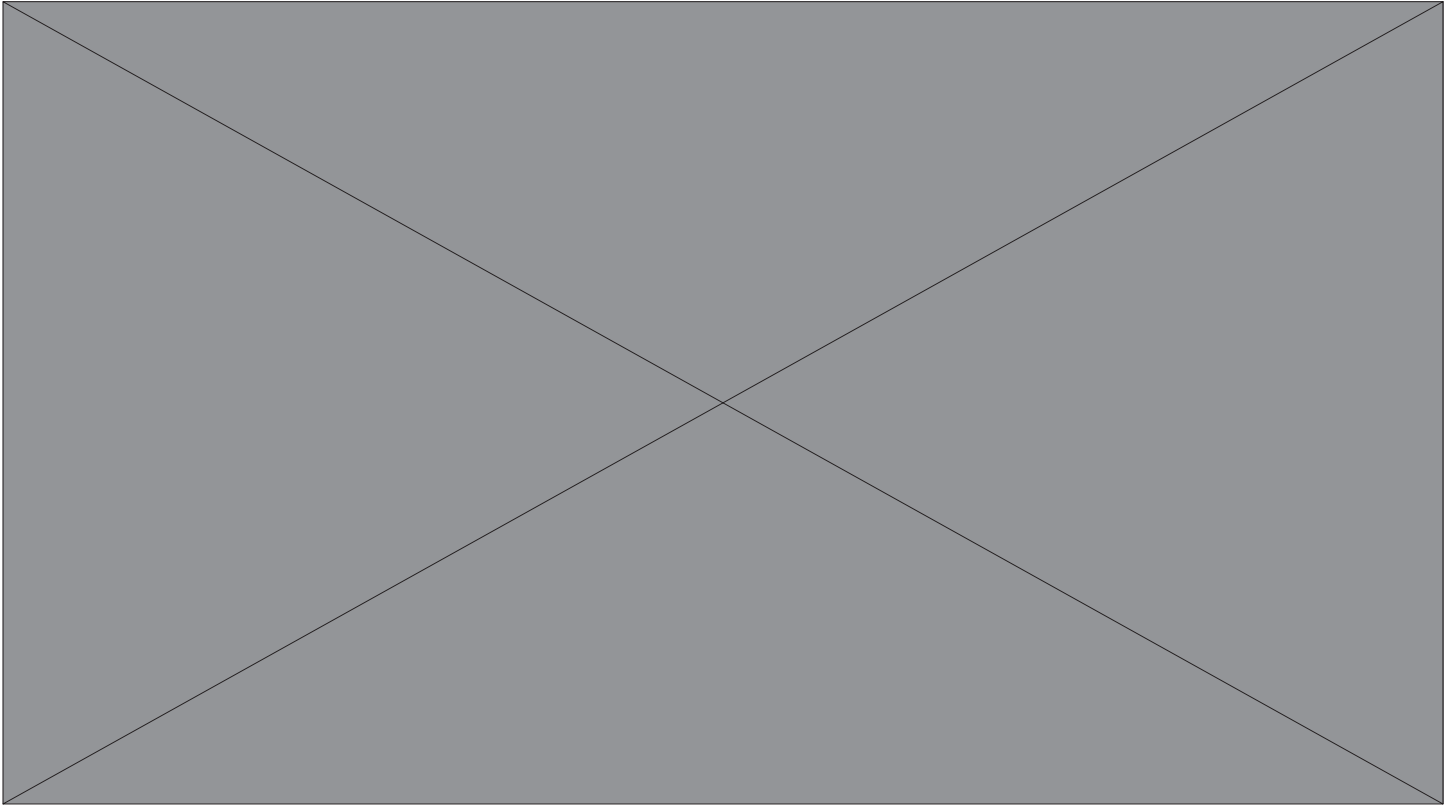
PUMPS & SYSTEMS



www.cranepumps.com

Series: GNB, GNC
60 Hz. Performance

Base Mounted Centrifugal Pumps



PUMPS & SYSTEMS

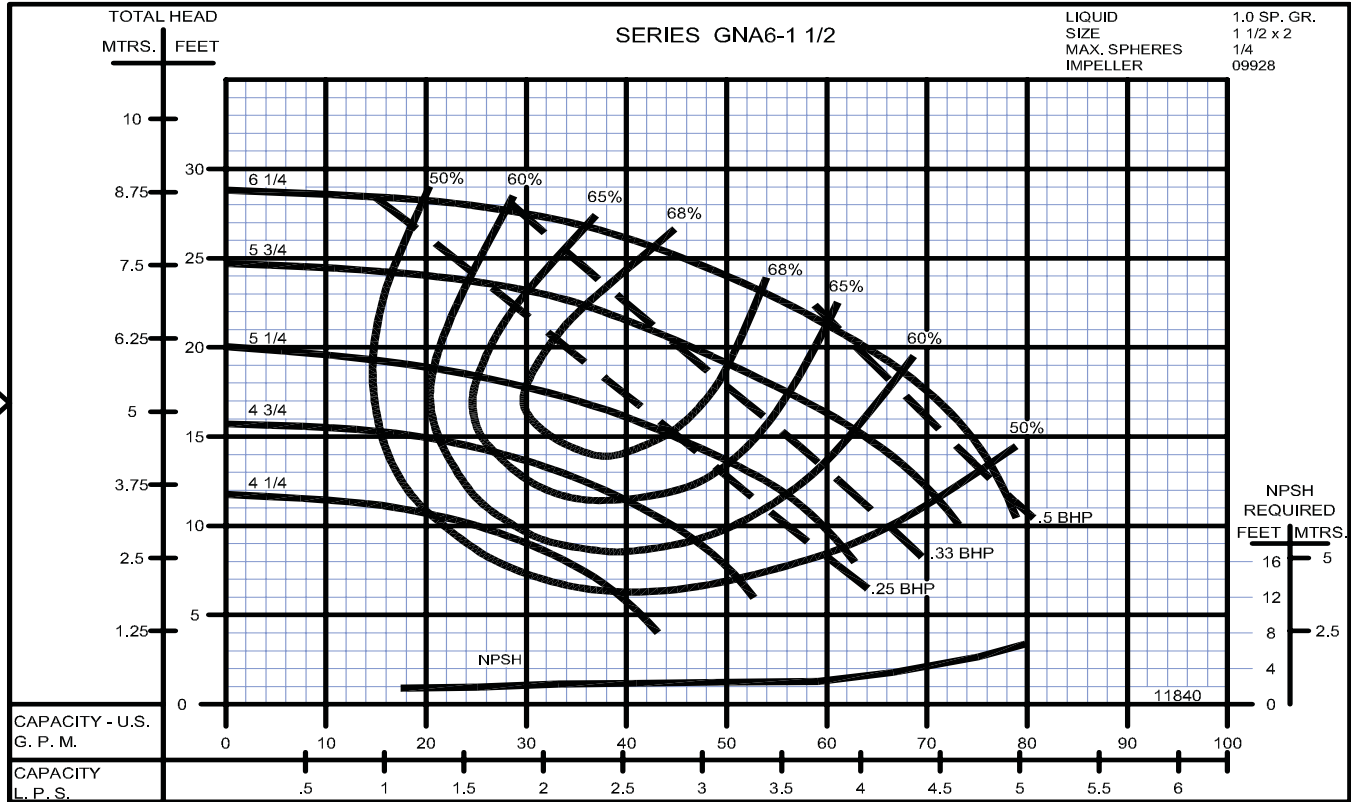
SECTION 3B
PAGE 21
DATE 2/09

A Crane Co. Company

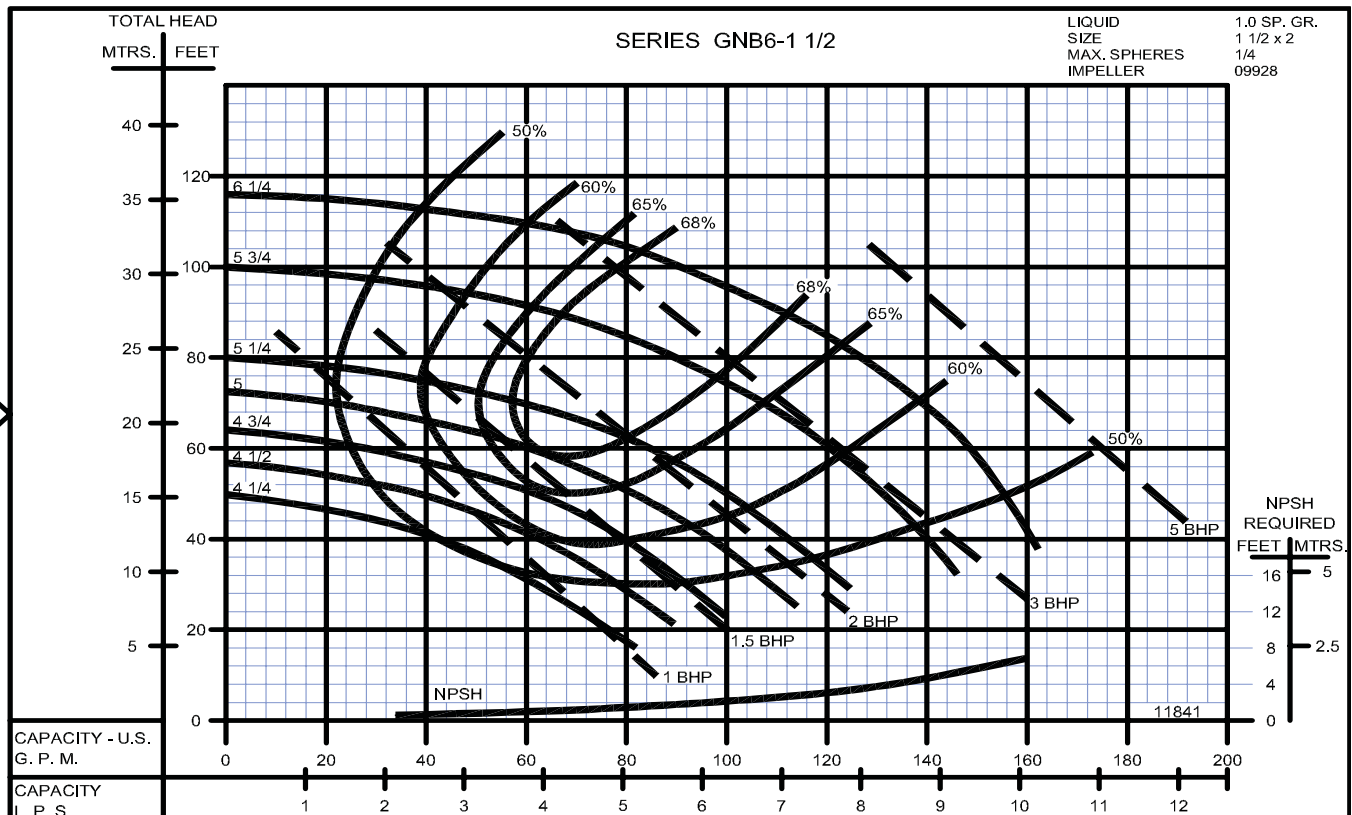
USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

Base Mounted Centrifugal Pumps

1450 RPM



2900 RPM



SECTION 3B
PAGE 22
DATE 1/06

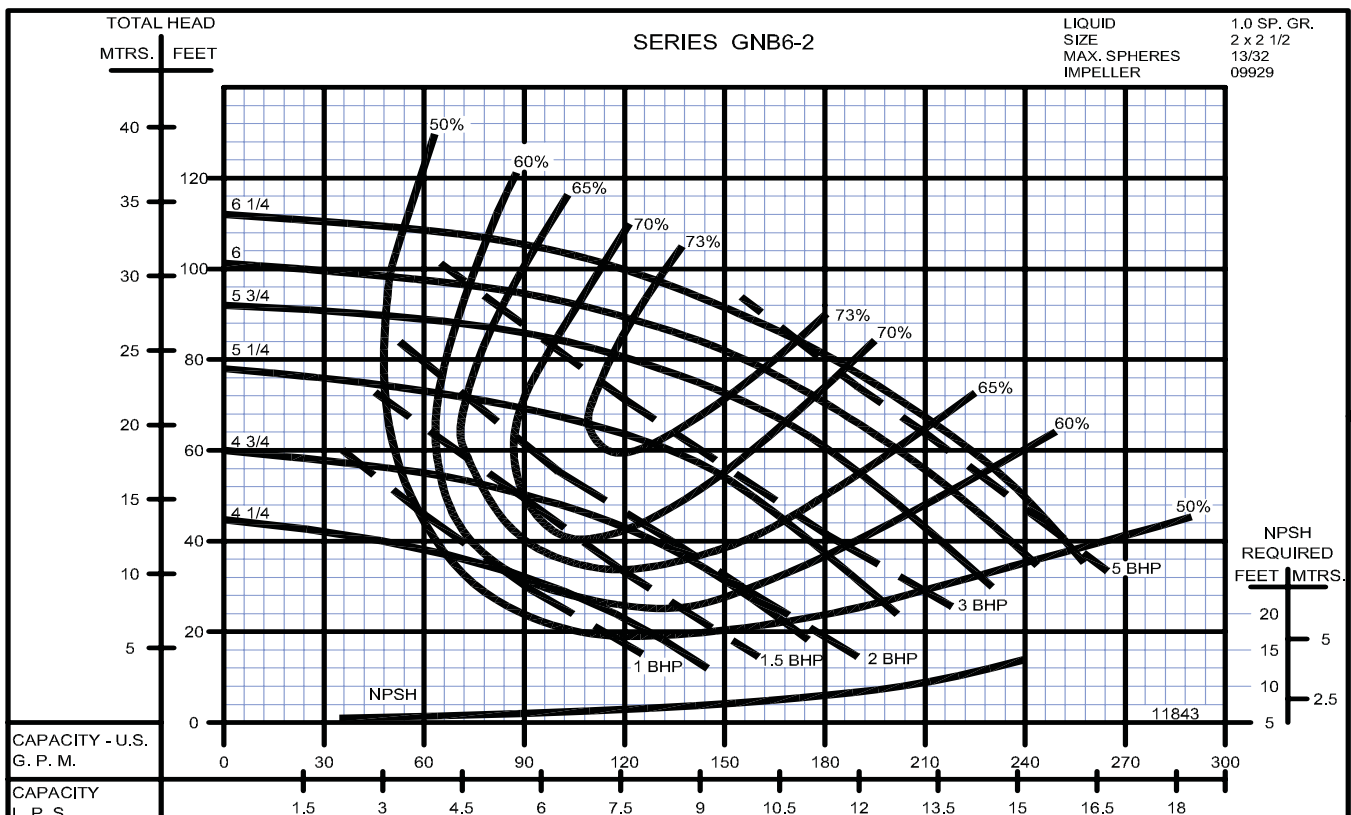
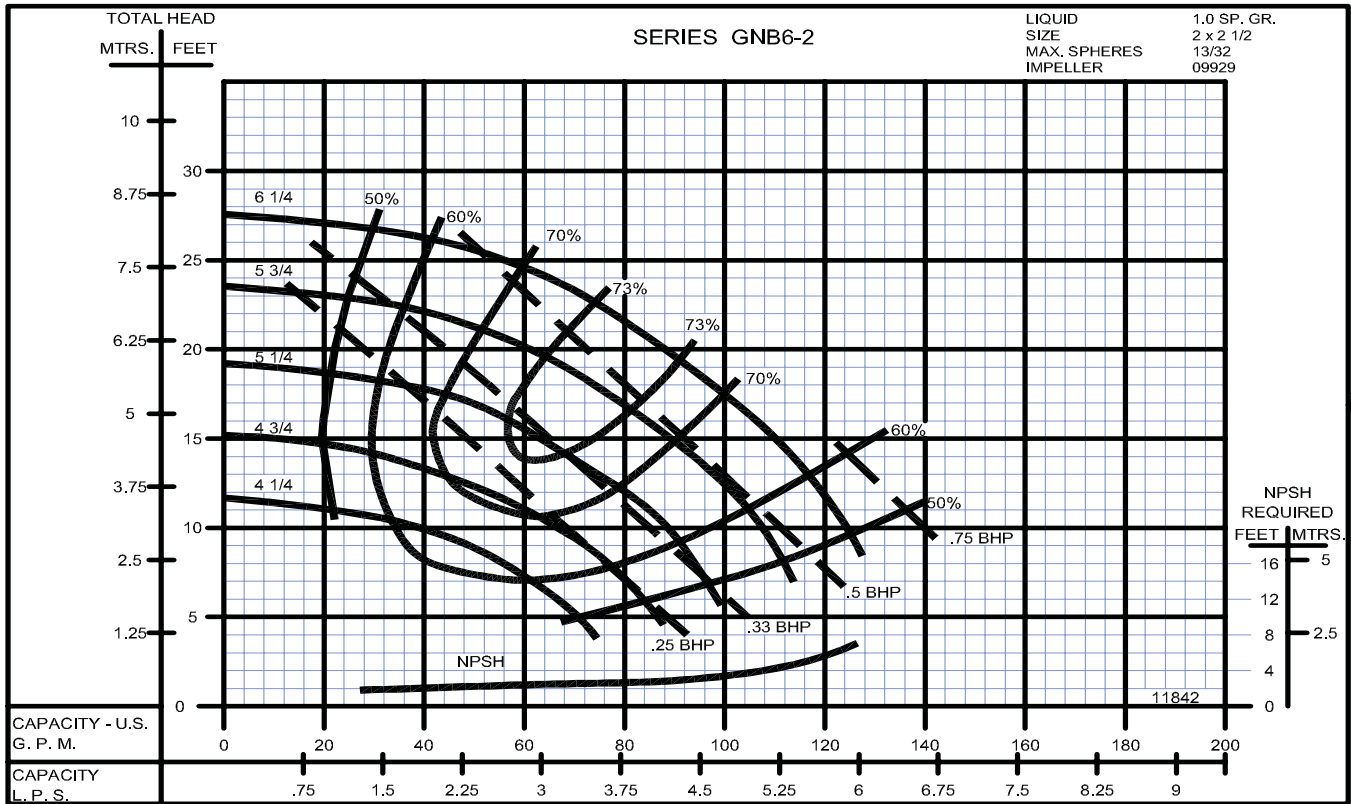


PUMPS & SYSTEMS

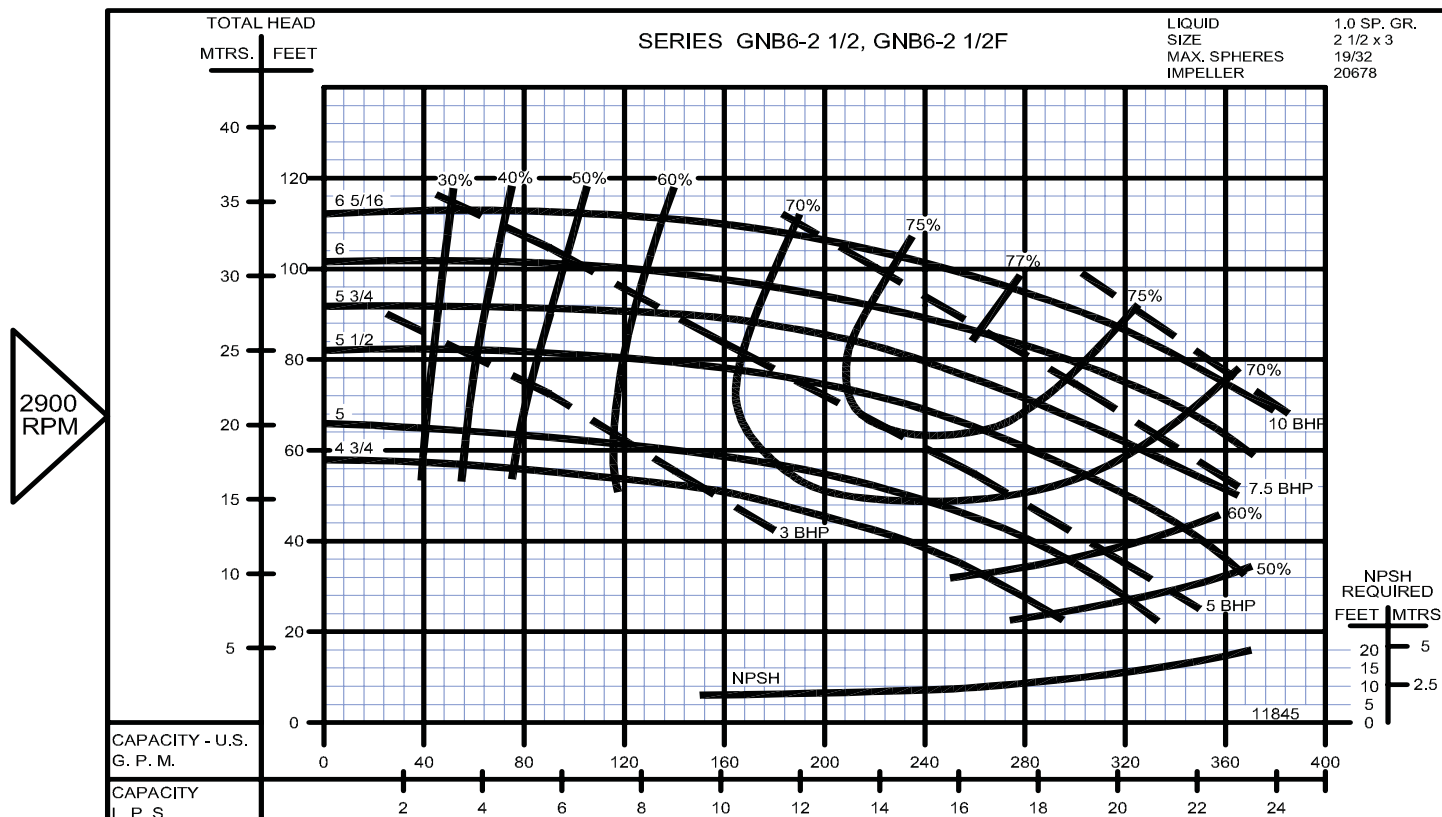
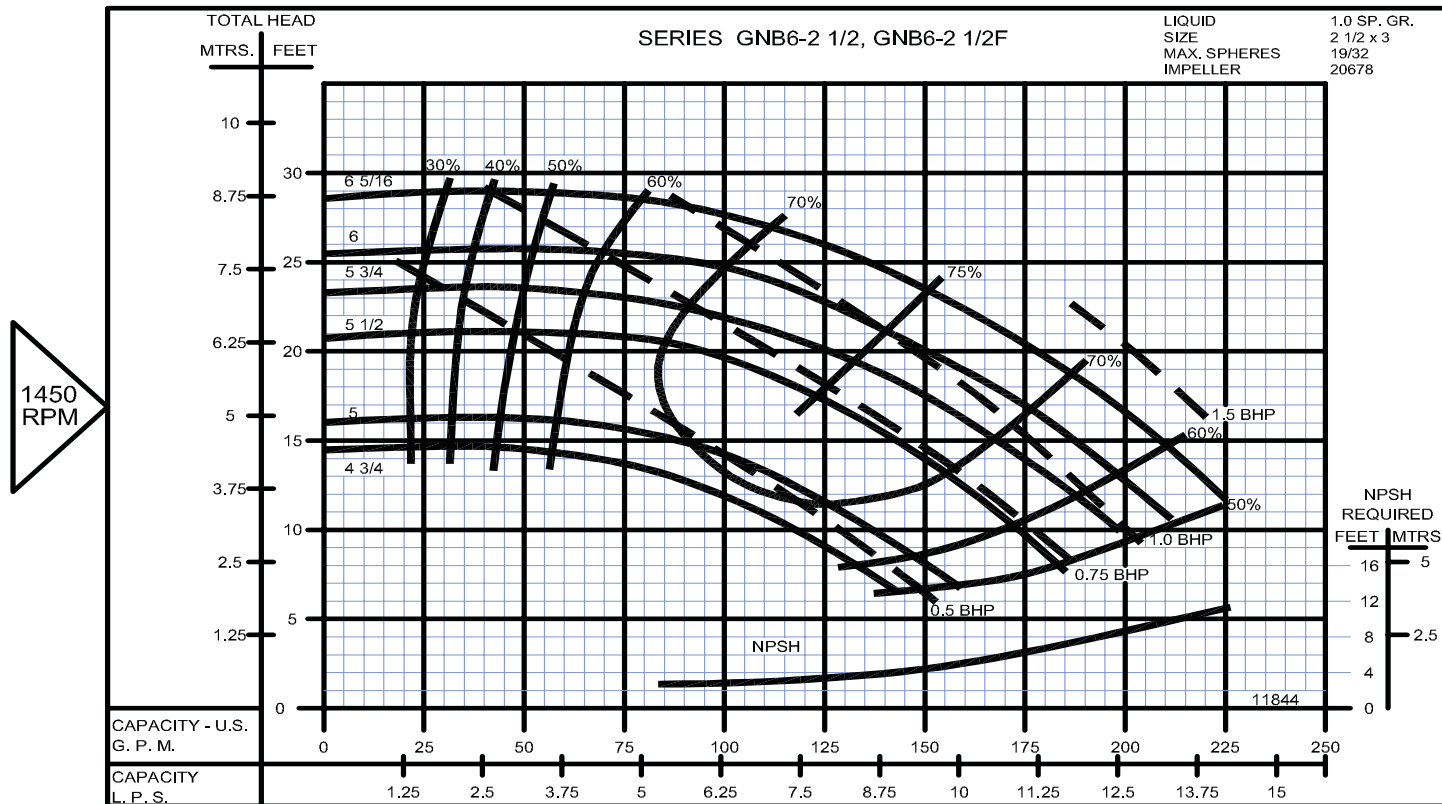
A Crane Co. Company

USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

Base Mounted Centrifugal Pumps



Base Mounted Centrifugal Pumps



SECTION 3B
PAGE 24
DATE 1/06

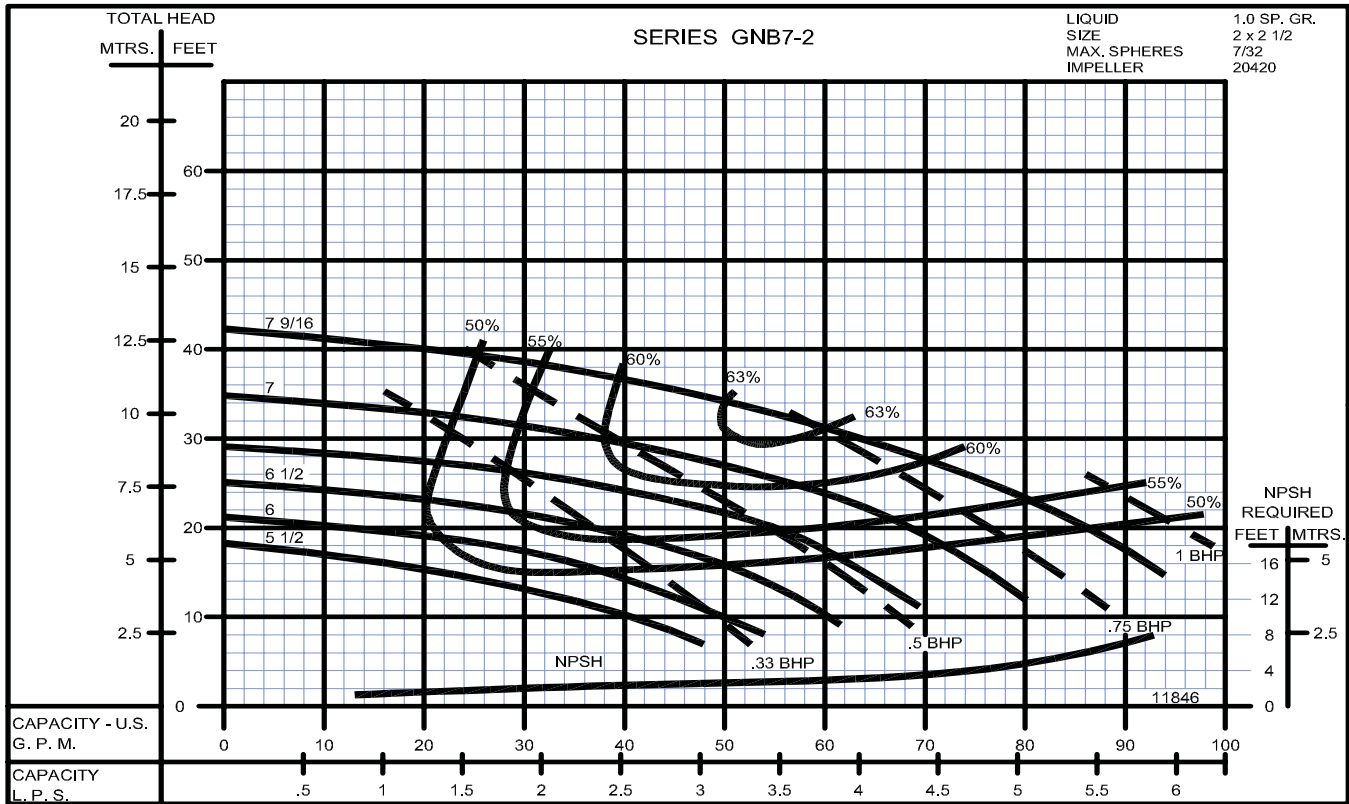


PUMPS & SYSTEMS

A Crane Co. Company

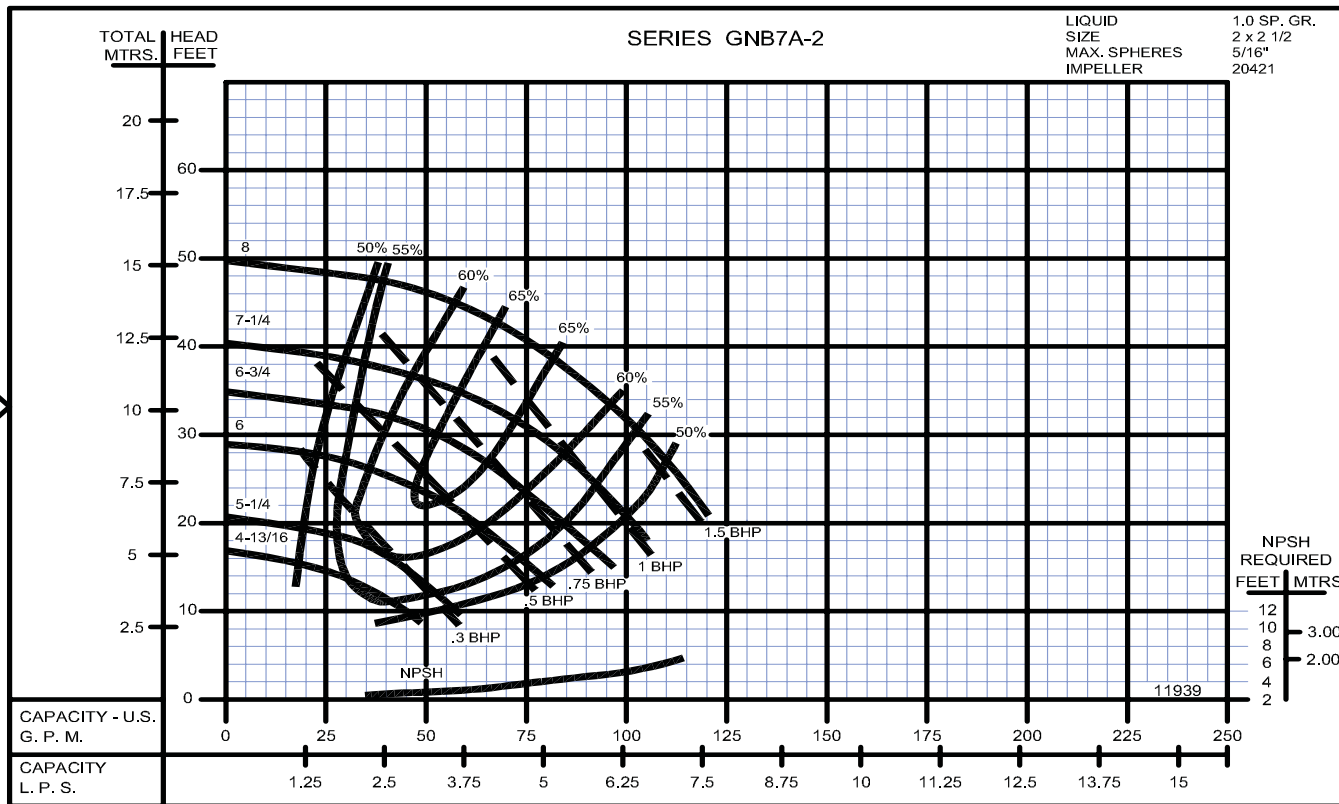
USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

Base Mounted Centrifugal Pumps

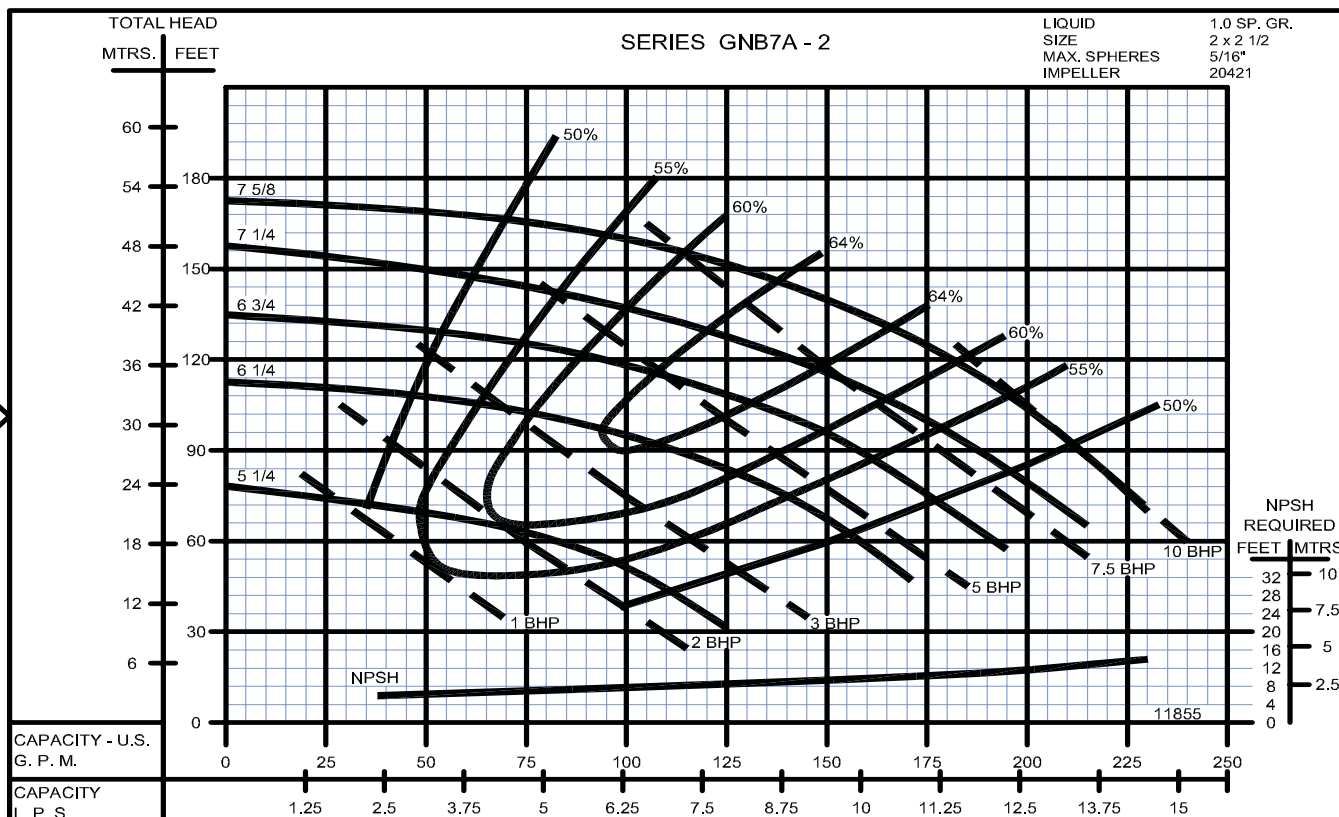


Base Mounted Centrifugal Pumps

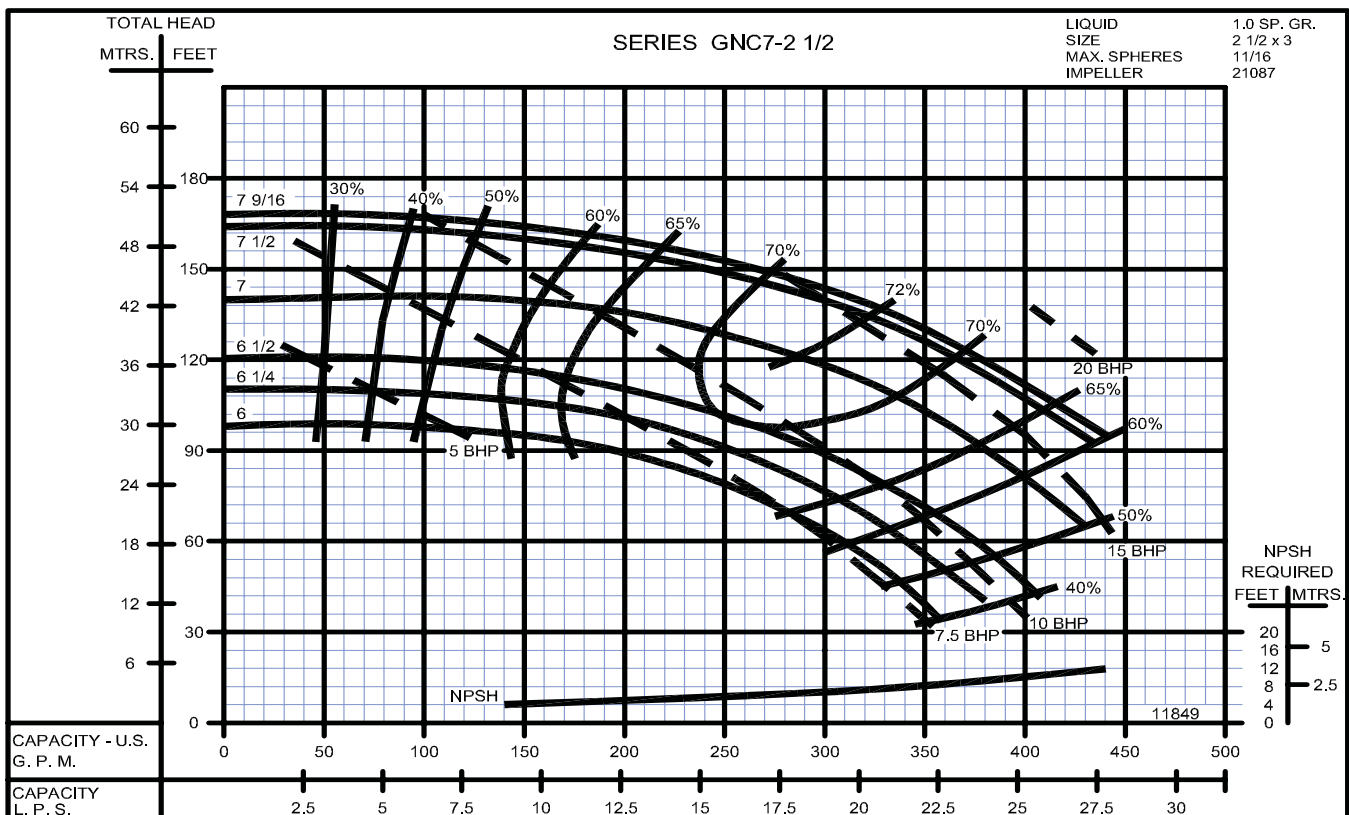
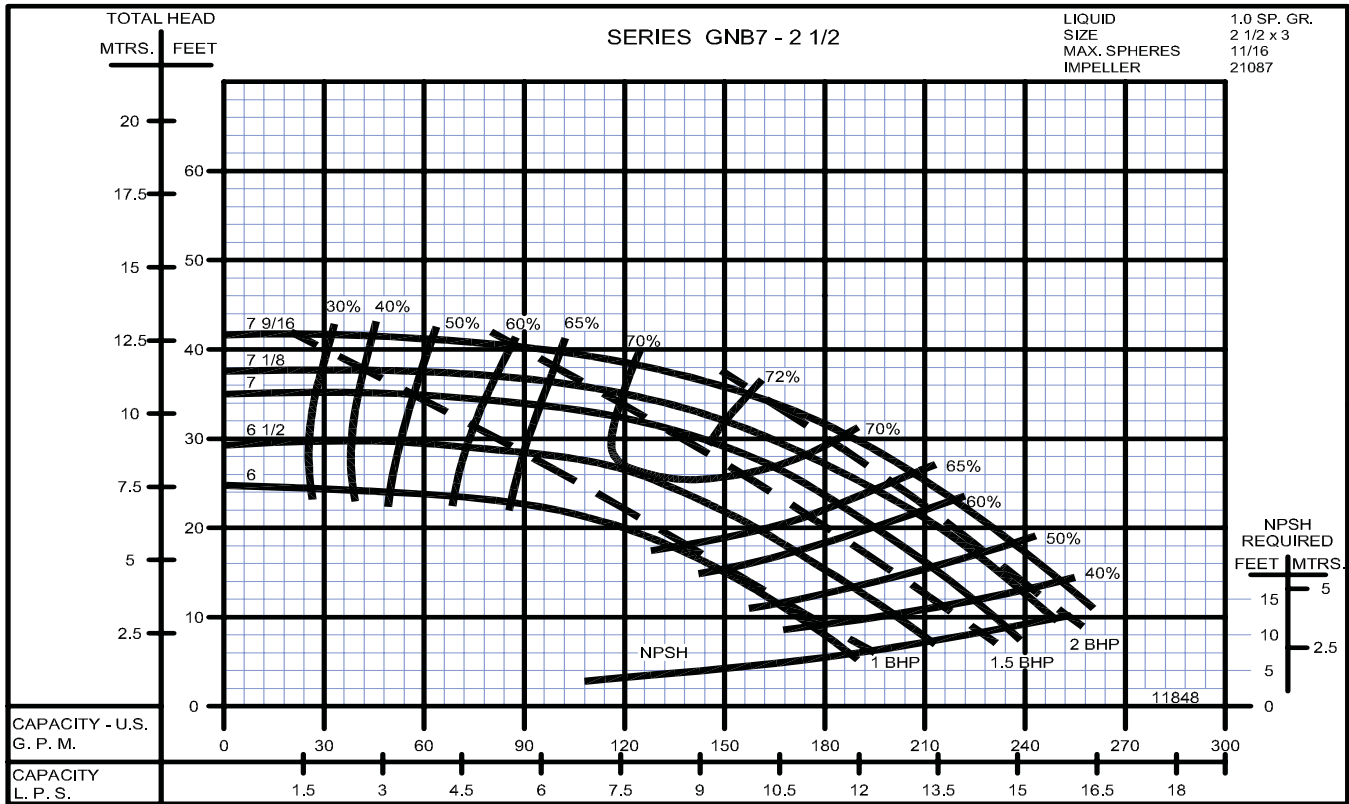
1450
RPM



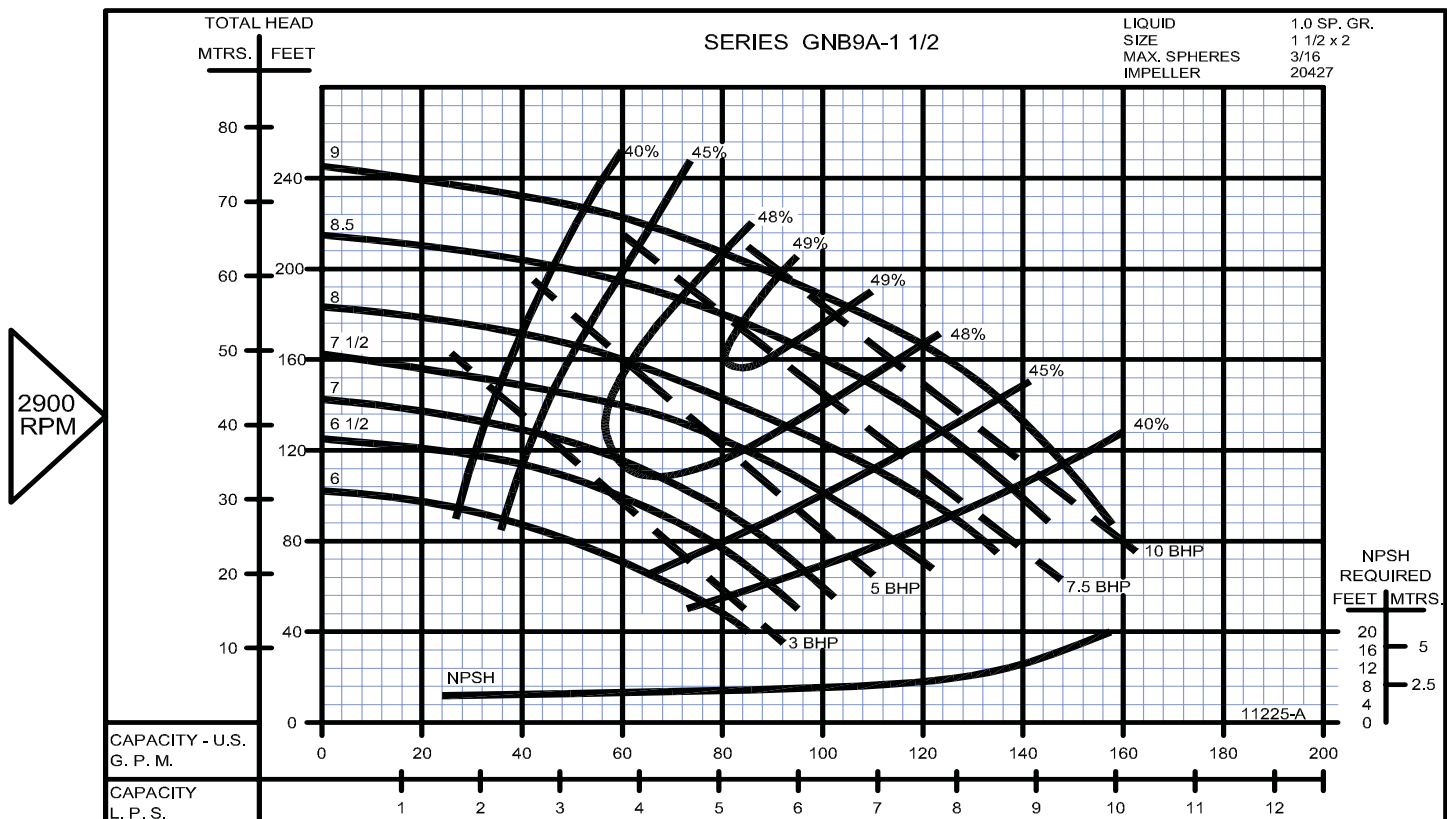
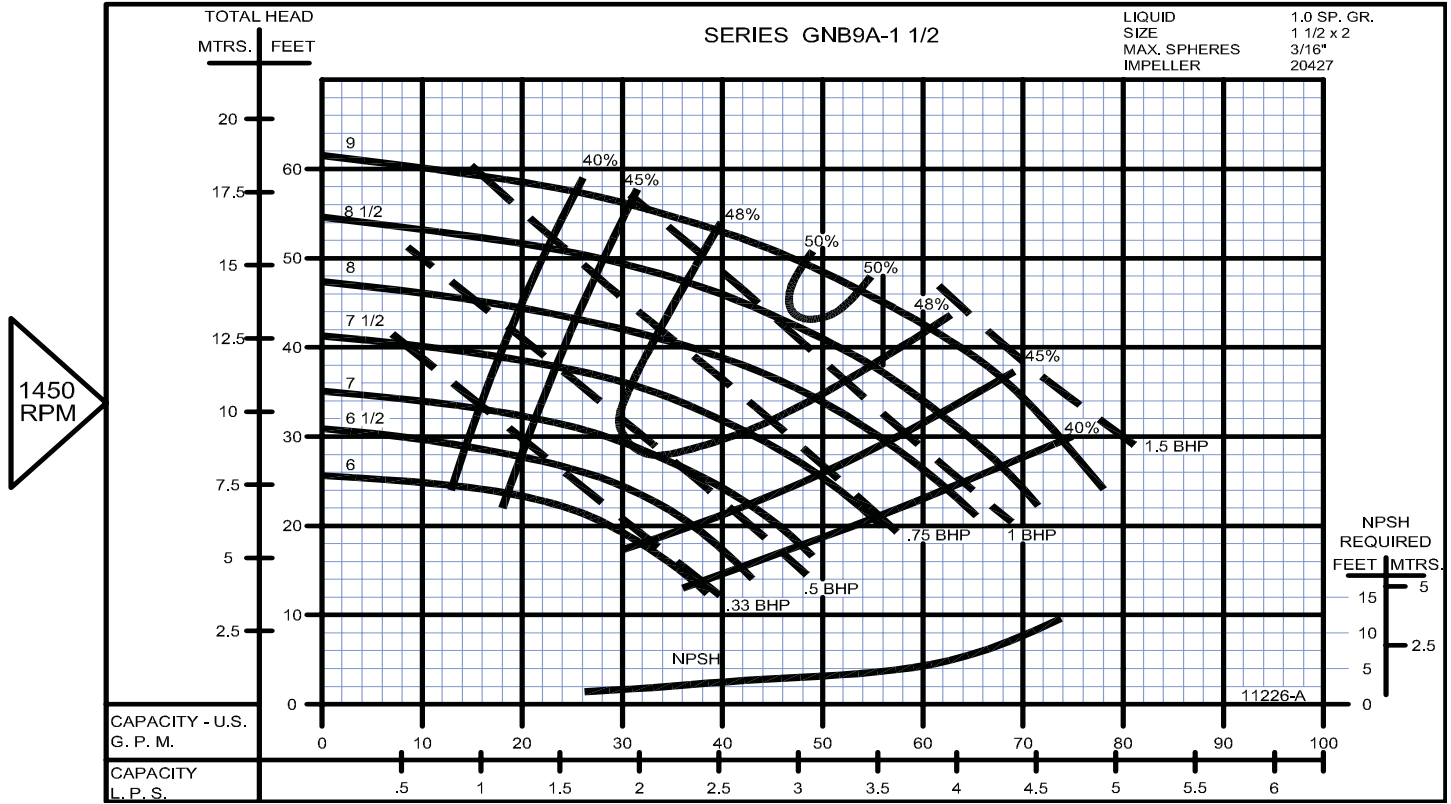
2900
RPM



Base Mounted Centrifugal Pumps



Base Mounted Centrifugal Pumps



SECTION 3B
PAGE 28
DATE 1/06

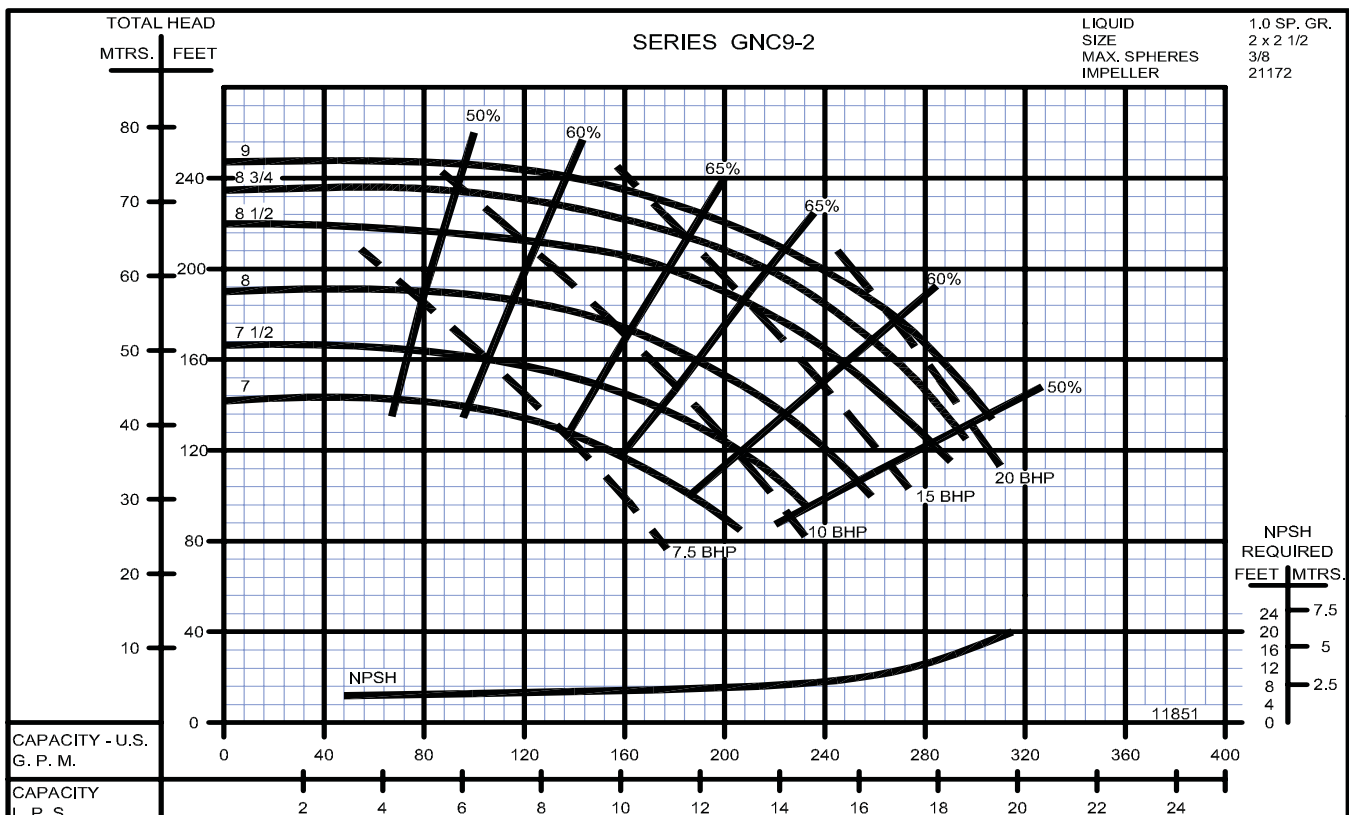
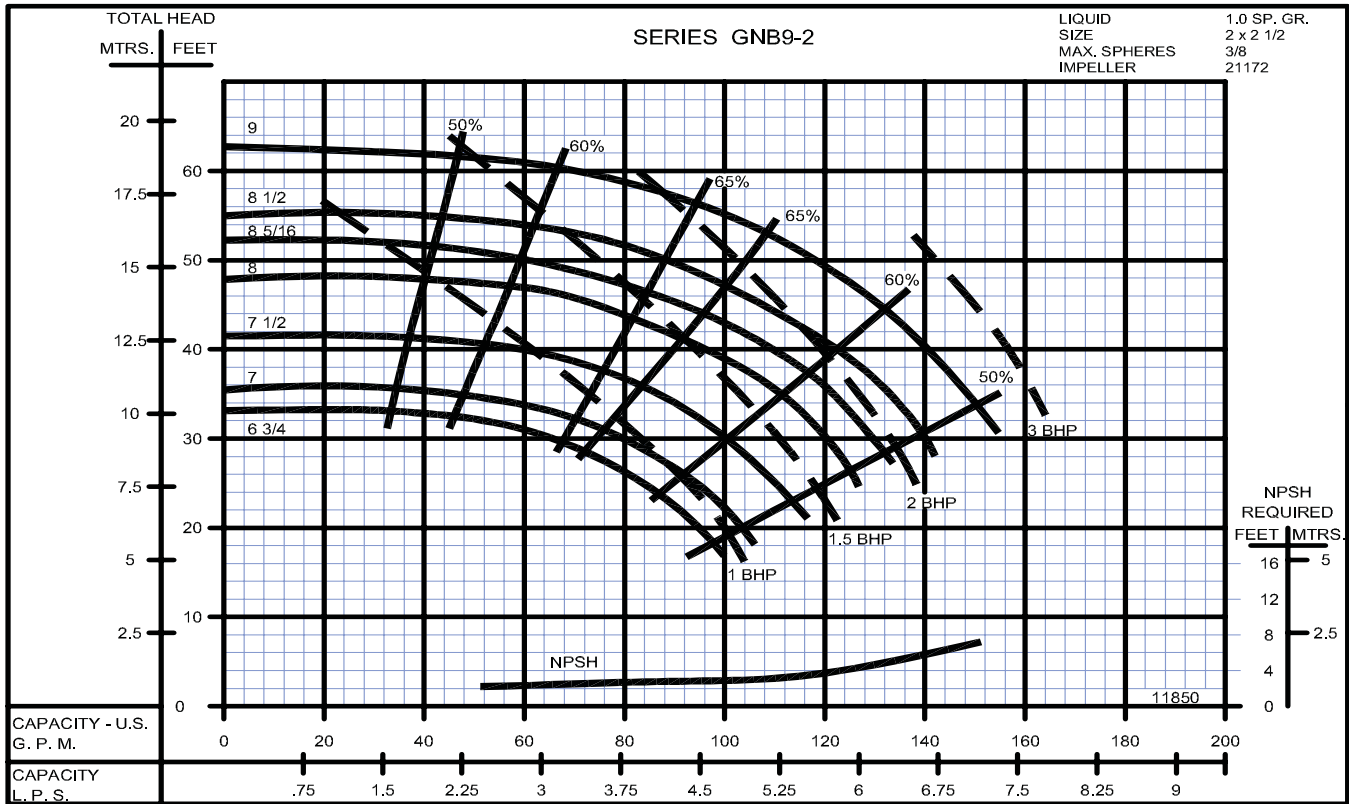


A Crane Co. Company

PUMPS & SYSTEMS

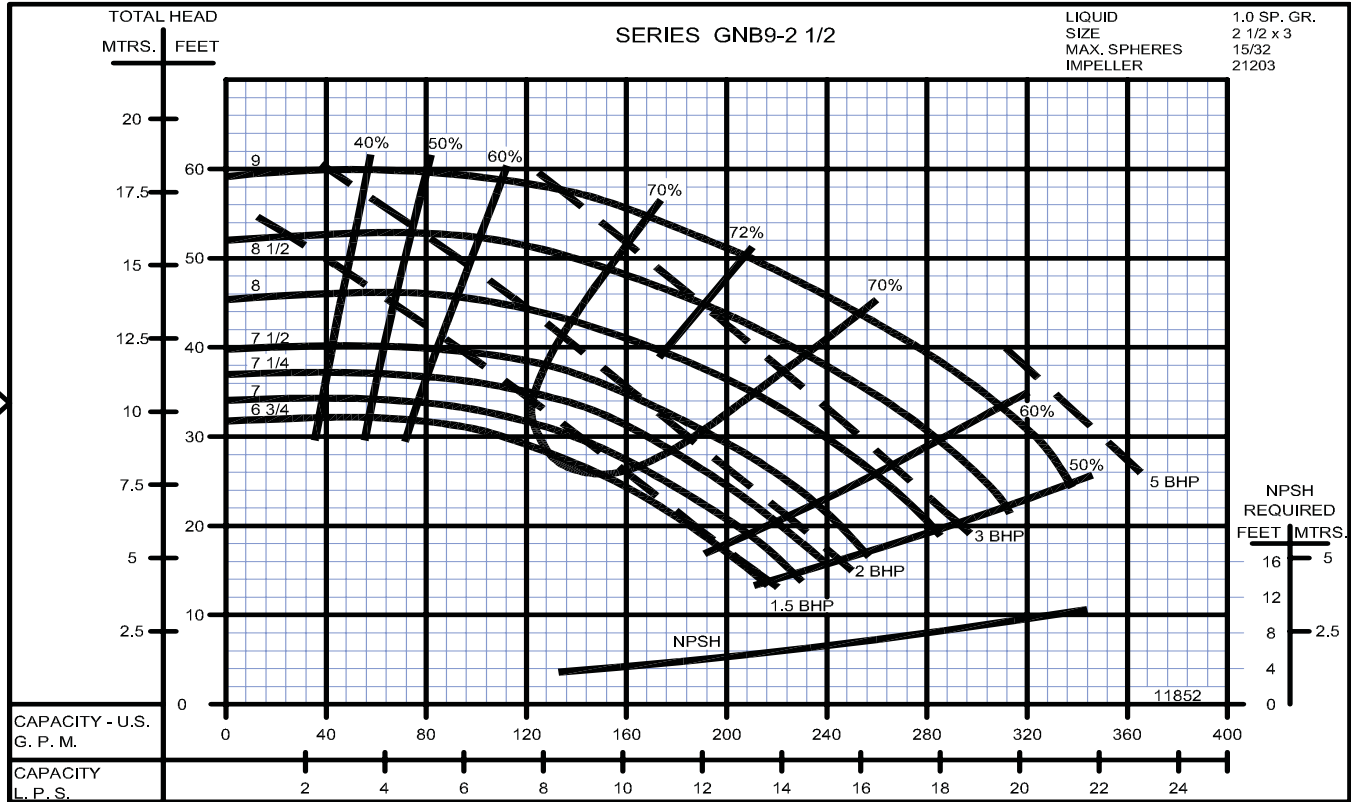
USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

Base Mounted Centrifugal Pumps

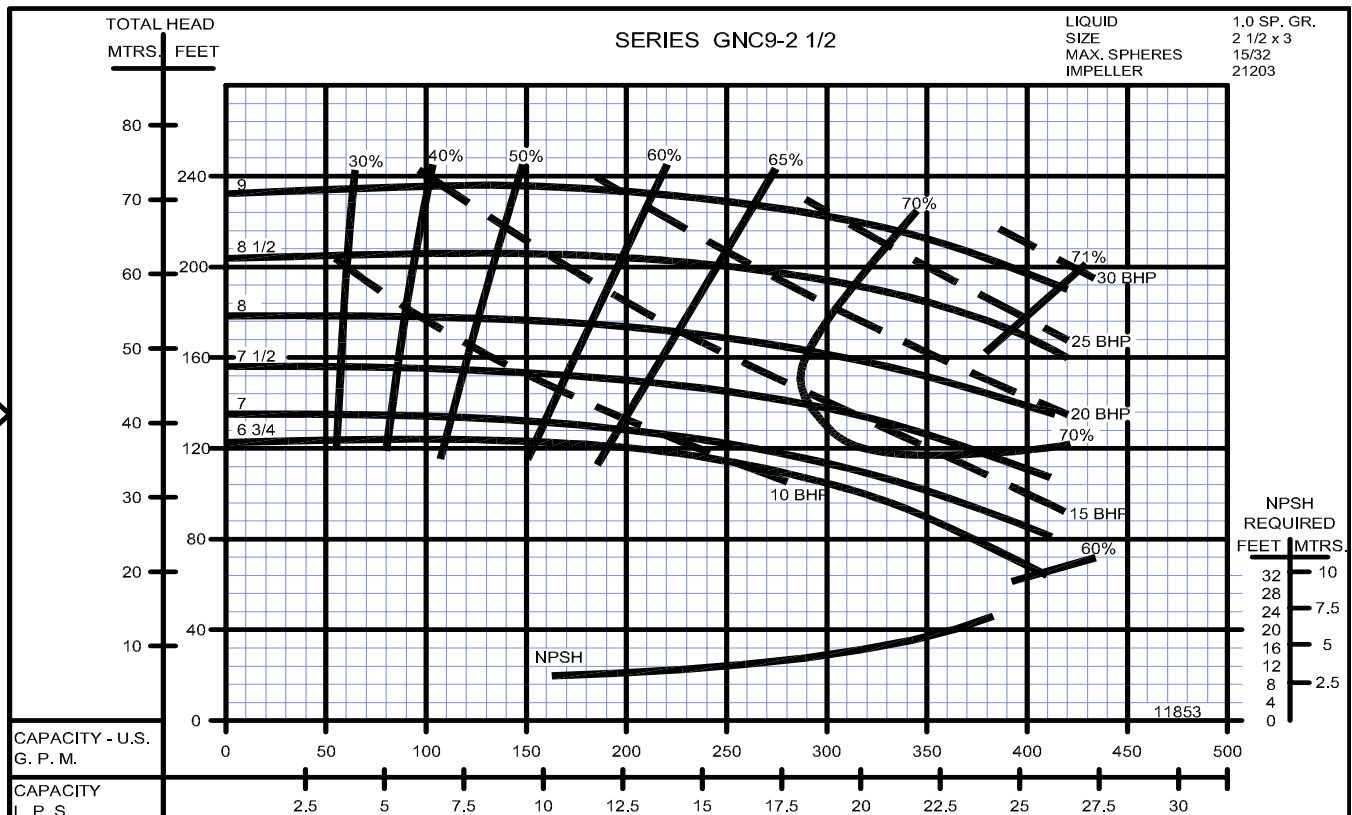


Base Mounted Centrifugal Pumps

1450 RPM



2900 RPM



SECTION 3B
PAGE 30
DATE 1/06

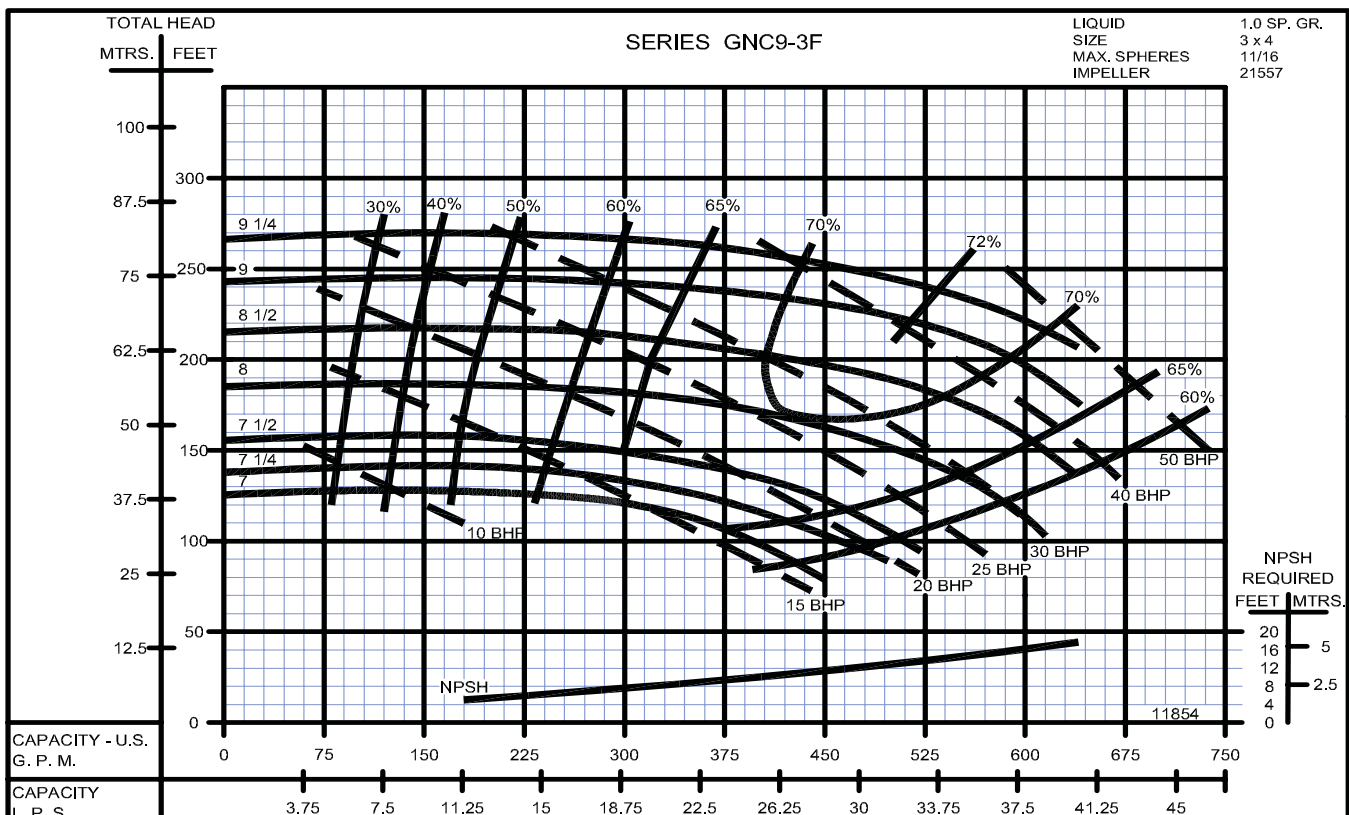
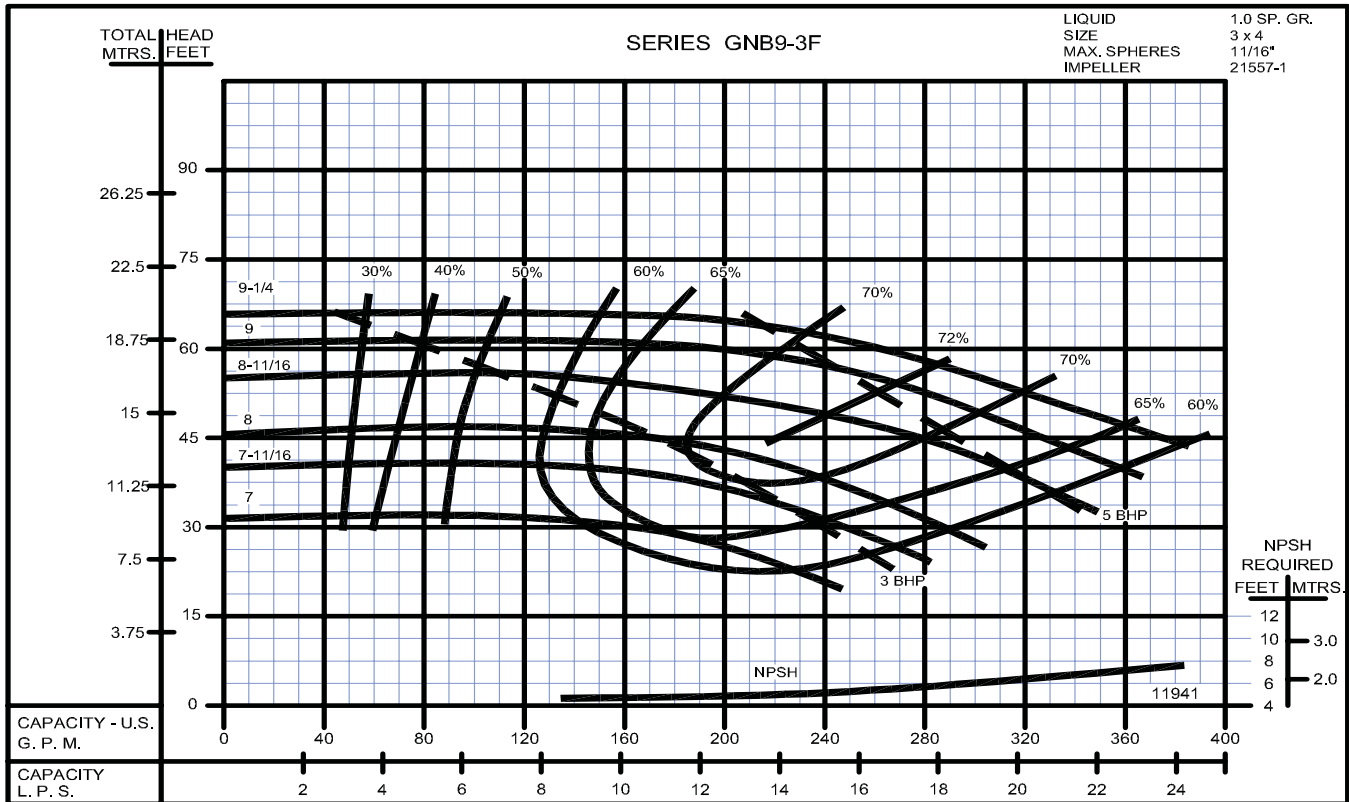


A Crane Co. Company

PUMPS & SYSTEMS

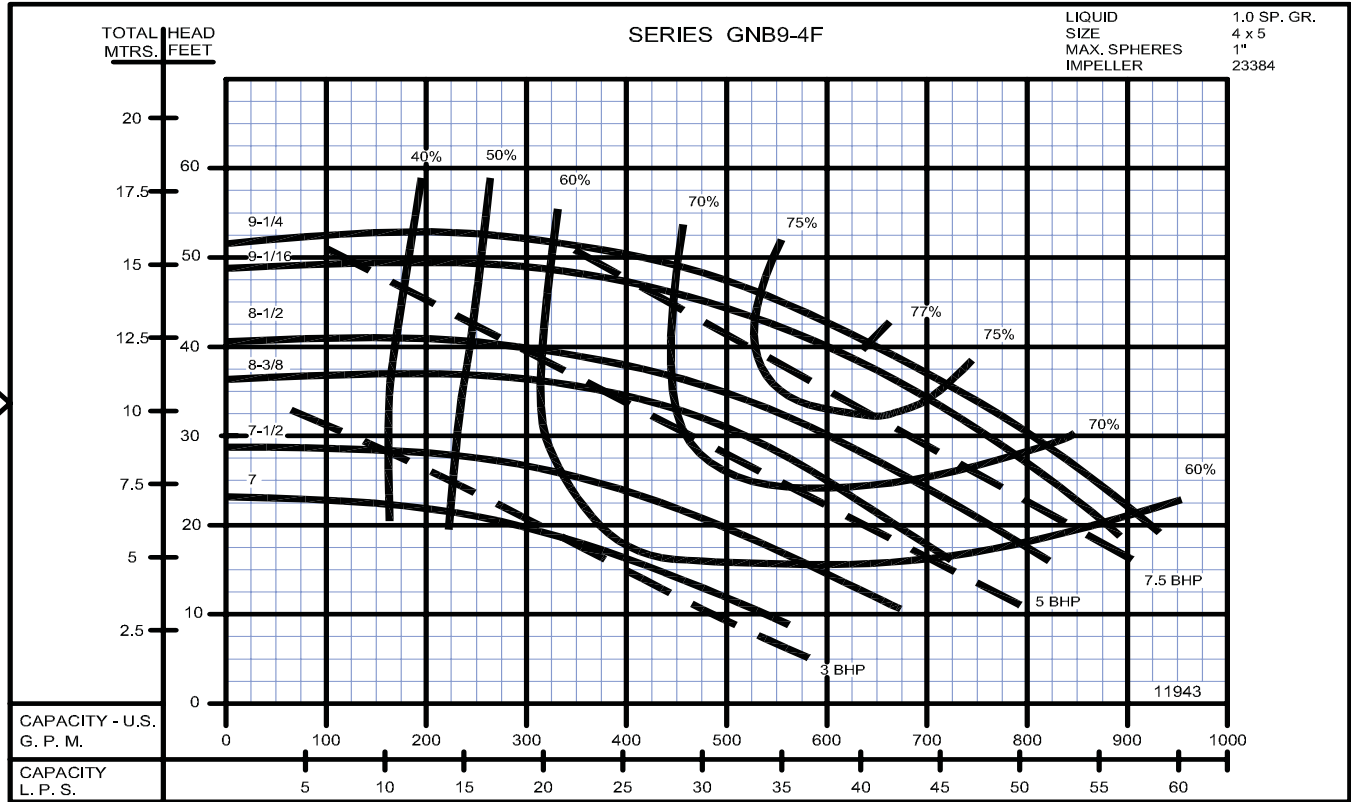
USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

Base Mounted Centrifugal Pumps

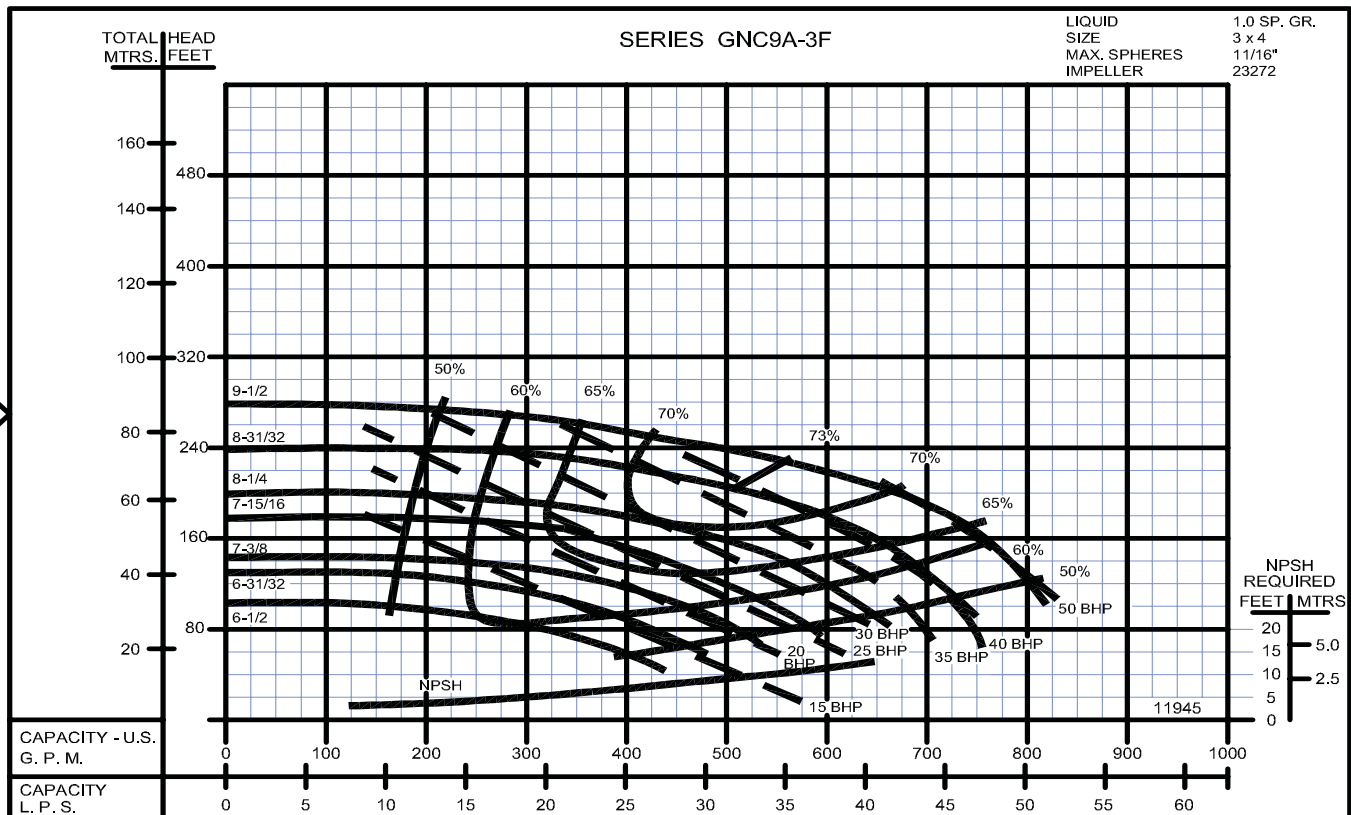


Base Mounted Centrifugal Pumps

1450 RPM



2900 RPM



SECTION 3B
PAGE 32
DATE 1/06



PUMPS & SYSTEMS

A Crane Co. Company

USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598