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Out of the box thinking for better performance.

A Proven Quality Stainless Steel Sanitary Pump



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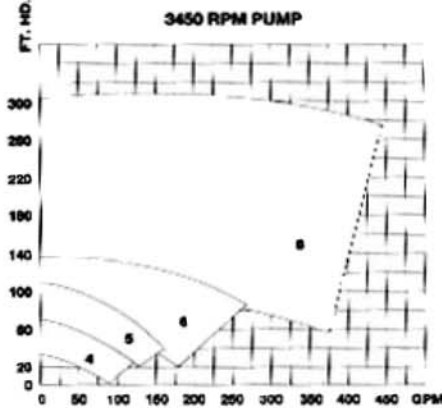
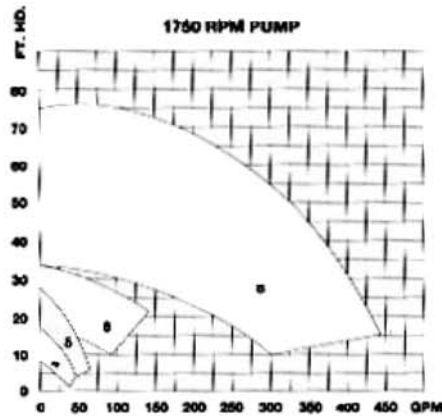
Sanitary Centrifugal Pumps

ZMT, Inc. is the name to turn to when you need a quality, economical, stainless steel, sanitary centrifugal pump. There are four models to choose from with flows up to 500 gpm. The clamp head design permits 360 degree outlet rotation. An investment cast four blade impeller delivers a smooth, steady flow. Internal, external and special seal combinations are available. Standard connections are clamp or bevel seat. Special connections are available upon request. Sanitary pumps have 3A authorization.

ZMT, Inc. pumps are manufactured from type 316 stainless steel and polished to a sanitary finish. Backplates incorporate a ceramic wear ring to reduce replacement costs. A variety of elastomers are also available for all your pumping applications.

ZMT, Inc. stocks a complete inventory of pump parts for quick delivery and service. Most pumps can be assembled, tested and shipped within one to three days and in an emergency can sometimes be shipped the same day.

So when you need a sanitary centrifugal pump there is only one name to remember. ZMT, Inc. The trusted name for sanitary centrifugal pumps and fittings for the food, dairy and beverage industries for over 60 years.



3A authorized 

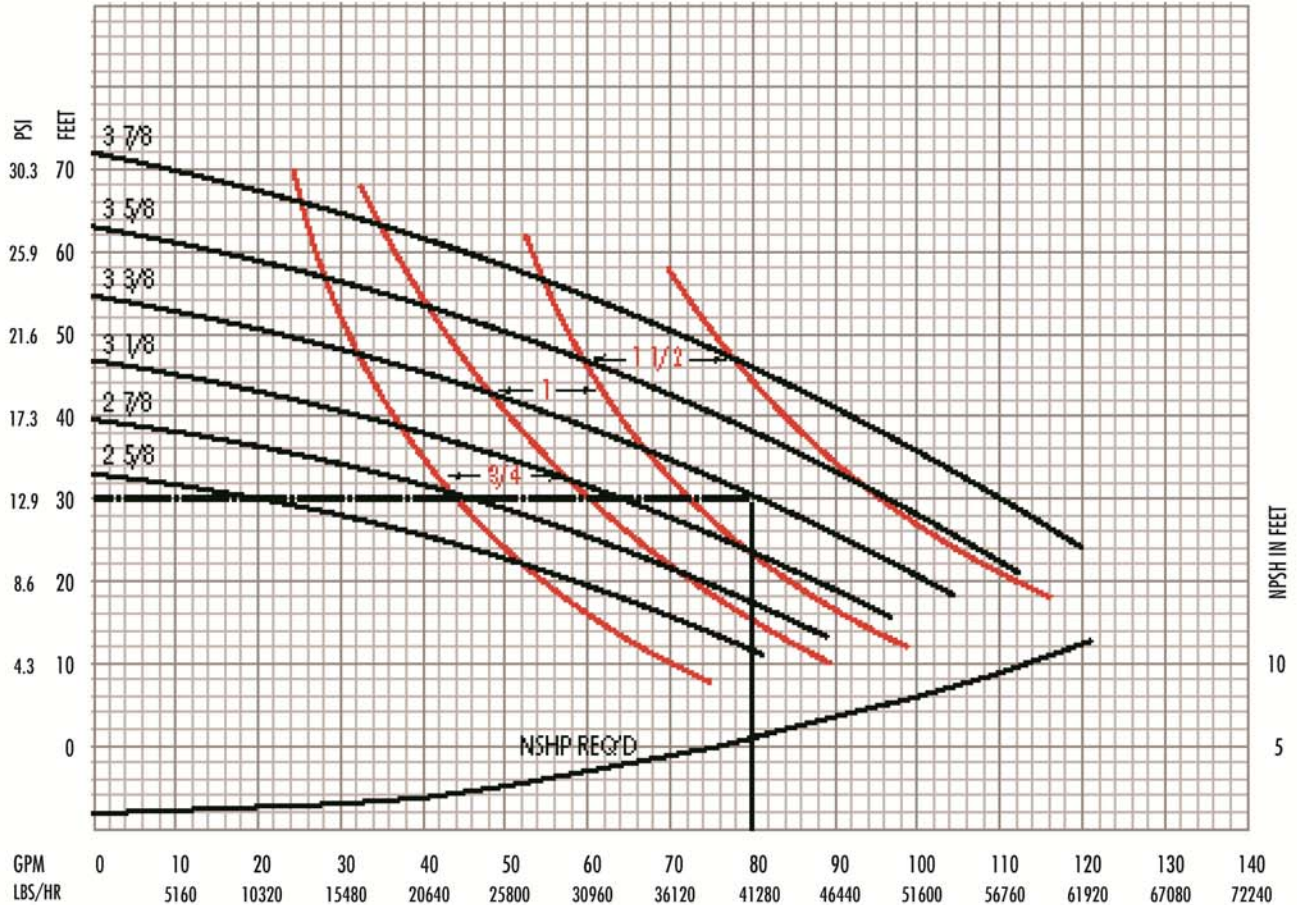
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CENTRIFUGAL PUMPS

MODEL 4 PUMP 3450 RPM

1 1/2 INLET 1 1/2 OUTLET



Interpreting Capacity Curve Charts

In the chart above, head in feet or PSI is shown as a vertical line on the left. Volume, in gallons per minute or pounds per hour is shown as a horizontal line at the bottom. The horsepower lines run diagonally through the performance curves.

Sample problem: Pump 80 GPM of water at a total head of 30 feet.

Solution: Referring to the chart above, find 80 GPM on the horizontal line on the bottom. Follow up the vertical axis up until it intersects with the 30 feet of head line. The impeller curve which passes through or closest above this point is the one to choose. This point falls within the 1 1/2 horsepower range.

The pump required would be a Model 4 pump with a 1 1/2 inch inlet and outlet, a 3 3/8 inch impeller, and a 1 1/2 horsepower 3450 RPM motor.



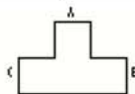
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CENTRIFUGAL PUMPS

FRICTION LOSS (Friction loss expressed in ft. per fitting and ft. per foot of stainless steel tubing.)																		
Capacity in U.S. G.P.M.	O.D. - 1"			O.D. - 1 1/2"			O.D. - 2"			O.D. - 2 1/2"			O.D. - 3"			O.D. - 4"		
	I.D. - .870"			I.D. - 1.370"			I.D. - 1.870"			I.D. - 2.370"			I.D. - 2.870"			I.D. - 3.834"		
	Tubing	Elbow	Tee	Tubing	Elbow	Tee	Tubing	Elbow	Tee	Tubing	Elbow	Tee	Tubing	Elbow	Tee	Tubing	Elbow	Tee
2	.01	.01	.08															
4	.03	.02	.23															
5	.04	.03	.30															
10	.14	.07	.47	.02	.01	.12	.005	.015	.1									
15	.29	.12	.92	.04	.02	.21	.013	.02	.15									
20	.48	.24	1.66	.06	.03	.28	.02	.025	.2	.005	.02	.1	.003	.02	.06			
25	.71	.43	2.45	.08	.04	.41	.025	.03	.25	.006	.03	.15	.004	.03	.08			
30	1.00	.75	3.56	.11	.07	.59	.035	.05	.3	.008	.05	.2	.005	.04	.1			
35	1.29	1.32	5.49	.15	.10	.87	.04	.06	.4	.011	.06	.25	.006	.05	.13			
40				.19	.12	1.09	.05	.08	.5	.015	.07	.3	.007	.06	.15			
45				.24	.18	1.49	.063	.1	.6	.02	.09	.35	.008	.065	.18			
50				.28	.22	1.78	.073	.12	.7	.022	.1	.4	.01	.07	.2			
60				.39	.40	2.53	.1	.18	.9	.03	.12	.45	.015	.08	.25			
80				.66	.87	4.24	.16	.3	1.5	.05	.15	.55	.02	.1	.4			
100				.96	1.52	6.53	.23	.44	2.3	.075	.18	.6	.03	.11	.5	.008	.04	.1
120				1.37	2.38	10.57	.32	.64	3.3	.105	.21	1.0	.04	.13	.6	.01	.05	.15
140							.42	.85	4.5	.14	.23	1.25	.05	.16	.8	.013	.06	.2
160							.54	1.13	5.8	.17	.28	1.6	.07	.2	1.1	.015	.07	.25
180							.67	1.45	7.4	.205	.31	2.0	.08	.21	1.3	.02	.08	.3
200							.81	1.82	9.0	.245	.35	2.5	.1	.26	1.6	.025	.09	.4
220							.95	2.22	11.0	.29	.41	3.0	.12	.3	1.9	.028	.1	.5
240							1.10	2.63	13.5	.34	.48	3.7	.14	.33	2.2	.035	.11	.55
260										.39	.53	4.5	.165	.39	2.5	.04	.115	.6
280										.45	.61	5.3	.19	.42	2.8	.045	.12	.65
300										.515	.7	6.2	.22	.5	3.1	.05	.13	.7
350										.68	1.05	8.5	.28	.67	4.1	.07	.15	.9
400										.86	1.55	11.0	.36	.88	5.2	.085	.18	1.2
450										1.05	2.25	13.5	.44	1.1	6.6	.105	.2	1.5
500										.54	1.4	8.0	.13	.23	1.75			
550										.64	1.7	9.5	.15	.27	2.1			
600										.75	2.05	10.2	.175	.3	2.5			
650										.87	2.41	13.0	.2	.34	2.8			
700										1.0	2.8	5.0	.23	.4	3.4			
750										.26	.43	3.8						
800										.3	.5	4.4						
850										.33	.56	5.0						
900										.37	.62	5.7						
950										.41	.7	6.3						
1000										.45	.8	7.0						
1100										.53	1.06	8.6						

NOTES:

1. FOR ELBOWS - R/D = 1.5
2. FLOW THRU TEES - FLOW A TO B PORT C CAPPED OFF.
3. TEST MEDIUM - WATER AT 70°F



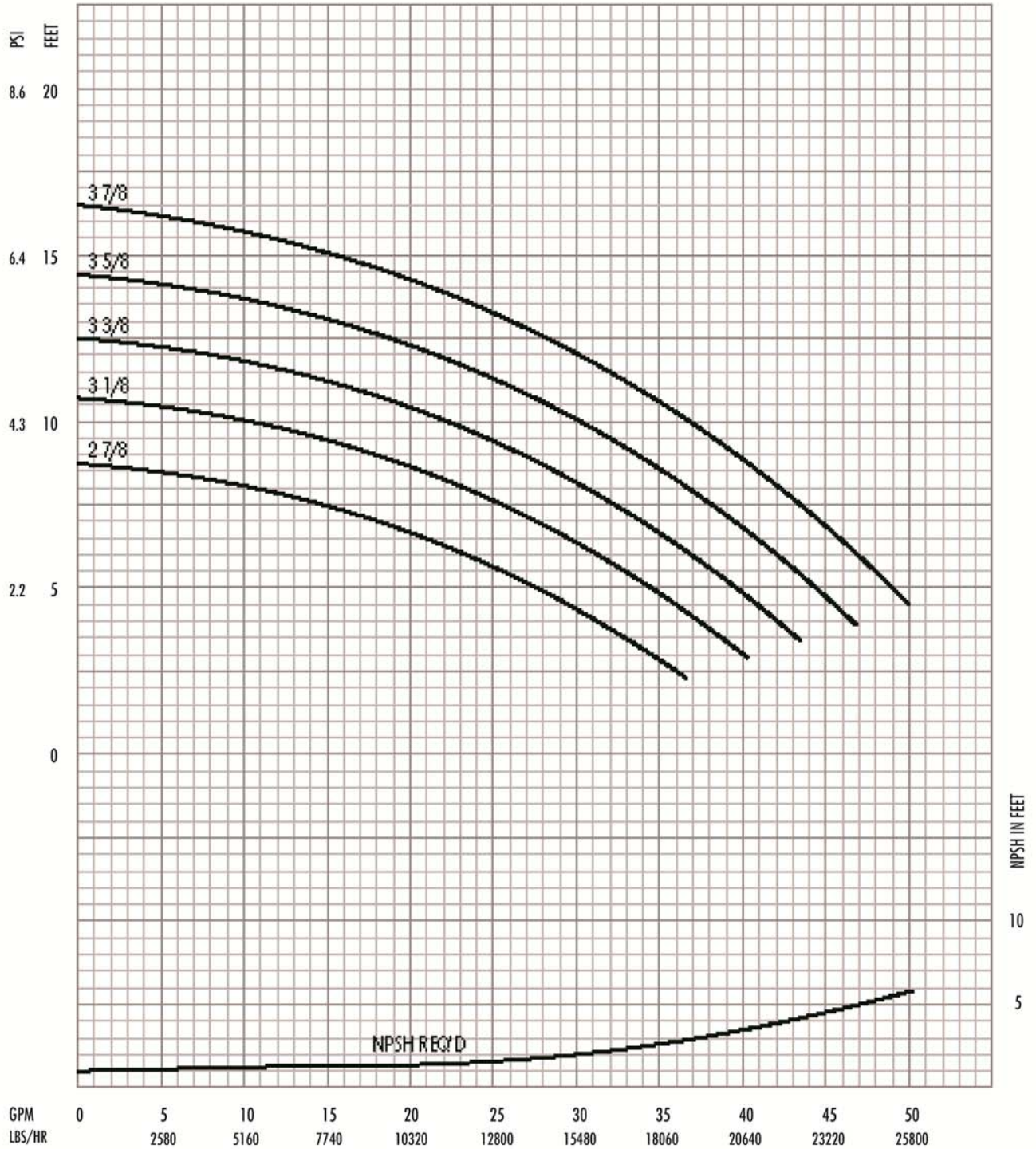
PREPARED BY MEMBERS OF THE SANITARY PUMP SUBGROUP OF N.A.D.E.M.





CENTRIFUGAL PUMPS

MODEL 4 PUMP 1750 RPM 1/2 H.P.
1 1/2 INLET 1 1/2 OUTLET

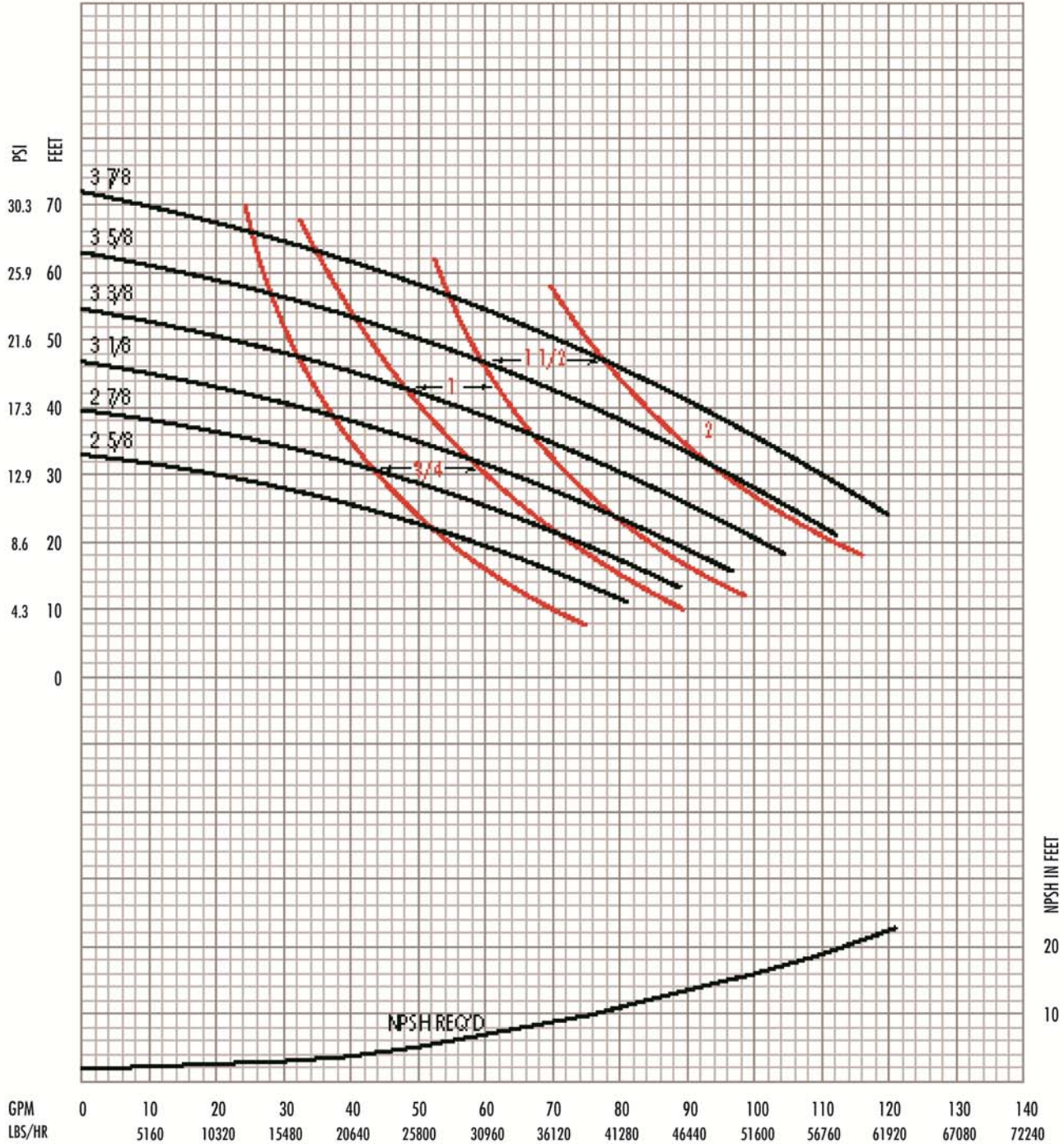


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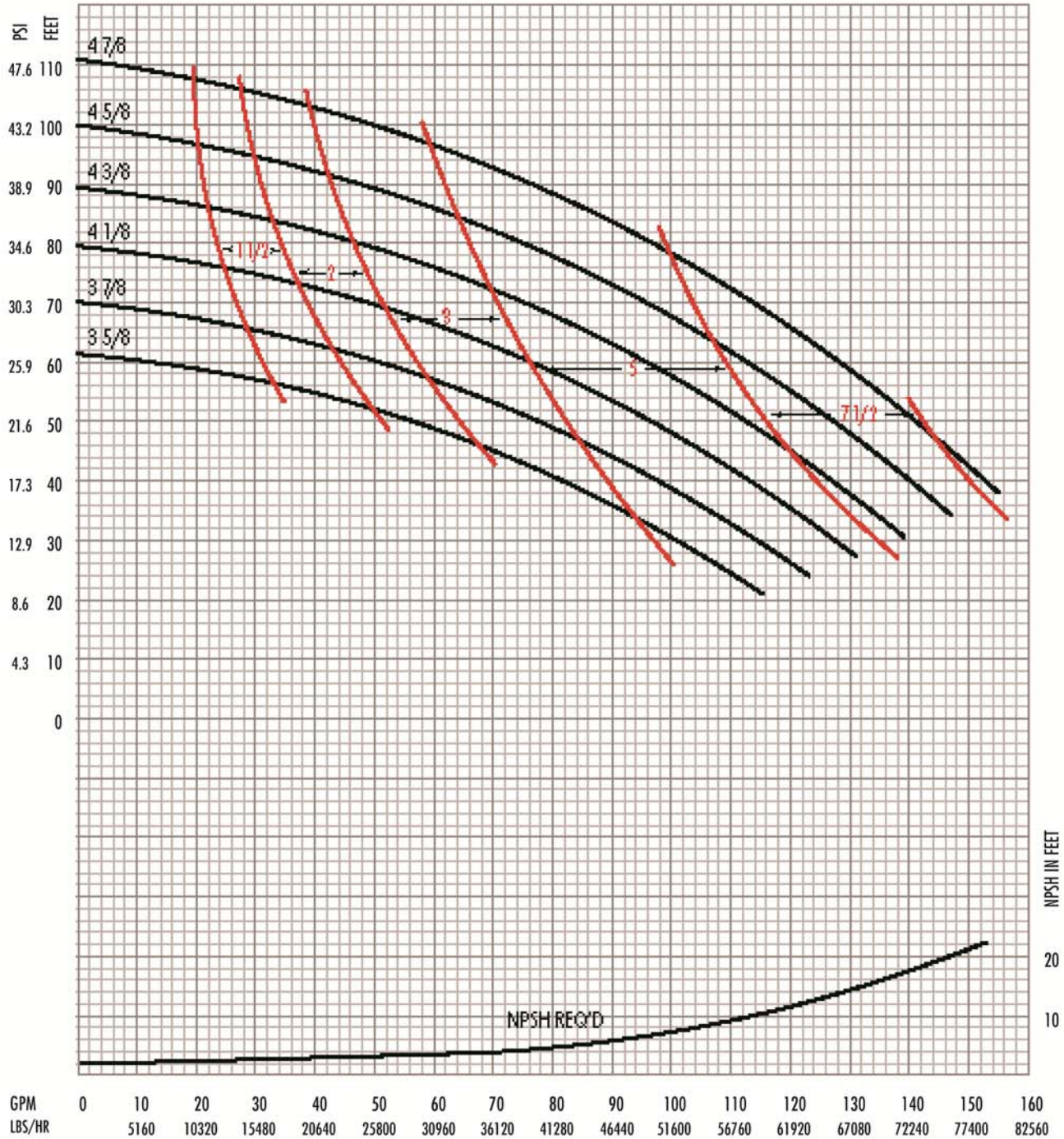
MODEL 4 PUMP 3450 RPM
1 1/2 INLET 1 1/2 OUTLET



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MODEL 5 PUMP 3450 RPM
1 1/2 INLET 1 1/2 OUTLET

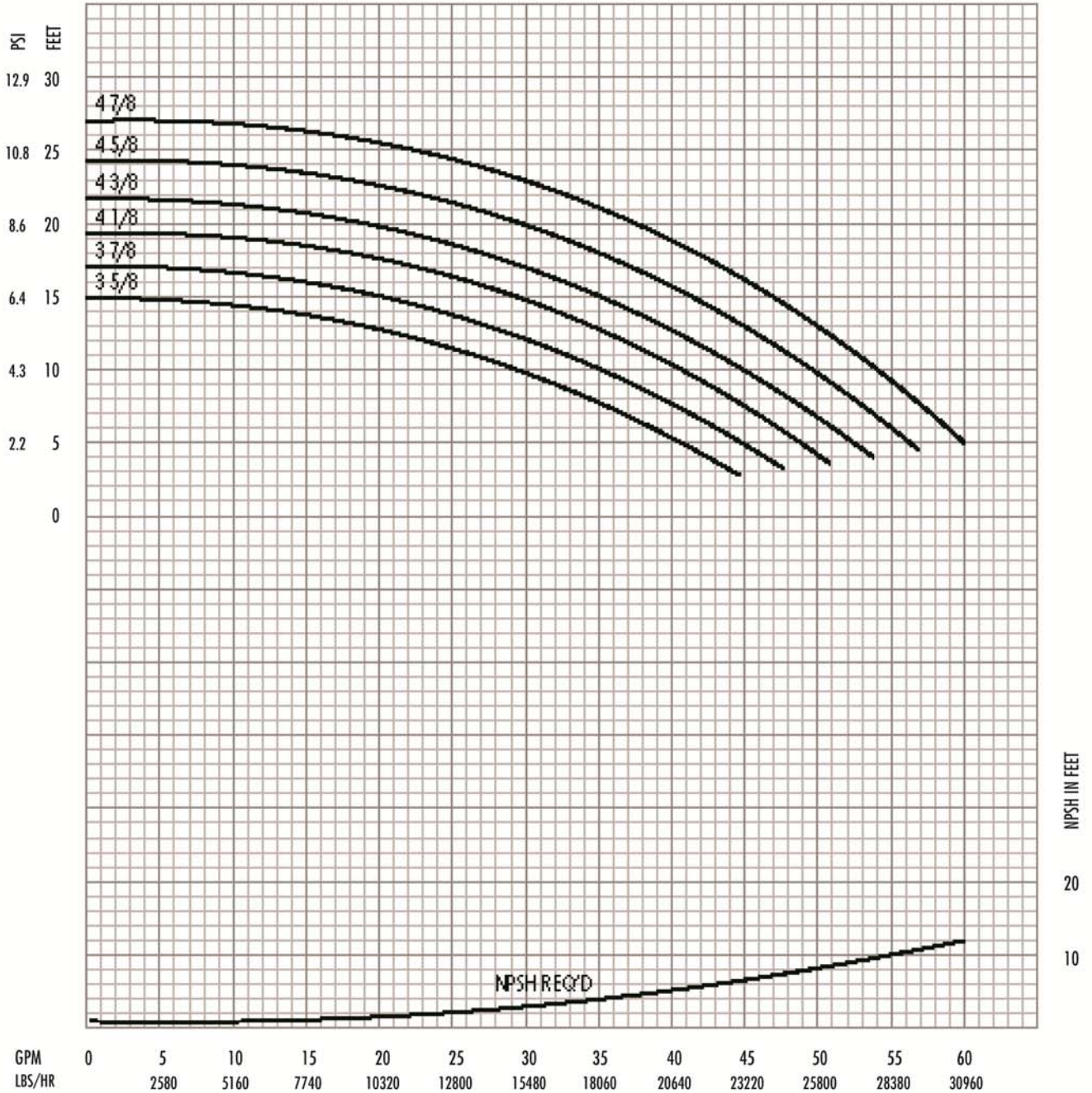


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MODEL 5 PUMP 1750 RPM 1/2 H.P.
1 1/2 INLET 1 1/2 OUTLET



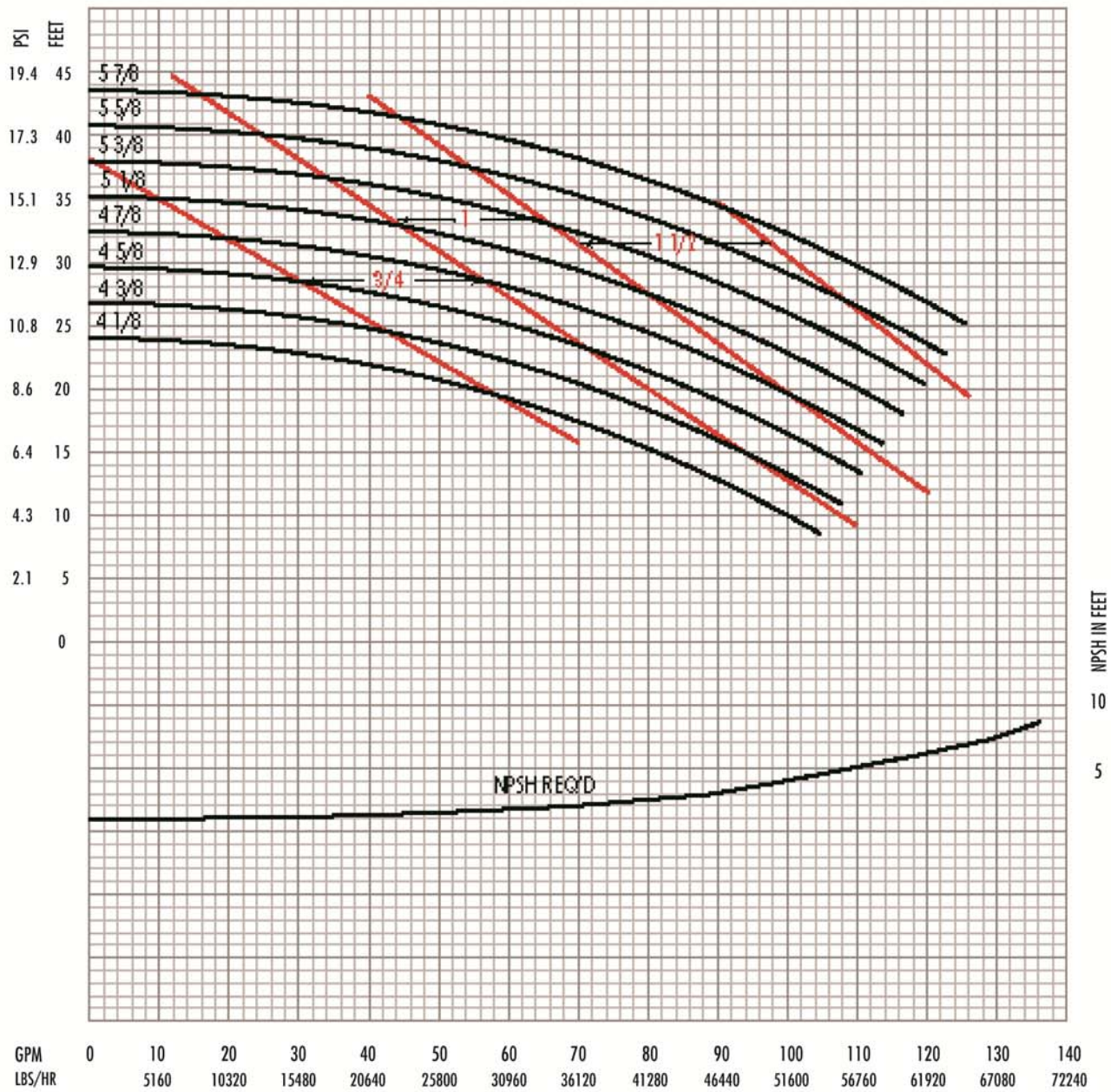
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MODEL 6 PUMP 1750 RPM

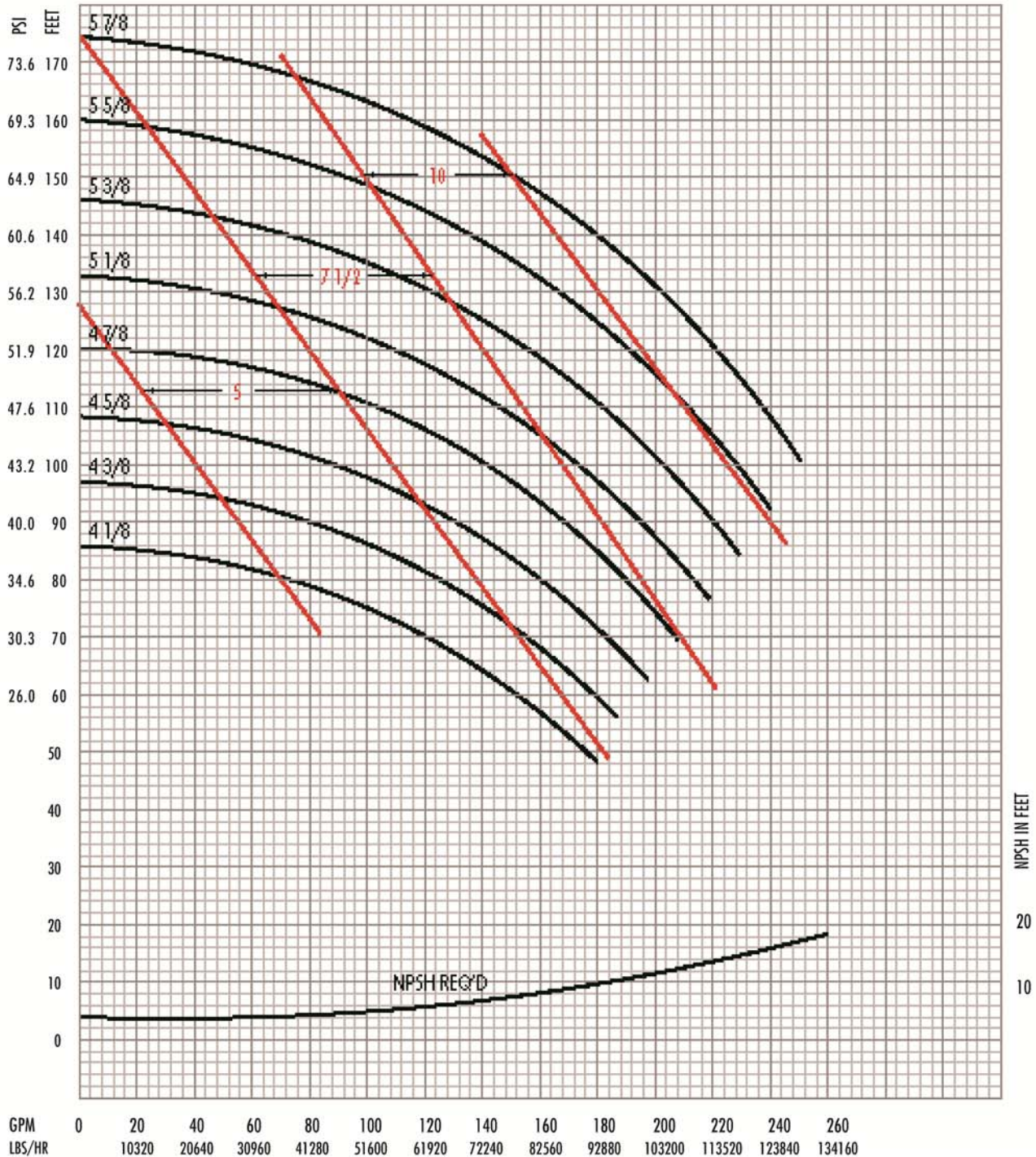
2 INLET 1 1/2 OUTLET



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MODEL 6 PUMP 3450 RPM
2 INLET 1 1/2 OUTLET

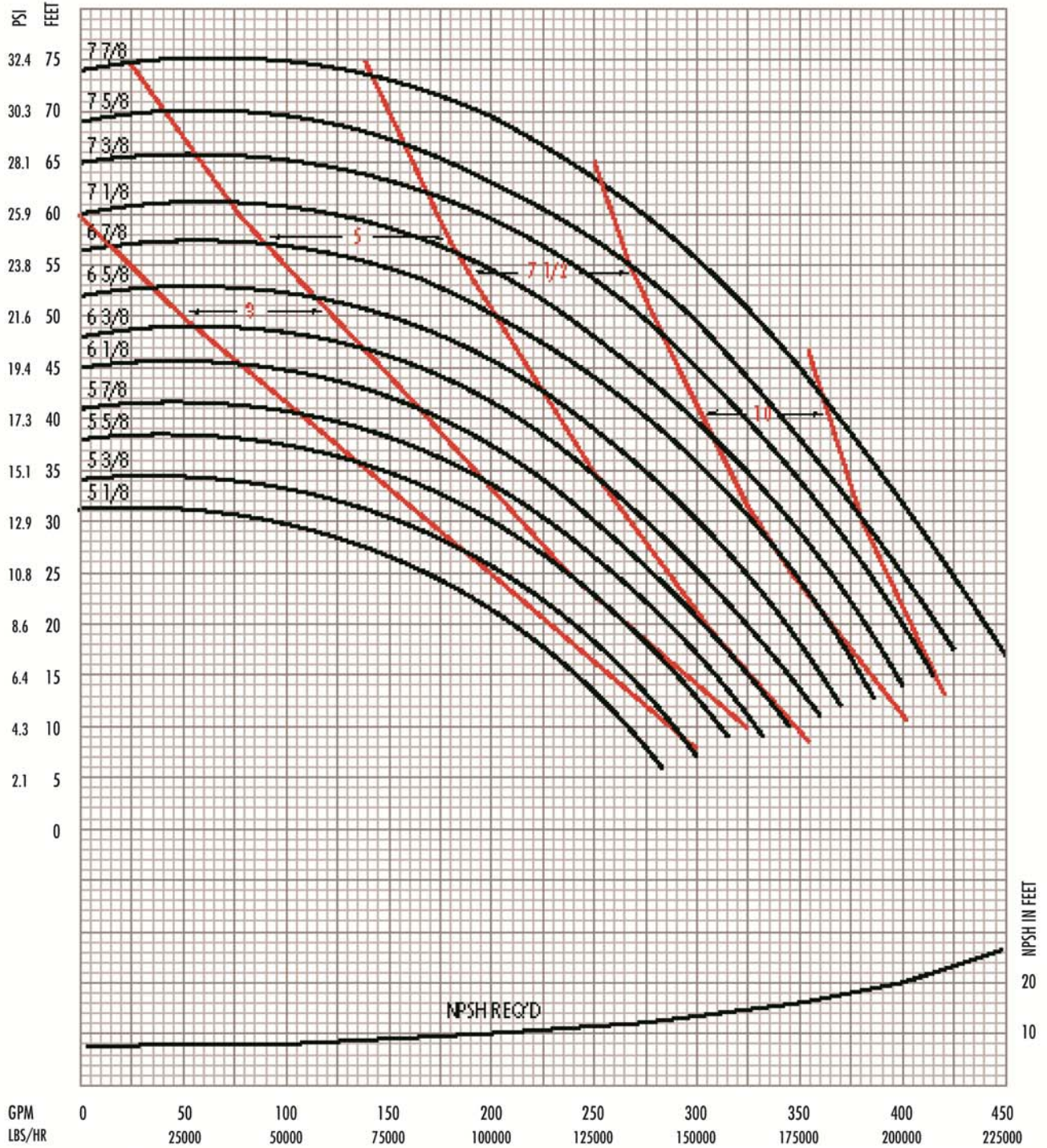


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MODEL 8 PUMP 1750 RPM
3 INLET 2 OUTLET

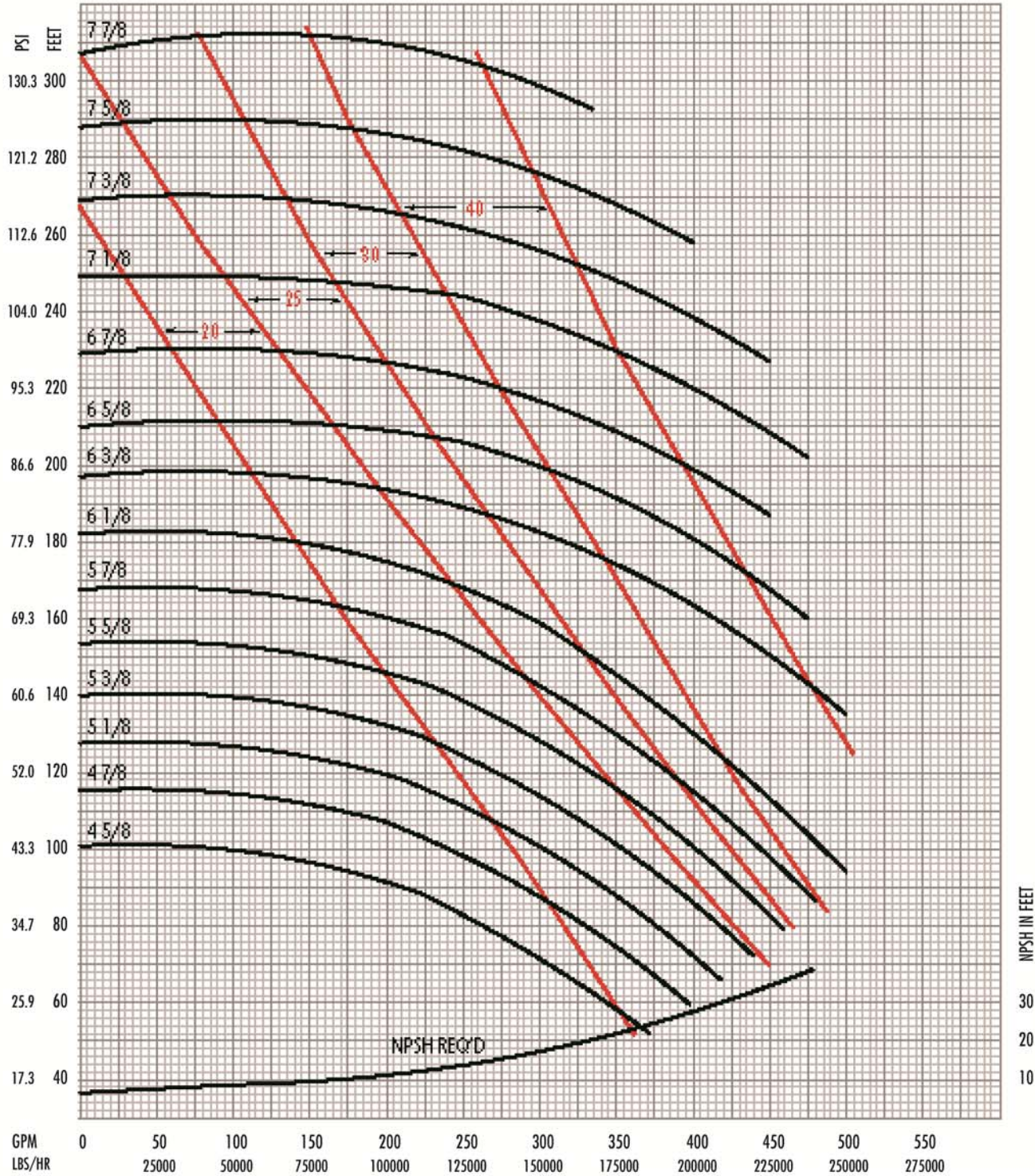


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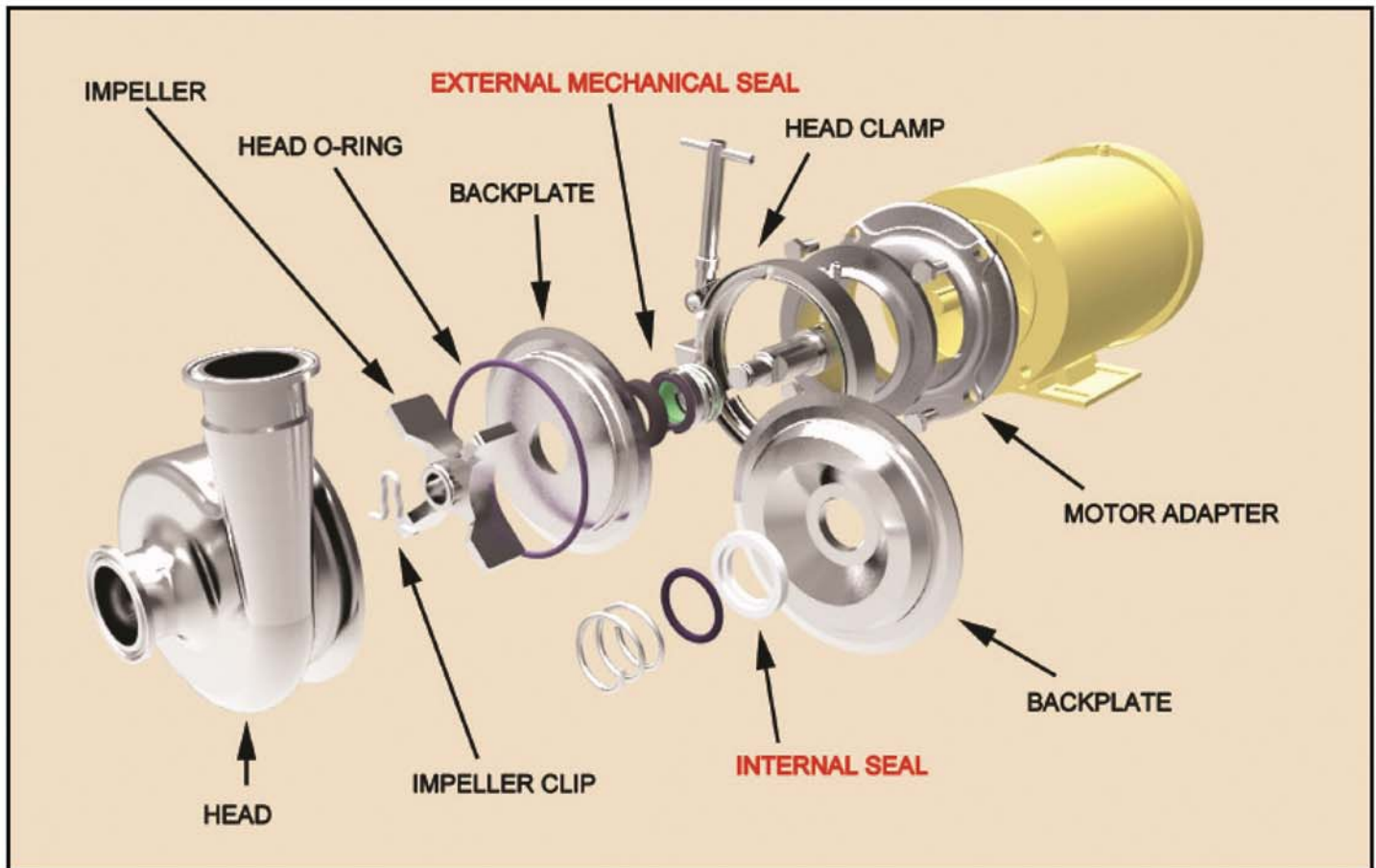
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3 INLET 2 OUTLET



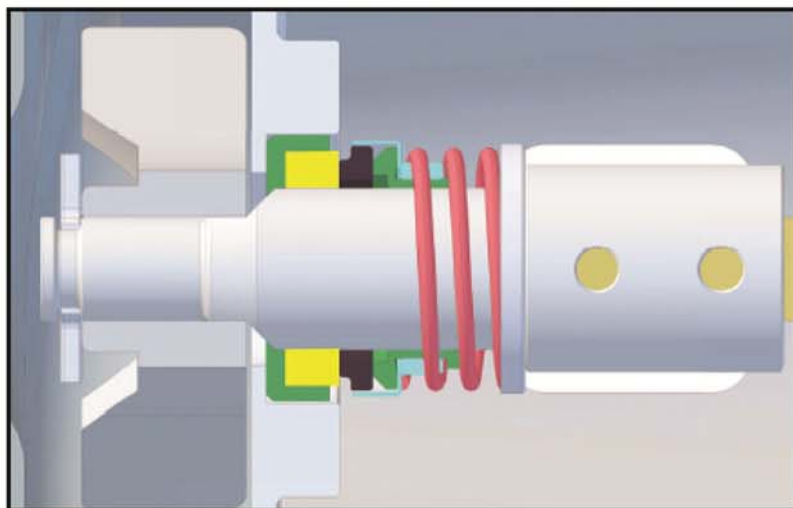
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Pump Components & Seal Options

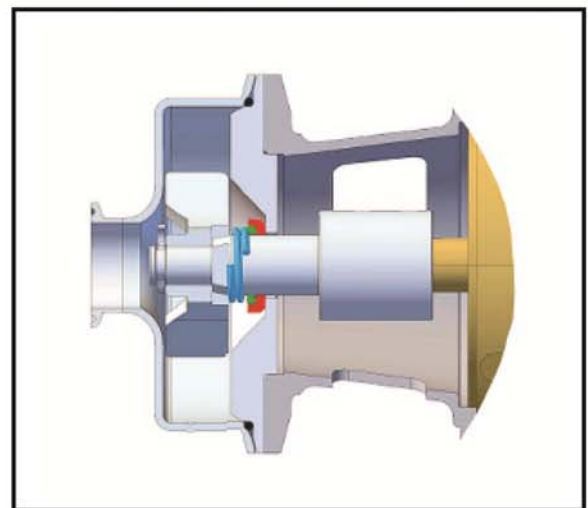
ALSO AVAILABLE: Water Cascade and Water Jacket designs (not pictured)



External Balanced Mechanical Seal Option



Internal Seal Option





CENTRIFUGAL

BUNA N

The standard for most general applications: petroleum base lubricants, hydraulic oils, gasoline, fuels, alcohol, LP gases, water and many other media. **Temperature -40 to +275° F.**

EPDM

For hot water, steam, acids, alcohols, alkalis, ketones, phosphate esters, brake fluids, and exposure to oxygen, ozone and weathering. **Temperature -67 to +300° F.**

SILICONE

Compatible with a variety of fluids, air, oxygen, ozone and other media for extremes of low and high temperature applications. Very elastic and self lubricating. Do not use with solvents, petroleum products, etc. **Temperature -80 to +450° F.**

VITON

High temperature toughness, stability and compatibility with a wide range of fluid and chemical types including acids, oils, fuels, solvents and gases. **Temperature -65 to +500° F.**

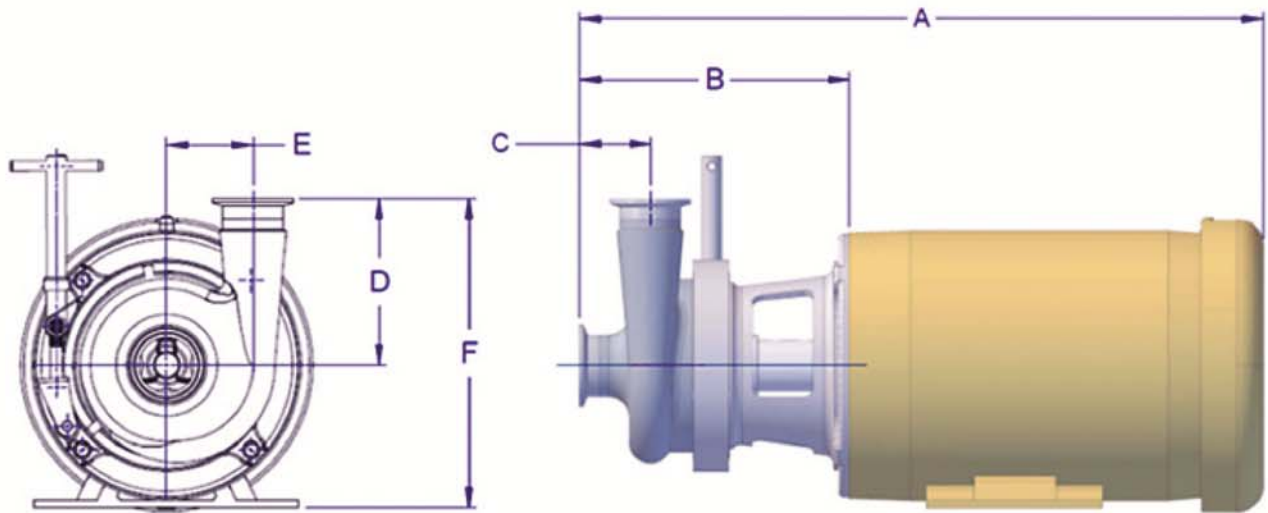
TEFLON

Has extensive chemical and temperature resistance. Not suitable for great temperature fluctuations. Teflon tends to cold form and does not return to its original shape. **Temperature -30 to +500° F.**



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Standard Pump Dimensions



PUMP MODEL	FRAME SIZE	DIMENSION						SHAFT BORE
		A	B	C	D	E	F	
# 4	56C	17-3/4"	6-5/8"	1-3/4"	4-1/4"	2-1/8"	7-3/4"	5/8"
# 4	143/145TC	18-5/8"	6-5/8"	1-3/4"	4-1/4"	2-1/8"	7-3/4"	7/8"
# 5	56C	17-3/4"	6-5/8"	1-3/4"	4-3/4"	2-1/8"	8-1/4"	5/8"
# 5	143/145TC	20"	6-5/8"	1-3/4"	4-3/4"	2-1/8"	8-1/4"	7/8"
# 5	182/184TC	22"	6-5/8"	1-3/4"	4-3/4"	2-1/8"	9-1/4"	1-1/8"
# 6	56C	17-3/4"	7"	1-7/8"	5-1/2"	3-1/8"	9"	5/8"
# 6	143/145TC	21"	7"	1-7/8"	5-1/2"	3-1/8"	9"	7/8"
# 6	182/184TC	24-3/8"	9-1/8"	1-7/8"	5-1/2"	3-1/8"	10"	1-1/8"
# 6	213/215TC	24-3/8"	9-1/8"	1-7/8"	5-1/2"	3-1/8"	10-3/4"	1-3/8"
# 6	256/284/286TC	27"	9-1/8"	1-7/8"	5-1/2"	3-1/8"	10-3/4"	1-5/8"
# 8	182/184TC	24-3/16"	8-3/4"	2-1/2"	5-1/8"	3-3/8"	9-5/8"	1-1/8"
# 8	213/215TC	25-5/16"	8-3/4"	2-1/2"	5-1/8"	3-3/8"	10-3/8"	1-3/8"
# 8	256TC	28-17/32"	8-3/4"	2-1/2"	5-1/8"	3-3/8"	11-3/8"	1-5/8"
# 8	284/286TSC	31-13/16"	8-3/4"	2-1/2"	5-1/8"	3-3/8"	12-1/8"	1-5/8"
# 8	324TSC	34-1/2"	9-3/8"	2-1/2"	5-1/8"	3-3/8"	13-1/8"	1-7/8"

DIMENSIONS BASED ON STANDARD NEMA FRAME