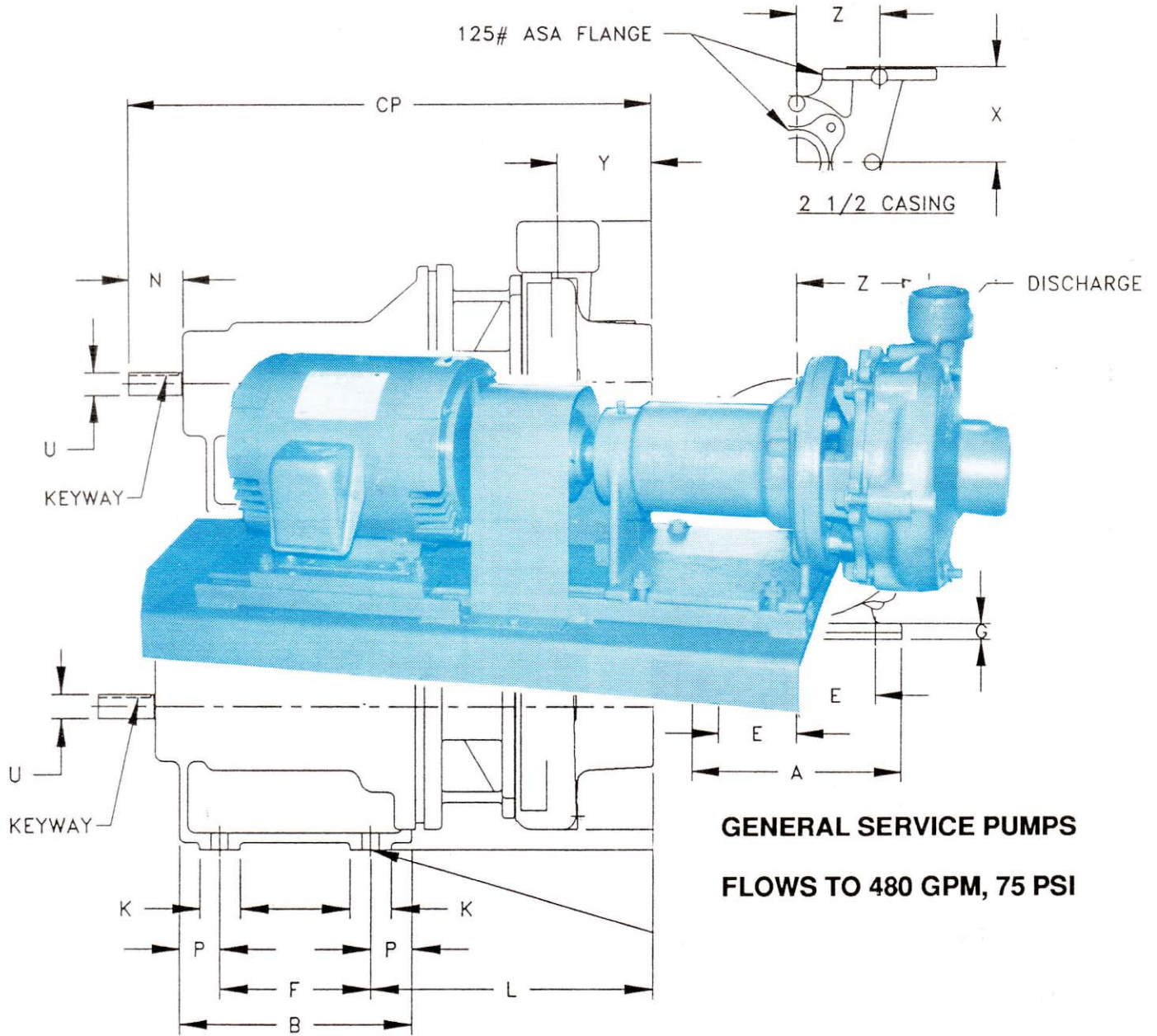




MARSHALL ENGINEERED PRODUCTS CO.

PUMP SECTION

Centrifugal Pumps, Type RB06 - Base Mounted, End Suction



FEATURES

The **MEPCO Model RB Series Pumps** meet the latest standards for hydraulic performance and dimensional characteristics. Model RB Pumps are provided with the unique Space Base to minimize misalignment and facilitate maintenance. The guide rail design of the Space Base allows the pump and motor to be easily slid in and out of place for servicing. The Space Base eliminates the need for expensive spacer couplings which complicate the alignment process. The Space Base also provides ample open space for easy grouting.

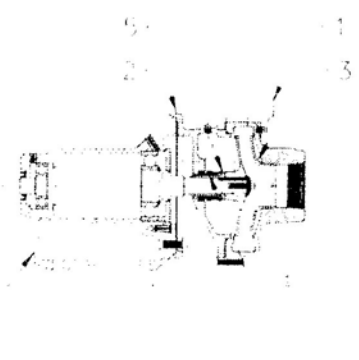
BASE FEATURES

- Steel construction provides for rigid base installation.
- Ample openings for easy grouting
- Unique guide rail design allows pump and motor to be slid in and out of place for easy service while minimizing misalignment.

The mechanical seal is constructed of **Buna N** and is rated for 225 degrees Fahrenheit and pressures up to 175 PSI with ceramic seat and carbon seal face for long trouble free service. Alternative seals are available to suit other temperatures and liquids.

DESIGN FEATURES

- Dry shaft design ensures shaft is never exposed to the system fluid
- Simplifies sleeve and seal removal/reassembly
- Easy-to-replace slip-on shaft sleeve facilitates seal maintenance costs.



MATERIAL LIST

AND AVAILABLE OPTIONS

NO.	ITEM	MATERIAL	OPTION
1	CASE	CLASS 30 C I	BRONZE
2	ADAPTER	CLASS 30 C I	BRONZE
3	IMPELLER	BRONZE	CAST IRON
4	MECH SEAL	BUNA N	EPT/VITON
5	SLEEVE	BRONZE	SST
6	POWER FRAME	CAST IRON/BALL BEARING	
7	COUPLING	FLEX	

BEARING ASSEMBLY FEATURE

- Ball bearing with minimum of 50,000 hours of bearing life at worst case (3450 RPM). Maximum bearing life (1750 RPM) exceeds 50,000 hours.

The **advanced impeller design** maximizes hydraulic efficiency. Each impeller is dynamically balanced for vibration free operation. Model RB Pumps are ideally suited for a variety of applications, including heating, air conditioning, pressure boosting, cooling water transfer, and water supply.

Rear pull out design allows pump to be serviced without disturbing the system piping.

The **standardization and interchangeability** for the RB Series Pump line results in reduced parts inventories and lower costs for multiple pump installations.

MAXIMUM OPERATING CONDITIONS

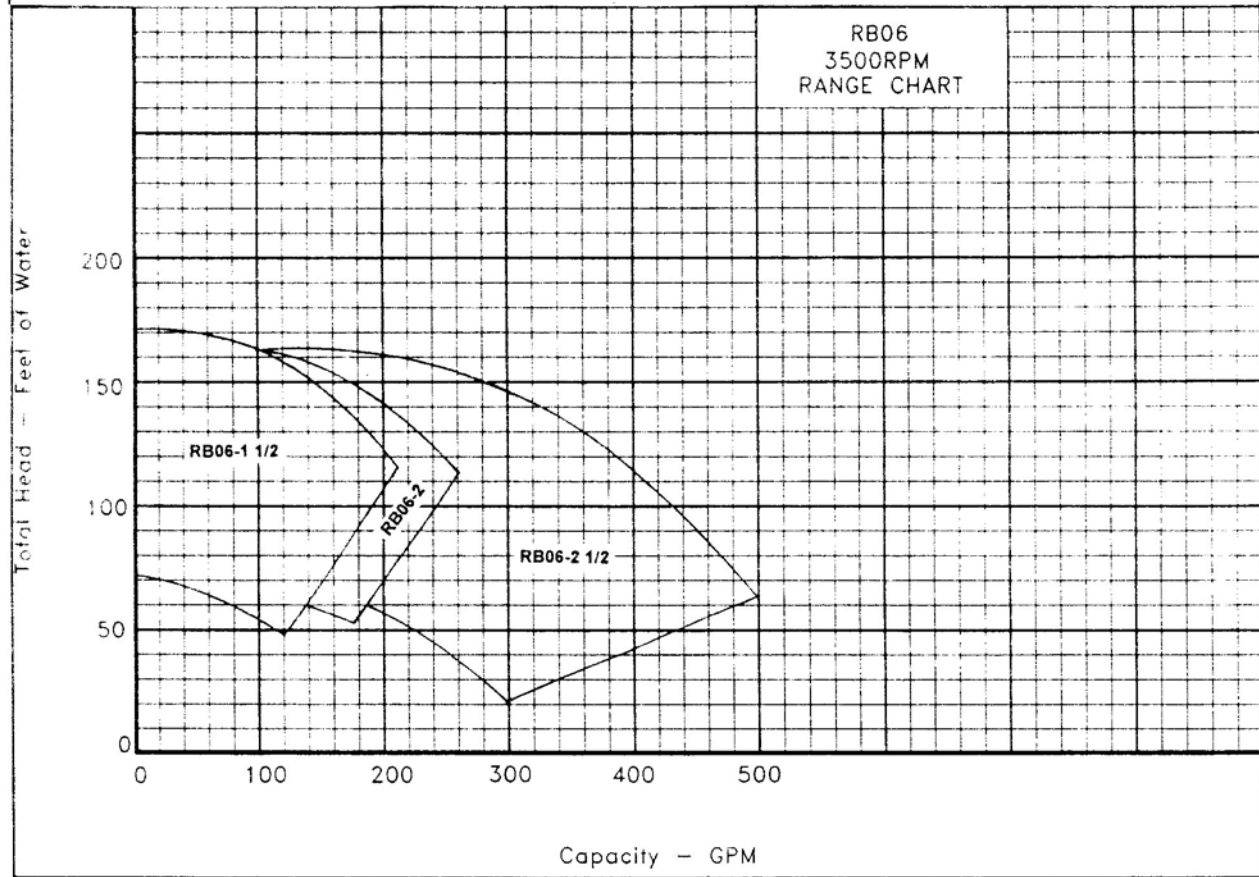
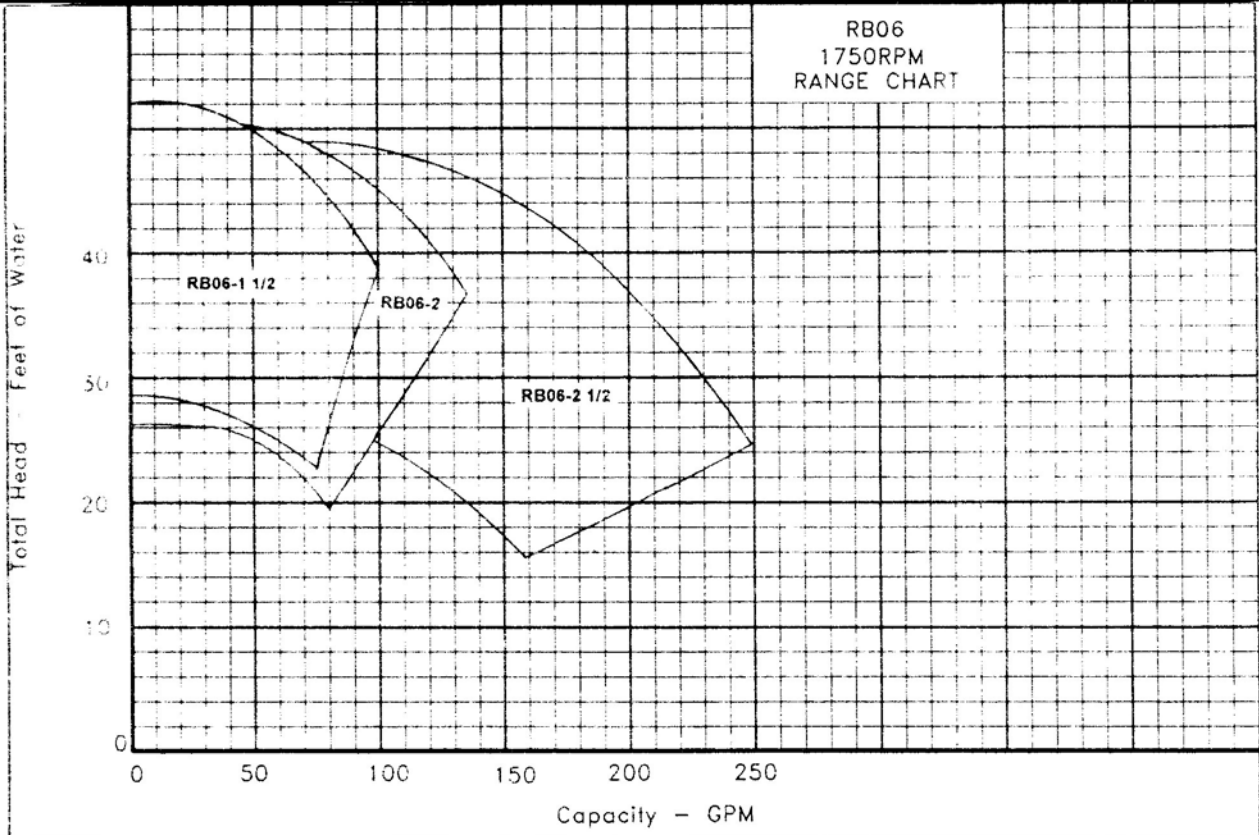
Based on std. construction & pumping clear water

RPM -	1750, 3450
HORSEPOWER -	20
STD. SEAL TEMP. -	225° F
OPT. SEAL TEMP. -	300° F
OPT. SEAL TEMP. -	400° F
MODEL RB -	150 LB. FLANGES
MAX. WORKING PRESS. -	175 PSI
HYDROSTATIC TEST PRESSURE -	265 PSI

FRAME	MOTOR DATA (HP)							
	ODP				TEFC			
	1 PHASE		3 PHASE		1 PHASE		3 PHASE	
	1750 RPM	3500 RPM	1750 RPM	3500 RPM	1750 RPM	3500 RPM	1750 RPM	3500 RPM
143T	1	1 1/2	1	1 1/2	1	1 1/2	1	1 1/2
145T	1 1/2	2	1 1/2, 2	2, 3	1 1/2	2	1 1/2, 2	2
182T	2	3	3	4	2	3	3	3
184T	3	5	5	7 1/2	3	5	5	5
213T	5	7 1/2	7 1/2	10	5	7 1/2	7 1/2	7 1/2
215T	7 1/2, 10	10	-	15	7 1/2, 10	10	-	10
254T	-	-	-	20	-	-	-	15
256T	-	-	-	25	-	-	-	20
284TS	-	-	-	30	-	-	-	25
286TS	-	-	-	40	-	-	-	30
324TS	-	-	-	50	-	-	-	40
326TS	-	-	-	60	-	-	-	50
164TS	-	-	-	-	-	-	-	60

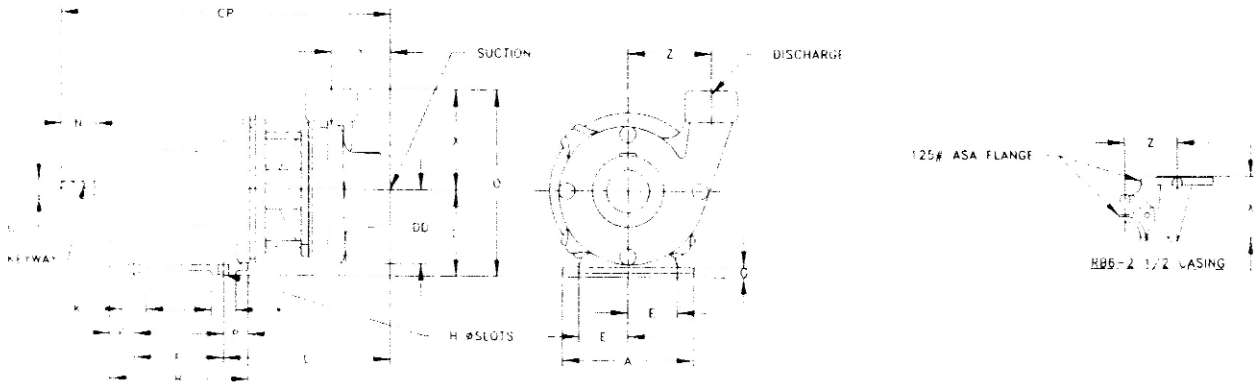
NO.	ITEM	MATERIAL	OPTION
8	BASE	STEEL	
9	MOTOR	NEMA (ODP)	TEFC/XPROOF

RAPID SELECTION CURVES

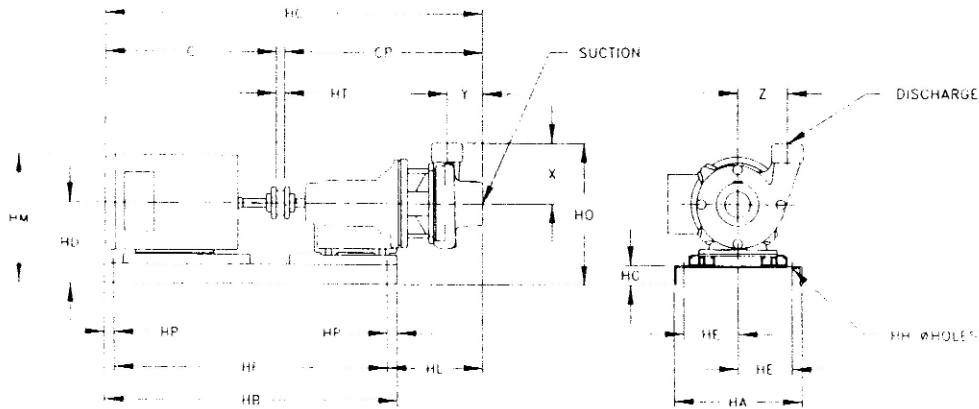


NOTE 1) Computerized pump selection program available, Pump Flotm.

DIMENSIONS

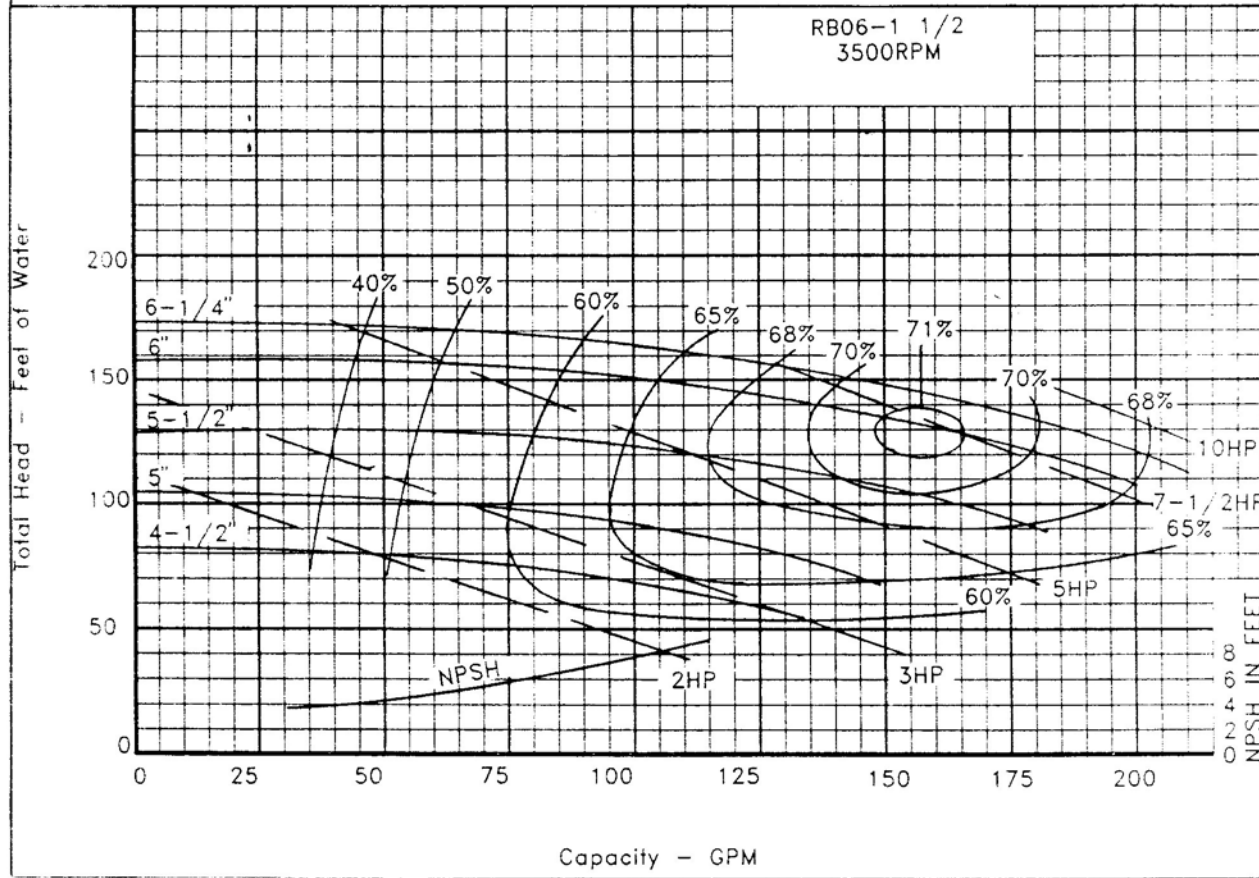
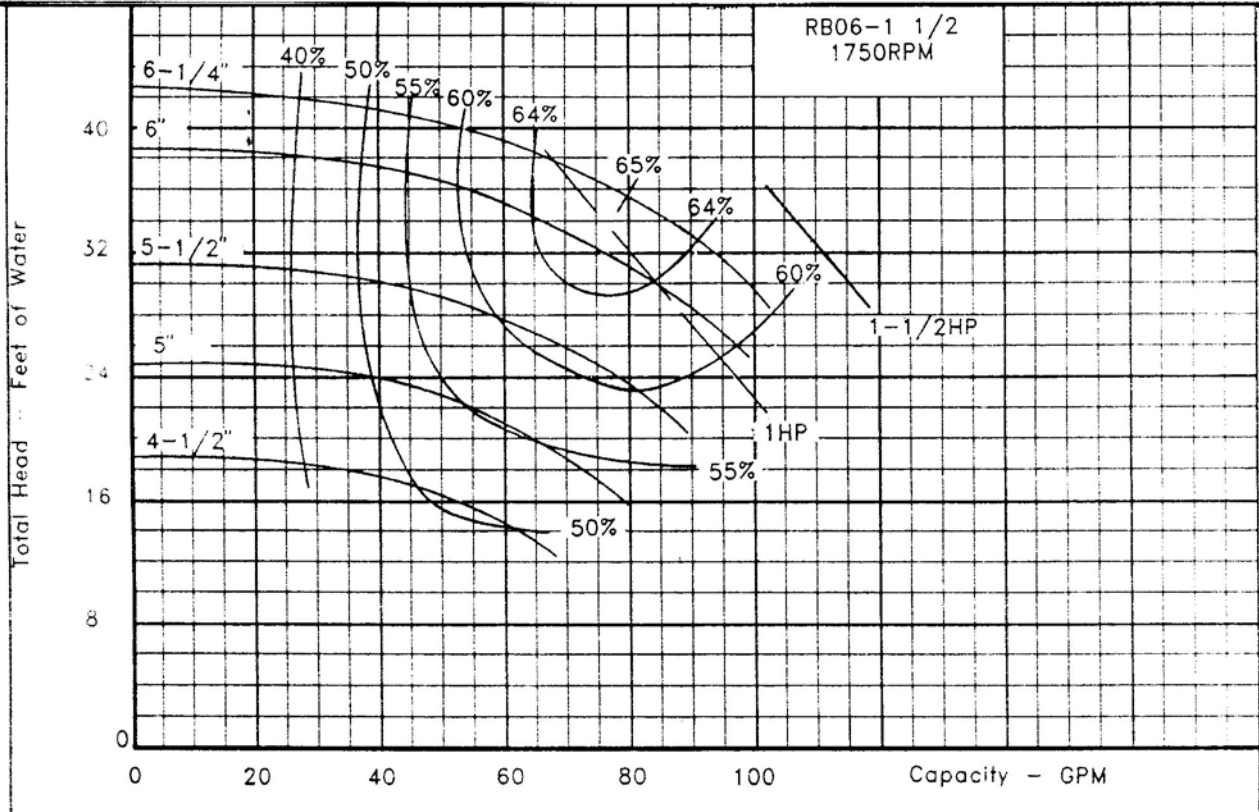


PUMP	MOTOR FRAME SIZE	DISC. NPT	SUCT. NPT	DIMENSIONS IN INCHES																	
				A	B	CP	D	DD	E	F	G	H	K	L	N	O	P	U	X	Y	Z
RB05	43T	1 1/2	2	8	8 1/2	19 5/8	5 1/4	4 3/8	3	5 1/2	5/8	5/8	1 1/2	9 3/8	2 1/8	11	1 1/2	ø7/8	5 3/4	3 3/8	4 1/4
	45T			8	8 1/2	19 5/8	5 1/4	4 3/8	3	5 1/2	5/8	5/8	1 1/2	9 3/8	2 1/8	11	1 1/2	ø7/8	5 3/4	3 3/8	4 1/4
	47T			8	8 1/2	19 5/8	5 1/4	4 3/8	3	5 1/2	5/8	5/8	1 1/2	9 3/8	2 1/8	11	1 1/2	ø7/8	5 3/4	3 3/8	4 1/4
	49T			8	8 1/2	19 5/8	5 1/4	4 3/8	3	5 1/2	5/8	5/8	1 1/2	9 3/8	2 1/8	11	1 1/2	ø7/8	5 3/4	3 3/8	4 1/4
	51T			8	8 1/2	19 5/8	5 1/4	4 3/8	3	5 1/2	5/8	5/8	1 1/2	9 3/8	2 1/8	11	1 1/2	ø7/8	5 3/4	3 3/8	4 1/4
RB06	43T	2	2 1/2	8	8 1/2	20 1/8	5 1/4	4 1/2	3	5 1/2	5/8	5/8	1 1/2	10 1/8	2 1/8	11 3/8	1 1/2	ø7/8	6 1/8	3 5/8	5 1/8
	45T			8	8 1/2	20 1/8	5 1/4	4 1/2	3	5 1/2	5/8	5/8	1 1/2	10 1/8	2 1/8	11 3/8	1 1/2	ø7/8	6 1/8	3 5/8	5 1/8
	47T			8	8 1/2	20 1/8	5 1/4	4 1/2	3	5 1/2	5/8	5/8	1 1/2	10 1/8	2 1/8	11 3/8	1 1/2	ø7/8	6 1/8	3 5/8	5 1/8
	49T			8	8 1/2	20 1/8	5 1/4	4 1/2	3	5 1/2	5/8	5/8	1 1/2	10 1/8	2 1/8	11 3/8	1 1/2	ø7/8	6 1/8	3 5/8	5 1/8
	51T			8	8 1/2	20 1/8	5 1/4	4 1/2	3	5 1/2	5/8	5/8	1 1/2	10 1/8	2 1/8	11 3/8	1 1/2	ø7/8	6 1/8	3 5/8	5 1/8
RB06	43T	ø2 1/2 FLANGE	ø5 FLANGE	8	8 1/2	19 3/8	5 1/4	4 3/4	3	5 1/2	5/8	5/8	1 1/2	9 3/8	2 1/8	11 1/8	1 1/2	ø7/8	5 7/8	2 3/4	5 1/8
	45T			8	8 1/2	19 3/8	5 1/4	4 3/4	3	5 1/2	5/8	5/8	1 1/2	9 3/8	2 1/8	11 1/8	1 1/2	ø7/8	5 7/8	2 3/4	5 1/8
	47T			8	8 1/2	19 3/8	5 1/4	4 3/4	3	5 1/2	5/8	5/8	1 1/2	9 3/8	2 1/8	11 1/8	1 1/2	ø7/8	5 7/8	2 3/4	5 1/8
	49T			8	8 1/2	19 3/8	5 1/4	4 3/4	3	5 1/2	5/8	5/8	1 1/2	9 3/8	2 1/8	11 1/8	1 1/2	ø7/8	5 7/8	2 3/4	5 1/8
	51T			8	8 1/2	19 3/8	5 1/4	4 3/4	3	5 1/2	5/8	5/8	1 1/2	9 3/8	2 1/8	11 1/8	1 1/2	ø7/8	5 7/8	2 3/4	5 1/8



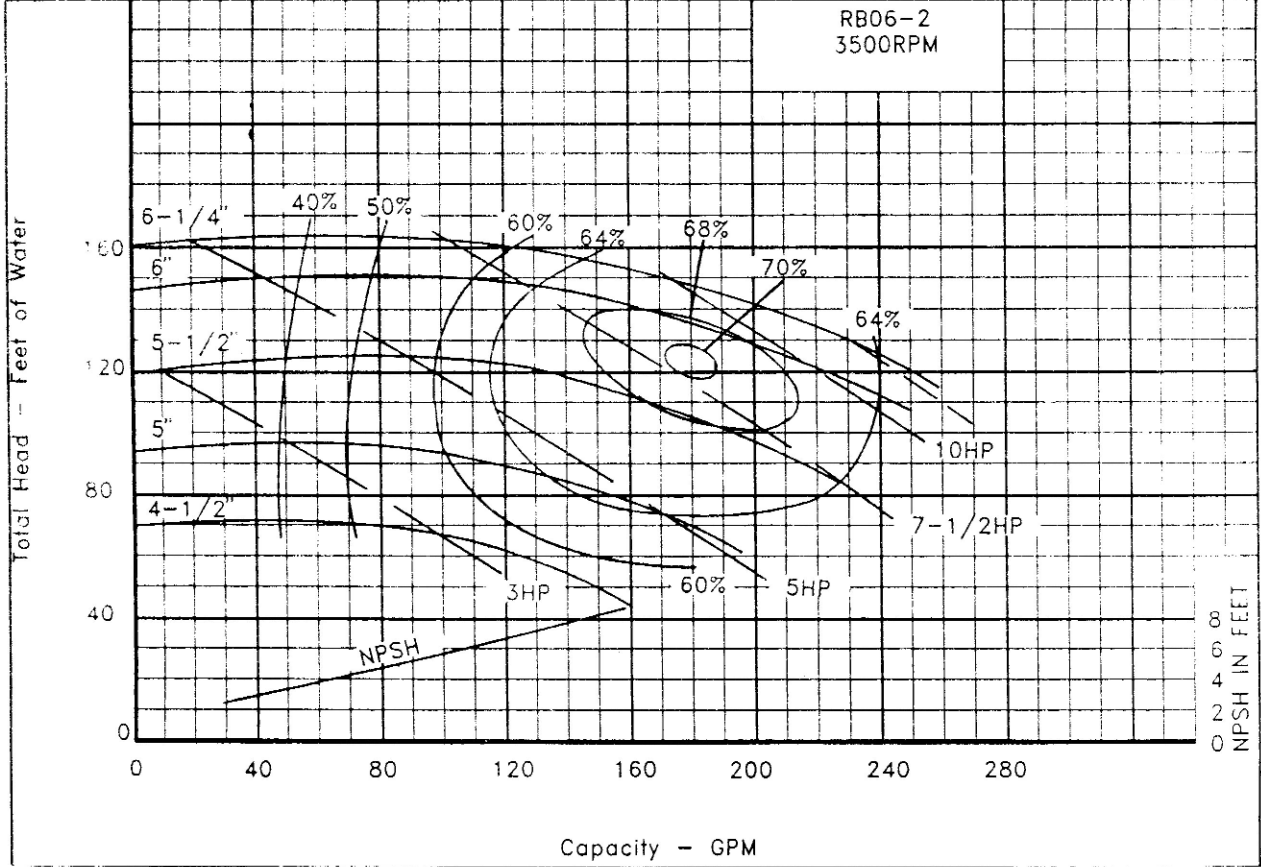
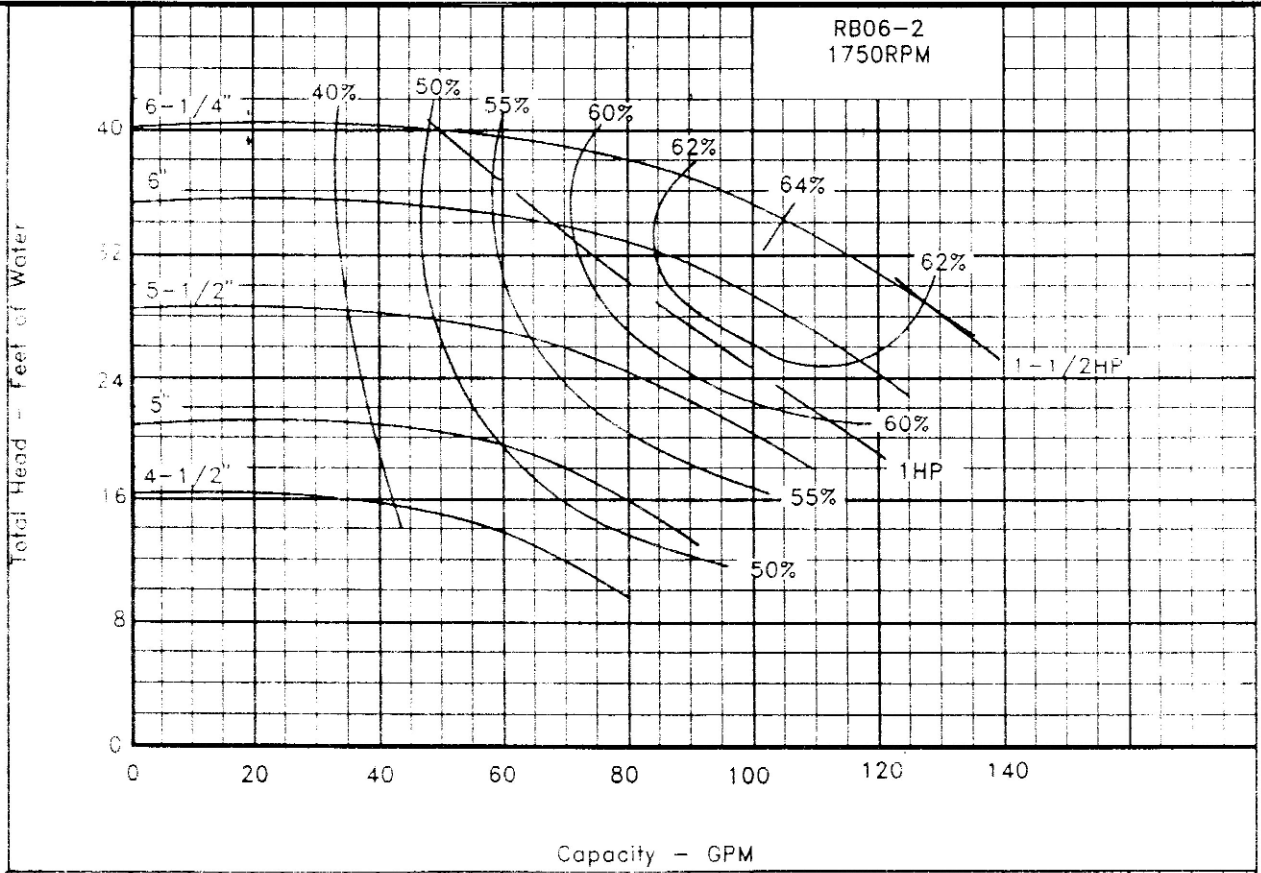
PUMP	MOTOR FRAME SIZE	DISC. NPT	SUCT. NPT	DIMENSIONS IN INCHES																		
				C	CP	HA	HB	HC	HD	HE	HF	HG	HH	HL	HM	HO	HP	HT	X	Y	Z	
RB05	43T	1 1/2	2	12				32									11 5/8		3 3/8			
	45T			14 1/4				34 1/2										11 5/8		3 3/8		
	47T			15 1/8	19 5/8	13	10	35 3/4	8 1/4	5 1/2	28	2	ø9/16	9 1/8	12 1/2	14	1	7/8		5 3/4	3 3/8	4 1/4
	49T			16 5/8	19 5/8	13	10	37 1/8	8 1/4	5 1/2	28	2	ø9/16	9 1/8	12 1/2	14	1	7/8		5 3/4	3 3/8	4 1/4
	51T			18	19 5/8	13	10	38 1/2	8 1/4	5 1/2	28	2	ø9/16	9 1/8	12 1/2	14	1	7/8		5 3/4	3 3/8	4 1/4
RB06	43T	2	2 1/2	12				52 1/2									11 5/8		3 3/8			
	45T			14 1/4				55										11 5/8		3 3/8		
	47T			15 3/8	20 1/8	13	30	56 3/4	8 1/4	5 1/2	28	2	ø9/16	9 5/8	12 1/2	14 3/8	1	7/8		6 1/8	3 5/8	5 1/8
	49T			16 5/8	20 1/8	13	30	57 1/8	8 1/4	5 1/2	28	2	ø9/16	9 5/8	12 1/2	14 3/8	1	7/8		6 1/8	3 5/8	5 1/8
	51T			18	20 1/8	13	30	59	8 1/4	5 1/2	28	2	ø9/16	9 5/8	12 1/2	14 3/8	1	7/8		6 1/8	3 5/8	5 1/8
RB06	43T	ø2 1/2 FLANGE	ø5 FLANGE	12				31 3/4									11 5/8		3 3/8			
	45T			14 1/4				34 1/4										11 5/8		3 3/8		
	47T			15 3/8	19 3/8	13	30	35 1/2	8 1/4	5 1/2	28	2	ø9/16	8 7/8	12 1/2	14 1/8	1	7/8		5 7/8	2 3/4	5 1/8
	49T			16 5/8	19 3/8	13	30	36 7/8	8 1/4	5 1/2	28	2	ø9/16	8 7/8	12 1/2	14 1/8	1	7/8		5 7/8	2 3/4	5 1/8
	51T			18	19 3/8	13	30	38 1/4	8 1/4	5 1/2	28	2	ø9/16	8 7/8	12 1/2	14 1/8	1	7/8		5 7/8	2 3/4	5 1/8

SELECTION CURVES



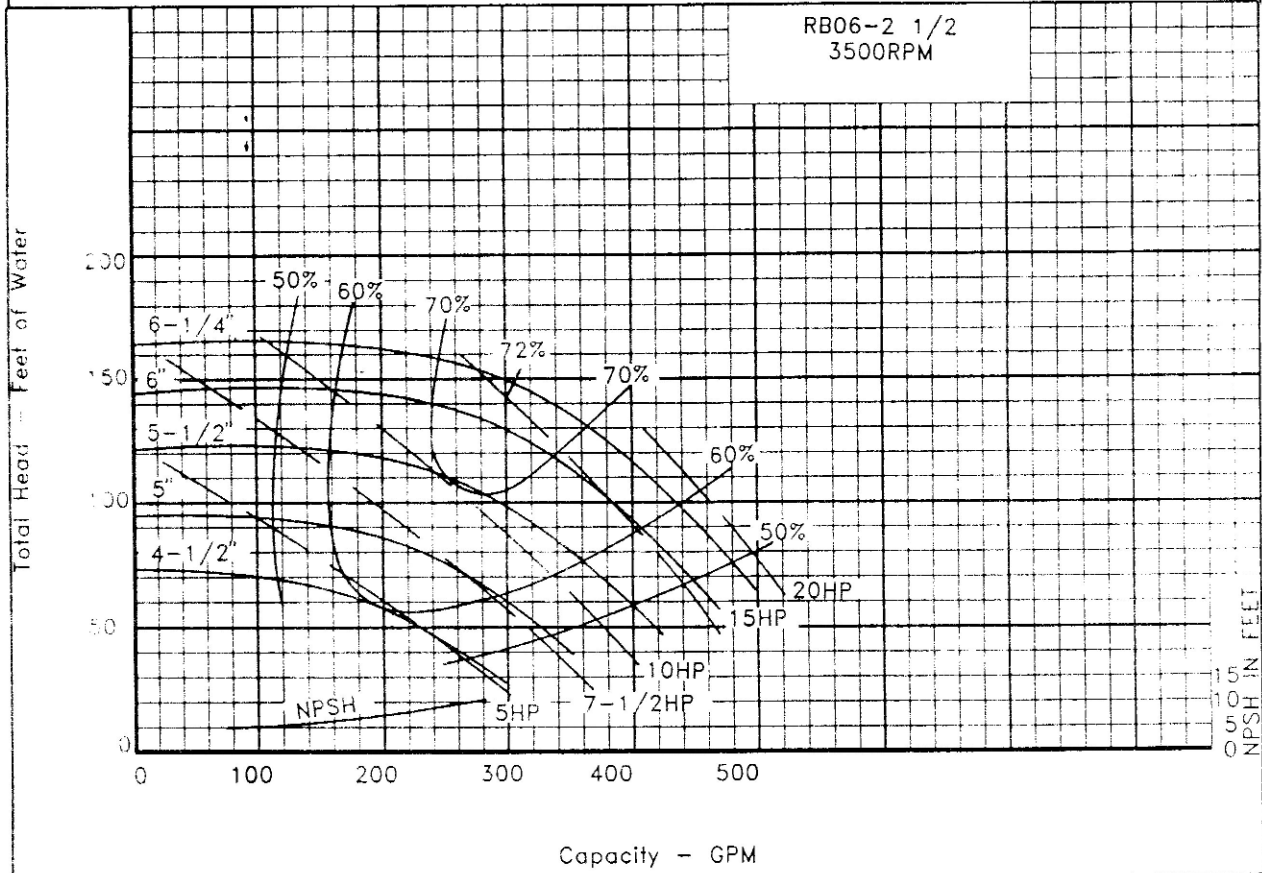
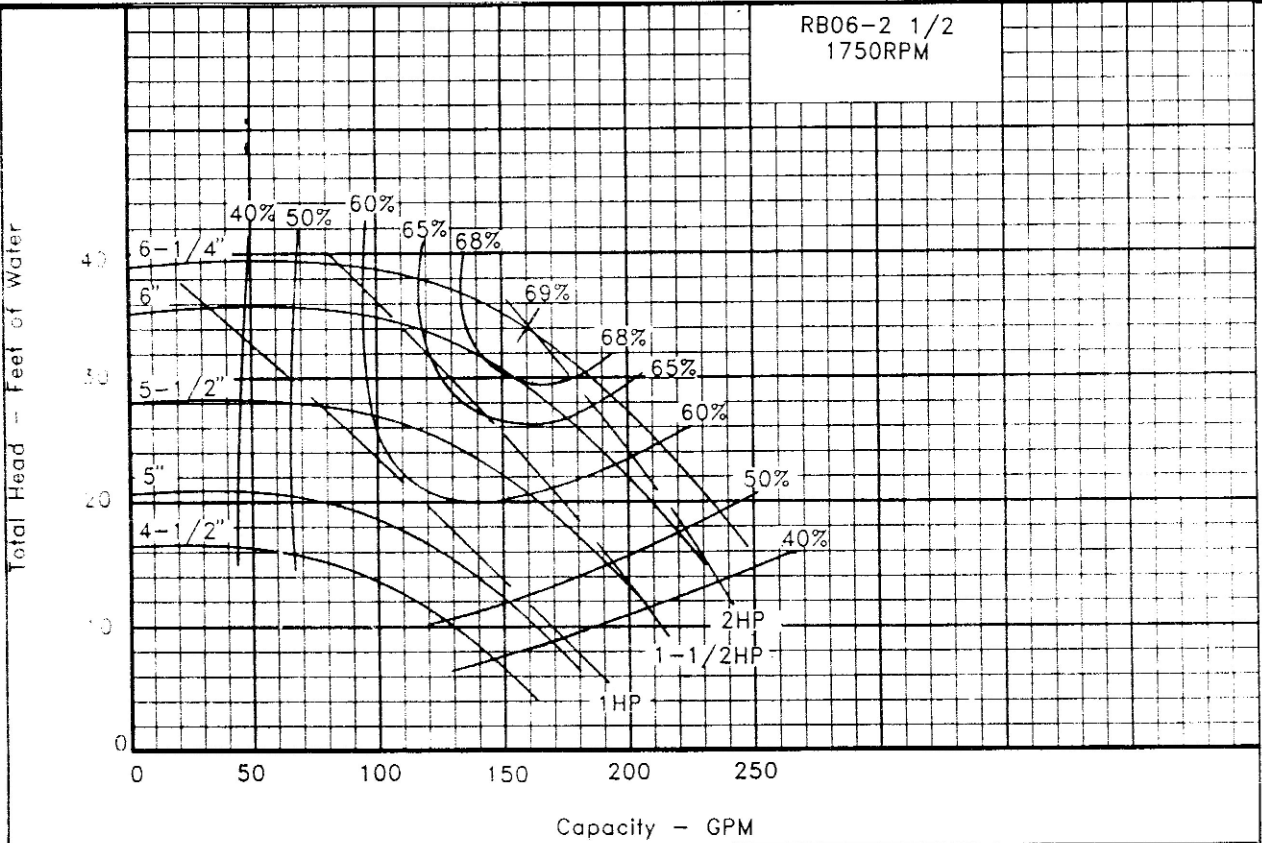
NOTE 1) Computerized pump selection program available, Pump Flotm.

SELECTION CURVES



NOTE 1) Computerized pump selection program available, Pump Flotm.

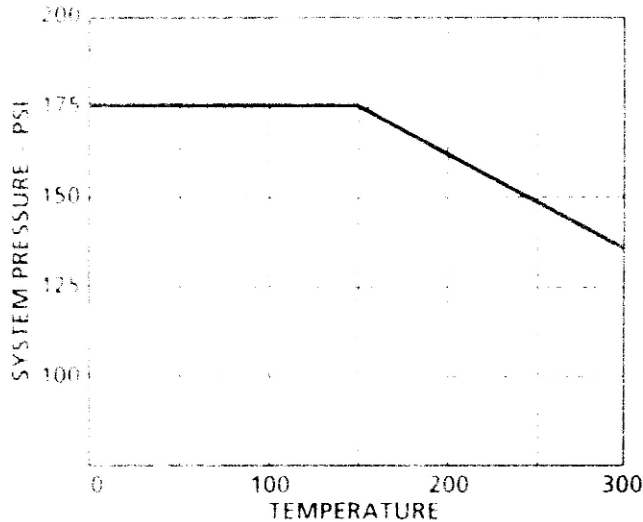
SELECTION CURVES



NOTE 1) Computerized pump selection program available, Pump Flotm.

TYPICAL SPECIFICATIONS

Rating Class 125 Class A
PRESSURE-TEMPERATURE RATINGS



OPERATING SPECIFICATIONS

	Standard	Optional
Pressure	175 PSI	
Temperature - Mechanical Seal	225°F	300°F

Motors - All NEMA standard 1/2 hp to 1 hp
in accordance with ANSI Standard B16.1 Class 125

- Furnish and install centrifugal base mounted, end-suction, single-stage pump(s) with capacities and characteristics as shown on plans. Pumps shall be MEPCO base mounted, Model RP or approved equal. Pump volute shall be Class 30 cast iron, and impeller shall be brass enclosed type, dynamically balanced.
- Seal shaft shall be of rotary type and suitable for water temperatures up to 225 degrees Fahrenheit.
- Pumps shall be rated for minimum of 175 PSI working pressure. Casings shall have vent and drain ports at top and bottom of the casing.
- Motor shall meet NEMA specifications and shall be of the size, voltage and enclosure called for on the plans. It shall have heavy-duty ball bearings and stainless steel shaft.
- Each pump shall be factory tested and thoroughly cleaned and painted with high grade lacquer prior to shipment.
- Each pump shall be checked by the contractor and regulated for proper differential pressure, voltage and amperage draw. The data shall be noted on a permanent tag or label and fastened to pump for owner's reference.
- The base shall be made of structural steel and incorporate a guide rail system to allow the pump and motor to be slid apart for service without risking major misalignment or disturbing the piping. A flexible coupler shall connect the pump to the motor and shall be covered by a coupler guard. Contractor shall level and grout each pump according to the manufacturers recommendations to insure proper alignment prior to operation.



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