



PUMP SECTION

Centrifugal Pumps, Type RB12 - Base Mounted, End Suction



**General Service Pumps
Flows to 2200 GPM, 75 PSI**

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 open space 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 a Buna N shaft seal rated for 250° 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.

Motor Data (HP)			
ODP/TEFC 1150 RPM		ODP/TEFC 1750 RPM	
HP	FRAME	HP	FRAME
2	184T		
3	213T	3	182T
5	215T	5	184T
7-1/2	254T	7-1/2	213T
10	256T	10	215T
15	284T	15	254T
20	286T	20	256T
25	324T	25	284T
		30	286T
		40	324T
		50	326T
		60	364T
		75	365T

MATERIAL LIST

AND AVAILABLE OPTIONS

NO.	ITEM	MATERIAL	OPTION
1	CASE	CLASS 30 C.I.	BRONZE
2	O-RING	BUNA N	EPT/VITON
3	IMPELLER	BRONZE	CAST IRON
4	BOLT	STEEL	BRONZE
5	MECH. SEAL	BUNA N	EPT/VITON
6	BEARING ASSY.	BALL TYPE	
7	BASE	STEEL	

BEARING ASSEMBLY FEATURE

- Ball bearing with minimum of 50,000 hours of bearing life at worse case. 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.

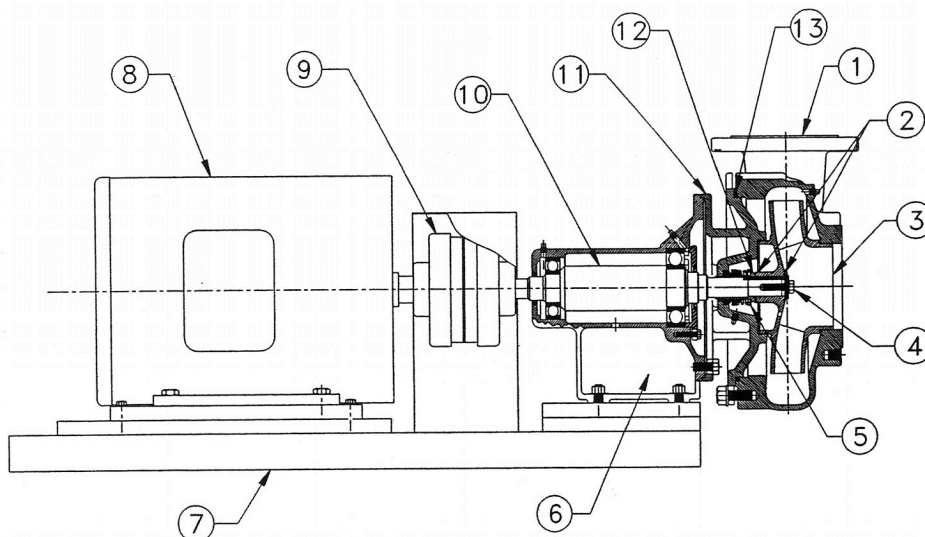
Rear pull out design allows pump to be serviced without disturbing the system piping.

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

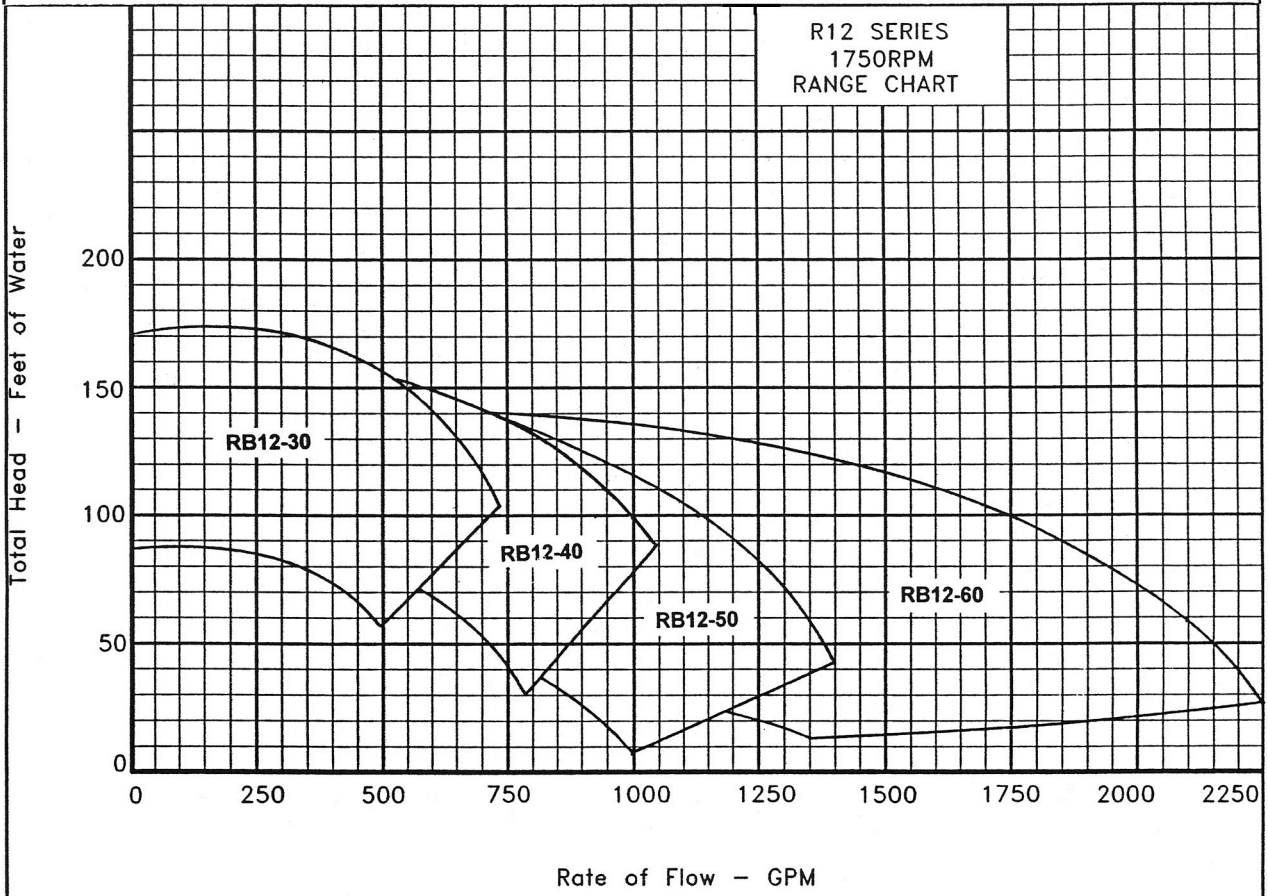
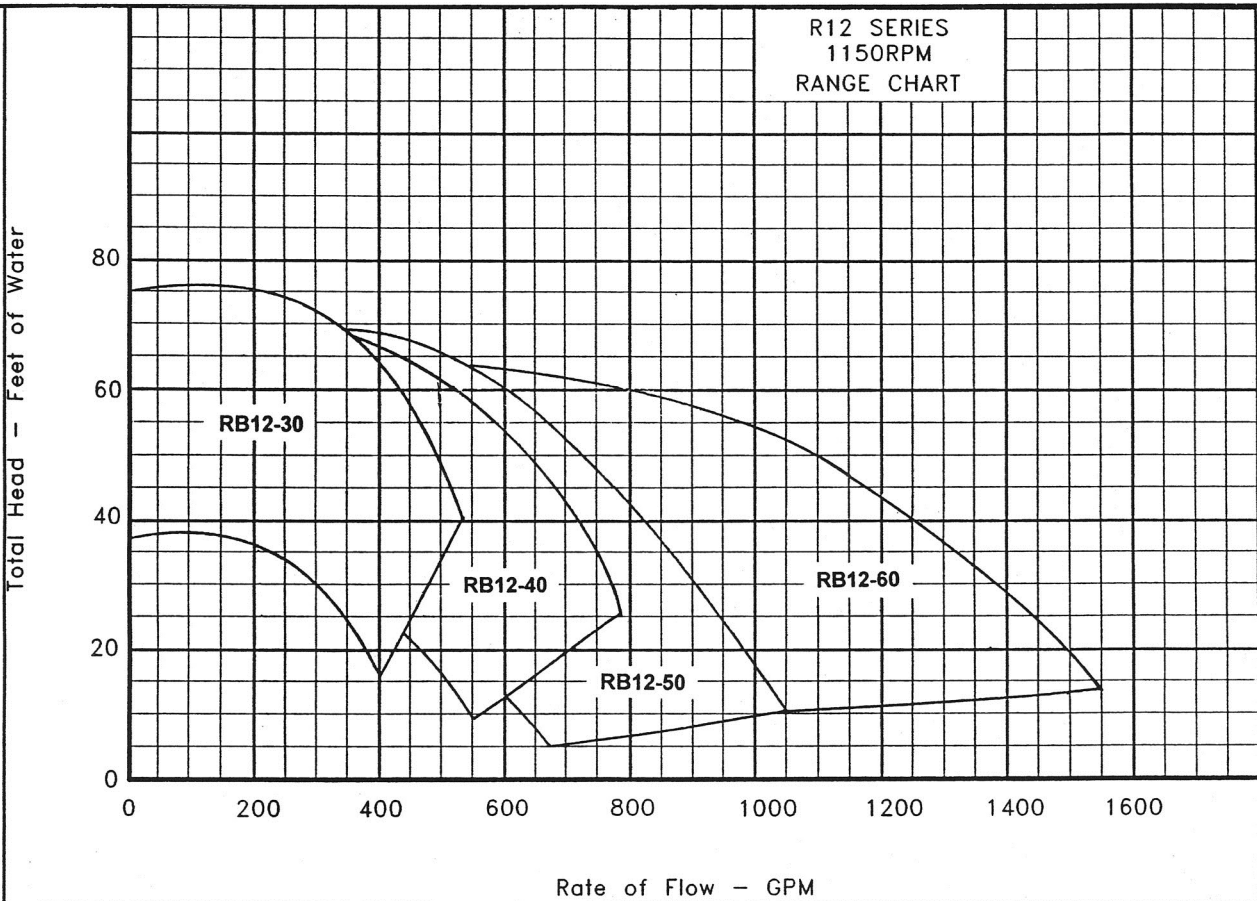
Based on std. construction & pumping clear water

RPM -	1150, 1750
HORSEPOWER -	60
STD. SEAL TEMP. -	250°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

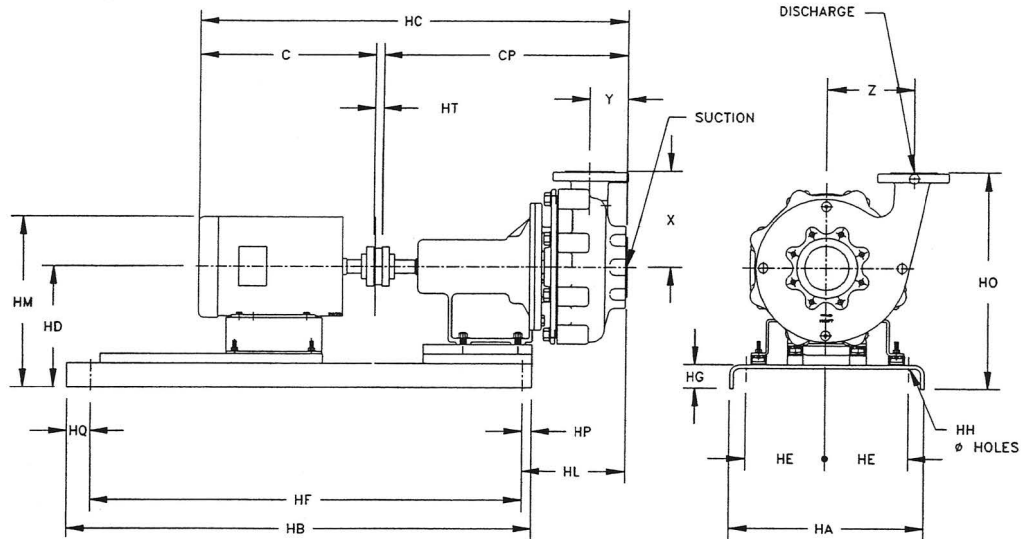


NO.	ITEM	MATERIAL	OPTION
8	MOTOR	NEMA (ODP)	TEFC/XPROOF
9	COUPLING	FLEX	
10	SHAFT	STEEL	
11	ADAPTER	CLASS 30 C.I.	SST
12	SLEEVE	BRONZE	SST
13	O-RING	BUNA N	EPT/VITON

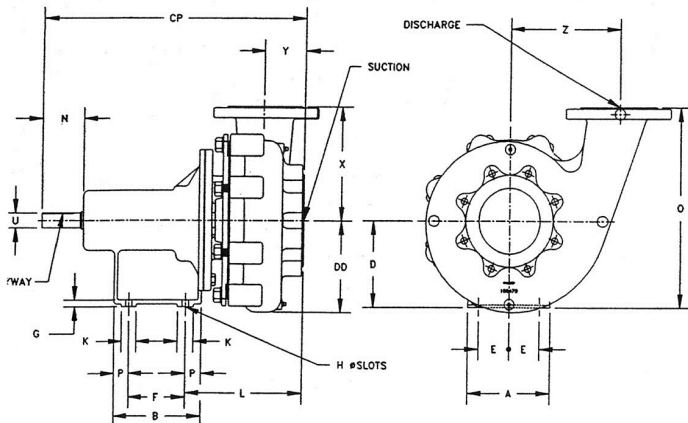
RAPID SELECTION CURVES



DIMENSIONS



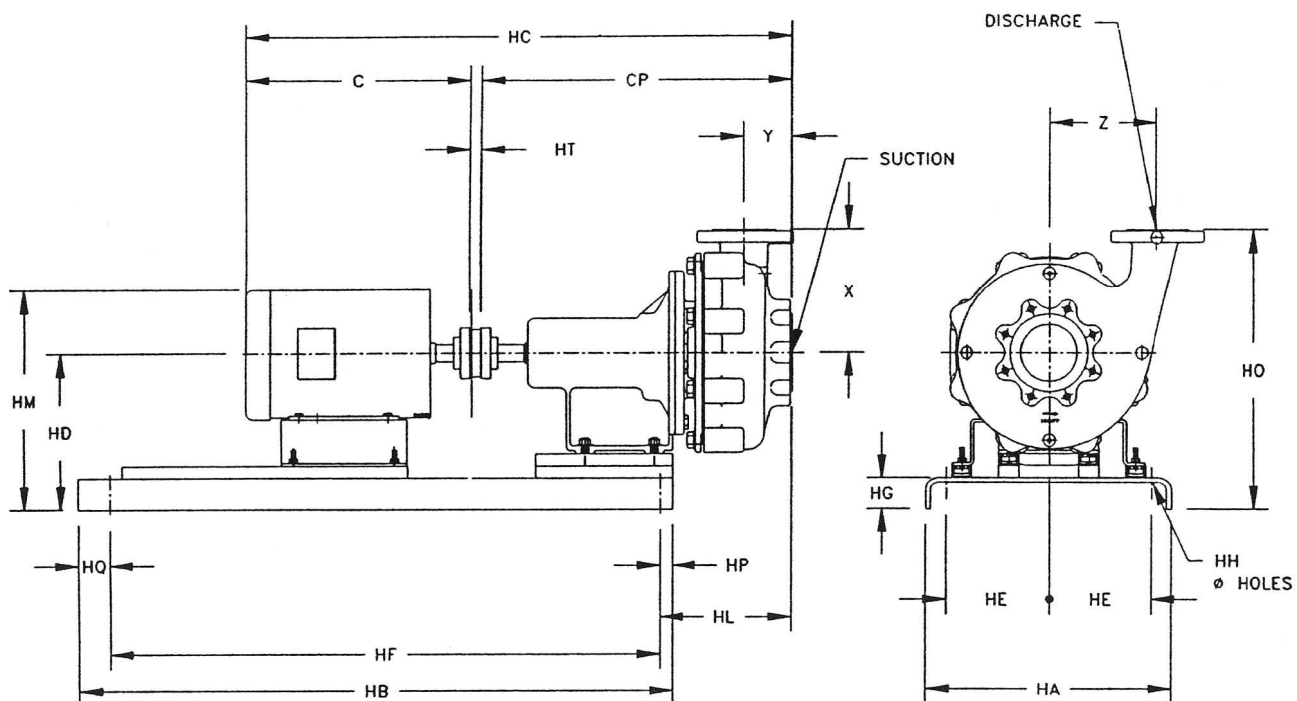
PUMP	MOTOR FRAME SIZE	DISC.	SUCT.	DIMENSIONS IN INCHES																							
				C	CP	HA	HB	HC	HD	HE	HF	HG	HH	HL	HM	HO	HP	HQ	HT	X	Y	Z					
RB12 30	254T	#3 FLANGE	#4 FLANGE	21 11/16	25 3/16	19 3/4	48	47 3/16	12 1/2	8 1/4	44 1/2	2 1/2	#5/8	10 11/16	19 1/8	22 1/4	1	2 1/2	1	9 3/4	3 13/16	8 11/16					
	256T			23 3/16				48 3/8							20 1/8				1 1/8								
	284T			24 15/16				50 1/8							21				1 7/16								
	286T			25 1/16				50 1/4											1 5/8								
	324T			25 5/8				53 13/16																			
	326T			28 1/2				53 11/16																			
	364T			28 5/8				53 13/16							22 1/2												
RB12 40	254T	#4 FLANGE	#4 FLANGE	21 11/16	25 3/16	19 3/4	48	47 3/16	12 1/2	8 1/4	44 1/2	2 1/2	#5/8	10 11/16	19 1/8	22 1/2	1	2 1/2	1	10	3 11/16	9 1/2					
	256T			23 3/16				48 3/8							20 1/8				1 1/8								
	284T			24 15/16				50 1/8							21				1 7/16								
	286T			25 1/16				50 1/4											1 5/8								
	324T			25 5/8				53 13/16																			
	326T			28 1/2				53 11/16																			
	364T			28 5/8				53 13/16							22 1/2												
RB12 50	254T	#5 FLANGE	#6 FLANGE	21 11/16	25 3/8	19 3/4	48	47 9/16	12 1/2	8 1/4	44 1/2	2 1/2	#5/8	10 7/8	19 1/8	23	1	2 1/2	1	10 1/2	3 7/8	10 7/16					
	256T			23 3/16				48 9/16							20 1/8				1 1/8								
	284T			24 15/16				50 5/16							21				1 7/16								
	286T			25 1/16				50 7/16											1 5/8								
	324T			25 5/8				54																			
	326T			28 1/2				53 7/8																			
	364T			28 5/8				54							22 1/2												
RB12 60	254T	#6 FLANGE	#8 FLANGE	21 11/16	25 11/16	19 3/4	48	47 9/16	12 1/2	8 1/4	44 1/2	2 1/2	#5/8	11 3/16	19 1/8	24	1	2 1/2	1	11 1/2	3 3/4	11 11/16					
	256T			23 3/16				48 7/8							20 1/8				1 1/8								
	284T			24 15/16				50 5/8							21				1 7/16								
	286T			25 1/16				50 3/4											1 5/8								
	324T			25 5/8				54 5/16																			
	326T			28 1/2				54 3/16																			
	364T			28 5/8				54 5/16							22 1/2												



PUMP	DISC.	SUCT.	DIMENSIONS IN INCHES								
			A	B	CP	D	DD	E	F	G	H
RB12 30	#3 FLANGE	#4 FLANGE	8	8 1/2	25 3/16	8	7 15/16	3	5 1/2	5/8	5/8
RB12 40	#4 FLANGE	#5 FLANGE	8	8 1/2	25 3/16	8	7 15/16	3	5 1/2	5/8	5/8
RB12 50	#5 FLANGE	#6 FLANGE	8	8 1/2	25 3/8	8	8 1/2	3	5 1/2	5/8	5/8
RB12 60	#6 FLANGE	#8 FLANGE	8	8 1/2	25 11/16	8	9 1/2	3	5 1/2	5/8	5/8

K	L	N	O	P	U	X	Y	Z
1 1/2	11 3/16	3 7/8	17 3/4	1 1/2	#1 3/8	9 3/4	3 13/16	8 11/16
1 1/2	11 3/16	3 7/8	18	1 1/2	#1 3/8	10	3 11/16	9 1/2
1 1/2	11 3/8	3 7/8	18 1/2	1 1/2	#1 3/8	10 1/2	3 7/8	10 7/16
1 1/2	11 11/16	3 7/8	19 1/2	1 1/2	#1 3/8	11 1/2	3 3/4	11 11/16

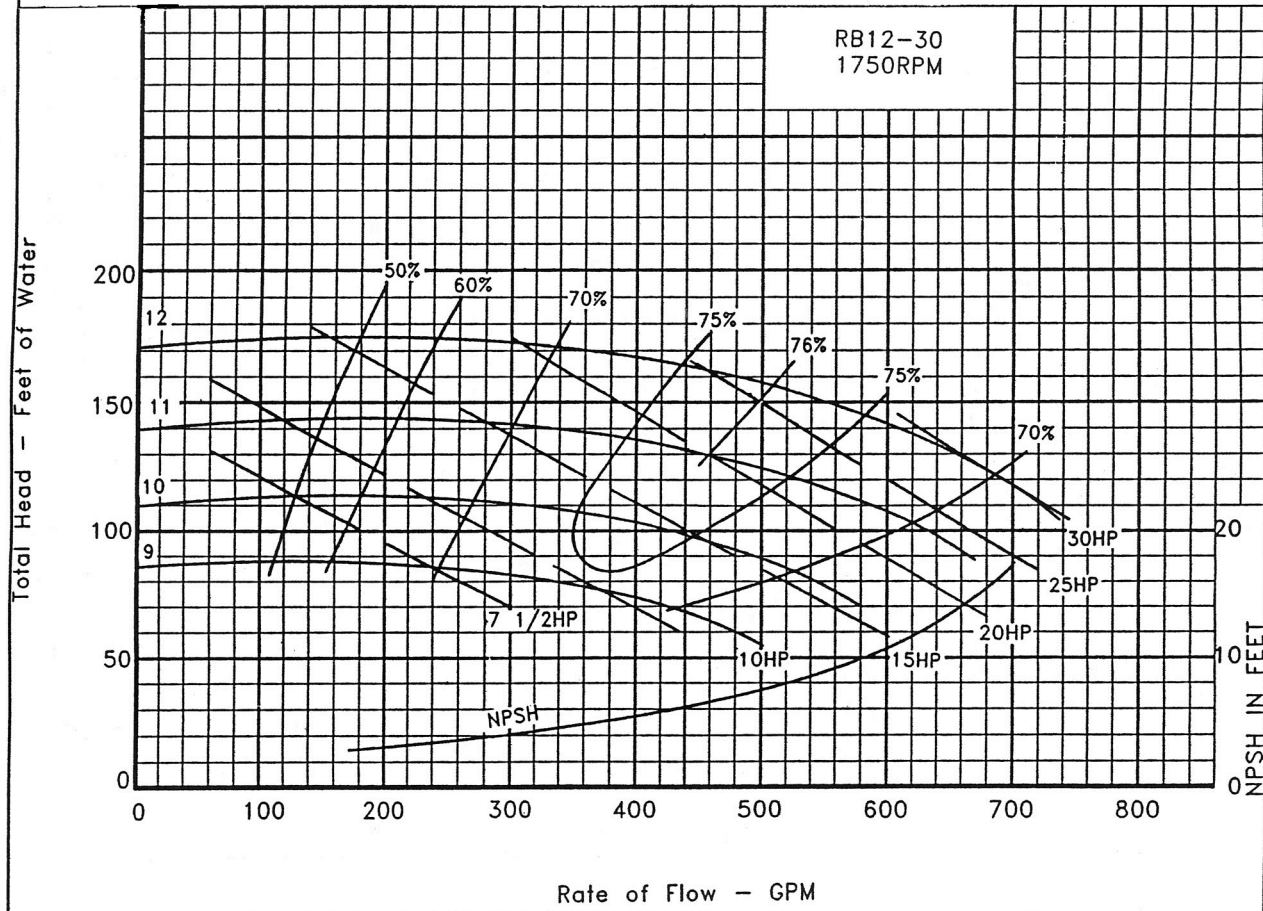
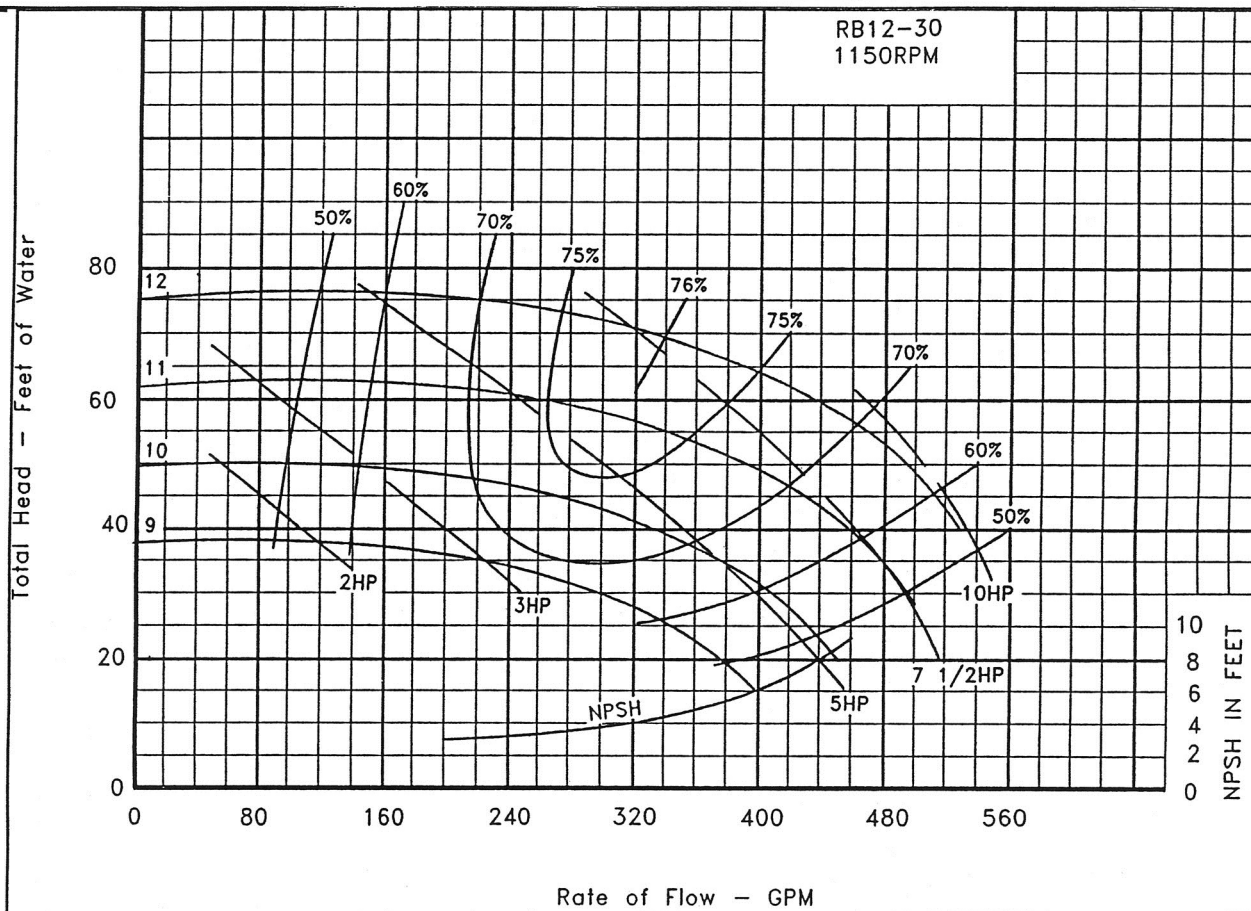
DIMENSIONS



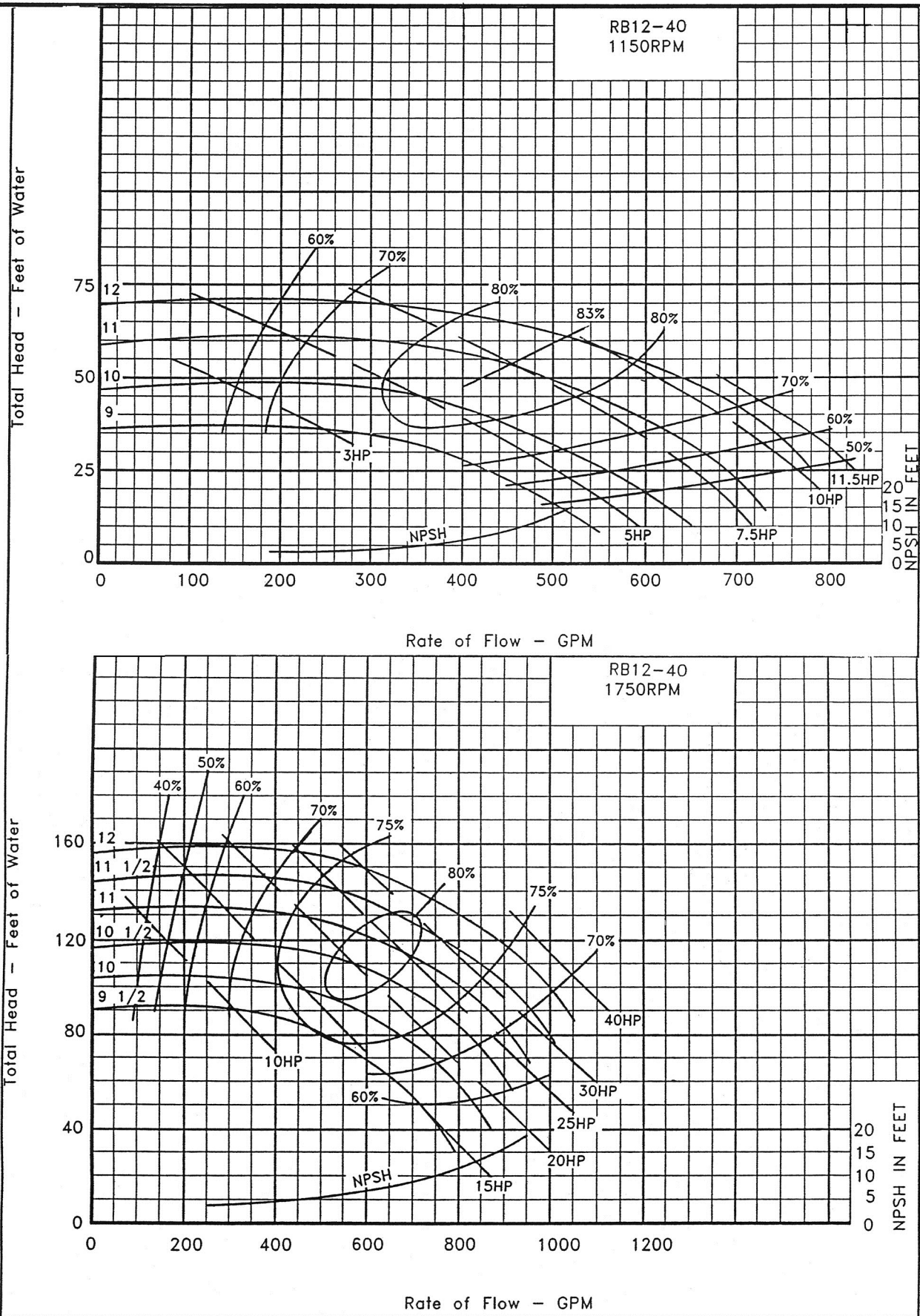
**RB12 BASE MOUNTED 254-364T
CENTRIFUGAL PUMP DIMENSIONAL DATA**

PUMP	MOTOR FRAME SIZE	DISC.	SUCT.	DIMENSIONS IN INCHES																								
				C	CP	HA	HB	HC	HD	HE	HF	HG	HH	HL	HM	HO	HP	HQ	HT	X	Y	Z						
RB12 30	184T	#3 FLANGE	#4 FLANGE	16 5/8	25 3/16	19 3/4	48	42 9/16	12 1/2	8 1/4	44 1/2	2 1/2	#5/8	10 11/16	16 3/8	22 1/4	1	2 1/2	3/4	9 3/4	3 13/16	8 11/16						
	213T			18				44 1/16							17 9/16				7/8									
	215T			19 1/4				45 5/16							19 1/8				1									
	254T			21 11/16				47 7/8																				
	256T			23 3/16				49 3/8																				
	284T			24 15/16				51 1/4							20 1/8				1 1/8									
	286T			25 1/16				51 3/8							19 1/8				1									
RB12 40	184T	#4 FLANGE	#5 FLANGE	16 5/8	25 3/16	19 3/4	48	42 9/16	12 1/2	8 1/4	44 1/2	2 1/2	#5/8	10 11/16	16 3/8	22 1/2	1	2 1/2	3/4	10	3 11/16	9 1/2						
	213T			18				44 1/16							17 9/16				7/8									
	215T			19 1/4				45 5/16							19 1/8				1									
	254T			21 11/16				47 7/8																				
	256T			23 3/16				49 3/8																				
	284T			24 15/16				51 1/4							20 1/8				1 1/8									
	286T			25 1/16				51 3/8							19 1/8				1									
RB12 50	215T	#5 FLANGE	#6 FLANGE	19 1/4	25 3/8	19 3/4	48	45 1/2	12 1/2	8 1/4	44 1/2	2 1/2	#5/8	10 7/8	17 9/16	23	1	2 1/2	7/8	10 1/2	3 7/8	10 7/16						
	254T			21 11/16				47 9/16							19 1/8				1									
	256T			23 3/16				48 9/16							20 1/8				1 1/8									
	284T			24 15/16				50 5/16																				
	286T			25 1/16				50 7/16																				
	324T			25 5/8				54							21				1 7/16									
	326T			28 1/2				53 7/8																				
RB12 60	254T	#6 FLANGE	#8 FLANGE	21 11/16	25 11/16	19 3/4	48	48 9/16	12 1/2	8 1/4	44 1/2	2 1/2	#5/8	11 3/16	19 1/8	24	1	2 1/2	1	11 1/2	3 3/4	11 11/16						
	256T			23 3/16				49 7/8							20 1/8				1 1/8									
	284T			24 15/16				51 3/4																				
	286T			25 1/16				51 7/8																				
	324T			25 5/8				55 3/4							21				1 7/16									
	326T			28 1/2				55 5/8																				
	364T			28 5/8				55 15/16							22 1/2				1 5/8									

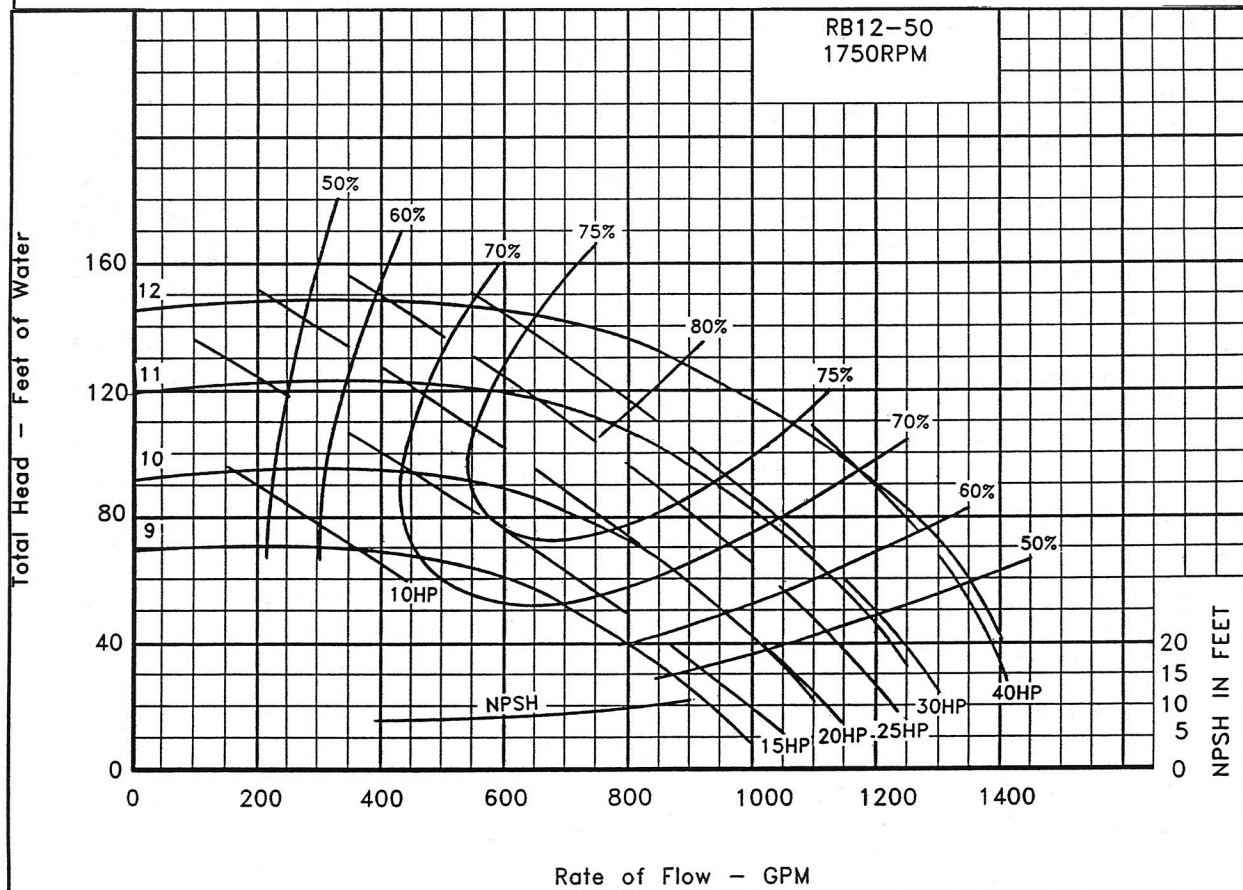
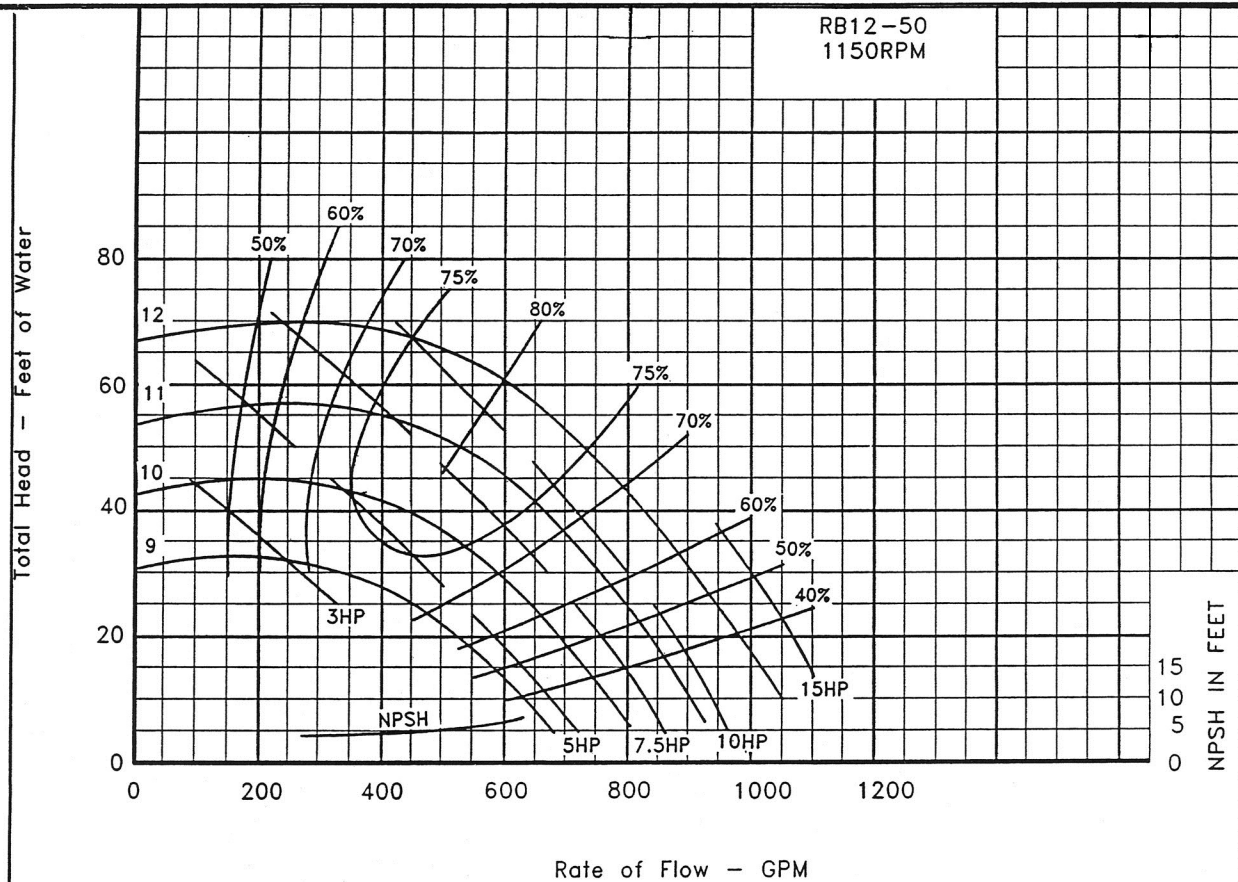
SELECTION CURVES



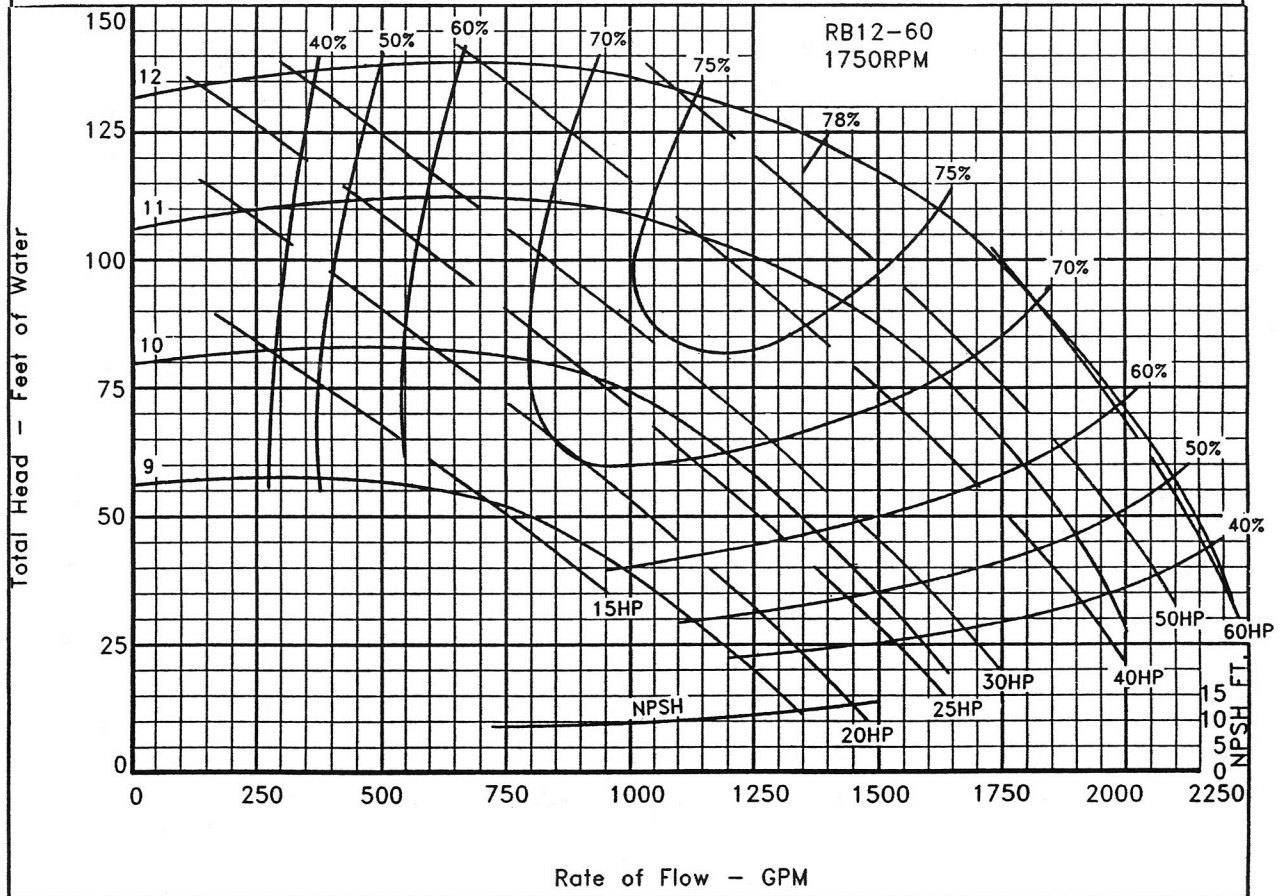
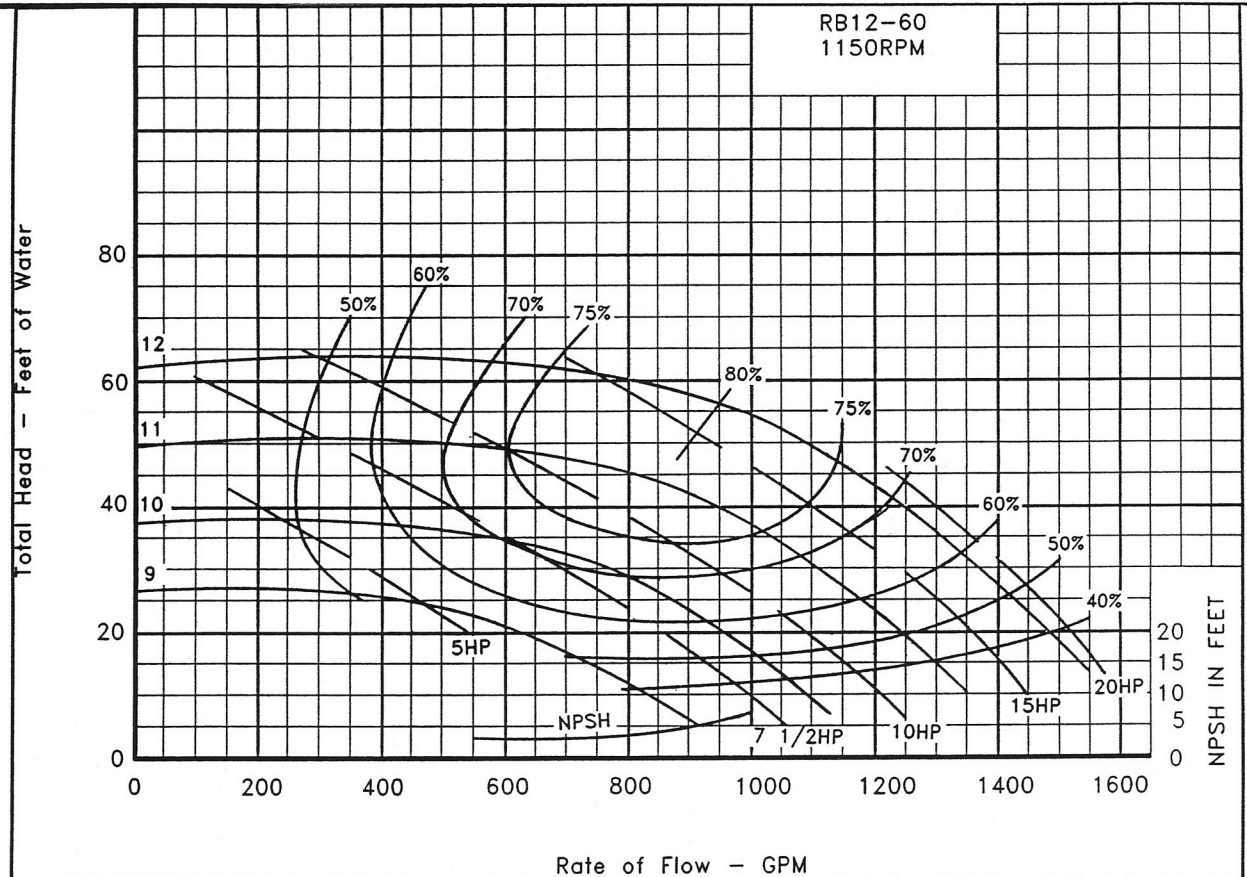
SELECTION CURVES



SELECTION CURVES

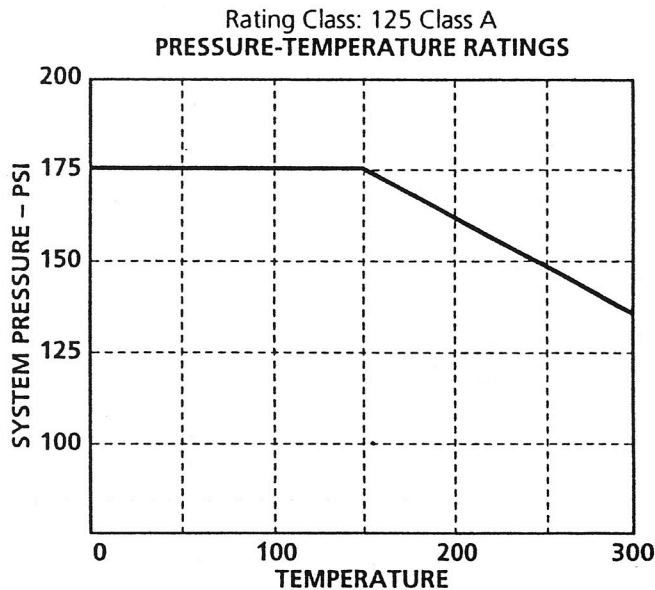


SELECTION CURVES



TYPICAL SPECIFICATIONS

- 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 RB or approved equal. Pump volute shall be Class 30 cast iron, and impeller shall be brass enclosed type, dynamically balanced.
- Shaft Seal shall be rated for minimum of 175 PSI working pressure. Casings shall have vent and drain ports at tip 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. This 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.
- Note: Motors are rated for 230/460 volt. The 208 volt is available upon request, contact factory.



OPERATING SPECIFICATIONS		
	Standard	Optional
Pressure	175 PSIG*	
Temperature: Mechanical Seal	250°F	300F

Motors: All NEMA Standard (T orTS)

* In accordance with ANSI Standard B16.1 Class 125



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