FORM 1603D

PUMP SECTION

Centrifugal Pumps, Type RC06 - Close Coupled, End Suction

General Service Pumps
Flows to 480 GPM, 75 PSI

FEATURES

The MEPCO Model R Series Pumps meet the latest standards for hydraulic performance and dimensional characteristics. The pump shall be close coupled to a NEMA standard JM motor. The pump incorporates a dry shaft design to prevent the fluid from contacting the shaft. The shaft shall be covered with a replaceable bronze (stainless steel) shaft sleeve.

The standardization and interchangeability for the R Series Pump line results in reduced parts inventories and lower costs for multiple pump installations. An easy-to-replace, slip-on shaft sleeve facilitates seal maintenance in the field and lowers costs. The dry shaft design protects the pump shaft by eliminating contact between the shaft and the fluid. Corrosion resistant shaft materials are not required. Standard brass sleeve or optional stainless steel sleeve will eliminate this maintenance problem.

MEPCO Model R Pumps are ideally suited for a variety of applications, including heating, air conditioning and pressure boosting.

Pump casing discharge can be located in any of six (6) positions. The pump shall be capable of being serviced without disturbing the system piping with pump back pull-out design.

The advanced impeller design maximizes hydraulic efficiency, dynamically balanced for vibration free operation.

MATERIALS OF CONSTRUCTION

ITEM	DESCRIPTION	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	O-RING	BUNA N	EPT/VITON
7	O-RING	BUNA N	EPT/VITON
8	WASHER	BUNA N	EPT/VITON
9	WASHER	SST	BRONZE
10	KEY	SST	
11	BOLT	STEEL	BRONZE
12	BOLT	STEEL	
13	BOLT	STEEL	
14	PIPE PLUG	CLASS 30 C. I.	BRONZE
15	MOTOR	NEMA (ODP)	TEFC/XPROOF

The mechanical seal is constructed of Buna N shaft seal rated for 250 degrees Fahrenheit and pressures up to 175 PSI ceramic seat and carbon seal face for long trouble free service. Alternative seals are available to suit temperatures and liquid.

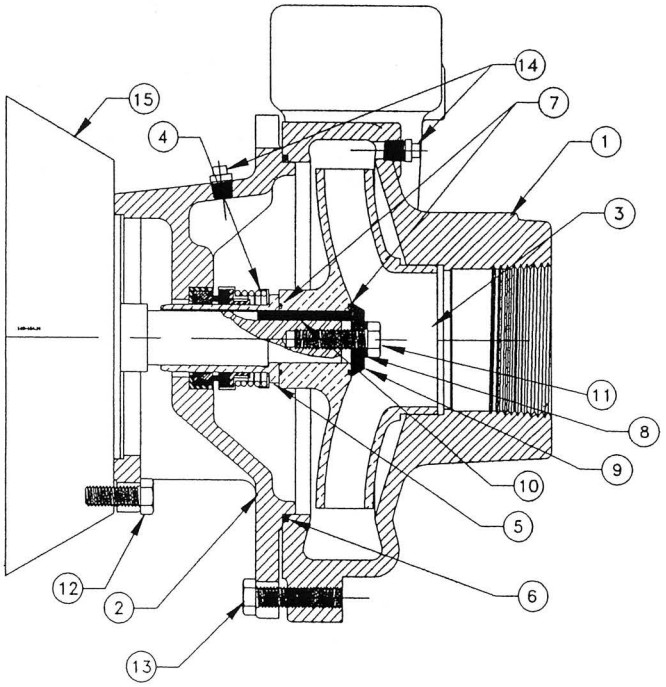
Dry shaft design ensures shaft is never exposed to the system fluid.

- Simplifies sleeve and seal removal/reassembly.
- Easy-to-replace slip-on shaft sleeve facilitates seal maintenance in the field and lowers long-term maintenance costs.

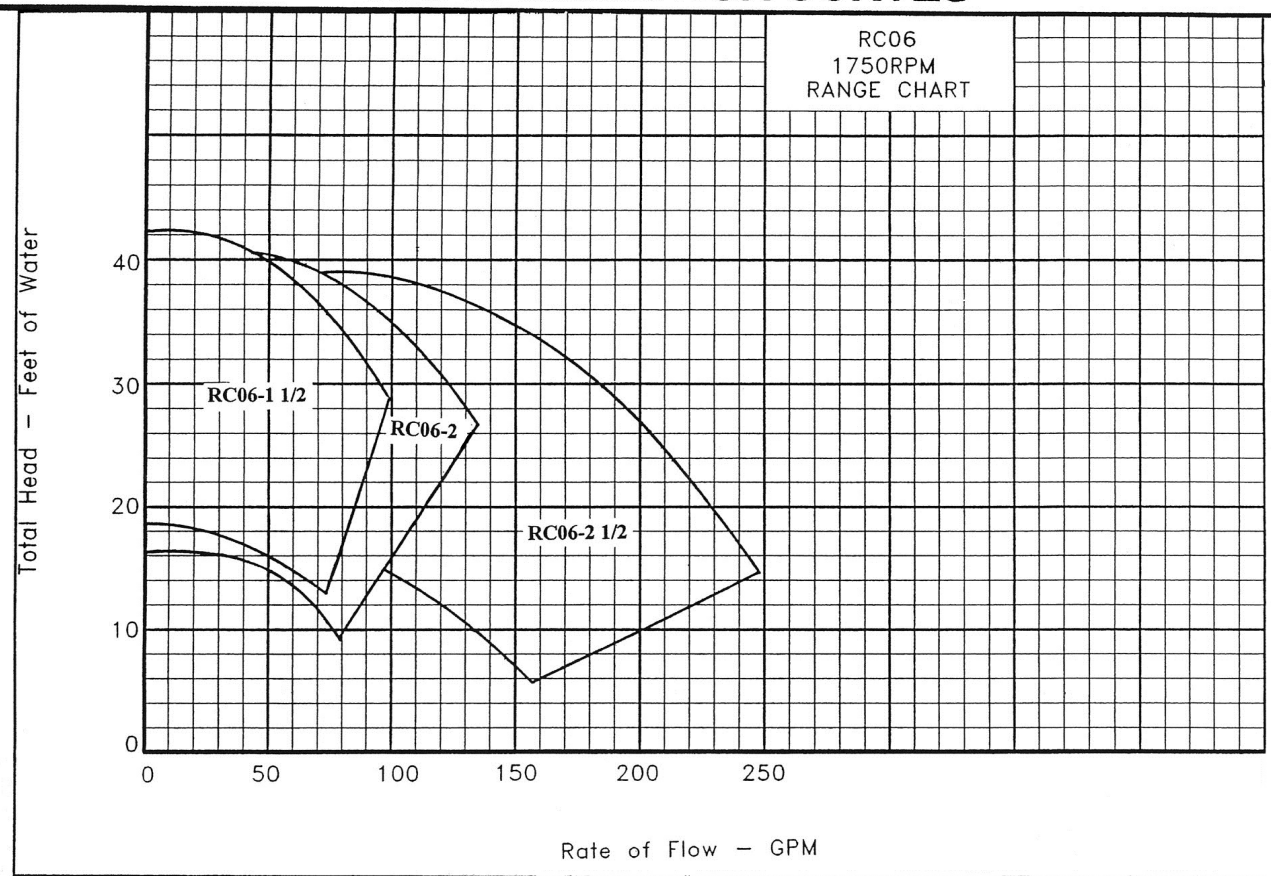
MAXIMUM OPERATING CONDITIONS

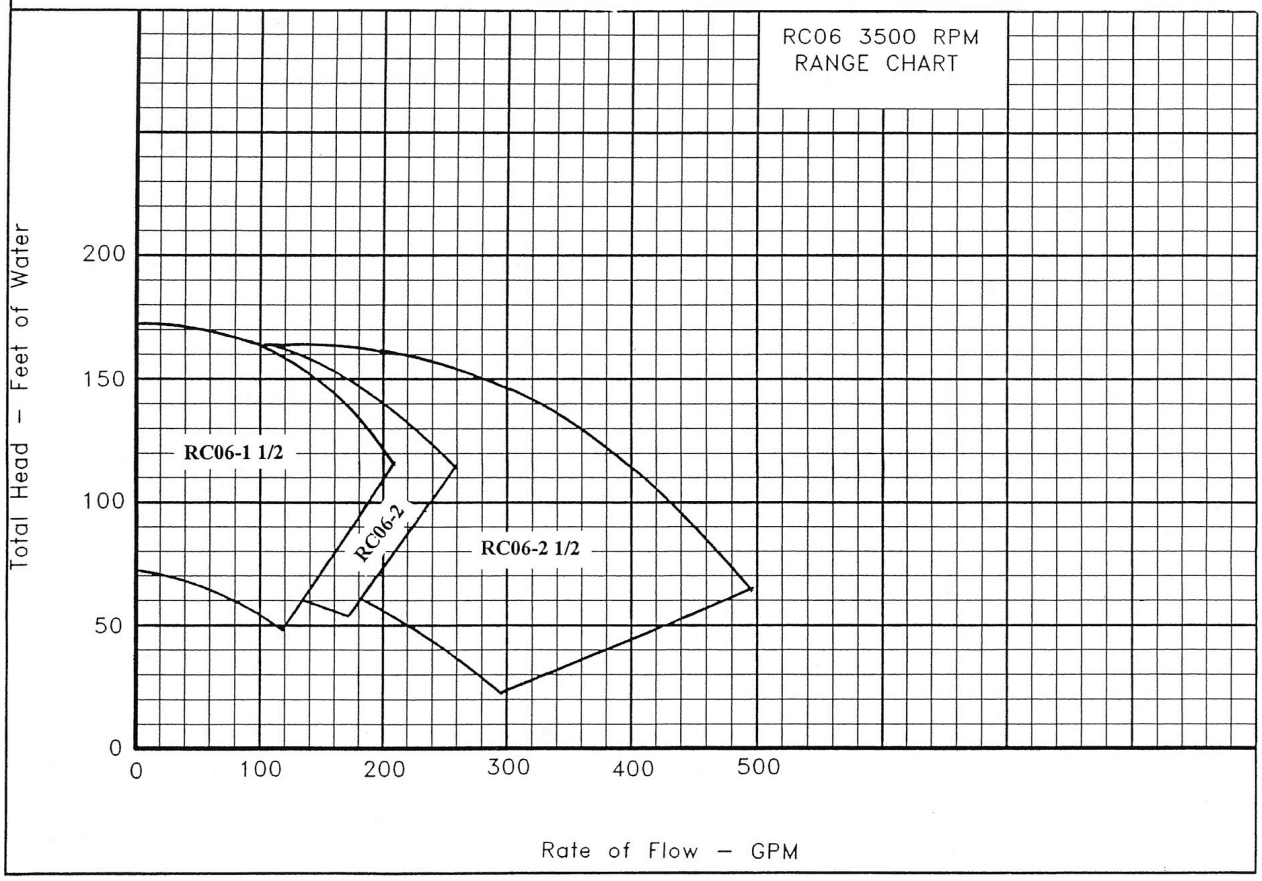
Based on Std. Construction & Pumping Clear Water

RPM -	1750, 3450
HORSEPOWER -	20
STD. SEAL TEMP. -	250° DEGREES FAHRENHEIT
OPT. SEAL TEMP.	300° F = EPT, 400° F = VITON
MODEL R6 -	150 LB. FLANGES
MAX. WORKING PRESS. -	175 PSI
HYDROSTATIC TEST PRESSURE -	265 PSI



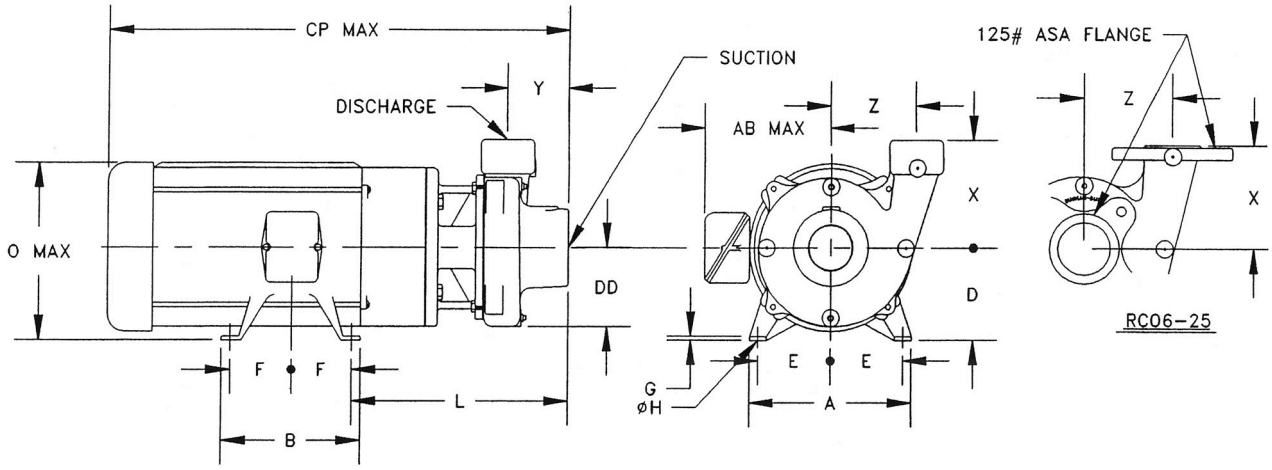
RAPID SELECTION CURVES





Computerized pump curves are available for sizing, Pump Flo[tm] program.

DIMENSIONS

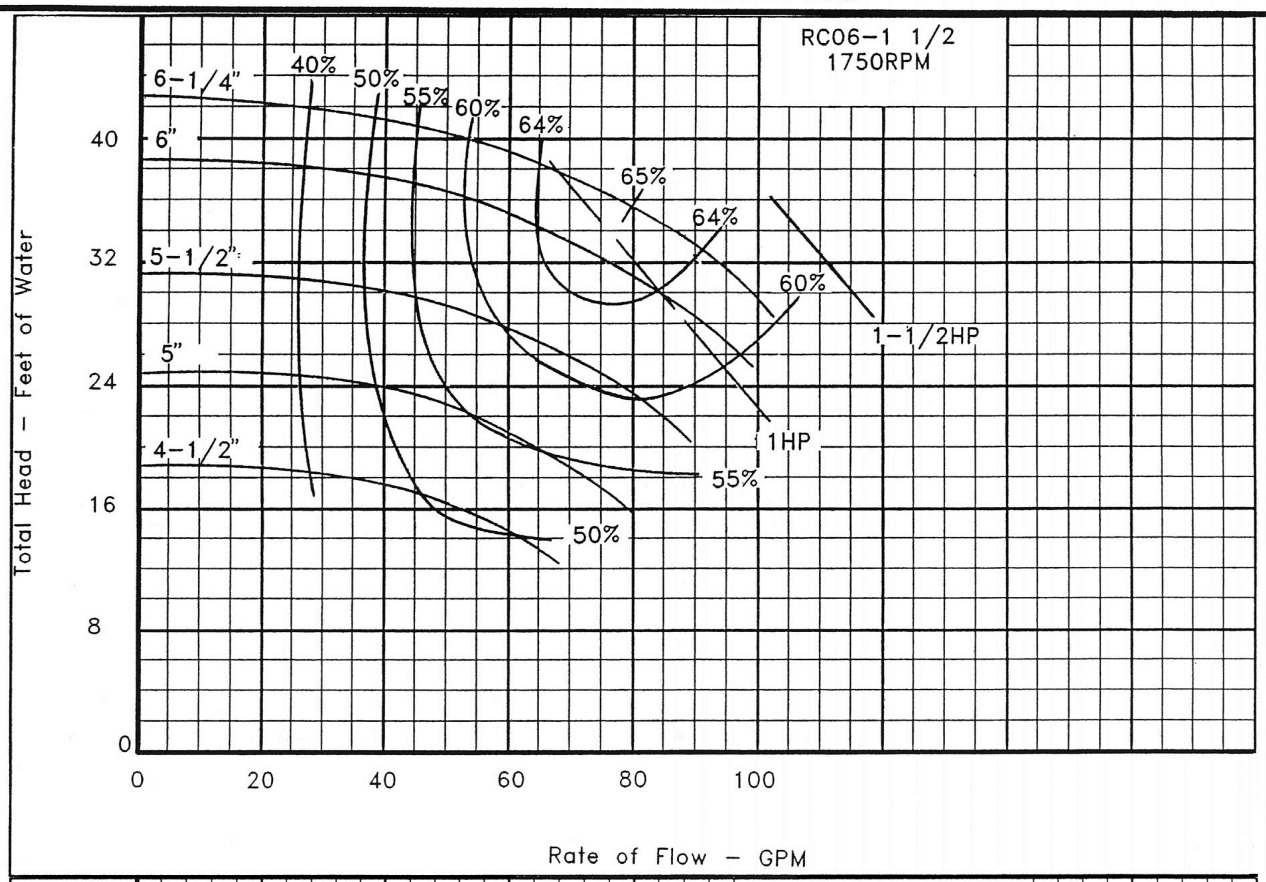


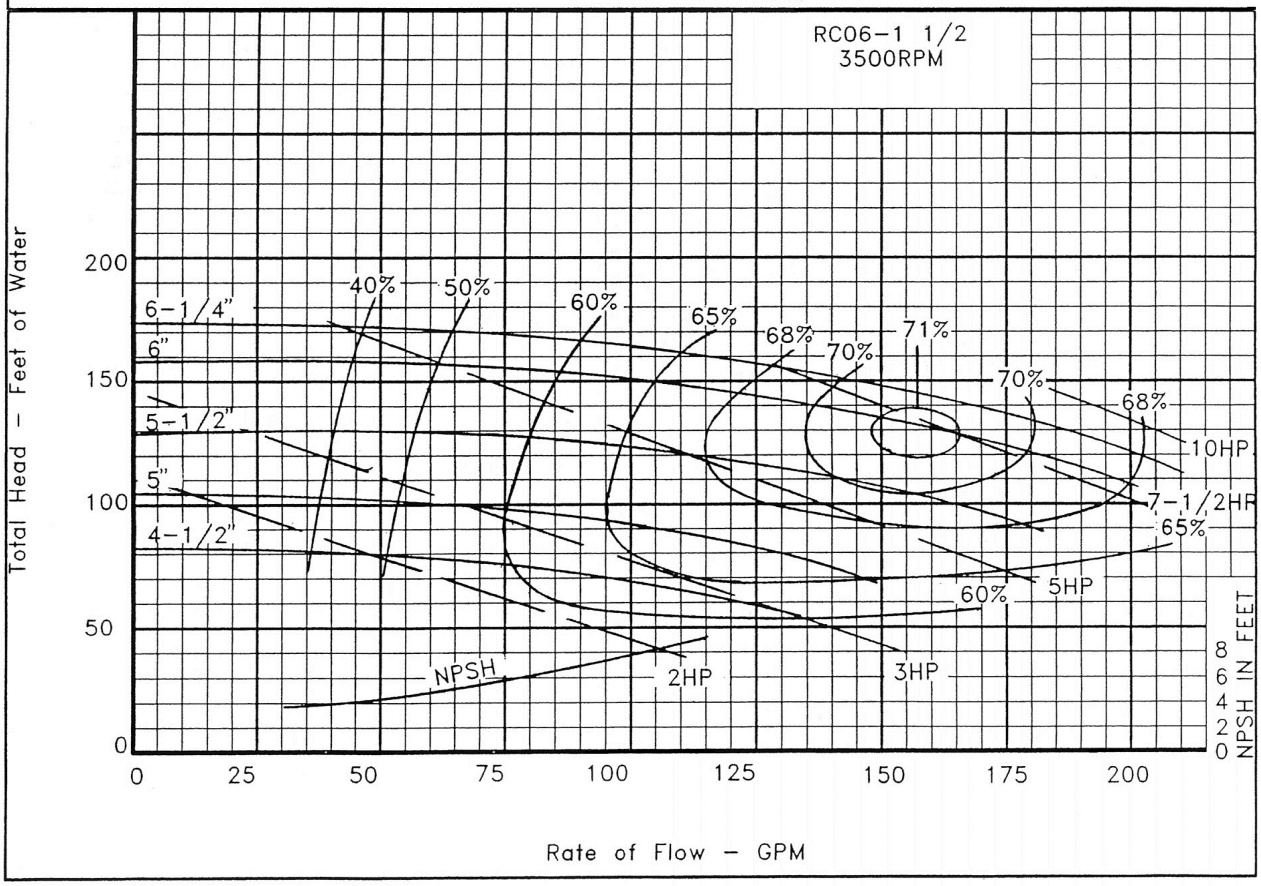
PUMP	MOTOR FRAME SIZE	DISC. NPT	SUCT. NPT	DIMENSIONS IN INCHES														
				A	AB	B	CP	D	DD	E	F	G	H	L	O	X	Y	Z
RC06 15	143JM	1 1/2	2	7	5 1/4	5 15/16	18 15/16	3 1/2	4 3/8	2 3/4	2	1/8	11/32	10 1/2	6 7/8	5 3/4	3 3/8	4 11/16
	145JM						19 11/16				2 1/2							
	182JM			9	5 7/8	6 1/2	19 7/8	4 1/2		3 3/4	2 1/4	3/16	13/32	11 1/8	8 7/16			
	184JM						21 3/8				2 3/4							
	213JM			10 1/2	7 3/8	8	22 7/16	5 1/4		4 1/4	2 3/4	1/4	13/32	12 1/8	10 1/16			
RC06 20	143JM	2	2 1/2	7	5 1/4	5 15/16	20 1/16	3 1/2	4 1/2	2 3/4	2	1/8	11/32	11	6 7/8	6 1/8	3 5/8	5 1/16
	145JM						20 7/8				2 1/2							
	182JM			9	5 7/8	6 1/2	21 1/16	4 1/2		3 3/4	2 1/4	3/16	13/32	11 5/8	8 7/16			
	184JM						22 9/16				2 3/4							
	213JM			10 1/2	7 3/8	8	23 5/8	5 1/4		4 1/4	2 3/4	1/4	13/32	12 5/8	10 1/16			
	215JM						25 5/8				3 1/2							
RC06 25	143JM	2 1/2 FLANGE	3 FLANGE	7	5 1/4	5 15/16	19 5/16	3 1/2	4 3/4	2 3/4	2	1/8	11/32	10 1/4	6 7/8	5 7/8	2 3/4	5 1/8
	145JM						20 1/16				2 1/2							
	182JM			9	5 7/8	6 1/2	20 5/16	4 1/2		3 3/4	2 1/4	3/16	13/32	10 7/8	8 7/16			
	184JM						21 13/16				2 3/4							
	213JM			10 1/2	7 3/8	8	22 7/8	5 1/4		4 1/4	2 3/4	1/4	13/32	12	10 1/16			
	215JM						24 7/8				3 1/2							
	254JM			11 1/4	8 15/16	9 1/2	28 1/8	6 1/4		5	4 1/8	1/2	17/32	13 1/8	12			

MOTOR DATA

	OPD - HP				TEFC - HP			
FRAME	1750 RPM 1ø	1750 RPM 3ø	3450 RPM 1ø	3450 RPM 3ø	1750 RPM 1ø	1750 RPM 3ø	3450 RPM 1ø	3450 RPM 3ø
143JM	1	1	1 1/2	1 1/2	1	1	1 1/2	1 1/2
145JM	1 1/2	1 1/2, 2	2	2, 3	1 1/2	1 1/2, 2	2	2, 3
182JM	2	3	3	5	2	3	3	
184JM		5	5	7 1/2		5	5	5
213JM		7 1/2		10		7 1/2		7 1/2
215JM		10		15		10		10
254JM		15		20				15
256JM		20		25				20
284JM		25		30				25
286JM		30		40				
324JM		40		50				
326JM				60				

SELECTION CURVES





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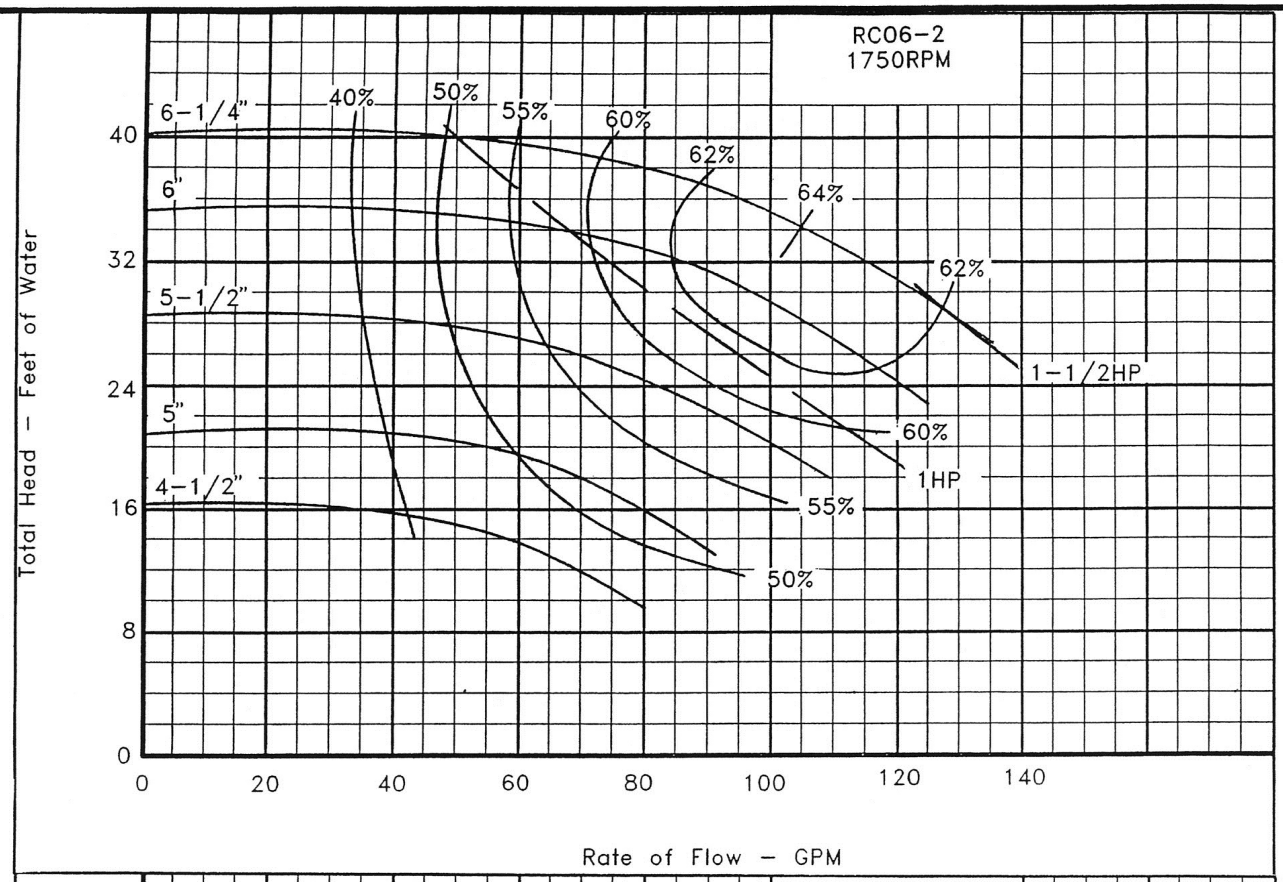
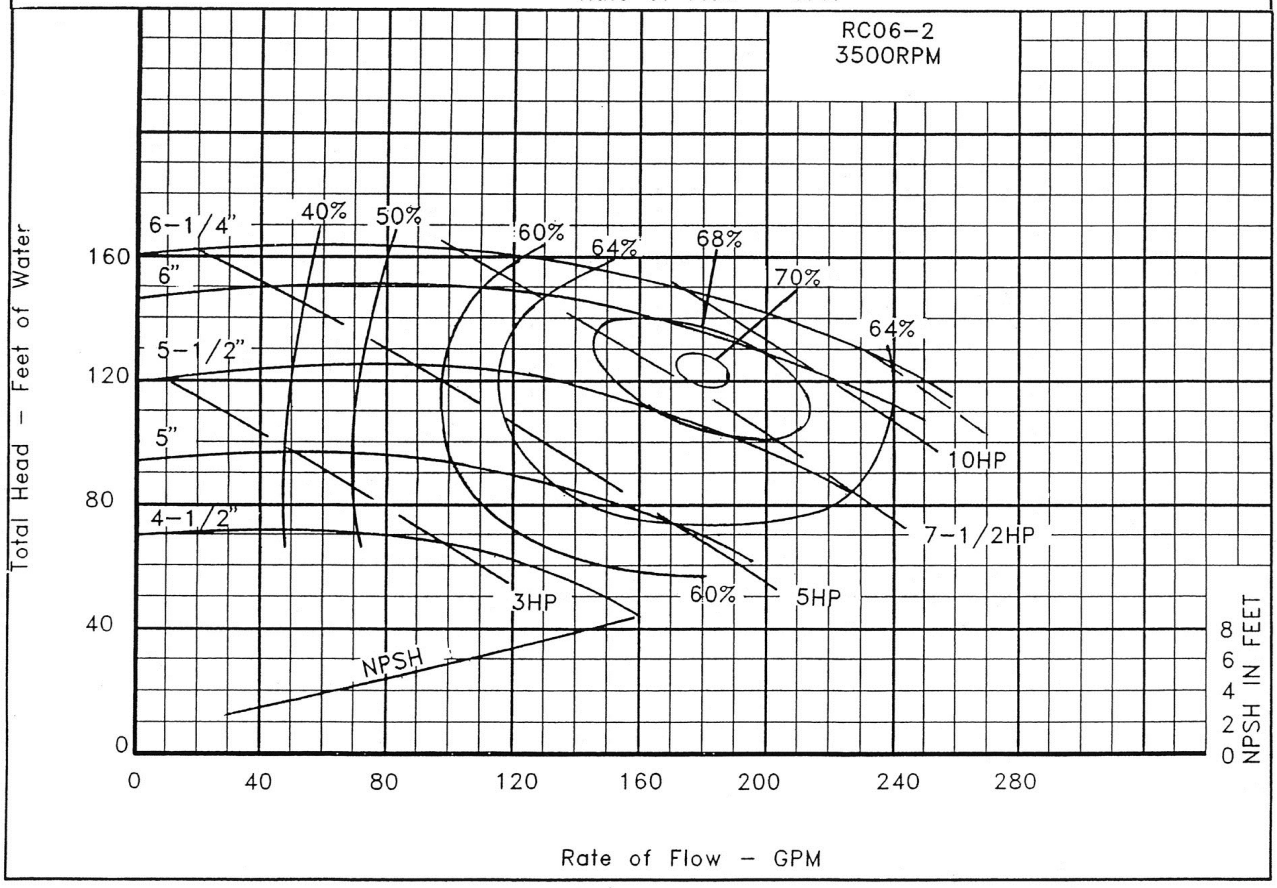
SELECTION CURVES





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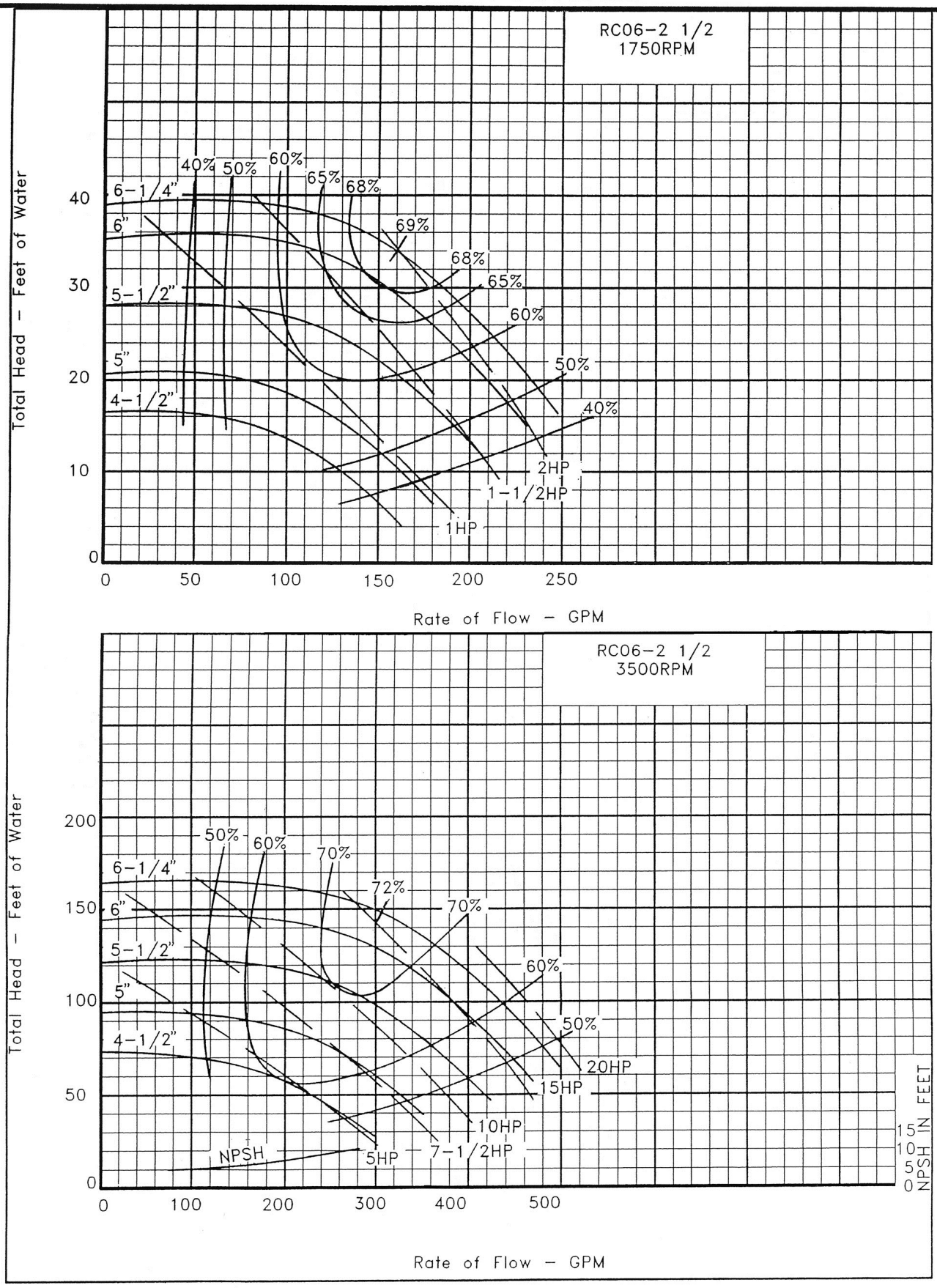

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TYPICAL SPECIFICATIONS

- Furnish and install pumps with capacities as shown on plans. Pumps shall be MEPCO close coupled, single-stage, vertically-split case design, capable of being serviced without disturbing piping connections. Pump volute shall be Class 30 cast iron, and impeller shall be enclosed type, dynamically balanced.
- Seal shaft shall be of rotary type and suitable for water temperatures up to 250 degrees Fahrenheit.
- Pumps shall be rated for minimum of 175 PSI working pressure. Casings shall have vent and drain ports at top and bottom 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 sealed ball bearings, completely adequte for the maximum load for which the motor is designed. Each pump shall be factory tested. It shall then be thoroughly cleaned and painted with at least one coat of high-grade lacquer prior to shipment.
- 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 pressure, voltage and amperage draw. This data shall be noted on a permanent tag or label and fastened to pump for owner's reference. Pumps shall be Series RC06 as manufactured by MEPCO

MEPCO

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