



PUMP SECTION

Centrifugal Pumps, Type RP07 - InLine



**Inline Service Pumps
Flows to 450 GPM, 110 PSI**

FEATURES

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

Pump casing has center line inlet and outlet flanges. The back pullout design eliminates the need to disturb piping during servicing. Materials of construction are class 30 cast iron.

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

The mechanical seal is constructed of Buna N and is 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.

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.

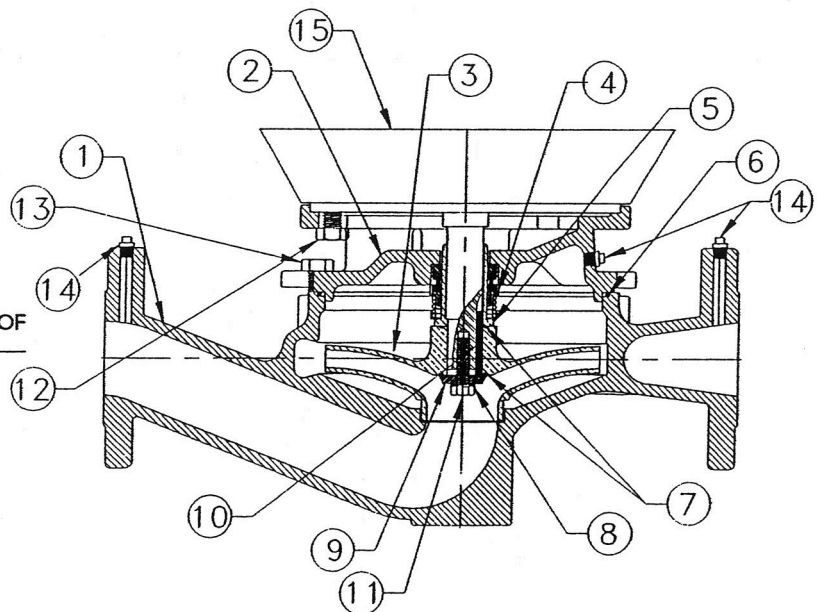
MAXIMUM OPERATING CONDITIONS

Based on std. construction & pumping clear water

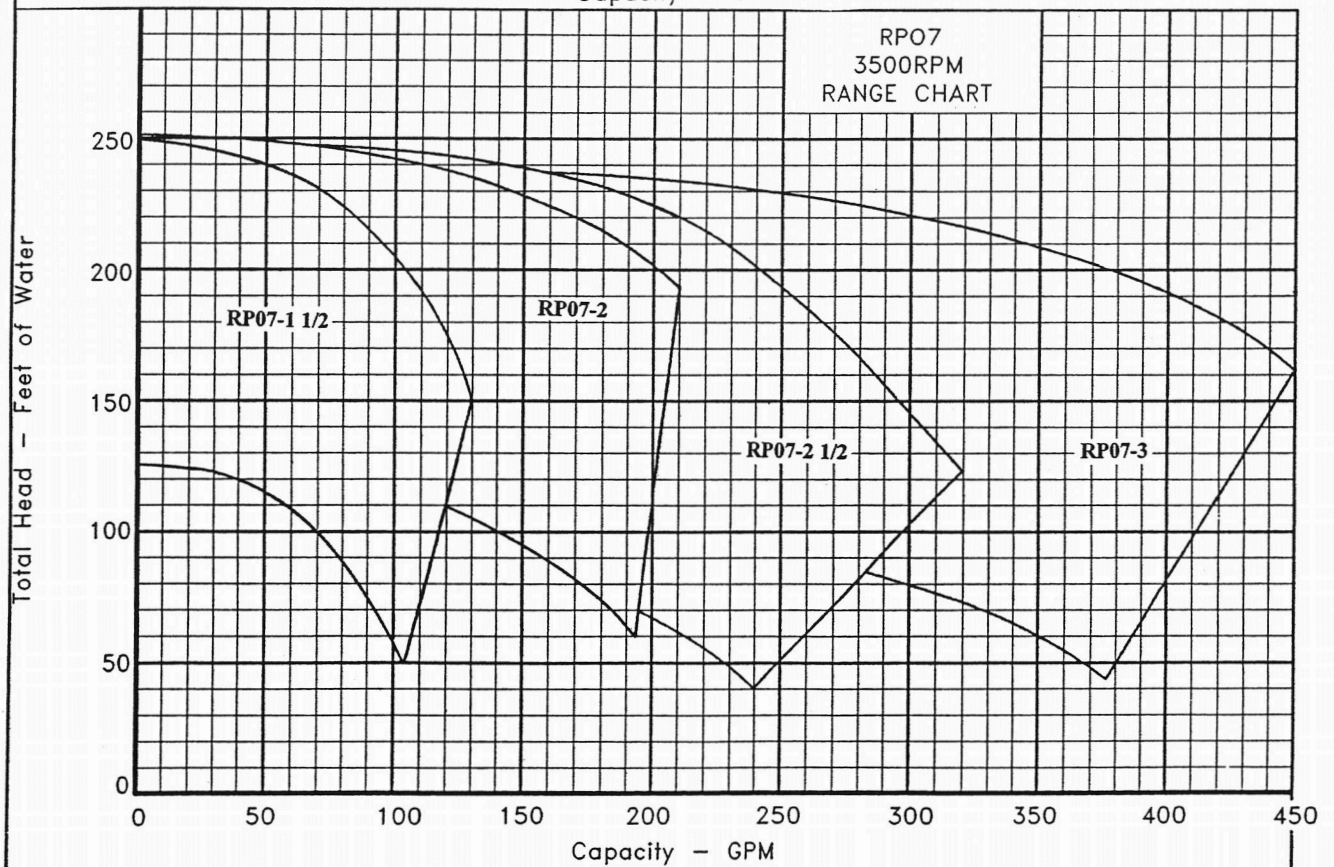
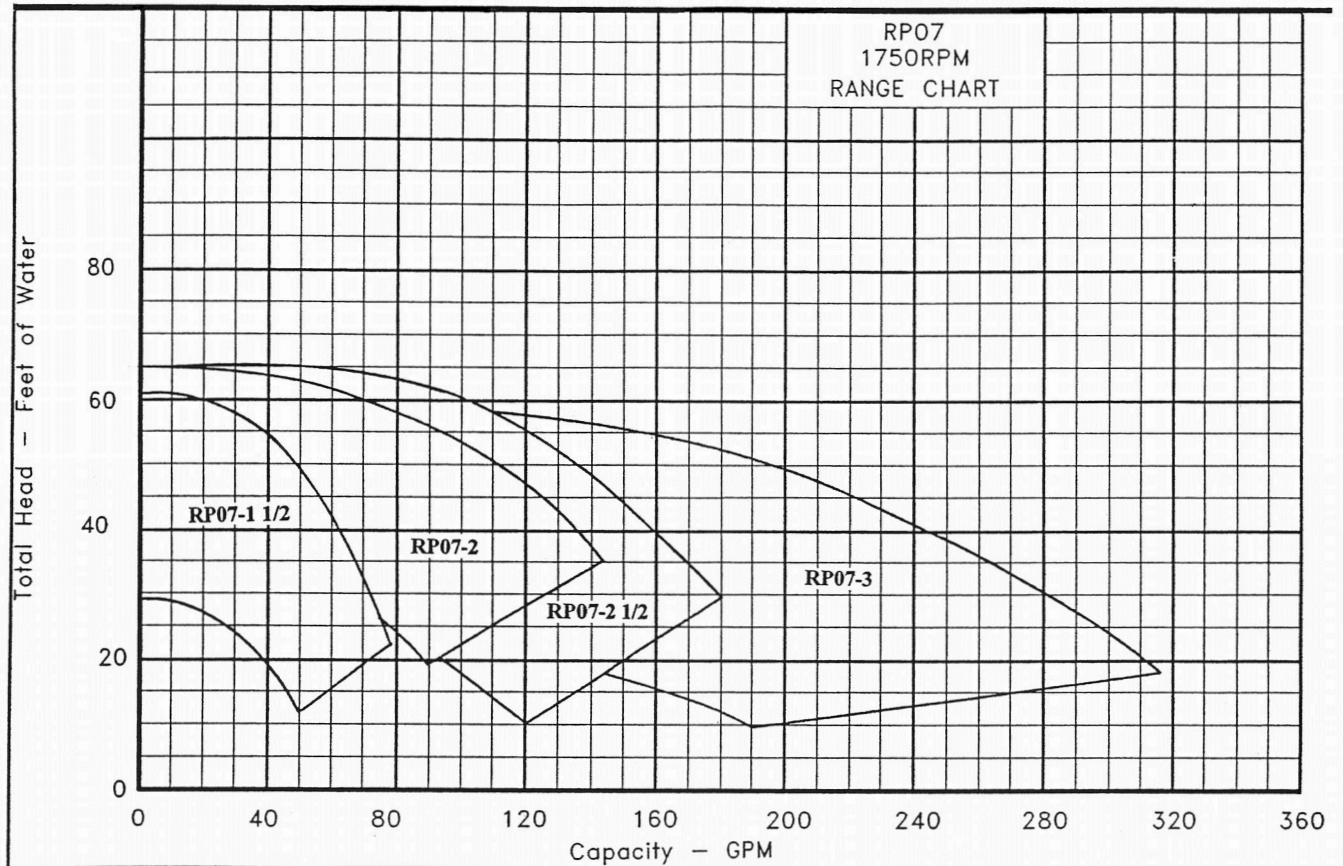
RPM -	1750, 3500
HORSEPOWER -	25
STD. SEAL TEMP. -	250°F
OPT. SEAL TEMP. -	300°F = EPT, 400°F = VITON
FLANGES -	150 LB.
MAX. WORKING PRESS -	175 PSI
HYDROSTATIC TEST PRESSURE -	265 PSI

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

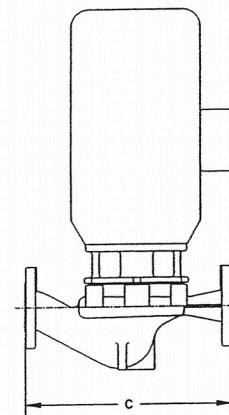


RANGE CHARTS

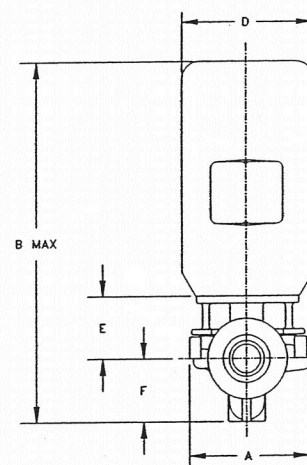


DIMENSIONS

PUMP	MOTOR FRAME SIZE	DISC. & SUCT.	DIMENSIONS IN INCHES					
			A	B	C	D	E	F
RP07 15	143JM	1 1/2	10 1/4	24 7/16	14 5/8	6 5/8	3 3/4	4 7/8
	145JM			27 7/8		7 7/8	3 3/4	
	182JM			27 1/2		9 9/16	4	
	184JM							
	213JM							
	215JM							
RP07 20	143JM	2	10 5/16	24 1/4	17 5/16	6 5/8	4	4 9/16
	145JM			27 3/4		7 7/8	4	
	182JM			27 5/16		9 9/16	4 3/16	
	184JM							
	213JM							
	215JM							
	254JM			29 15/16		11 1/2	5 1/4	



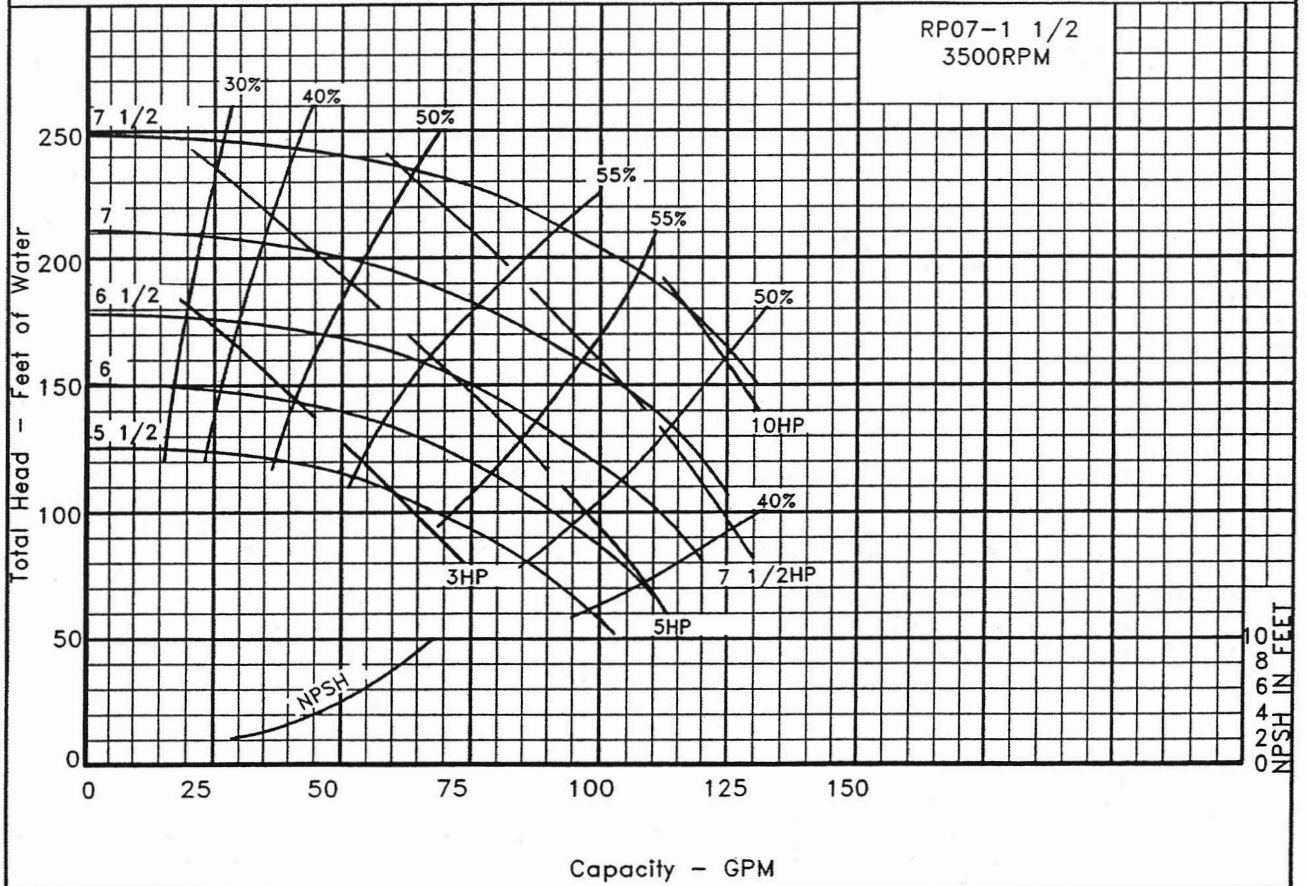
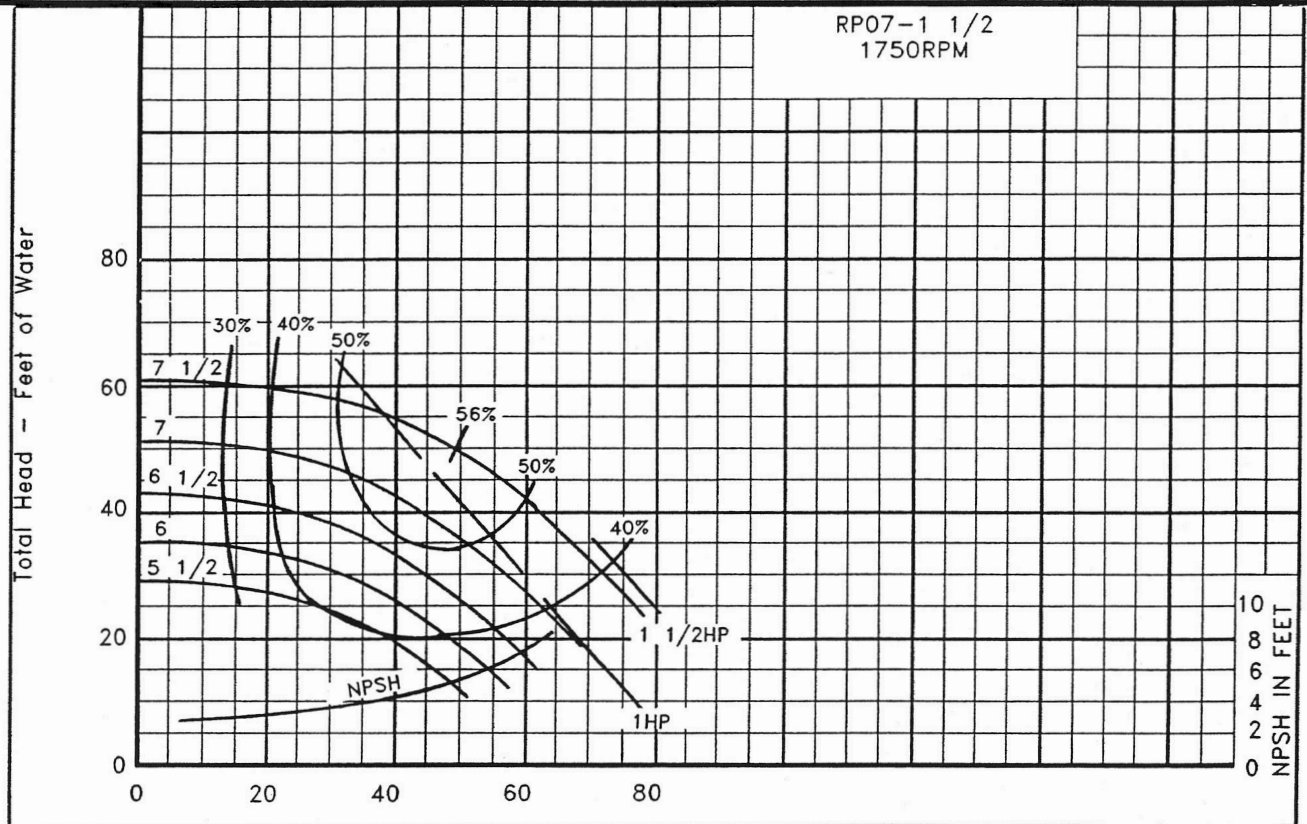
PUMP	MOTOR FRAME SIZE	DISC. & SUCT.	DIMENSIONS IN INCHES					
			A	B	C	D	E	F
RP07 25	143JM	2 1/2	10 9/16	25 1/4	18 1/2	6 5/8	4 1/8	5 7/16
	145JM			28 3/4		7 7/8	4 1/8	
	182JM			28 5/16		9 9/16	4 5/16	
	184JM							
	213JM							
	215JM							
	254JM			31		11 1/2	5 7/16	
	256JM							
RP07 30	143JM	3	10 3/4	26	19 5/8	6 5/8	4 1/4	6 1/16
	145JM			29 1/2		7 7/8	4 1/4	
	182JM			29 1/16		9 9/16	4 7/16	
	184JM							
	213JM							
	215JM							
	254JM			31 3/4		11 1/2	5 9/16	
	256JM			33 13/16		13 1/4	5 9/16	
	284JM							



MOTOR DATA

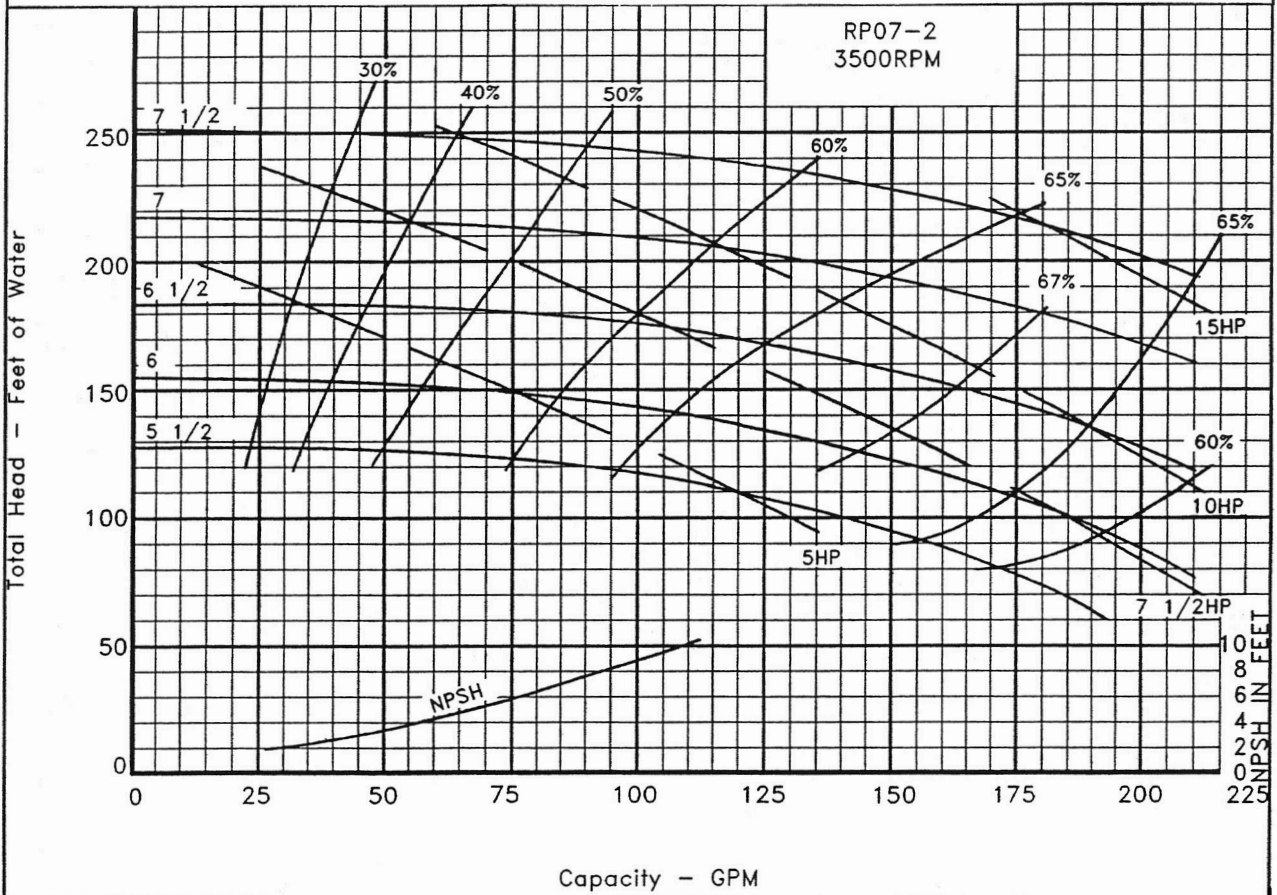
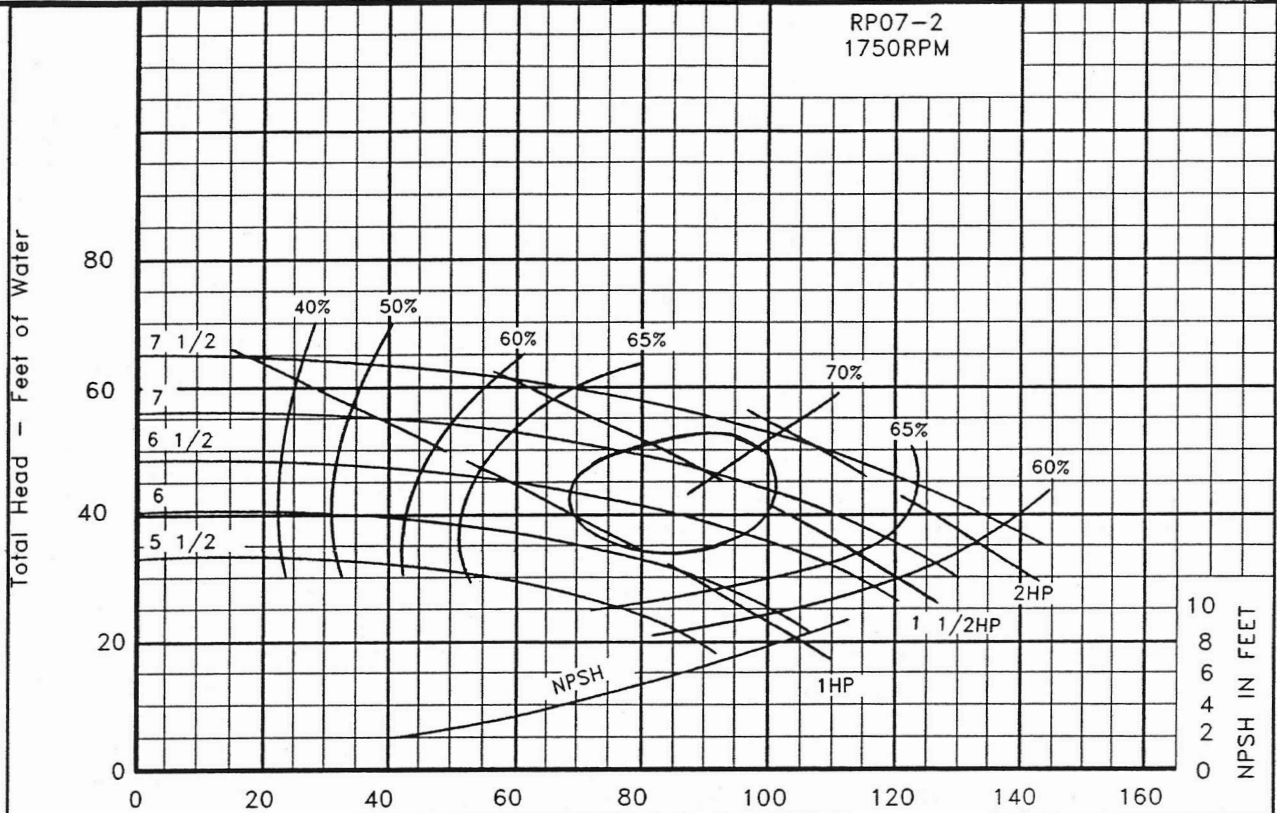
FRAME	ODP - HP				TEFC - HP			
	1750 RPM 1Ø	1750 RPM 3Ø	3450 RPM 1Ø	3450 RPM 3Ø	1750 RPM 1Ø	1750 RPM 3Ø	3450 RPM 1Ø	3450 RPM 3Ø
143JM	1	1	1-1/2	1-1/2	1	1	1-1/2	1-1/2
145JM	1-1/2	1-1/2, 2	2	2, 3	1-1/2	1-1/2, 2	2	2, 3
182JM	2	3	3	5	2	3	3	
184JM		5	5	7-1/2		5	5	5
213JM		7-1/2		10		7-1/2		7-1/2
215JM		10		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



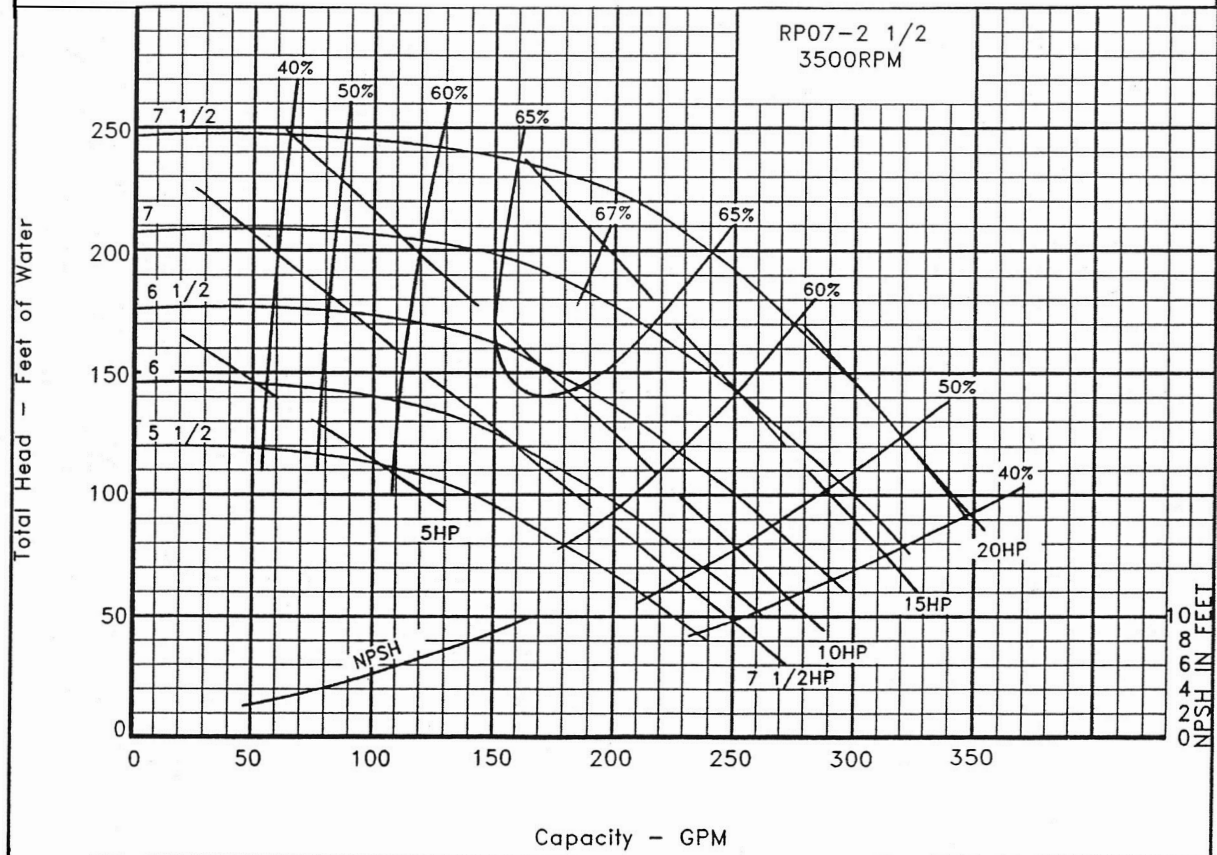
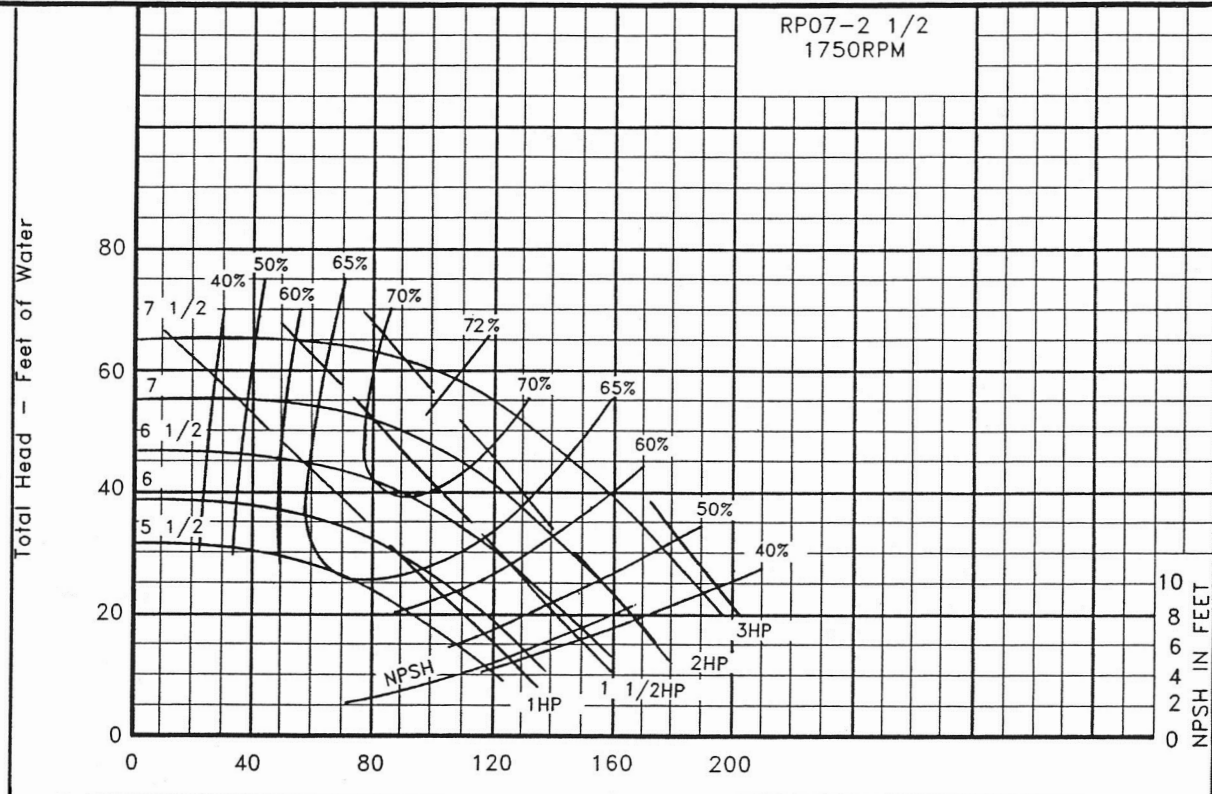
NOTE 1) Computerized pump selection program available, Pump Flo™

SELECTION CURVES



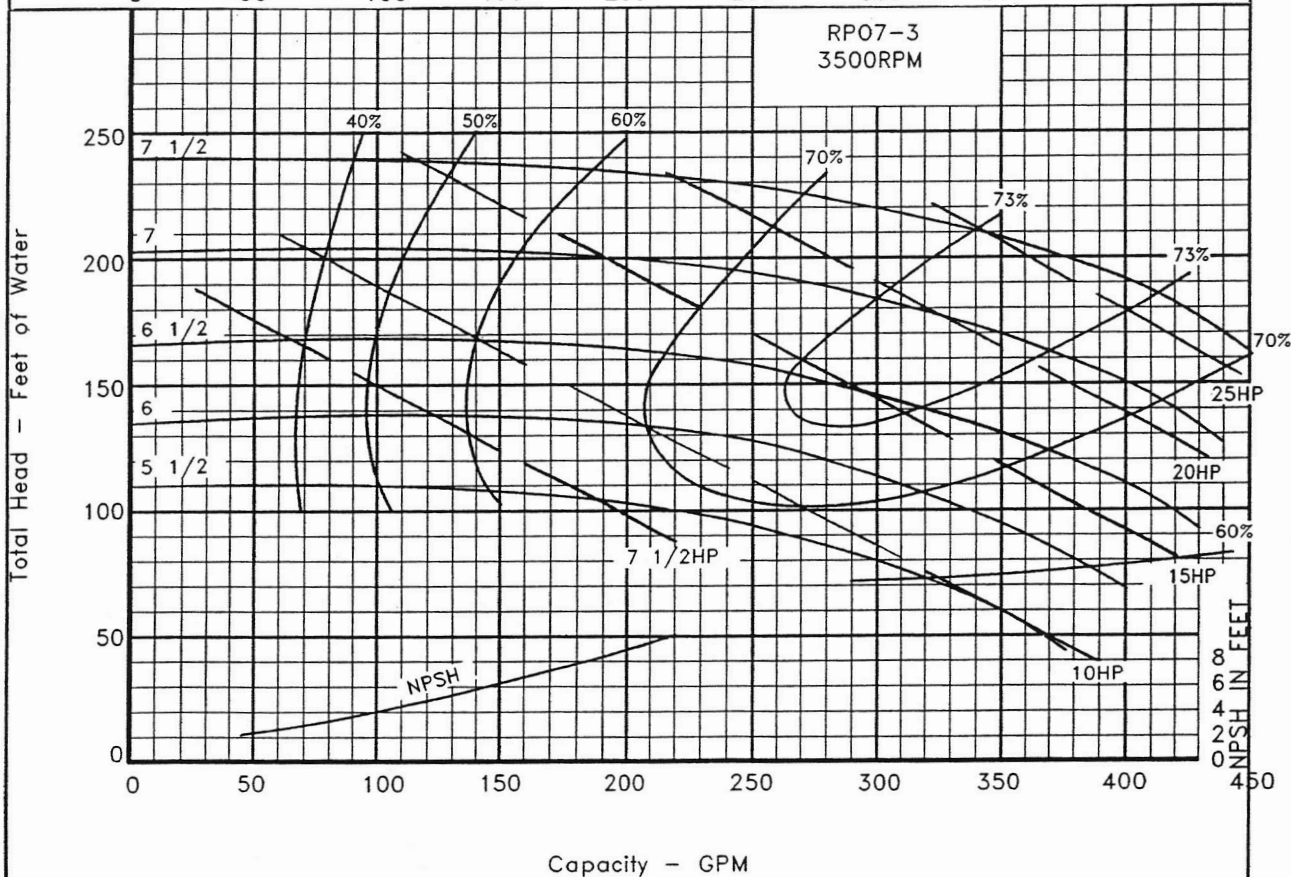
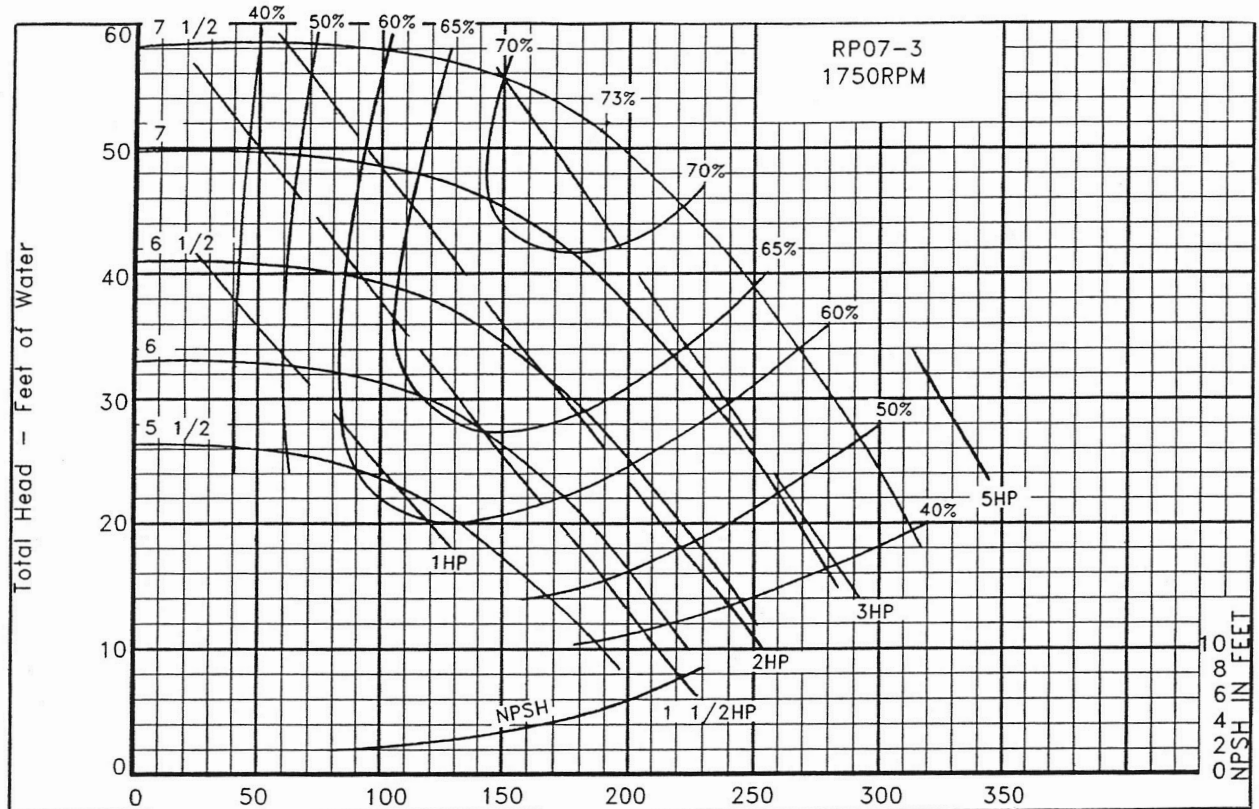
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SELECTION CURVES



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TYPICAL SPECIFICATIONS

- Furnish and install pump(s) with capacities and characteristics as shown on plans. Pumps shall be MEPCO close coupled, single-stage, inline, capable of being serviced without disturbing piping.
- Seal Shaft shall be of rotary type and suitable of 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 of 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.



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