PUMP SECTION

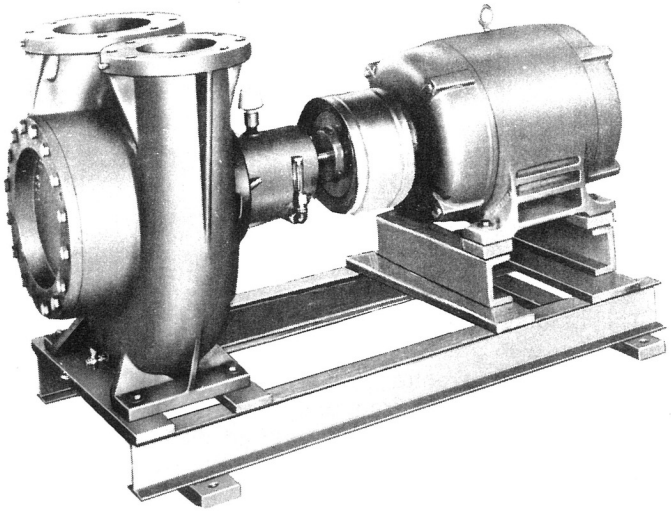
Centrifugal Pumps, Type FB11

APPLICATION

The MEPCO type FB11 pumps are of the double suction, double volute type for horizontal mounting. A flexible coupling is used to connect the motor to the centrifugal pump and all are mounted on a common base.

The FB series pumps are most commonly applied for water circulation to be used for heating or air conditioning. The particular quietness of these pumps makes them most suitable for handling hot and chilled water for hydronic systems. When radiation, fan coil units or piping is in the occupied space, noise level is of paramount importance. These pumps because of their wide range and fexibility are very successfully applied to industrial pumping applications as well as for cooling tower, water supply, and domestic water systems.

This line of pumps have very low net positive suction head requirements which makes them particularly suitable for condenser water applications or applications



where net positive suction head available may be limited.

The FB Series pumps have capacities up to 2600 GPM with heads to 140 feet. Pumps are furnished through 75 HP at 1750 RPM and 20 HP at 1150 RPM.

Construction Features

BEARING BRACKETS - Shaft is a high grade alloy steel for highest yield and tensile strength, precision turned, ground and polished. The ball bearing assembly employs precision over-size bearings front and back to handle thrust and radial loads. These bearings are of the oil lubricated type and incorporate the use of a demister to prevent loss of oil. The bearing assembly can be removed for servicing without disturbing the piping.

CASES - The case is of the double-volute design, accomplishing two functions: First; radial impeller loads are reduced, for smaller bearing loads, and less power loss, Second; higher pump efficiencies are obtained over a greater range of flow.

COUPLING - Rugged in construction, longer bearing motor and pump life as well as smooth noiseless operation of both motor and pump are assured. Simple in design and easily installed the couplings are unaffected by, abrasives, dirt or moisture. There is no need for lubrication or maintenance. The non-metallic sleeve acts as a barrier insulating the motor from the pump. Coupling Guards are supplied as standard equipment.

MOTORS - Only the highest quality name brand motors specially selected for quietness are used on the FB Series pumps. Ball bearing motors are standard. Motors are 1750 RPM or 1150 RPM, 3 phase and are 230/460 volt. ATL-2 step part wind on 230 volt only. The motors are sized so that the maximum brake HP output required is in all cases less than that allowed by the motor manufacturer's warranty.

BASE - The pump base is constructed of structural steel "I" beams with cross members of welded bar stock. These base assemblies are supplied with integral feet for ease of installation and leveling on a foundation. The free area beneath the motor and pump assembly eliminates the sound box effect of solid bases and allows for neater installation and facilitates cleaning in the pump area.

CONSTRUCTION FEATURES (Cont.)

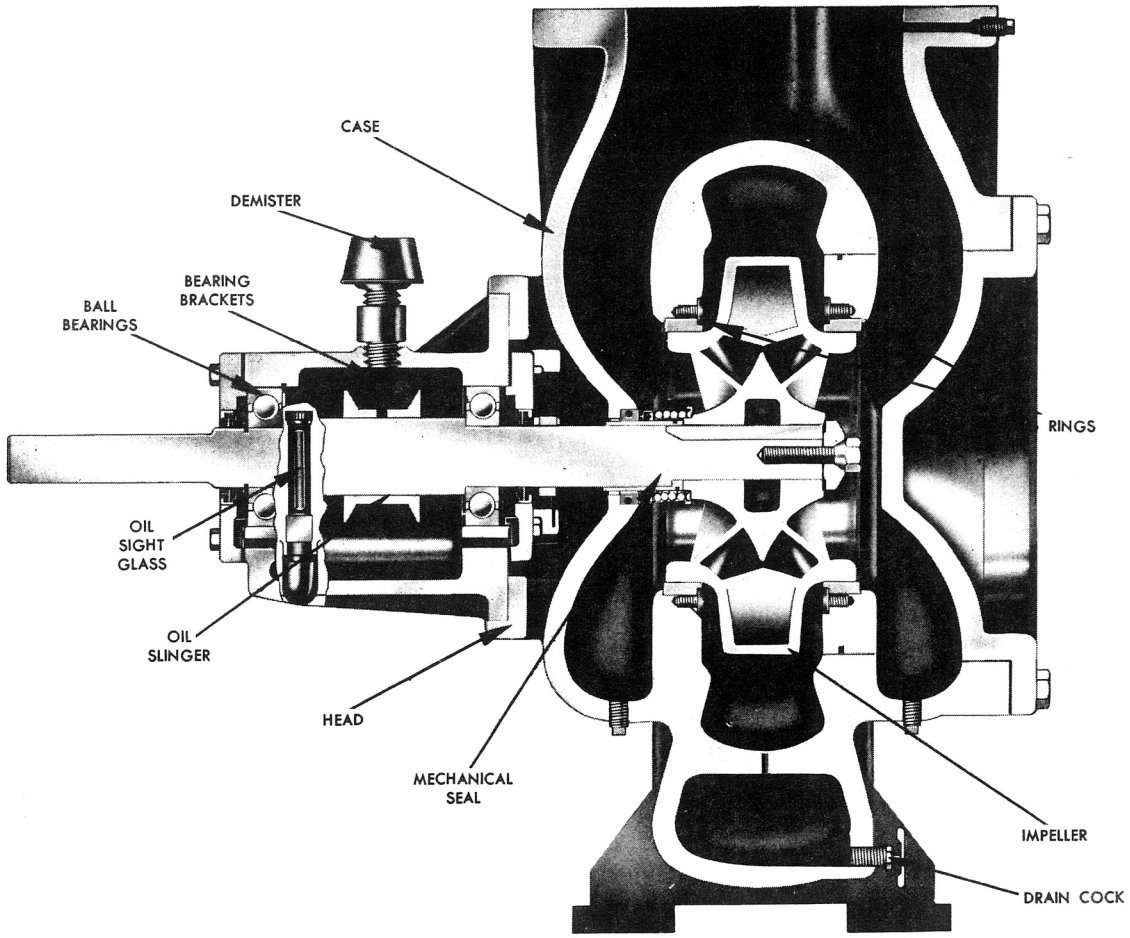
Suction and discharge connections are located on the top of the case, which results in additional space savings and ease of piping.

MECHANICAL SEAL — The mechanical seals used in the F Series pumps are specially selected and as applied to these pumps are suitable for water temperatures to 250°. The carbon rotating member and ni-resist stationary member with precision lapped surfaces insure long life and positive prevention of leakage.

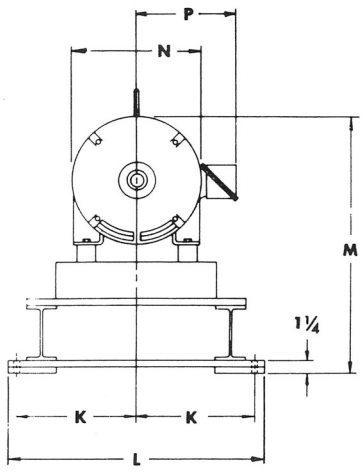
Access plate in the front of the case readily allows seal replacement when required, without disturbing piping, bearing assembly, coupling or motor.

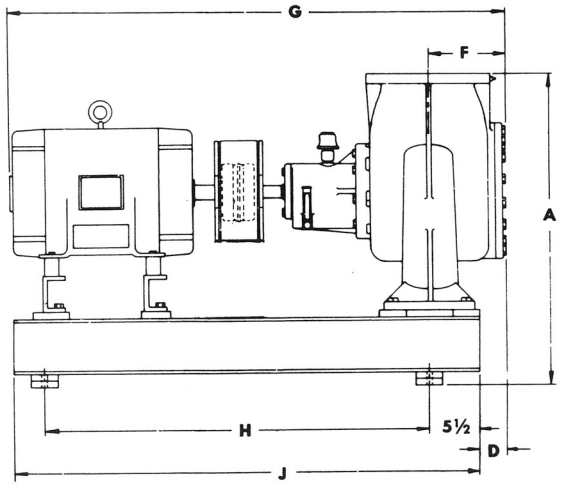
IMPELLERS — Bronze impellers of enclosed double suction type are machined all over for greatest efficiency. These impellers are hydraulically balanced to assure minimum thrust.

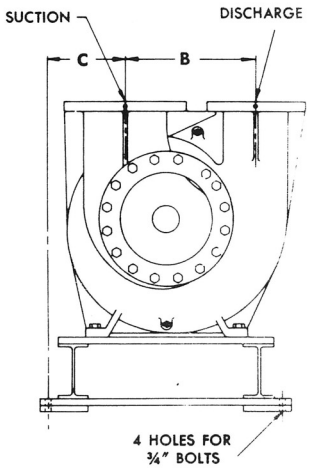
WEARING RINGS — Bronze wearing rings are supplied as standard for both the case and head. These rings are replaceable and prevent costly wear to both the case and head.



DIMENSIONAL DATA







3 PHASE 60 HERTZ MOTORS 1750 RPM

MODEL	DIS.	SUC.	A	B	C	D	F	G	H	J	K	L	M	N	P	SHIP-PING WT. LBS.
10HP 6" FB 11-1/2	6	8	31-7/8	14-1/2	8	3	8-1/2	46-5/8	42	51	12-1/2	27	24-1/8	10-5/8	8-5/8	1040
15HP 6" FB 11-1/2	6	8	31-7/8	14-1/2	8	3	8-1/2	49-7/8	42	51	12-1/2	27	25-1/8	12-1/2	9-5/8	1080
20HP 6" FB 11-1/2	6	8	31-7/8	14-1/2	8	3	8-1/2	51-5/8	42	51	12-1/2	27	25-1/8	12-1/2	9-5/8	1110
25HP 6" FB 11-1/2	6	8	31-7/8	14-1/2	8	3	8-1/2	51-3/8	42	51	12-1/2	27	25-7/8	14	11-1/8	1260
30HP 6" FB 11-1/2	6	8	31-7/8	14-1/2	8	3	8-1/2	52-7/8	42	51	12-1/2	27	25-7/8	14	11-1/8	1300
40HP 6" FB 11-1/2	6	8	31-7/8	14-1/2	8	3	8-1/2	53-7/8	42	51	12-1/2	27	26-7/8	16	13-11/16	1395
50HP 6" FB 11-1/2	6	8	31-7/8	14-1/2	8	3	8-1/2	55-3/8	42	51	12-1/2	27	26-7/8	16	13-11/16	1440
60HP 6" FB 11-1/2	6	8	32-7/8	14-1/2	8	3	8-1/2	57-1/2	42	56-3/4	12-1/2	27	27-7/8	18	16-1/16	1700
75HP 6" FB 11-1/2	6	8	32-7/8	14-1/2	8	3	8-1/2	58-1/2	42	56-3/4	12-1/2	27	27-7/8	18	16-1/16	1890

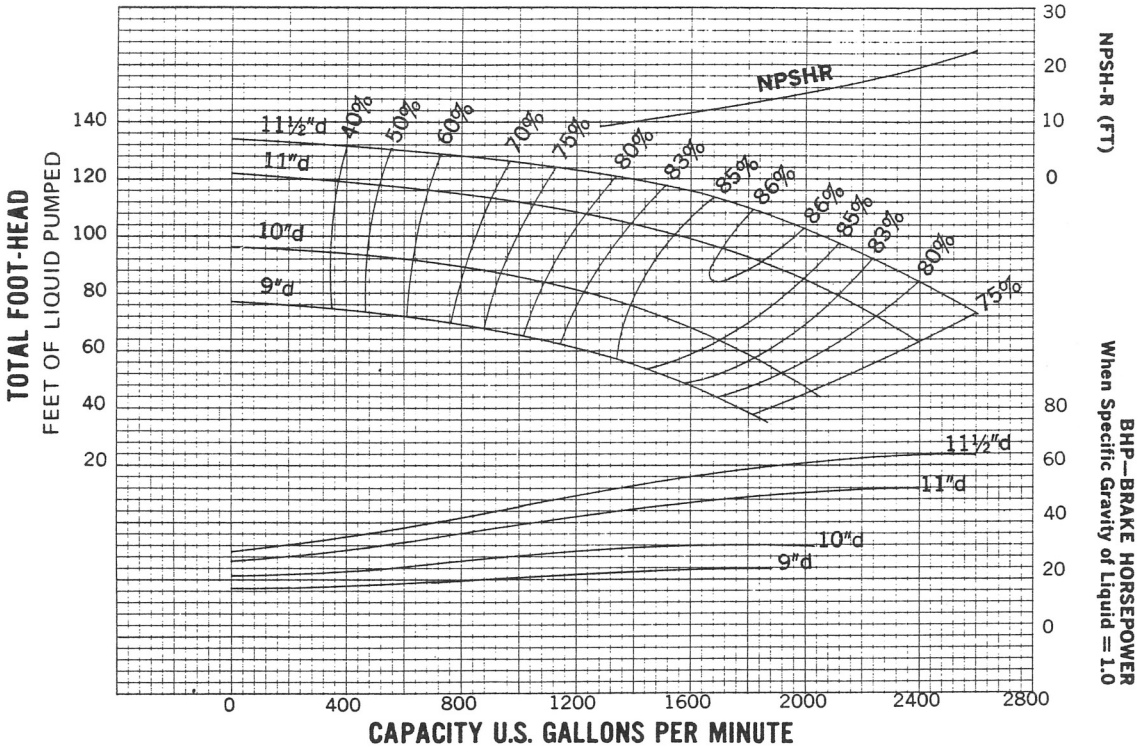
3 PHASE 60 HERTZ MOTORS 1150 RPM

MODEL	DIS.	SUC.	A	B	C	D	F	G	H	J	K	L	M	N	P	SHIP-PING WT. LBS.
10HP 6" FB 11-1/2	6	8	31-7/8	14-1/2	8	3	8-1/2	51-5/8	42	51	12-1/2	27	25-1/8	12-1/2	9-5/8	1210
15HP 6" FB 11-1/2	6	8	31-7/8	14-1/2	8	3	8-1/2	51-3/8	42	51	12-1/2	27	25-7/8	14	11-1/8	1255
20HP 6" FB 11-1/2	6	8	31-7/8	14-1/2	8	3	8-1/2	52-7/8	42	51	12-1/2	27	25-7/8	14	11-1/8	1300

TYPICAL SPECIFICATIONS

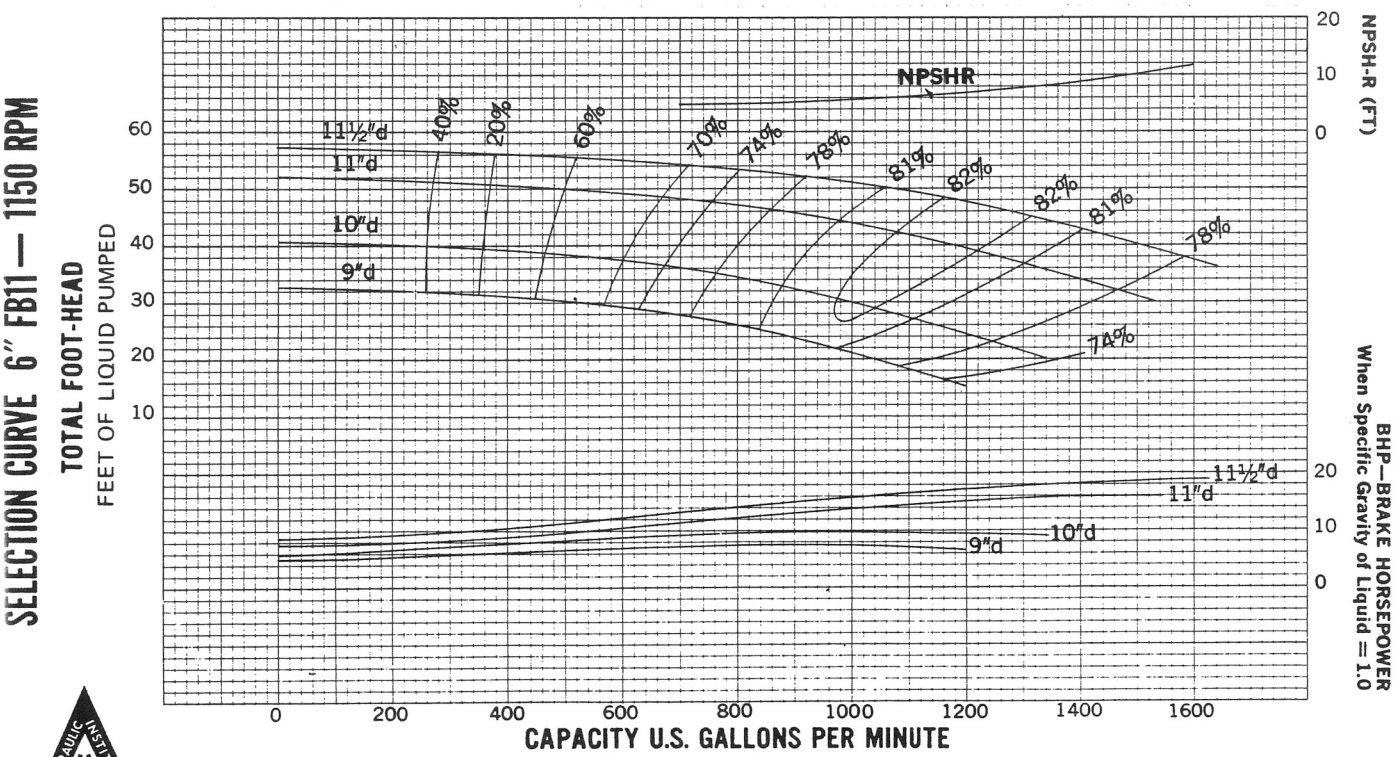
Furnish and install where shown on plans, M E P CO type (6") six inch model **FB11** centrifugal pump or approved equal. Pump shall be equipped with a _____ HP _____ volt 60 cycle _____ RPM motor. The pump shall have a minimum capacity of _____ GPM against a total head of _____ feet. The case shall be cast iron of the double volute type. Vertically split with 8" flanged inlet and 6" flanged discharge and shall be suitable for 175 psi working pressure. The impellers shall be bronze, dynamically balanced of the enclosed double suction type. Seal shall be of the rotary type and suitable for water temperature up to 250°. The motors shall be of the (ball bearing) type specially selected for quietness and shall be connected to pump through flexible coupling. The bearing bracket shall be removable for servicing without disturbing the piping and shall have a steel shaft with navy 'M' bronze sleeve in the wetted area. Bearings shall be oversize precision ball bearing. Bearings are oil lubricated and incorporate the use of a demister to prevent oil loss. The base shall be constructed from structural steel 'I' beams with welded cross members and integral feet for low noise level and sound transmission.

SELECTION CURVE 6" FB11 — 1750 RPM



Above data based on pump handling 85° clear water RPM: 1750 Imp. Dia: As Shown

SELECTION CURVE 6" FB11 — 1150 RPM



Above data based on pump handling 85° clear water RPM: 1150 Imp. Dia: As Shown

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