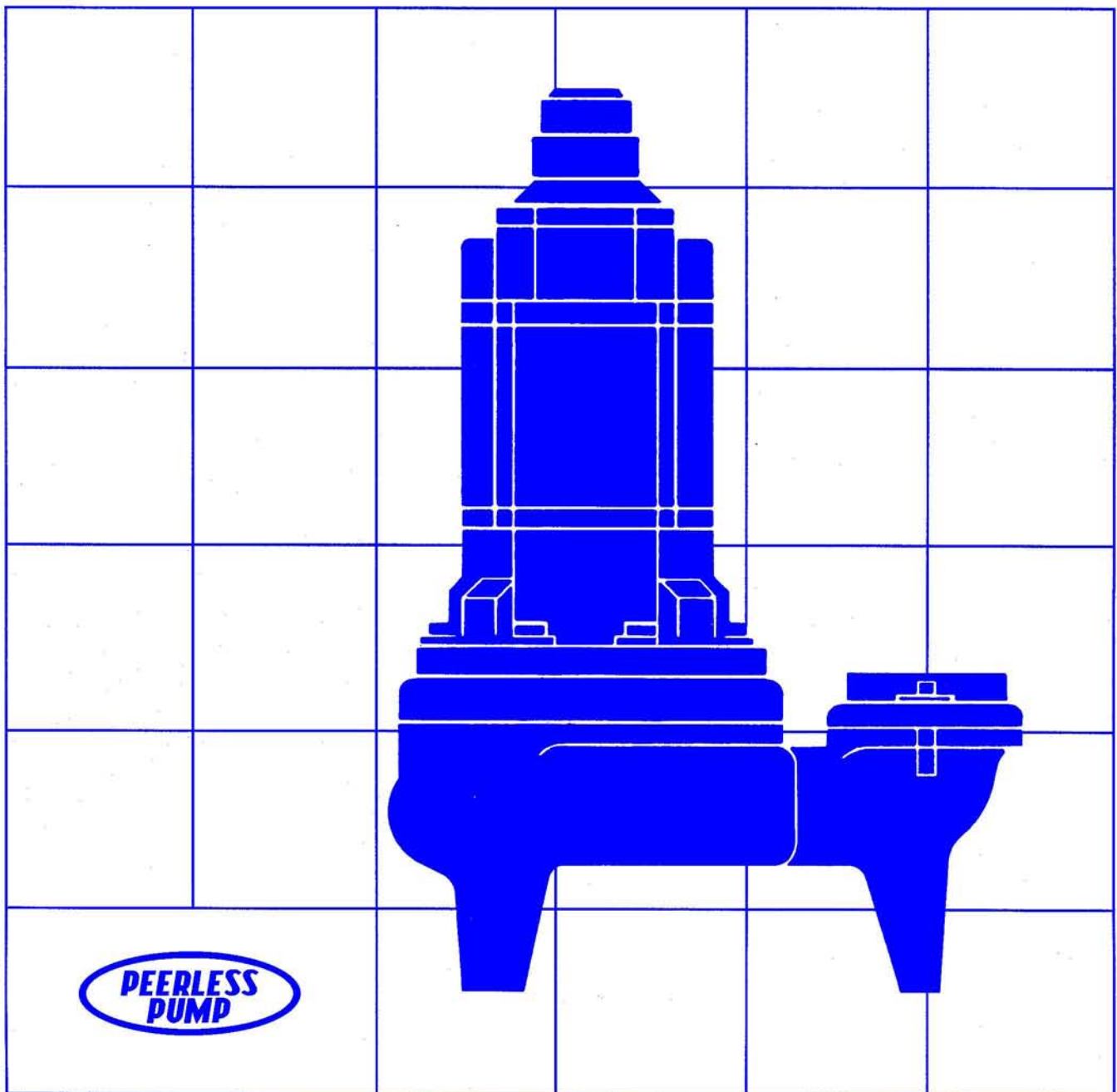


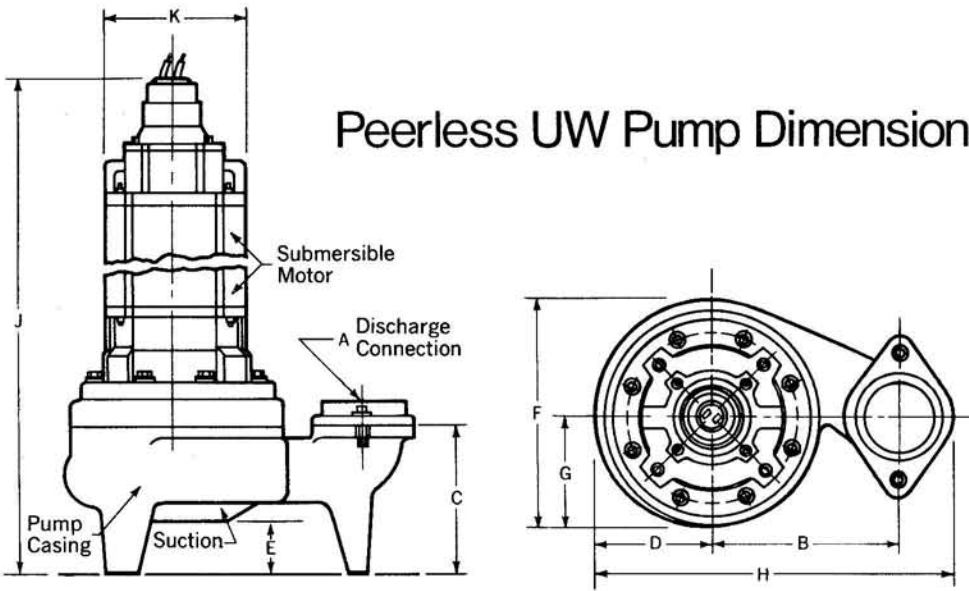
# Peerless Pump Company

## HEAVY-DUTY IMMERSIBLE NON-CLOG SEWAGE & SUMP PUMP

Type UW



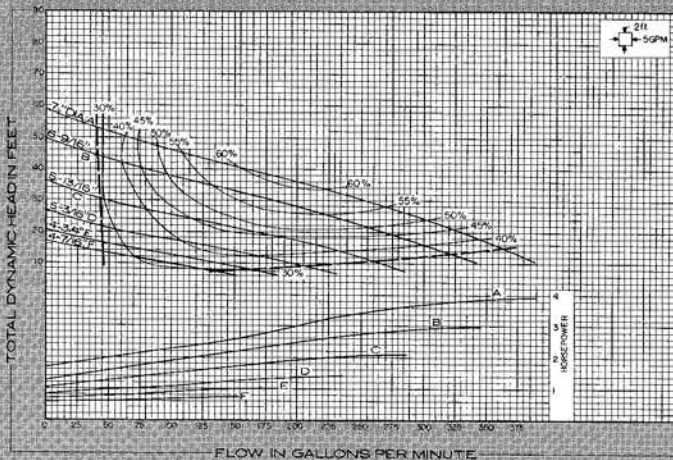
# Peerless UW Pump Dimensions



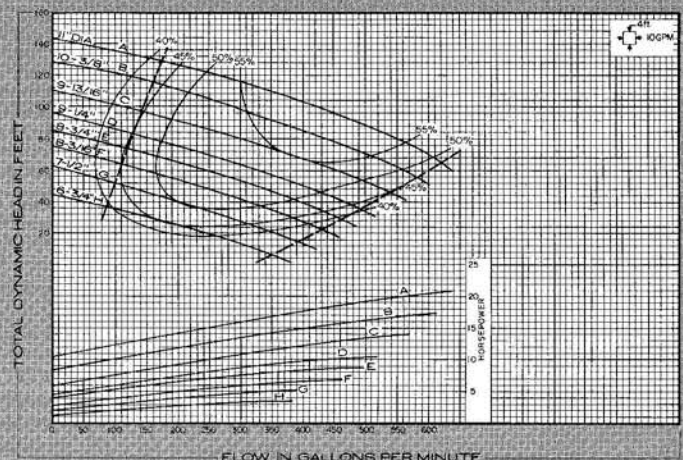
## Peerless UW Selection Curves

1750 RPM

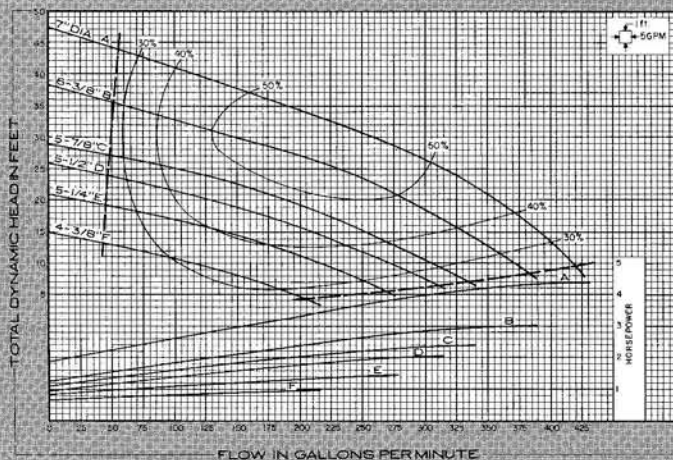
NON-CLOG PUMP CURVES



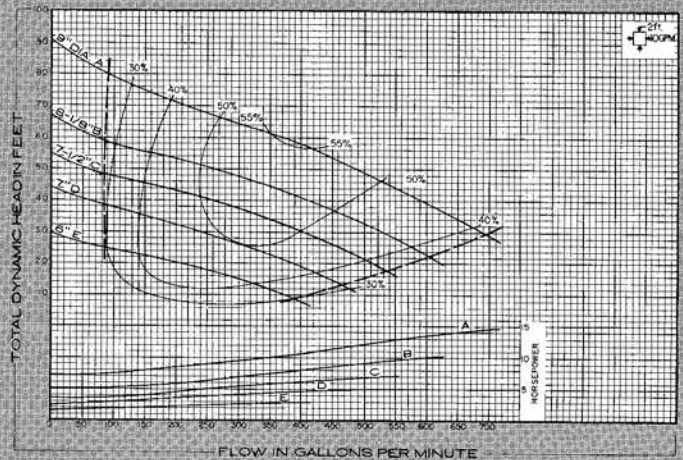
Model NSB3 and NSBC4—3" and 4" Discharge—2" Sphere



Model LLB3 and LLBC4—3" and 4" Discharge—2" Sphere



Model LMB3 and LMBC4—3" and 4" Discharge—2 1/2" Sphere



Model LMB4—4" Discharge—3" Sphere

**NOTE:** The recommended application range of these pumps is shown inside of heavy lines.  
 "All ratings based on liquid temperature not exceeding 100°F."

**TABLE OF DIMENSIONS**

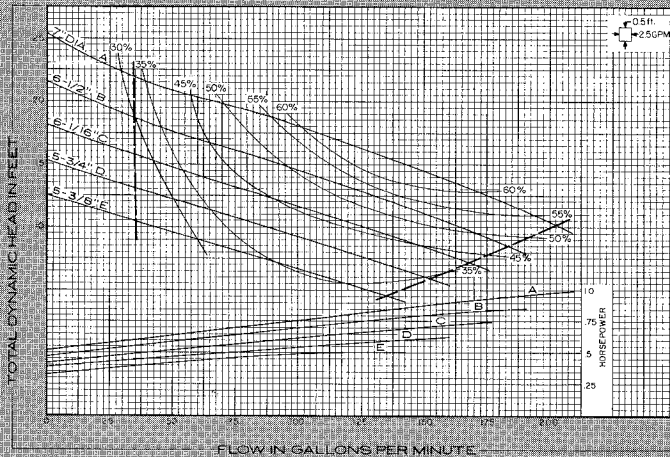
PUMP FRAME	A	B	C	D	E	F	G	H	J	K	MOTOR FRAME
UWNSB-3	3	10 <sup>3</sup> / <sub>4</sub>	6 <sup>3</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>2</sub>	12 <sup>1</sup> / <sub>8</sub>	6 <sup>3</sup> / <sub>8</sub>	19	32 <sup>1</sup> / <sub>8</sub>	8	140TY
									32 <sup>5</sup> / <sub>8</sub>	9 <sup>5</sup> / <sub>8</sub>	180TY
UWNSBC-4*	4	10 <sup>3</sup> / <sub>4</sub>	6 <sup>3</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>2</sub>	12 <sup>1</sup> / <sub>8</sub>	6 <sup>3</sup> / <sub>8</sub>	19	32 <sup>1</sup> / <sub>8</sub>	8	140TY
									32 <sup>5</sup> / <sub>8</sub>	9 <sup>5</sup> / <sub>8</sub>	180TY
UWLMB-3	3	10 <sup>3</sup> / <sub>4</sub>	8	6 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	13 <sup>3</sup> / <sub>4</sub>	6 <sup>5</sup> / <sub>8</sub>	20	33 <sup>1</sup> / <sub>4</sub>	8	140TY
									33 <sup>7</sup> / <sub>8</sub>	9 <sup>5</sup> / <sub>8</sub>	180TY
UWLMB-4*	4	10 <sup>3</sup> / <sub>4</sub>	8	6 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	13 <sup>3</sup> / <sub>4</sub>	6 <sup>5</sup> / <sub>8</sub>	20	33 <sup>1</sup> / <sub>4</sub>	8	140TY
									33 <sup>7</sup> / <sub>8</sub>	9 <sup>5</sup> / <sub>8</sub>	180TY
UWLLB-3	3	12	8 <sup>1</sup> / <sub>2</sub>	7 <sup>1</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>2</sub>	16	7 <sup>3</sup> / <sub>4</sub>	22 <sup>3</sup> / <sub>4</sub>	33 <sup>5</sup> / <sub>8</sub>	8	140TY
									34 <sup>1</sup> / <sub>8</sub>	9 <sup>5</sup> / <sub>8</sub>	180TY
									39	11 <sup>1</sup> / <sub>2</sub>	210TY
									40 <sup>1</sup> / <sub>2</sub>	12 <sup>3</sup> / <sub>4</sub>	250TY
UWLLBC-4*	4	12	8 <sup>1</sup> / <sub>2</sub>	7 <sup>1</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>2</sub>	16	7 <sup>3</sup> / <sub>4</sub>	22 <sup>3</sup> / <sub>4</sub>	33 <sup>5</sup> / <sub>8</sub>	8	140TY
									34 <sup>1</sup> / <sub>8</sub>	9 <sup>5</sup> / <sub>8</sub>	180TY
									39	11 <sup>1</sup> / <sub>2</sub>	210TY
									40 <sup>1</sup> / <sub>2</sub>	12 <sup>3</sup> / <sub>4</sub>	250TY
UWLMB-4*	4	12	10 <sup>1</sup> / <sub>16</sub>	8	3 <sup>1</sup> / <sub>2</sub>	16 <sup>1</sup> / <sub>2</sub>	8 <sup>3</sup> / <sub>4</sub>	23	35 <sup>1</sup> / <sub>8</sub>	8	140TY
									35 <sup>5</sup> / <sub>8</sub>	9 <sup>5</sup> / <sub>8</sub>	180TY
									40 <sup>1</sup> / <sub>2</sub>	11 <sup>1</sup> / <sub>2</sub>	210TY

MOTOR FRAME GUIDE		
HP	1750 RPM	1150 RPM
1/2	140TY	140TY
3/4	140TY 140TY	140TY 140TY
1	140TY 140TY	180TY 140TY
1 1/2	140TY 140TY	180TY 140TY
2	180TY 140TY	210TY 140TY
3	180TY 140TY	210TY 180TY
5	210TY 180TY	180TY
7 1/2	180TY	210TY
10	210TY	210TY
15	210TY	250TY
20	210TY	250TY
25	250TY	250TY

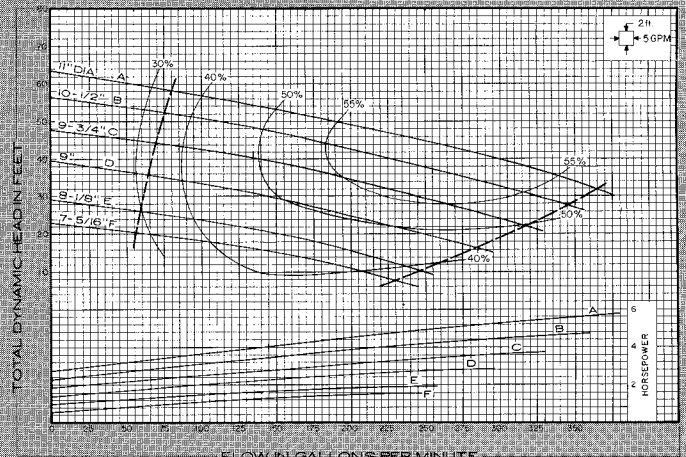
\*Available with Series P Flush Kleen® sewage disposal system

Shaded area indicates that both single and three phase motors are available. The top number is the single phase motor frame and the bottom number is the three phase motor frame.

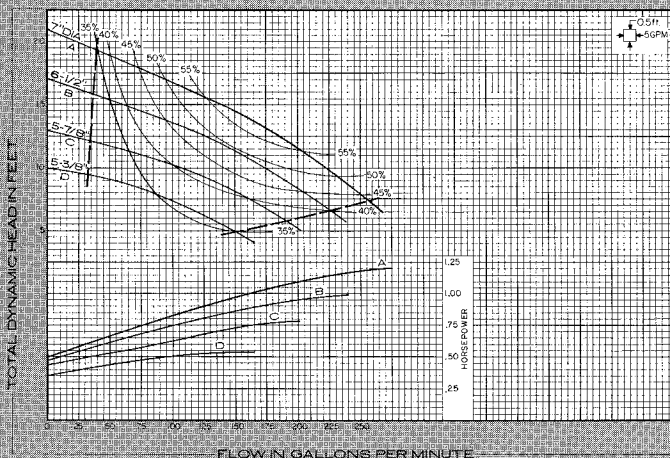
**1150 RPM  
NON-CLOG PUMP CURVES**



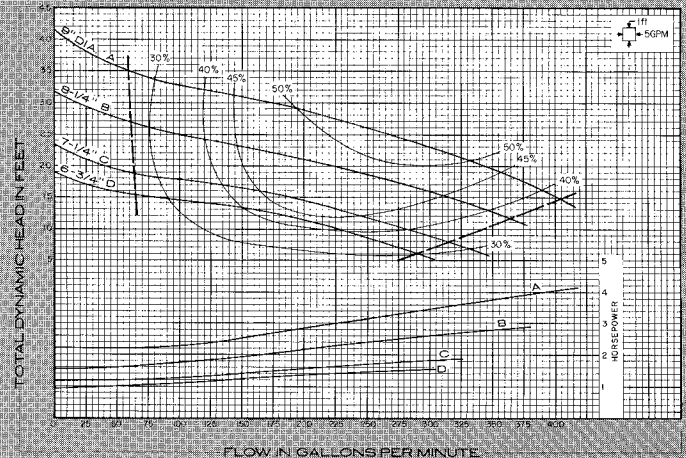
Model NSB3 and NSBC4—3" and 4" Discharge—2" Sphere



Model LLB3 and LLBC4—3" and 4" Discharge—2" Sphere



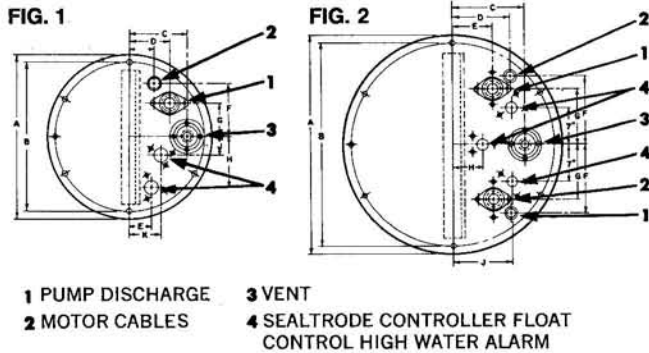
Model LMB3 and LMBC4—3" and 4" Discharge—2 1/2" Sphere



Model LMB4—4" Discharge—3" Sphere

**NOTE:** The recommended application range of these pumps is shown inside of heavy lines.  
"All ratings based on liquid temperature not exceeding 100°F."

# Peerless UW Basin Dimensions



Manhole furnished on covers for 48", 60" and 72" dia. basins. Covers for 42" dia. basins are made in two sections, with one section removable for access to basin.

FIG. 1, 30" & 36" RD. BASIN COVER

BASIN SIZE	A	B	C	D	E	F	G	H	J	K
30"	34"	32½"	13"	7"	3¼"	12½"	7"	11½"	4½"	7¾"
36"	40"	38½"	16"	9"	3⅝"	14½"	10"	13½"	6"	10⅜"

FIG. 2, 42", 48", 60" & 72" RD. BASIN COVER

BASIN SIZE	A	B	C	D	E	F	G	H	J
42"	46"	44½"	17½"	10½"	4"	16"	14"	5"	11"
48"	53"	51"	19½"	19½"	5"	10"	12"	10"	13"
60"	66"	63"	21"	21"	5"	12"	12"	10"	13"
72"	78"	75"	30"	30"	5"	10"	12"	13"	18"

## CIRCULAR SUMP OR BASIN CAPACITIES IN GALLONS

Sump Diameter	30"	36"	42"	48"	60"	72"
Cap. Per Ft. of Basin Depth (Gallons)	38	53	77	95	150	212

For Square or Rectangular Basins use formula:  
Cu. content cu. ft. × 7.48 = Number of Gal.

Recommended depth of basin below center line of lowest inlet is 5'-0"; Depth provides a storage capacity between operating levels (Pump Cut-In, Cut-Out Levels) of 75% to 100% of rated pump capacity without exposing the motor.

Minimum depth of basin below lowest inlet is 4'-0" minimum low-water level 2'-0". Do not cycle at less than 7 minute intervals. When operated in air, motors are designed for intermittent—15 minute duty or continuous duty in 40°C liquids.

## MINIMUM DIAMETER OF BASIN RECOMMENDED

Pump Frame	Type of Installation	Pump Capacity in GPM							
		50	100	150	200	300	400	500	600
UWNBS3 UWNBS4 UWLLB3* UWLLBC4*	Single Pump	30"	30"	36"	42"	48"	60"	72"	72"
	Duplex Pump	42"	42"	42"	42"	48"	60"	60"	72"

\*Not recommended for installation in 30" basin.

## TYPICAL SPECIFICATIONS

### Peerless Type UW Non-Clog Pumps

Furnish  one/two  Peerless Type UW non-clog centrifugal sewage pump(s) complete with motor(s) and automatic controls.

Each pump shall have a cast iron casing and be equipped with a cast iron enclosed impeller dynamically balanced for all hydraulic loads within the pump's operating range. Each impeller shall be keyed to the motor shaft and secured in place by means of a lock screw. A substantial tripod support shall be cast integral with the pump casing. The design of the pump shall permit removal of the motor-shaft-impeller assembly without need to disconnect the discharge piping or to remove the pump casing from the basin. Each pump shall be driven by a \_\_\_\_\_ HP \_\_\_\_\_ volt \_\_\_\_\_ phase 60 Hertz \_\_\_\_\_ RPM AC motor which shall be UL approved for use in Class 1 Group D Hazardous Locations. Each motor shall have a corrosion resistant cast iron frame, cast iron end shields and a stainless steel motor/impeller shaft. Each motor shall incorporate an inner and an outer water seal with moisture sensing probe which will sense the presence of water in the event of seal failure. Thermal protection rated NEMA MG1-12

shall be standard with insulation compatible with Class B rated system with Class F components. Motor shall be furnished with not less than 30 feet of multi-conductor cable with ground wire as standard. Each pump shall be rated for a capacity of \_\_\_\_\_ GPM when discharging against a total dynamic head of \_\_\_\_\_ feet.

### Basin and Basin Cover

Provide one  steel/cast iron  basin \_\_\_\_\_ inch diameter and \_\_\_\_\_ feet deep. Centerline of lowest inlet to basin shall be located not less than 48" above bottom of basin. Provide one steel basin cover with access opening, vent and cord grip fittings where motor cables pass through the basin cover. Where each pump discharge passes through the basin cover, provide a flexible connector (two bolt flange and sealing ring) to seal opening around discharge pipe.

### Automatic Pump Controller

Provide one: (Select one) . . .

- Float operated switch to start and stop one pump at preset water levels.
- Peerless Series P Sealtrode® Floatless Pump Controller Model \_\_\_\_\_ for the automatic control of  one/two  pumps. (For Sealtrode specifications see Peerless brochure B-6610).



## Peerless Pump Company

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A member of the Sterling Fluid Systems Group