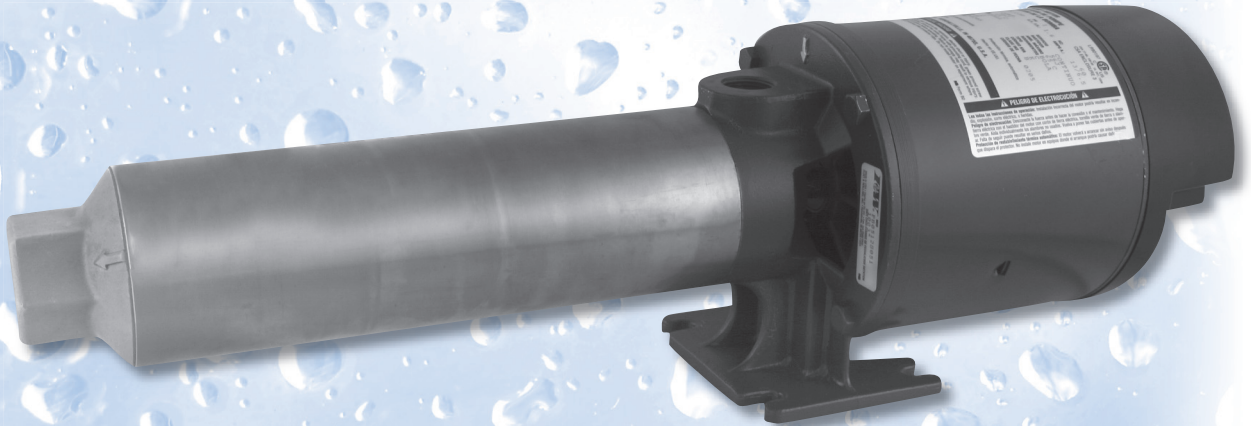




Pressure Booster Pumps

PRESSURES TO 200 PSI

The Pressure Booster Pump is designed to increase water pressure from city mains or private water systems. Applications include pressure cleaning, spray or mist systems, jockey pumps, booster service, reverse osmosis, water circulation and general purpose pumping.




1/3 - 3 HP 60Hz or 50Hz

5, 7, 10, 19, 27 & 35 GPM

Stainless Steel, Powder Coated Cast Iron or Cast Iron Models

Material Construction

| Component Description | Stainless Steel Models 5, 7, 10, 19, 27 & 35 GPM 1/3 thru 3 HP | Powder-coated Models 5, 7, 10, 19, 27 & 35 GPM 1/3 thru 3 HP | Cast Iron Models 5, 7, 10, 19, 27 & 35 GPM 1/3 thru 3 HP |
|---|---|--|--|
| Suction and Discharge Casting | 304 (CF-8) stainless steel | Powder coated cast iron | Cast Iron |
| Pump Shell | 304 heavy wall stainless steel | 304 heavy wall stainless steel | 304 heavy wall stainless steel |
| Staging* | Noryl® impellers and diffusers; type 304 stainless steel floating bearing inserts and acetal diffuser plates | Noryl® impellers and diffusers; type 304 stainless steel floating bearing inserts and acetal diffuser plates | Noryl® impellers and diffusers; type 304 stainless steel floating bearing inserts and acetal diffuser plates |
| Pump Shaft and Motor Coupling Assembly | 303 stainless steel hex shaft with 316 S.S. motor to shaft coupling | 416 stainless steel hex shaft with 316 S.S. motor to shaft coupling | 416 stainless steel hex shaft with 316 S.S. motor to shaft coupling |
| Shaft Seal | Carbon-ceramic, stainless steel spring, and Viton® | Carbon-ceramic, stainless steel spring, and Buna-N | Carbon-ceramic, stainless steel spring, and Buna-N |
| O-Rings | Viton® | Buna N | Buna-N |
| Motor  | Open drip proof (ODP) and Totally enclosed fan cooled (TEFC) motors available with single or three phase options. | | |

* Replacement cartridge assembly available for all models. Includes all necessary parts to restore pumps to like-new performance. No special tools required.

Noryl® is a registered trademark of General Electric.

Viton® is a registered trademark of Dupont.

FEATURE FOR FEATURE THE FINEST

BOOSTER PUMP PERFORMANCE SPECIFICATIONS

| PRESSURE ADDED - PSI† | | | | | 10 | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | Max. Press. PSI | Suction Pipe Tap NPT | Disch. Pipe Tap NPT |
|------------------------|--------------------------------|------------------|-------|-------|-----------------------------|------|------|------|------|------|------|------|------|------|-----|-----------------|----------------------|---------------------|
| Stainless Steel Fitted | Powder-Coated Cast Iron Fitted | Cast Iron Fitted | HP | Stage | Output - Gallons per Minute | | | | | | | | | | | | | |
| 60Hz Models | | | | | | | | | | | | | | | | | | |
| PB0508S031 | PB0508C031 | PB0508A031‡ | 1/3 | 8 | 9.5 | 8.7 | 7.3 | 5.8 | 3.5 | | | | | | | 87 | 3/4" | 3/4" |
| PB0512S051 | PB0512C051 | PB0512A051‡ | 1/2 | 12 | 9.8 | 9.2 | 8.2 | 7.3 | 6.3 | 5.2 | 3.5 | | | | | 131 | | |
| PB0516S071 | PB0516C071 | PB0516A071 | 3/4 | 16 | 9.9 | 9.5 | 8.7 | 8.0 | 7.3 | 6.5 | 5.8 | 4.8 | 3.5 | | | 175 | | |
| PB0712S071 | PB0712C071 | PB0712A071 | 3/4 | 12 | 14.0 | 13.4 | 12.2 | 10.9 | 9.5 | 7.9 | 6.0 | 3.6 | | | | 152 | | |
| PB1014S101 | PB1014C101 | PB1014A101 | 1 | 14 | * | * | 14.5 | 13.4 | 12.3 | 11.2 | 9.8 | 8.3 | 6.3 | 3.3 | | 185 | | |
| PB1016S151 | PB1016C151 | PB1016A151 | 1-1/2 | 16 | * | * | 14.7 | 13.8 | 12.9 | 11.9 | 10.8 | 9.7 | 8.2 | 6.6 | 4.3 | 211 | | |
| PB1914S201 | PB1914C201 | PB1914A201 | 2 | 14 | 27.5 | 27.0 | 25.7 | 24.2 | 22.6 | 20.8 | 18.7 | 16.2 | 13.0 | 7.8 | | 190 | 1" | 1" |
| PB3506S201 | PB3506C201 | PB3506A201 | 2 | 6 | 48.0 | 47.0 | 42.2 | 35.2 | 24.0 | | | | | | | 85 | | |
| PB2711S201 | PB2711C201 | PB2711A201 | 2 | 11 | * | * | 31.3 | 29.3 | 26.8 | 23.8 | 19.8 | 13.0 | | | | 150 | | |
| PB3508S301 | PB3508C301 | PB3508A301 | 3 | 8 | 48.0 | 47.5 | 44.0 | 40.0 | 35.2 | 27.5 | | | | | | 118 | | |
| PB2714S301 | PB2714C301 | PB2714A301 | 3 | 14 | * | * | 32.2 | 30.6 | 28.9 | 27.0 | 24.8 | 22.0 | 18.4 | 12.2 | | 190 | | |
| 50Hz Models | | | | | | | | | | | | | | | | | | |
| PB0508Y031 | PB0508Z031 | PB0508X031 | 1/3 | 8 | 7.5 | 6.8 | 5.0 | 2.0 | | | | | | | | 66 | 3/4" | 3/4" |
| PB0514Y051 | PB0514Z051 | PB0514X051 | 1/2 | 14 | * | 7.3 | 6.4 | 5.3 | 4.0 | 2.1 | | | | | | 113 | | |
| PB0714Y071 | PB0714Z071 | PB0714X071 | 3/4 | 14 | * | 10.9 | 9.7 | 8.5 | 7.0 | 5.2 | 2.8 | | | | | 132 | | |
| PB1020Y101 | PB1020Z101 | PB1020X101 | 1 | 20 | * | 13.0 | 12.2 | 11.4 | 10.5 | 9.5 | 8.2 | 6.8 | 5.0 | 2.0 | | 183 | | |
| PB1022Y101 | PB1022Z101 | PB1022X101 | 1 | 22 | * | 12.0 | 12.2 | 11.4 | 10.5 | 9.5 | 8.4 | 7.4 | 6.0 | 4.3 | 2.0 | 203 | | |
| PB1023Y101 | PB1023Z101 | PB1023X101 | 1 | 23 | * | 12.0 | 12.2 | 11.4 | 10.5 | 9.6 | 8.6 | 7.6 | 6.5 | 5.1 | 3.3 | 213 | | |
| PB1920Y151 | PB1920Z151 | PB1920X151 | 1-1/2 | 20 | * | 22.1 | 21.0 | 19.5 | 18.0 | 16.1 | 14.1 | 11.6 | 8.3 | 2.0 | | 182 | 1" | 1" |
| PB2717Y201 | PB2717Z201 | PB2717X201 | 2 | 17 | * | 30.8 | 28.9 | 26.7 | 24.1 | 21.2 | 18.0 | 13.5 | | | | 160 | | |
| PB3508Y151 | PB3508Z151 | PB3508X151 | 1-1/2 | 8 | * | 39.4 | 33.9 | 27.0 | 14.0 | | | | | | | 84 | | |
| PB3514Y301T | PB3514Z301T | PB3514X301T | 3 | 14 | * | * | 38.5 | 36.5 | 32.1 | 28.1 | 23.0 | 14.4 | | | | 146 | | |

‡ Equipped with carrying handle. 132079 handle available as an option for other models.

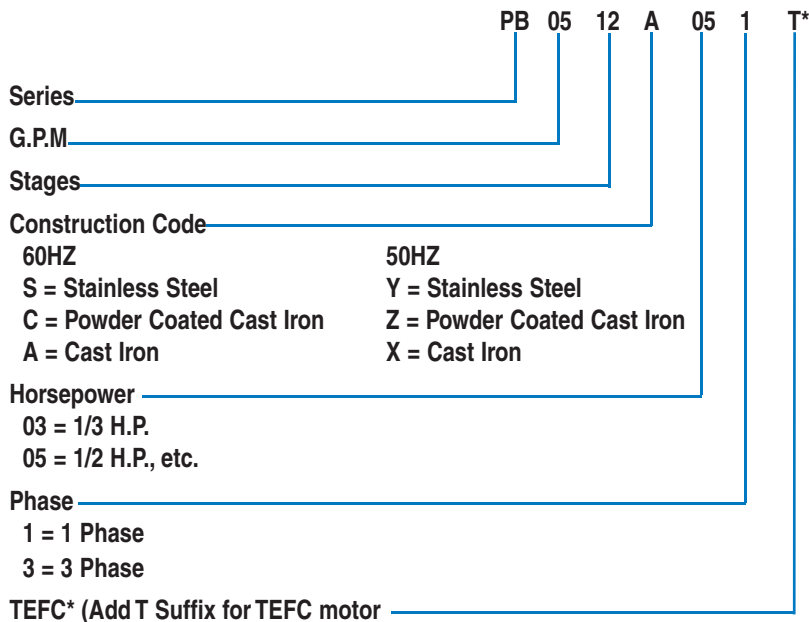
† Example: If PB0508A031 pump is connected to supply line of sufficient capacity, carrying water at 40 PSI, and the output of the pump is held to 7.3 GPM by a gate valve, the pump will add 40 PSI to line pressure for a total output pressure of 80 PSI.

* Operation of pump in this range may result in reduced pump life and/or motor damage.

To keep pump and seal lubricated, a minimum flow of 1.5 GPM must always be maintained through the pump.

Motor voltage: Open Drip Proof Totally Enclosed Fan Cooled
 Single Phase 1/3 - 2 HP - 115/230; 3 HP - 230V 60 Hz. Single Phase: 1/2 thru 3 HP - 115/230V 60/50Hz
 Three Phase 1/2 - 2 HP - 208-230/460, 50/60Hz. Three Phase: 1/2 thru 3 HP - 208/230/460V 60/50Hz
 Three Phase 3 HP - 208-230/460, 60 HZ
 For three phase models, use suffix "3" on the model no.
 Example: PB0512A053

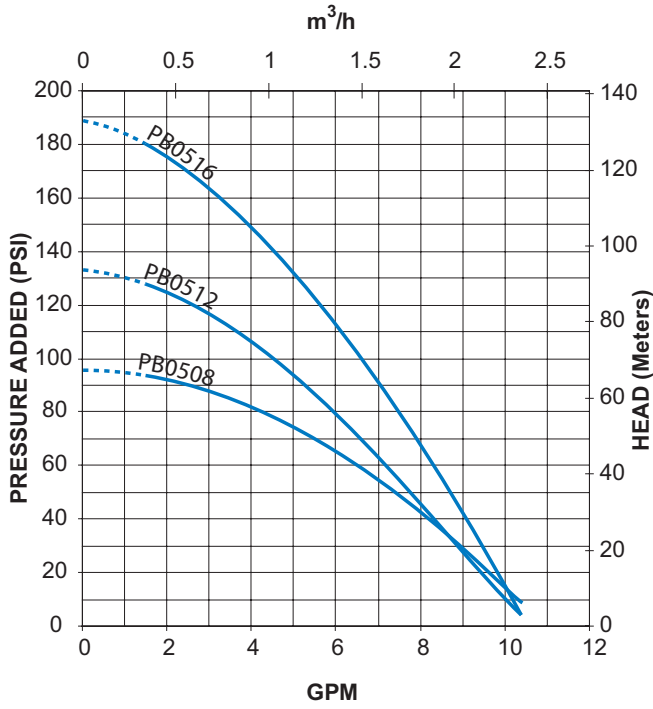
MODEL NUMBER CODE



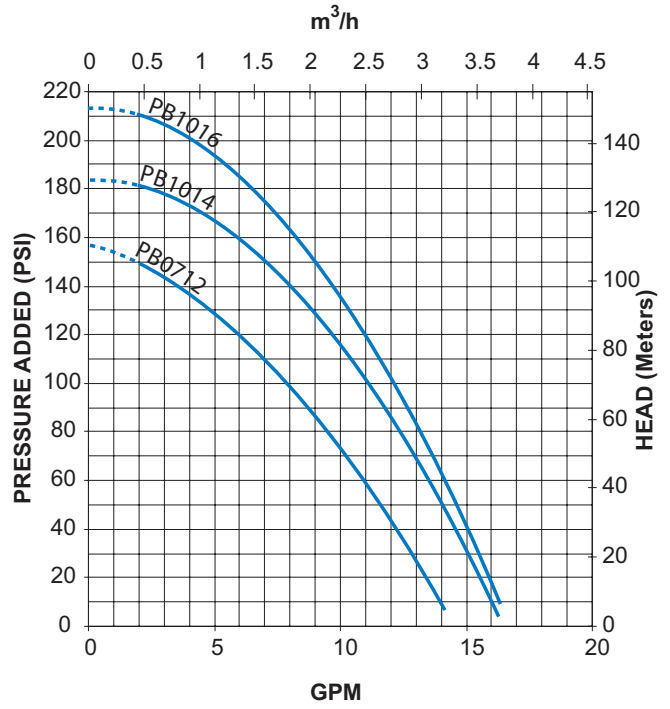
TEFC motors available on powder coated cast iron models and stainless steel models only

PERFORMANCE CURVES

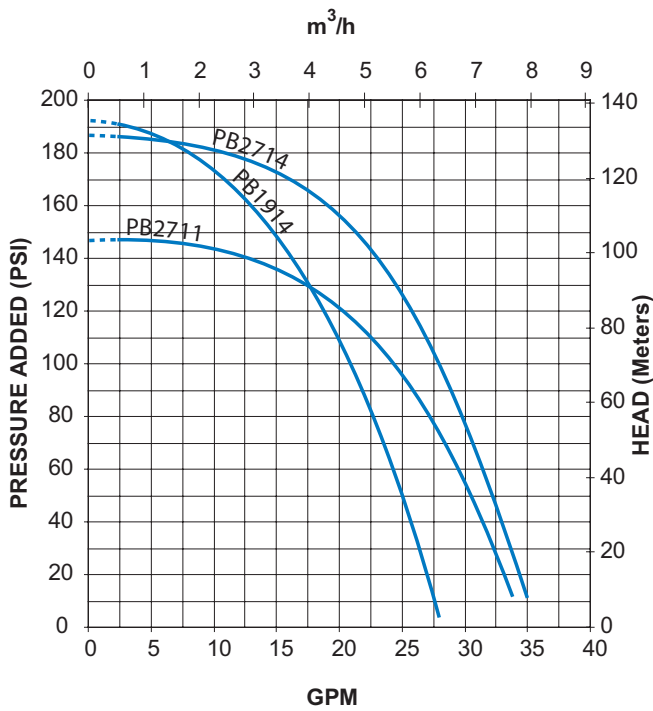
3450 RPM 60 Hz



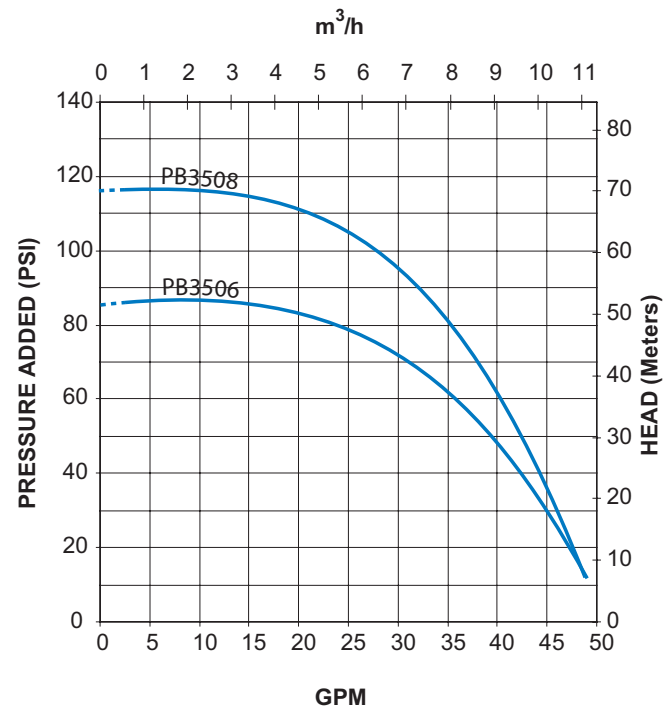
IL0522



IL0523



IL0524



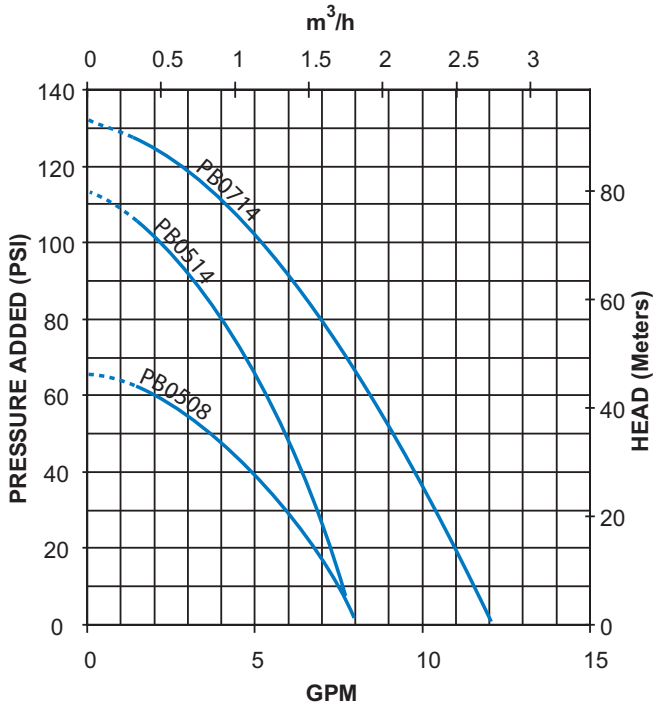
IL0525

Do not operate pumps in flow range indicated by dotted line.

PERFORMANCE CURVES

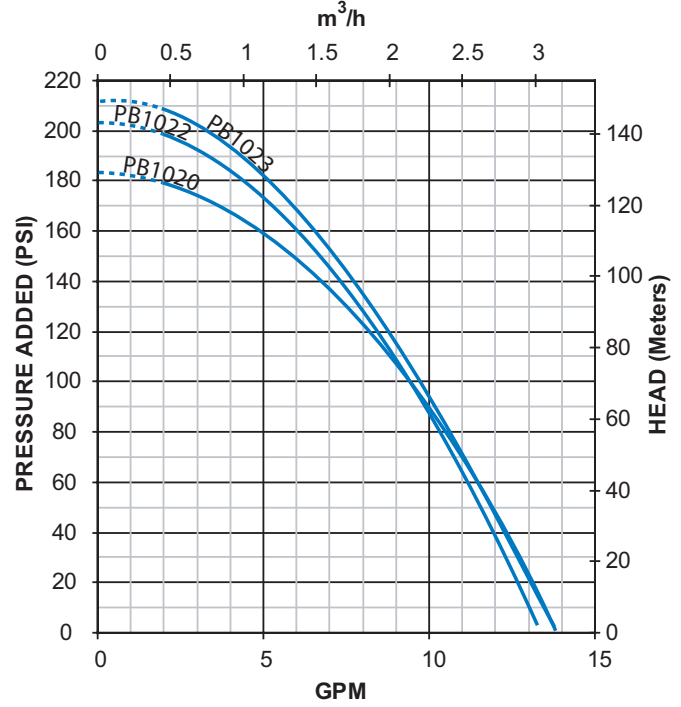
2850 RPM 50 Hz

5 and 7 GPM



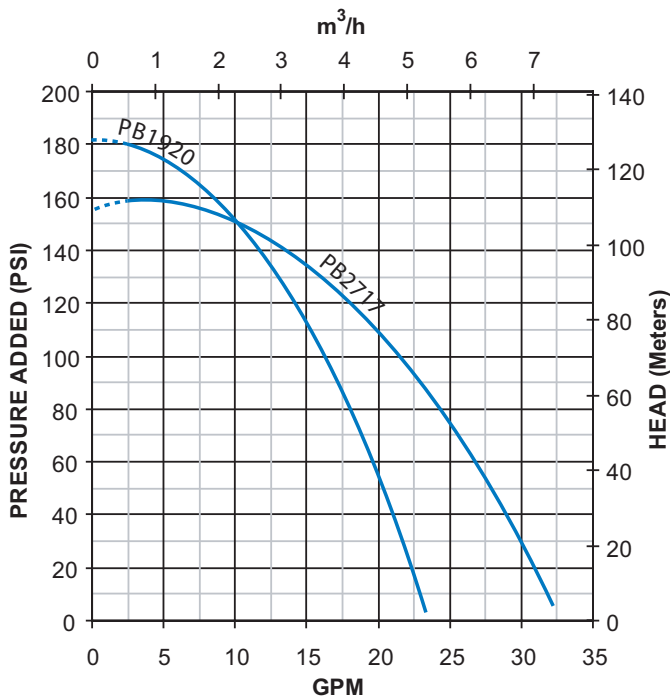
IL0507

10 GPM



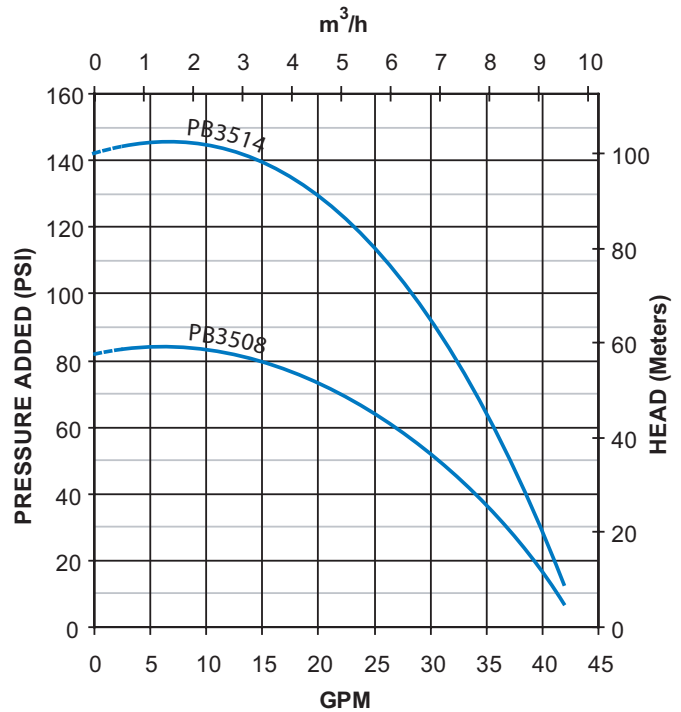
IL0508

19 & 27 GPM



IL0509

35 GPM



IL0510

Do not operate pumps in flow range indicated by dotted line.