

## SELF PRIMING MONOSET PUMP Mini Series



Crompton Greaves Self Priming Pumps 'MINI MASTER', 'MINI STAR' AND 'MINI MARVEL' Series - are specially designed and developed to meet water requirements of various needs such as residential bungalows, Flats, Lawns, Gardens, Hotels, Clubs etc. Years of experience, superior design and better manufacturing techniques have resulted into development of these pumps. Strict quality assurance standards during the total process trouble free and reliable operation requiring minimum maintenance.

### Features

- Self priming upto 6.0 metres at mean sea level.
- Wide voltage operation from 180 to 240 volts.
- Unique motor design capacitor start and run (PSC) type eliminating centrifugal switch.
- Aluminum pressure die cast motor body.
- Bronze Impeller.
- High quality and long life mechanical seal.
- Fitted with Thermal Overload Protector.
- Compact, Sleek look.

### Applications

- Used for water supply to Residential Bungalows, Garages, Flats, Dairies, Hotels, Laundries, Clubs, Hospitals, etc.
- Gardening and small plants
- Lawn sprinklers
- Booster applications
- Small farms

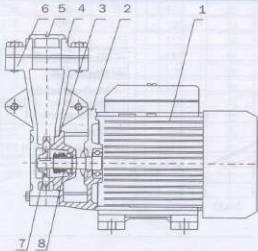
### Standard Specifications

- **Range :** 0.094 to 0.75 kW (0.125 to 1.5 HP)
- **Supply :** 225 Volts in 1 Phase and 415 Volts in 3 phase at 50 Hz AC.
- **Pipe Size :** 13 x 13 to 25 x 25 mm.
- **Total Head :** 3 to 54 metres.
- **Capacity :** Upto 5200 LPH.
- **Liquid :** Clear water
- **Operating temperature :** Suitable for 65°C.
- **Rotation :** Clockwise when viewed from motor end.

### Electric Motor

- TEFC, 2 Pole (3000 RPM Syn. Speed) Electric Motor for 1/3 Phase, 225/415 Volts, 50 Hz AC Supply. Suitable for ambient temperature upto 40°C
- Special Motor with different enclosures, supply voltage, frequency and ambient can be offered on request.

### CONSTRUCTION



| No. | PART                     | MATERIAL         |
|-----|--------------------------|------------------|
| 1   | Motor                    | -                |
| 2   | Adaptor                  | Graded Cast Iron |
| 3   | O' Ring                  | Nitrile Rubber   |
| 4   | Suction/Delivery Flanges | Graded Cast Iron |
| 5   | Suction/Delivery Cap     | Plastic          |
| 6   | Volute Casing            | Graded Cast Iron |
| 7   | Impeller                 | Graded Cast Iron |
| 8   | Mechanical Seal          | -                |

**PERFORMANCE TABLE**

| Rating             | kW (HP)      | Pipe size Suc x Dis (mm) | Total Head in Metres |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |    |    |    |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |
|--------------------|--------------|--------------------------|----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|----|----|----|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|
|                    |              |                          | 3                    | 6    | 9    | 12   | 15   | 16.5 | 18   | 19.5 | 21   | 24   | 25.5 | 27   | 28.5 | 30   | 33   | 36   | 39   | 42   | 45  | 48 | 51 | 54 |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |
|                    |              |                          | Discharge in LPH     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |    |    |    |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |
| MINI XTRAA         | 1.1 (1.5)    | 25x25                    |                      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |    |    |    | 5200 | 5000 | 4850 | 4700 | 4500 | 4170 | 3820 | 3500 | 3150 | 2800 | 2480 | 2120 | 1800 |  |  |
| MINIMASTER I       | 0.75(1.0)    | 25x25                    | 4000                 | 3780 | 3560 | 3340 | 3230 | 3120 | 3010 | 2900 | 2690 | 2580 | 2470 | 2360 | 2250 | 2030 | 1810 | 1590 | 1370 | 1150 | 950 |    |    |    |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |
| MINIMASTER I(3PH)  | 0.75(1.0)    | 25x25                    | 4000                 | 3780 | 3560 | 3340 | 3230 | 3120 | 3010 | 2900 | 2690 | 2580 | 2470 | 2360 | 2250 | 2030 | 1810 | 1590 | 1370 | 1150 | 950 |    |    |    |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |
| MINIMASTER II      | 0.37(0.5)    | 25x25                    | 2600                 | 2350 | 2100 | 1860 | 1730 | 1610 | 1480 | 1350 | 1100 | 1000 | 850  | 730  | 600  |      |      |      |      |      |     |    |    |    |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |
| MINIMASTER II(3PH) | 0.37(0.5)    | 25x25                    | 2600                 | 2350 | 2100 | 1860 | 1730 | 1610 | 1480 | 1350 | 1100 | 1000 | 850  | 730  | 600  |      |      |      |      |      |     |    |    |    |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |
| MINIMASTER III     | 0.18(0.25)   | 20x20                    | 1950                 | 1720 | 1490 | 1260 | 1040 | 920  | 810  | 700  |      |      |      |      |      |      |      |      |      |      |     |    |    |    |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |
| MINIMASTER IV      | 0.094(0.125) | 13x13                    | 1650                 | 1370 | 1090 | 810  | 525  |      |      |      |      |      |      |      |      |      |      |      |      |      |     |    |    |    |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |
| MINISTAR I         | 0.75(1.0)    | 25x25                    | 3350                 | 3150 | 2950 | 2750 | 2650 | 2550 | 2450 | 2350 | 2150 | 2050 | 1940 | 1850 | 1750 | 1550 | 1350 | 1150 | 950  | 750  |     |    |    |    |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |
| MINISTAR II        | 0.37(0.5)    | 25x25                    | 2400                 | 2120 | 1860 | 1590 | 1460 | 1320 | 1200 | 1060 | 800  | 660  | 530  | 400  |      |      |      |      |      |      |     |    |    |    |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |
| MINISTAR III       | 0.18(0.25)   | 20x20                    | 1860                 | 1610 | 1360 | 1110 | 860  | 740  | 600  |      |      |      |      |      |      |      |      |      |      |      |     |    |    |    |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |
| MINIMARVEL I       | 0.75(1.0)    | 25x25                    | 3000                 | 2800 | 2600 | 2400 |      | 2200 |      | 2000 | 1800 | 1700 | 1600 | 1500 | 1400 | 1200 | 1000 | 750  |      |      |     |    |    |    |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |
| MINIMARVEL II      | 0.37(0.5)    | 25x25                    | 2000                 | 1730 | 1460 | 1200 | 1060 | 930  | 800  | 660  | 400  |      |      |      |      |      |      |      |      |      |     |    |    |    |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |
| MINIMARVEL II(BR)  | 0.37(0.5)    | 25x25                    | 2000                 | 1730 | 1460 | 1200 | 1060 | 930  | 800  | 660  | 400  |      |      |      |      |      |      |      |      |      |     |    |    |    |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |
| MINIMAJESTIC II    | 0.37(0.5)    | 25x25                    | 2000                 | 1730 | 1460 | 1200 | 1060 | 930  | 800  | 660  | 400  |      |      |      |      |      |      |      |      |      |     |    |    |    |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |
| MINI WIN II        | 0.37(0.5)    | 25x25                    | 2600                 | 2220 | 1910 | 1800 | 1710 | 1570 | 1450 | 1370 | 1150 | 910  | 840  | 570  |      |      |      |      |      |      |     |    |    |    |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |
| MINI ELEGENCE II   | 0.37(0.5)    | 25x25                    | 2200                 | 1920 | 1640 | 1370 | 1230 | 1090 | 950  | 810  | 540  | 400  |      |      |      |      |      |      |      |      |     |    |    |    |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |

Notes:-

1. The above performance is based on rated voltage (225+6%-15% for 1 Phase 415+6%-15% for 3 Phase) and rated frequency (50Hz+3%).
2. The above performance is subjected to tolerances as per relevant Indian Standards.
3. Pipe sizes mentioned in mm are nearest conversion of inches, but actual pipe threadings are provided as per 'BSP' Standards
4. Total head = Static Suction + Static Delivery + Losses in pipes, bends etc.
5. The self priming time depends upon static suction, installation conditions and the duration of use of the pump. -

