

# MYERS® CT Series-Crusader Centrifugal Pumps

Crusader centrifugal pumps are designed to meet your toughest pumping requirements. Rugged cast iron construction can be coupled with either a corrosion resistant composite, or a lead-free brass impeller. Versatile design features allow Crusader pumps to be installed with either a vertical or horizontal discharge. The CT Series is ideal for irrigation, air conditioning, cooling tower and booster applications.

## APPLICATIONS

- Booster service, irrigation, circulating, cooling towers, air conditioning, liquid transfer, sprinkling systems, general industrial service, OEM equipment

## SPECIFICATIONS

**Seal Plate** – Heavy-duty cast iron

**Wear Ring Impeller** – Reinforced composite with stainless steel

**Standard Casing** – Heavy-duty cast iron

**Mechanical Seal** – Carbon ceramic faces



## FEATURES

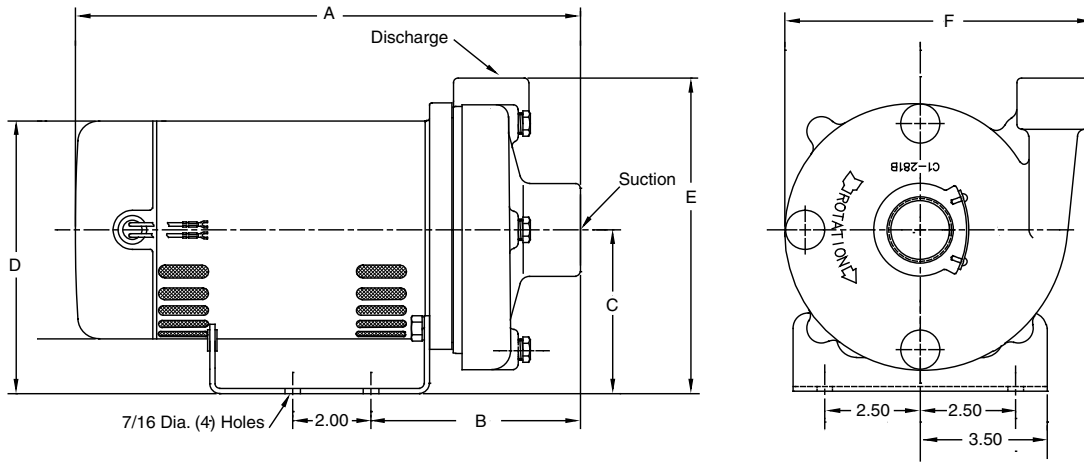
- 1/2 to 2-1/2 HP models
- High Head Capabilities to 140 Feet
- Flow Capacities to 95 GPM
- Double Ball-bearing Motor
- Continuous-duty Rated
- Single Phase – (115/230V)
- Three Phase – (208/230/460V)
- Choice of Impellers – Composite impeller rated to 140°F, Brass impeller rated to 212°F
- Maximum Working Pressure of 125 PSI
- Choice of Complete Unit or Pump End Assembly

## ORDERING INFORMATION

| Catalog Number     |         |                  |         | HP    | WT (lb/kg) | Capacity in U.S. Gallons per Minute<br>Total Head in Feet |    |    |    |    |     |     |         | Pipe Size |  |
|--------------------|---------|------------------|---------|-------|------------|---|----|----|----|----|-----|-----|---------|-----------|--|
| Composite Impeller |         | Brass Impeller   |         |       |            | 50  | 60 | 70 | 80 | 90 | 100 | 110 | Suction | Discharge |  |
| 115-230 Volt       |         | 208/230/460 Volt |         |       |            |   |    |    |    |    |     |     |         |           |  |
| 1 Phase            | 3 Phase | 1 Phase          | 3 Phase |       |            |   |    |    |    |    |     |     |         |           |  |
| CT05               | CT053   | CT05B            | CT05B3  | 1/2   | 39/18      | 23  | 18 | 12 |    |    |     |     | 1-1/4"  | 1"        |  |
| CT07               | CT073   | CT07B            | CT07B3  | 3/4   | 42/19      | 35  | 29 | 23 | 15 |    |     |     | 1-1/4"  | 1"        |  |
| CT10               | CT103   | CT10B            | CT10B3  | 1     | 43/20      | 44  | 39 | 34 | 27 |    |     |     | 1-1/4"  | 1"        |  |
| CT15               | CT153   | CT15B            | CT15B3  | 1-1/2 | 54/25      |   | 51 | 46 | 42 | 36 | 28  |     | 1-1/4"  | 1"        |  |
| CT20               | CT203   | CT20B            | CT20B3  | 2     | 66/30      |   |    | 62 | 54 | 45 | 35  |     | 1-1/2"  | 1-1/4"    |  |
| CT25               | CT253   | CT25B            | CT25B3  | 2-1/2 | 74/34      |   |    | 70 | 63 | 57 | 48  | 41  | 2"      | 1-1/2"    |  |

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## OUTLINE DIMENSIONS

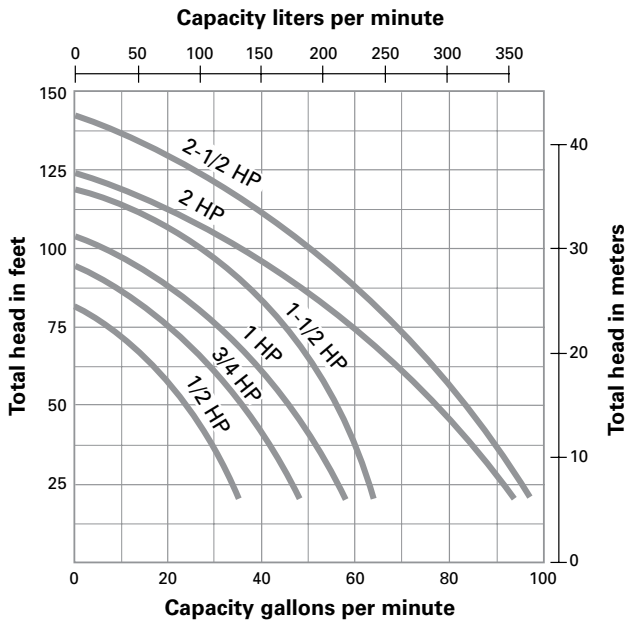


| HP  | A     | B   | C    | D    | E   | F   |
|-----|-------|-----|------|------|-----|-----|
| 1/2 | 13.88 | 5.5 | 4.38 | 7.25 | 9.0 | 8.0 |
| 3/4 | 14.63 | 5.5 | 4.38 | 7.25 | 9.0 | 8.0 |
| 1   | 15.13 | 5.5 | 4.38 | 7.25 | 9.0 | 8.0 |

| HP    | A      | B    | C   | D    | E   | F    |
|-------|--------|------|-----|------|-----|------|
| 1-1/2 | 15.125 | 5.5  | 4.8 | 7.25 | 9.0 | 8.0  |
| 2     | 16.50  | 6.25 | 4.5 | 7.5  | 9.5 | 8.88 |
| 2-1/2 | 16.50  | 6.25 | 4.5 | 7.5  | 9.5 | 8.88 |

Dimensions (in inches) are for estimating purposes only.

## PUMP PERFORMANCE



| HP    | Discharge Pressure |           | Dynamic Suction Lift |     |     |     |     |
|-------|--------------------|-----------|----------------------|-----|-----|-----|-----|
|       | PSI                | Feet Head | 5'                   | 10' | 15' | 20' | 25' |
| 1/2   | 10                 | 23.1      | —                    | 34  | 32  | 29  | 26  |
|       | 20                 | 46.2      | 25                   | 21  | 18  | 15  | 11  |
|       | 30                 | 69.3      | 10                   | —   | —   | —   | —   |
| 3/4   | 10                 | 23.1      | —                    | —   | 42  | 39  | 37  |
|       | 20                 | 46.2      | 35                   | 32  | 30  | 28  | 26  |
|       | 30                 | 69.3      | 24                   | 22  | 19  | 15  | 10  |
| 1     | 20                 | 46.2      | 48                   | 46  | 45  | 43  | 40  |
|       | 30                 | 69.3      | 38                   | 35  | 31  | 28  | 25  |
|       | 40                 | 92.4      | 23                   | 20  | 15  | —   | —   |
| 1-1/2 | 20                 | 46.2      | 62                   | 60  | 58  | 55  | 52  |
|       | 30                 | 69.3      | 50                   | 48  | 44  | 40  | 37  |
|       | 40                 | 92.4      | 37                   | 32  | 29  | 22  | —   |
| 2     | 20                 | 46.2      | 71                   | 68  | 66  | 62  | 60  |
|       | 30                 | 69.3      | 60                   | 57  | 52  | 59  | 45  |
|       | 40                 | 92.4      | 45                   | 40  | 36  | 31  | 24  |
|       | 50                 | 115.5     | 22                   | 15  | —   | —   | —   |
| 2-1/2 | 20                 | 46.2      | 81                   | 79  | 76  | 74  | 71  |
|       | 30                 | 69.3      | 69                   | 67  | 63  | 60  | 56  |
|       | 40                 | 92.4      | 56                   | 51  | 47  | 44  | 38  |
|       | 50                 | 115.5     | 33                   | 30  | 22  | 15  | —   |

Tested and rated in accordance with Water Systems Council Standards.

NOTE: Pumps installed with a Pro-Source® tank require a 100 PSI relief valve. Pumps with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.



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