

### End Suction Pumps

#### Standard Material of Construction

| ITEM NO. | NAME OF PART             | ALL IRON     | BRONZE FITTED |
|----------|--------------------------|--------------|---------------|
| 001      | Casing                   | Cast Iron    | Cast Iron     |
| 002      | Impeller                 | Cast Iron    | Bronze        |
| 008      | Impeller Ring (Optional) | 316 St. Stl. | 316 St. Stl.  |
| 014      | Sleeve                   | 316 St. Stl. | 316 St. Stl.  |
| 025      | Casing Ring              | 316 St. Stl. | 316 St. Stl.  |
| 026      | Impeller Cap Screw       | 316 St. Stl. | 316 St. Stl.  |
| 027      | Cover Ring               | 316 St. Stl. | 316 St. Stl.  |
| 030      | Washer Impeller Gasket   | Rulon        | Rulon         |
| 032      | Impeller Key             | Steel        | Steel         |
| 038      | Sleeve Gasket            | Rulon        | Rulon         |
| 071      | Adapter                  | Cast Iron    | Cast Iron     |
| 073      | Casing Gasket            | Velbuna      | Velbuna       |
| 089      | Mechanical Seal          | BF1C1        | BF1C1         |
| 270      | Impeller Washer          | 316 St. Stl. | 316 St. Stl.  |

#### Cast Material Designation

| Code      | Material and Specification |
|-----------|----------------------------|
| Cast Iron | Cast Iron A48 - Class 30   |
| Bronze    | Bronze B876                |
| St. Stl.  | Stainless Steel A743 CF8M  |

#### Technical Chart

| SIZE     |                                   | 1½ x 1 x 6         | 2 x 1½ x 6 | 3 x 2 x 6 | 4 x 3 x 6 | 3 x 2½ x 7 | 1½ x 1 x 8 | 2 x 1½ x 8 | 3 x 2 x 8 |
|----------|-----------------------------------|--------------------|------------|-----------|-----------|------------|------------|------------|-----------|
| Casing   | Suction                           | 1½                 | 2          | 3         | 4         | 3          | 1½         | 2          | 3         |
|          | Discharge                         | 1                  | 1½         | 2         | 3         | 2½         | 1          | 1½         | 2         |
|          | Casing Wall Thickness             | ¼                  | ¼          | 9/32      | 5/16      | ¾          | 5/16       | 5/16       | 5/16      |
|          | Max. Working Pressure P.S.I.      | See Pressure Chart |            |           |           |            |            |            |           |
| Impeller | Max. Impeller Diameter            | 6½                 | 6½         | 6½        | 6½        | 7¼         | 8          | 8          | 8         |
|          | Imp. Eye Area Inches <sup>2</sup> | 3.14               | 4.42       | 7.07      | 8.95      | 7.36       | 4.47       | 4.91       | 8.79      |
|          | Max. Diameter Solids              | 9/32               | ¾          | ½         | 27/32     | 17/32      | 9/32       | ¾          | 7/16      |
|          | Weight of Pump lbs.               | 33                 | 40         | 44        | 68        | 70         | 51         | 56         | 72        |

Dimensions in Inches



**WARNING:**  
CANCER AND REPRODUCTIVE HARM -  
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# Pump Assembly Data

Model 3122  
Bulletin 3000

# DEMING®

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| 026      | Impeller Cap Screw       | 316 St. Stl. | 316 St. Stl.  |
| 027      | Cover Ring               | 316 St. Stl. | 316 St. Stl.  |
| 030      | Washer Impeller Gasket   | Rulon        | Rulon         |
| 032      | Impeller Key             | Steel        | Steel         |
| 038      | Sleeve Gasket            | Rulon        | Rulon         |
| 071      | Adapter                  | Cast Iron    | Cast Iron     |
| 073      | Casing Gasket            | Velbuna      | Velbuna       |
| 089      | Mechanical Seal          | BF1C1        | BF1C1         |
| 270      | Impeller Washer          | 316 St. Stl. | 316 St. Stl.  |

### Cast Material Designation

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|-----------|----------------------------|
| Cast Iron | Cast Iron A48 - Class 30   |
| Bronze    | Bronze B876                |
| St. Stl.  | Stainless Steel A743 CF8M  |

### Technical Chart

| SIZE     |                                   | 4 x 3 x 8          | 6 x 4 x 8 | 2 x 1 x 10 | 2 x 1½ x 10 | 3 x 2 x 10 | 4 x 3 x 10 | 5 x 4 x 10 | 6 x 4 x 10 | 8 x 6 x 10 |
|----------|-----------------------------------|--------------------|-----------|------------|-------------|------------|------------|------------|------------|------------|
| Casing   | Suction                           | 4                  | 6         | 2          | 2           | 3          | 4          | 5          | 6          | 8          |
|          | Discharge                         | 3                  | 4         | 1          | 1½          | 2          | 3          | 4          | 4          | 6          |
|          | Casing Wall Thickness             | 7/16               | 7/16      | 3/8        | 3/8         | 3/8        | 1/2        | 7/16       | 7/16       | 5/8        |
|          | Max. Working Pressure P.S.I.      | See Pressure Chart |           |            |             |            |            |            |            |            |
| Impeller | Max. Impeller Diameter            | 8                  | 8         | 10         | 10          | 10         | 10         | 10         | 10         | 10         |
|          | Imp. Eye Area Inches <sup>2</sup> | 11.79              | 15.47     | 4.25       | 4.21        | 7.07       | 11.79      | 20.13      | 24.30      | 37.12      |
|          | Max. Diameter Solids              | 3/4                | 29/32     | 9/32       | 3/8         | 15/32      | 9/16       | 9/32       | 3/8        | 1/2        |
|          | Weight of Pump lbs.               | 82                 | 107       | 87         | 89          | 90         | 97         | 151        | 177        | 265        |

Dimensions in Inches



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| 032      | Impeller Key             | Steel        | Steel         |
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| 270      | Impeller Washer          | 316 St. Stl. | 316 St. Stl.  |

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| Cast Iron | Cast Iron A48 - Class 30   |
| Bronze    | Bronze B876                |
| St. Stl.  | Stainless Steel A743 CF8M  |

#### Technical Chart

|          | SIZE                              | 3 x 2 x 13                   | 4 x 3 x 13                  | 6 x 4 x 13                   |
|----------|-----------------------------------|------------------------------|-----------------------------|------------------------------|
| Casing   | Suction                           | 3                            | 4                           | 6                            |
|          | Discharge                         | 2                            | 3                           | 4                            |
|          | Casing Wall Thickness             | <sup>9</sup> / <sub>16</sub> | <sup>1</sup> / <sub>2</sub> | <sup>9</sup> / <sub>16</sub> |
|          | Max. Working Pressure P.S.I.      | See Pressure Chart           |                             |                              |
| Impeller | Max. Impeller Diameter            | 13                           | 13                          | 13                           |
|          | Imp. Eye Area Inches <sup>2</sup> | 7.07                         | 12.57                       | 20.61                        |
|          | Max. Diameter Solids              | <sup>3</sup> / <sub>8</sub>  | <sup>5</sup> / <sub>8</sub> | <sup>9</sup> / <sub>16</sub> |
|          | Weight of Pump lbs.               | 154                          | 170                         | 223                          |

Dimensions in Inches



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