

## SERIES 4030 | END SUCTION BASE MOUNTED SPLIT COUPLED | 3 × 2.5 × 8 | SUBMITTAL

File No: 40.57  
Date: OCTOBER 15, 2013  
Supersedes: 40.57  
Date: JULY 10, 2013

Job: \_\_\_\_\_ Representative: \_\_\_\_\_

Order no.: \_\_\_\_\_ Date: \_\_\_\_\_

Engineer: \_\_\_\_\_ Submitted by: \_\_\_\_\_ Date: \_\_\_\_\_

Contractor: \_\_\_\_\_ Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

### PUMP DESIGN DATA

No. of pumps: \_\_\_\_\_ Tag: \_\_\_\_\_  
Capacity: \_\_\_\_\_ USgpm (L/s) Head: \_\_\_\_\_ ft (m)  
Liquid: \_\_\_\_\_ Viscosity: \_\_\_\_\_  
Temperature: \_\_\_\_\_ °F (°C) Specific gravity: \_\_\_\_\_  
Suction: 3" (75mm) Flanged  
Discharge: 2.5" (62mm) Flanged

### MATERIALS OF CONSTRUCTION

| ANSI FLANGE RATING | ANSI 125                    | ANSI 250                     |
|--------------------|-----------------------------|------------------------------|
| Construction       | <input type="checkbox"/> BF | <input type="checkbox"/> DBF |
| Casing             | Cast iron                   | Ductile iron                 |

**Impeller:** Bronze  
**Gasket:** Confined non-asbestos fiber  
**Bearing frame:** Cast iron  
**Anti-friction bearings:** Permanently lubricated  
**Shaft:** Carbon steel  
**Shaft sleeve:** Stainless steel  
**Coupler:** Constant speed: Woods sure-flex or equal  
Variable speed: Woods dura-flex or equal  
**Coupler guard:** Steel OSHA  
**Baseplate:** Fabricated steel

### MECHANICAL SEAL DATA

**Seal type:** 2A      **Stationary seat:** Silicone carbide  
**Secondary seal:** EPDM      **Rotating hardware:** Stainless steel  
**Spring:** Stainless steel

| FLUID TYPE     | ALL GLYCOLS > 30% WT CONC |                   | ALL OTHER NON-POTABLE FLUIDS |                        | POTABLE (DRINKING) WATER |                   |
|----------------|---------------------------|-------------------|------------------------------|------------------------|--------------------------|-------------------|
|                | up to 200°F (93°C)        | over 200°F (93°C) | up to 200°F (93°C)           | over 200°F (93°C)      | up to 200°F (93°C)       | over 200°F (93°C) |
| Rotating face  | Silicone carbide          |                   | Resin bonded carbon          | Antimony loaded carbon | Resin bonded carbon      |                   |
| Seat elastomer | EPDM (L-cup)              | EPDM (O-ring)     | EPDM (L-cup)                 | EPDM (O-ring)          | EPDM (L-cup)             | EPDM (O-ring)     |
| Material code  | SCSc L EPSS 2A            | SCSc O EPSS 2A    | C-SC L EPSS 2A               | ACSc O EPSS 2A         | C-SC L EPSS 2A           | C-SC O EPSS 2A    |

### MOTOR DESIGN DATA

HP: \_\_\_\_\_ RPM: \_\_\_\_\_ Frame size: \_\_\_\_\_ Enclosure: \_\_\_\_\_  
Volts: \_\_\_\_\_ Hertz: 60 Hz Phase: 3  
Efficiency\*:  NEMA premium 12.12     Other \_\_\_\_\_ %

\* Fractional power and frame 56 motors are supplied with the standard efficiency of the manufacturer.

### MAXIMUM PUMP OPERATING CONDITIONS

#### ANSI 125

175 psig at 150°F (12 bars at 65°C)  
140 psig at 250°F (10 bars at 121°C)

#### ANSI 250

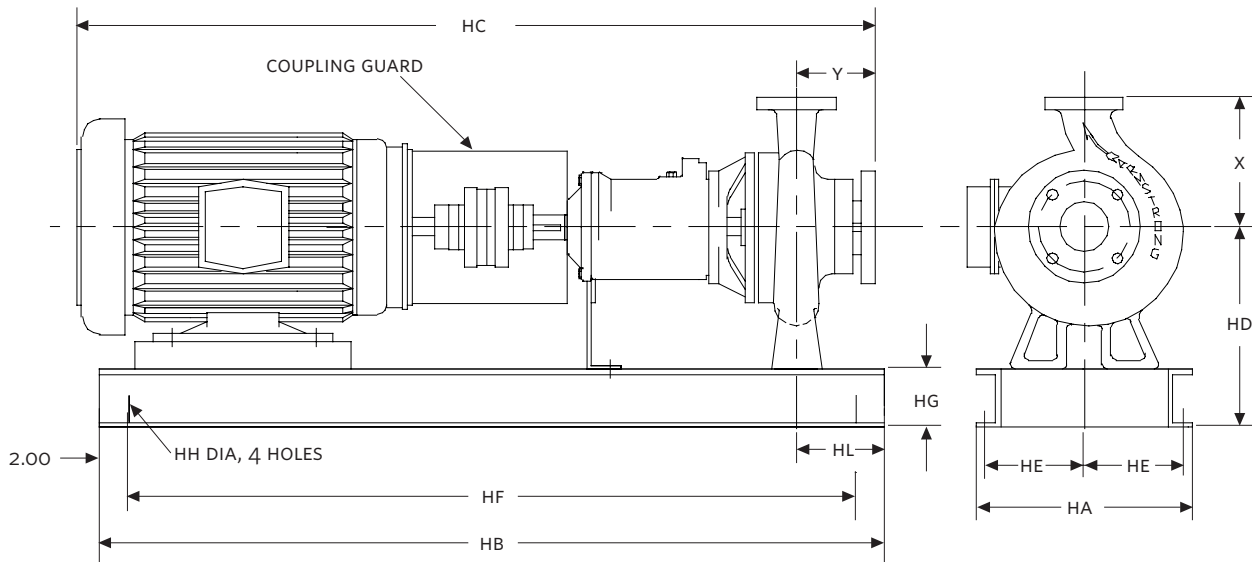
300 psig at 150°F (20 bars at 65°C)  
250 psig at 250°F (17 bars at 121°C)

- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

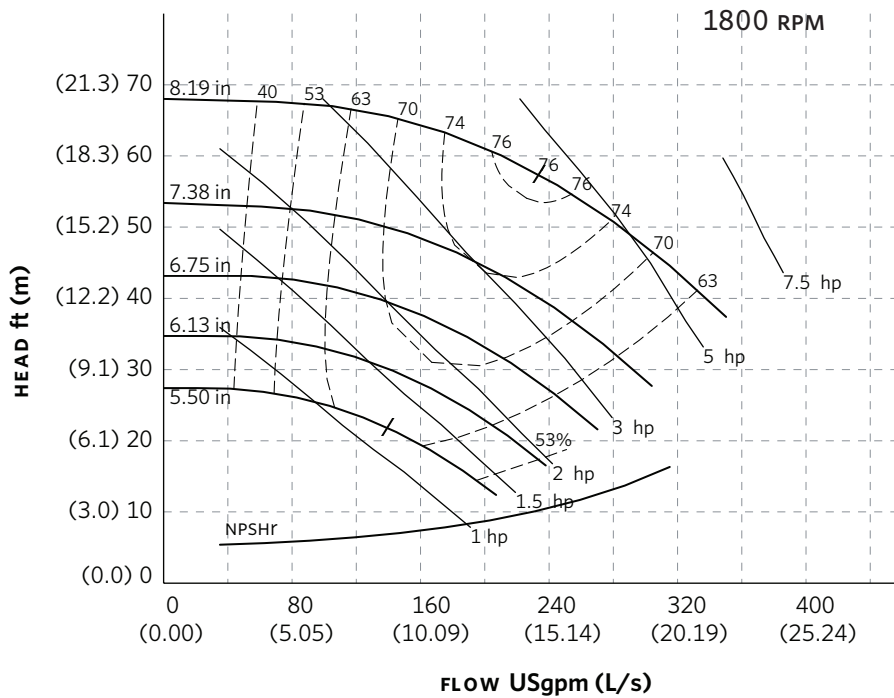
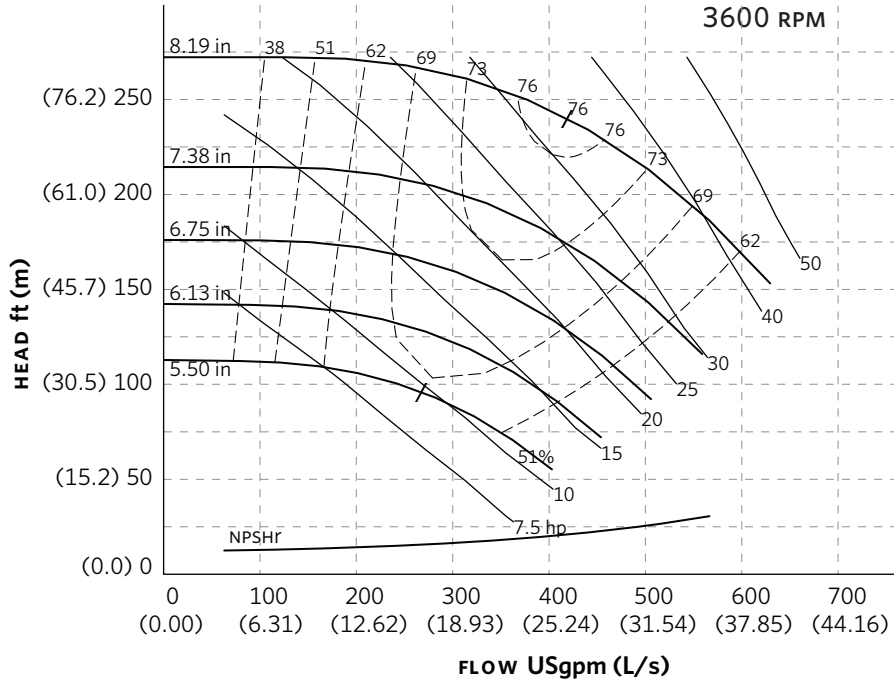
### OPTIONAL EQUIPMENT

| MOTOR FRAME | HORSEPOWER @ RPM |      |            |      | MAX. DIMENSIONS INCHES (mm) |                 |                 |                |               |                 |               |              |               |               |               | MAX. ASSEMBLY WEIGHT* |                |
|-------------|------------------|------|------------|------|-----------------------------|-----------------|-----------------|----------------|---------------|-----------------|---------------|--------------|---------------|---------------|---------------|-----------------------|----------------|
|             | 3600             |      | 1800       | 1200 | HA                          | HB              | HC              | HD             | HE            | HF              | HG            | HH           | HL            | X             | Y             | ODP                   | TEFC           |
|             | ODP              | TEFC |            |      |                             |                 |                 |                |               |                 |               |              |               |               |               |                       |                |
| 56C         | —                | —    | —          | 0.5  | 14.00<br>(356)              | 30.00<br>(762)  | 26.24<br>(667)  | 10.25<br>(260) | 6.38<br>(162) | 26.00<br>(660)  | 3.00<br>(76)  | 0.75<br>(19) | 4.50<br>(114) | 9.50<br>(241) | 4.00<br>(102) | 148<br>(67.1)         | 148<br>(67.1)  |
| 143TC       | —                | —    | —          | 0.75 | 14.00<br>(356)              | 30.00<br>(762)  | 27.89<br>(708)  | 10.25<br>(260) | 6.38<br>(162) | 26.00<br>(660)  | 3.00<br>(76)  | 0.75<br>(19) | 4.50<br>(114) | 9.50<br>(241) | 4.00<br>(102) | 153<br>(69.4)         | 158<br>(71.7)  |
| 145TC       | —                | —    | 1.5<br>& 2 | 1    | 14.00<br>(356)              | 30.00<br>(762)  | 27.89<br>(708)  | 10.25<br>(260) | 6.38<br>(162) | 26.00<br>(660)  | 3.00<br>(76)  | 0.75<br>(19) | 4.50<br>(114) | 9.50<br>(241) | 4.00<br>(102) | 158<br>(71.7)         | 158<br>(71.7)  |
| 182TC       | —                | —    | 3          | 1.5  | 14.00<br>(356)              | 30.00<br>(762)  | 30.58<br>(777)  | 10.25<br>(260) | 6.38<br>(162) | 26.00<br>(660)  | 3.00<br>(76)  | 0.75<br>(19) | 4.50<br>(114) | 9.50<br>(241) | 4.00<br>(102) | 173<br>(78.5)         | 187<br>(84.8)  |
| 184TC       | —                | —    | 5          | 2    | 14.00<br>(356)              | 30.00<br>(762)  | 30.58<br>(777)  | 10.25<br>(260) | 6.38<br>(162) | 26.00<br>(660)  | 3.00<br>(76)  | 0.75<br>(19) | 4.50<br>(114) | 9.50<br>(241) | 4.00<br>(102) | 183<br>(83.0)         | 197<br>(89.4)  |
| 213TC       | —                | —    | 7.5        | —    | 14.00<br>(356)              | 33.00<br>(838)  | 34.26<br>(870)  | 10.25<br>(260) | 6.38<br>(162) | 29.00<br>(737)  | 3.00<br>(76)  | 0.75<br>(19) | 4.50<br>(114) | 9.50<br>(241) | 4.00<br>(102) | 213<br>(96.6)         | 228<br>(103.4) |
| 215TC       | 15               | —    | —          | —    | 14.00<br>(356)              | 33.00<br>(838)  | 34.26<br>(870)  | 10.25<br>(260) | 6.38<br>(162) | 29.00<br>(737)  | 3.00<br>(76)  | 0.75<br>(19) | 4.50<br>(114) | 9.50<br>(241) | 4.00<br>(102) | 223<br>(101.2)        | —              |
| 254TC       | 20               | 15   | —          | —    | 16.00<br>(406)              | 45.00<br>(1143) | 43.39<br>(1102) | 11.25<br>(286) | 7.38<br>(187) | 41.00<br>(1041) | 3.00<br>(76)  | 0.75<br>(19) | 4.50<br>(114) | 9.50<br>(241) | 4.00<br>(102) | 322<br>(146.1)        | 362<br>(164.2) |
| 256TC       | 25               | 20   | —          | —    | 16.00<br>(406)              | 45.00<br>(1143) | 43.39<br>(1102) | 11.25<br>(286) | 7.38<br>(187) | 41.00<br>(1041) | 3.00<br>(76)  | 0.75<br>(19) | 4.50<br>(114) | 9.50<br>(241) | 4.00<br>(102) | 332<br>(150.6)        | 382<br>(173.3) |
| 284TSC      | 30               | 25   | —          | —    | 19.00<br>(483)              | 48.00<br>(1219) | 44.63<br>(1134) | 12.25<br>(311) | 8.88<br>(225) | 44.00<br>(1118) | 4.00<br>(102) | 0.75<br>(19) | 4.50<br>(114) | 9.50<br>(241) | 4.00<br>(102) | 382<br>(173.3)        | 402<br>(182.3) |
| 286TSC      | 40               | 30   | —          | —    | 19.00<br>(483)              | 48.00<br>(1219) | 45.41<br>(1153) | 12.25<br>(311) | 8.88<br>(225) | 44.00<br>(1118) | 4.00<br>(102) | 0.75<br>(19) | 4.50<br>(114) | 9.50<br>(241) | 4.00<br>(102) | 462<br>(209.6)        | 472<br>(214.1) |
| 324TSC      | 50               | 40   | —          | —    | 19.00<br>(483)              | 48.00<br>(1219) | 47.78<br>(1214) | 12.25<br>(311) | 8.88<br>(225) | 44.00<br>(1118) | 4.00<br>(102) | 0.75<br>(19) | 4.50<br>(114) | 9.50<br>(241) | 4.00<br>(102) | 557<br>(252.7)        | 702<br>(318.4) |
| 326TSC      | —                | 50   | —          | —    | 19.00<br>(483)              | 48.00<br>(1219) | 47.78<br>(1214) | 12.25<br>(311) | 8.88<br>(225) | 44.00<br>(1118) | 4.00<br>(102) | 0.75<br>(19) | 4.50<br>(114) | 9.50<br>(241) | 4.00<br>(102) | —                     | 782<br>(354.7) |

\*Assembly weight combines pump and motor.



**SERIES 4030 PERFORMANCE CURVES**



Performance curves are for reference only.  
 Confirm current performance data with Armstrong ACE Online selection software.

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