



# Submittal Data Information

## Plumb n' Plug®

### Domestic Hot Water Circulators

101-066

Effective: 06/08/25

Supersedes: 12/06/24

Job: \_\_\_\_\_ Engineer: \_\_\_\_\_ Contractor: \_\_\_\_\_ Rep: \_\_\_\_\_

| ITEM NO. | MODEL NO. |
|----------|-----------|
|          |           |

**General Product Information:**

Taco Plumb n' Plug® (PNP) Circulators periodically recirculate hot water through the domestic water piping system to decrease the delivery time to outlet fixtures and reduce wasted water. These UL-listed units feature quiet, efficient operation and low power consumption. Self lubricating, with no mechanical seal and Taco's unique replaceable cartridge design, Plumb n' Plug® circulators are field serviceable and maintenance free. An optional Aquastat is available to maintain temperature between 95°F and 115°F.

**Performance Data:**

|                            |  |
|----------------------------|--|
| Flow Range:                | 0 - 7 GPM (003), 0 - 19.5 GPM (005)    |
|                            | 0 - 11.5 GPM (006)                     |
| Head Range:                | 0 - 4.5 Feet (003), 0 - 8.5 Feet (005) |
|                            | 0 - 9.5 Feet (006)                     |
| Minimum Fluid Temperature: | 40°F (4°C)                             |
| Maximum Fluid Temperature: | 220°F (104°C)                          |
| Maximum Working Pressure:  | 125 PSI                                |

**Features:**

- UL Listed
- Optional 95°F -115°F Aquastat Available
- Standard High Capacity Output
- Compact Design
- Quiet, Efficient Operation
- Direct Drive - Low Power Consumption
- Unique Replaceable Cartridge Design - Field Serviceable
- Self Lubricating
- No Mechanical Seal
- Unmatched Reliability - Maintenance Free
- Sweat Connections - Bronze
- Union & Threaded Connections - Stainless Steel
- Flanged - Stainless Steel

**Materials of Construction:****CIRCULATOR:**

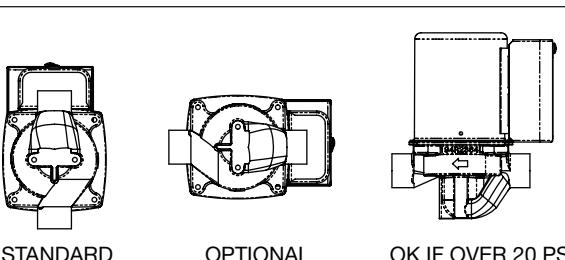
Casing (Volute): Bronze or Stainless Steel  
 Stator Housing: Steel  
 Cartridge: Stainless Steel  
 Impeller: Non-Metallic  
 Shaft: Ceramic  
 Bearings: Carbon  
 O-Ring & Gaskets: EPDM

**INTEGRAL FLOW CHECK (IFC®):**

Body & Plunger: Acetal  
 Spring: Stainless Steel  
 O-Ring: EPDM

**Model Nomenclature:**

BC – Bronze, 1/2" Sweat  
 B – Bronze, 3/4" Sweat  
 ST – Stainless Steel, 3/4" FNPT  
 SC – Stainless Steel, Union Connection  
 SF – Stainless Steel, Flanged  
 PNP – Plumb n' Plug®

**Mounting Positions:****Electrical Data:**

| MODEL      | VOLTS  | Hz | Ph | AMPS | RPM  | HP   |
|------------|--|----|----|------|------|------|
| 003        | 115  | 60 | 1  | 0.45 | 3250 | 1/40 |
| 005        |  |    |    | 0.54 |      |      |
| 006        |  |    |    | 0.52 |      |      |
| 006 (IFC)  |  |    |    | 0.57 |      |      |
| Motor Type | Permanent Split Capacitor, Impedance Protected |    |    |      |      |      |

Certified to  
NSF/ANSI/CAN  
61 & 372

FOR INDOOR USE ONLY

## **ANALOG TIMER OPTION:**

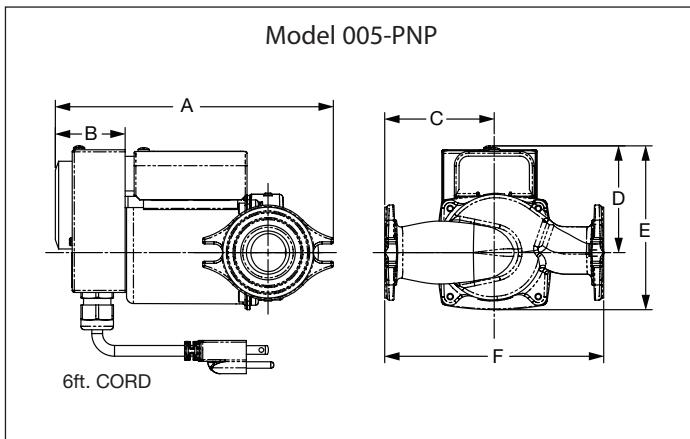
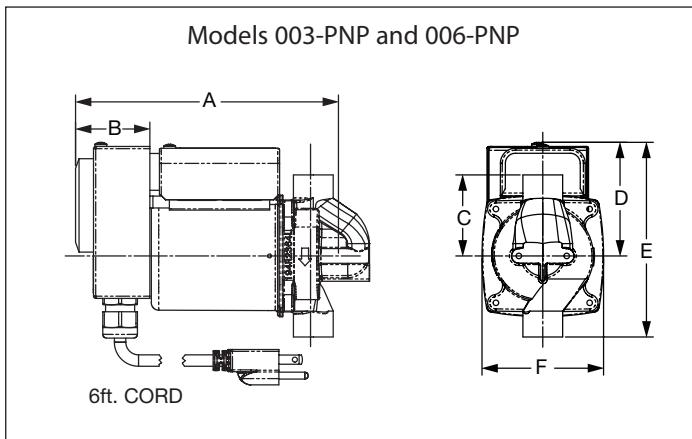
### Application:

The Plumb n'Plug with analog timer will cycle the circulator during peak usage periods such as early morning or early evening. An optional aquastat is available for constant circulation applications to maintain temperature between 95°F and 115°F. The Taco 003-PNP is ideal for recirculation loops. Its design operating condition of 3 gpm at 3 feet of head helps to reduce erosion, corrosion and noise in system piping. Use the 003-PNP for systems up to 200 total feet (supply and return) of 3/4" pipe. The Taco 005 and 006 PNP is designed for systems using 200-400 feet of 3/4" pipe. Installation of isolation valves, pipe insulation and flow checks are recommended.

## Analog Features:

- 24 Hour Analog Timer
- 15 Minute ON/OFF intervals
- Easy-to-Use Clock Timer
- Factory installed 6' line cord

## **Pump Dimensions & Weights:**



| ANALOG TIMER |            |       |     |         |    |         |    |        |      |       |     |        |     |           |     |  |  |  |  |
|--------------|------------|-------|-----|---------|----|---------|----|--------|------|-------|-----|--------|-----|-----------|-----|--|--|--|--|
| MODEL        | CONNECTION | A     |     | B       |    | C       |    | D      |      | E     |     | F      |     | SHIP WGT. |     |  |  |  |  |
|              |            | in.   | mm  | in.     | mm | in.     | mm | in.    | mm   | in.   | mm  | in.    | mm  | lbs.      | kg  |  |  |  |  |
| 003-BC4-PNP  | 1/2" Sweat | 7 1/4 | 184 | 1 15/16 | 49 | 2 1/8   | 54 | 3 1/16 | 77.8 | 5 1/4 | 134 | 3 5/16 | 84  | 7.0       | 3.2 |  |  |  |  |
| 003-B4-PNP   | 3/4" Sweat |       |     |         |    | 2 3/16  | 56 |        |      |       |     |        |     |           |     |  |  |  |  |
| 003-ST4-PNP  | 3/4" FNPT  |       |     |         |    | 2       | 51 |        |      |       |     |        |     |           |     |  |  |  |  |
| 003-SC4-1PNP | Union      |       |     |         |    | 2 31/32 | 76 |        |      | 6     | 152 |        |     |           |     |  |  |  |  |
| 006-BC4-PNP  | 1/2" Sweat | 7 1/4 | 184 |         |    | 2 1/8   | 54 | 3 1/16 | 77.8 | 5 1/4 | 134 | 3 5/16 | 84  |           |     |  |  |  |  |
| 006-B4-PNP   | 3/4" Sweat |       |     |         |    | 2 3/16  | 56 |        |      |       |     |        |     |           |     |  |  |  |  |
| 006-ST4-PNP  | 3/4" FNPT  |       |     |         |    | 2       | 51 |        |      |       |     |        |     |           |     |  |  |  |  |
| 006-SC4-1PNP | Union      |       |     |         |    | 2 31/32 | 76 |        |      | 6     | 152 |        |     |           |     |  |  |  |  |
| 005-SF2-PNP  | SS Flanged | 8 1/8 | 205 |         |    | 3 5/32  | 80 | 3 3/32 | 78.6 | 4 3/4 | 121 | 6 3/8  | 162 |           |     |  |  |  |  |

| ANALOG TIMER with INTEGRAL FLOW CHECK (IFC)® |            |       |     |         |    |        |    |        |      |       |     |        |     |           |     |
|--|------------|-------|-----|---------|----|--------|----|--------|------|-------|-----|--------|-----|-----------|-----|
| MODEL  | CONNECTION | A     |     | B       |    | C      |    | D      |      | E     |     | F      |     | SHIP WGT. |     |
|  |            | in.   | mm  | in.     | mm | in.    | mm | in.    | mm   | in.   | mm  | in.    | mm  | lbs.      | kg  |
| 003-BC4-3PNP                                 | 1/2" Sweat | 8 1/8 | 205 | 1 15/16 | 49 | 2 3/16 | 56 | 3 1/16 | 77.8 | 5 1/4 | 134 | 3 5/16 | 84  | 7.0       | 3.2 |
| 003-B4-2PNP                                  | 3/4" Sweat |       |     |         |    | 2 3/16 | 56 | 3 1/16 | 77.8 | 5 1/4 | 134 | 3 5/16 | 84  |           |     |
| 006-BC7-1PNP                                 | 1/2" Sweat |       |     |         |    | 3 5/32 | 80 | 3 3/32 | 78.6 | 4 3/4 | 121 | 6 3/8  | 162 |           |     |
| 006-BC7-PNP                                  | 3/4" Sweat |       |     |         |    | 3 5/32 | 80 | 3 3/32 | 78.6 | 4 3/4 | 121 | 6 3/8  | 162 |           |     |
| 005-SF2-1PNP                                 | SS Flanged |       |     |         |    | 3 5/32 | 80 | 3 3/32 | 78.6 | 4 3/4 | 121 | 6 3/8  | 162 |           |     |

## DIGITAL TIMER OPTION:

### Application:

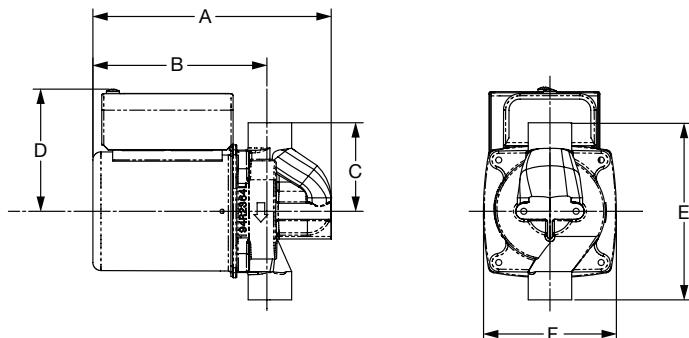
Twenty-eight programmable events allow you to customize the hot water run times to meet the household demand. Its intuitive logic can automatically adjust to daylight savings time, and the convenient dial simplifies programming. A battery backup will retain your settings for up to three months with no power. An optional Aquastat is available for constant circulation applications to maintain temperature between 95°F and 115°F. Taco 003-RECIRC is ideal for recirculation loops. Its design operating condition of 3 gpm at 3 feet of head helps to reduce erosion and noise in system piping. Use the 003-RECIRC for systems up to 200 total feet (supply and return) of 3/4" pipe. Installation of isolation valves pipe insulation and flow checks are recommended.

### Digital Features:

- 7-day digital plug-in timer
- 28 ON/OFF programmable events
- Convenient dial simplifies programming
- Automatic daylight savings time adjustment
- Battery backup

### Pump Dimensions & Weights:

Models 003-RECIRC and 006-RECIRC with Digital Timer



| DIGITAL TIMER  |            |       |     |       |     |        |    |        |    |         |     |        |    |           |     |
|----------------|------------|-------|-----|-------|-----|--------|----|--------|----|---------|-----|--------|----|-----------|-----|
| MODEL          | CONNECTION | A     |     | B     |     | C      |    | D      |    | E       |     | F      |    | SHIP WGT. |     |
|                |            | in.   | mm  | in.   | mm  | in.    | mm | in.    | mm | in.     | mm  | in.    | mm | lbs.      | kg  |
| 003B-RECIRC-DT | 1/2" Sweat | 5-1/8 | 130 | 4-1/8 | 105 | 2-3/16 | 56 | 3-1/16 | 78 | 4-13/32 | 112 | 3-5/16 | 84 | 6.0       | 2.8 |
| 006B-RECIRC-DT | 3/4" Sweat | 5-1/8 | 130 | 4-1/8 | 105 | 2-1/8  | 54 | 3-1/16 | 78 | 4-1/4   | 108 | 3-5/16 | 84 | 6.0       | 2.8 |

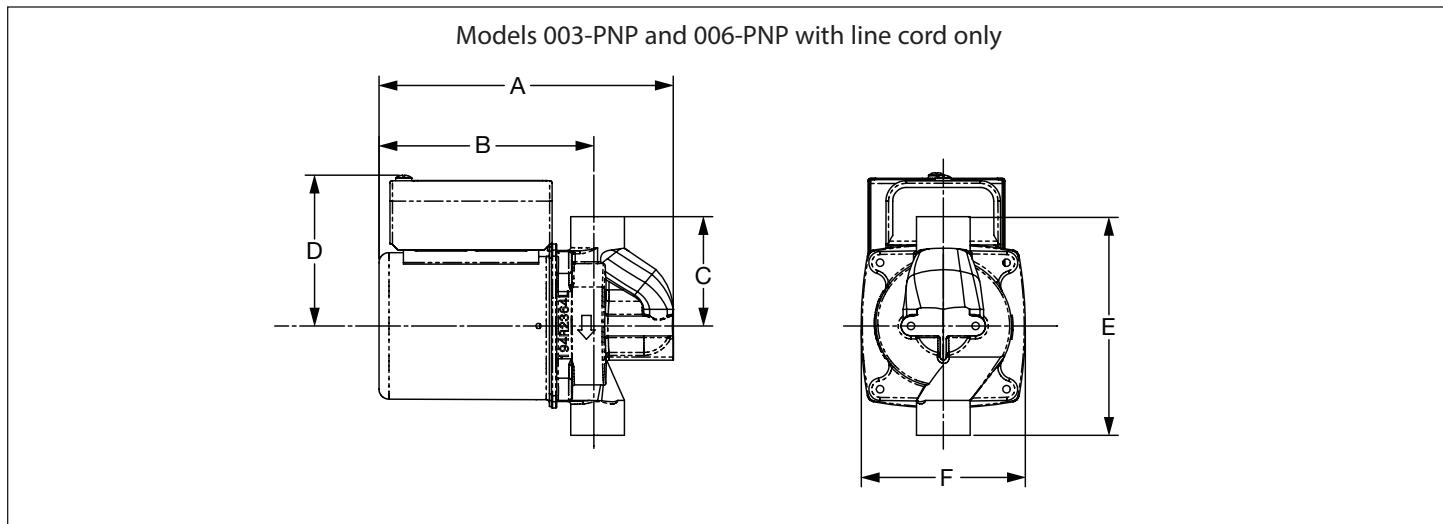
| DIGITAL TIMER with INTEGRAL FLOW CHECK (IFC)® |            |     |     |       |     |        |    |         |    |       |     |        |    |           |     |
|---|------------|-----|-----|-------|-----|--------|----|---------|----|-------|-----|--------|----|-----------|-----|
| MODEL   | CONNECTION | A   |     | B     |     | C      |    | D       |    | E     |     | F      |    | SHIP WGT. |     |
|   |            | in. | mm  | in.   | mm  | in.    | mm | in.     | mm | in.   | mm  | in.    | mm | lbs.      | kg  |
| 006B-RECIRC-DT-IFC                            | 3/4" Sweat | 6   | 152 | 4-7/8 | 124 | 2-3/16 | 56 | 2-15/16 | 75 | 4-3/8 | 111 | 3-5/16 | 84 | 6.0       | 2.8 |

#### **LINE CORD ONLY OPTION:**

### Application:

For recirculation systems setup for constant circulation or with an optional aquastat control, use Plumb n'Plug® with line cord only. Simply plumb it in and plug it in. Taco 003-PNP is ideal for recirculation loops. Its design operating condition of 3 gpm at 3 feet of head helps to reduce erosion and noise in system piping. Use the 003-PNP for systems up to 200 total feet (supply and return) of 3/4" pipe. Installation of isolation valves, pipe insulation and flow checks are recommended.

## **Pump Dimensions & Weights:**



| LINE CORD ONLY |            |        |     |         |     |         |    |        |    |         |     |        |    |           |     |
|----------------|------------|--------|-----|---------|-----|---------|----|--------|----|---------|-----|--------|----|-----------|-----|
| MODEL          | CONNECTION | A      |     | B       |     | C       |    | D      |    | E       |     | F      |    | SHIP WGT. |     |
|                |            | in.    | mm  | in.     | mm  | in.     | mm | in.    | mm | in.     | mm  | in.    | mm | lbs.      | kg  |
| 003-BC4-4PNP   | 1/2" Sweat | 5 1/8  | 130 | 4 1/8   | 105 | 2 3/16  | 56 | 3 1/16 | 78 | 4 13/32 | 112 | 3 5/16 | 84 | 6.5       | 2.9 |
| 003-B4-1PNP    | 3/4" Sweat |        |     |         |     | 2 1/8   | 54 |        |    | 4 1/4   | 108 |        |    |           |     |
| 003-ST4-1PNP   | 3/4" FNPT  | 5 5/8  | 143 | 4 7/8   | 124 | 2       | 51 |        |    | 4       | 102 |        |    |           |     |
| 003-SC4-2PNP   | Union      | 5 5/32 | 131 | 4 11/32 | 110 | 2 3/132 | 76 |        |    | 5 15/16 | 151 |        |    |           |     |
| 006-BC4-2PNP   | 1/2" Sweat | 5 1/8  | 130 | 4 1/8   | 105 | 2 3/16  | 56 |        |    | 4 13/32 | 112 |        |    |           |     |
| 006-B4-1PNP    | 3/4" Sweat |        |     |         |     | 2 1/8   | 54 |        |    | 4 1/4   | 108 |        |    |           |     |
| 006-ST4-1PNP   | 3/4" FNPT  | 5 5/8  | 143 | 4 7/8   | 124 | 2       | 51 |        |    | 4       | 102 |        |    |           |     |
| 006-SC4-2PNP   | Union      | 5 5/32 | 131 | 4 11/32 | 110 | 2 3/132 | 76 |        |    | 5 15/16 | 151 |        |    |           |     |

## PERFORMANCE FIELD INFORMATION (60 Hz)

