

## Circulator pumps

### 60 Hz



|                                               |           |                                          |           |
|-----------------------------------------------|-----------|------------------------------------------|-----------|
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# 1. Cross-reference charts

## Cross-reference for competitive 3-speed pumps

| Competitor cross-reference                 |       |                                                                                                   |                                                           |                                                          |
|--------------------------------------------|-------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|
| Model                                      | Speed | TACO*                                                                                             | Bell & Gossett*                                           | Armstrong*                                               |
| ALPHA2 15-55 FC/FRC<br>ALPHA1 15-55 FC/FRC | High  | 005F, 006F7, 007F, 008F, 0010F, 00R-MSF1-IFC, 0015, VR1816, VT2218, 0015e                         | NRF-22, LR-20WR, Ecocirc 19-14 auto, vario                | Astro 30, Astro 30-(3), Astro 50-3, Astro 230CI, Compass |
|                                            | Med.  | 005F-(IFC), 007F-(IFC), 008F-(IFC), 0010F-IFC, 00R-IFC, 00R-MSF1-IFC, VT2218, VR1816, 0015e, 007e | NRF9F/LW, NRF-25, Ecocirc 19-14 auto, vario               | Astro 25, Astro 30-3, Compass                            |
|                                            | Low   | 005F-(IFC), 006F-(IFC), 00R-MSF1-IFC, VT2218, VR1816, 0015e                                       | Ecocirc 19-14 auto, vario                                 | Astro 20, Compass                                        |
| UPS 15-58 FC/FRC                           | High  | 005F, 007F, 008F, 0010F, 00R-MSF1-IFC, 0015                                                       | NRF-22, LR-20WR                                           | Astro 30, Astro 30-(3), Astro 50-3, Astro 230CI          |
|                                            | Med.  | 005F-(IFC), 007F-(IFC), 008F-(IFC), 0010F-IFC, 00R-IFC, 00R-MSF1-IFC                              | NRF9F/LW, NRF-25                                          | Astro 25, Astro 30-3                                     |
|                                            | Low   | 005F-(IFC), 006F-(IFC), 00R-MSF1-IFC                                                              |                                                           | Astro 20                                                 |
| UPS 26-99 FC/SFC                           | High  | 0013(B)-IFC                                                                                       | NRF-36 Sp-2, NRF-45 Sp-2, H-41(B)                         | E7(B), Astro 50(B)-(3)                                   |
|                                            | Med.  | 0011(B)-(IFC), 0014(B)-(IFC)                                                                      | Series 100, PL-30, PR, NRF-36, Sp-1, NRF-45 Sp-1          | Astro 50(B), H41                                         |
|                                            | Low   | -                                                                                                 | LR-15BWR                                                  | Astro 30(B)                                              |
| UPS 26-150 F/SF                            | High  | 1400-45(B), 1400-50(B), 2400-45                                                                   | PL-55(B)                                                  | E15(B)                                                   |
|                                            | Med.  | 0011(B, SF), 0013(B, SF), 1400-20(B), 1400-30(B), 1400-40(B), 2400-30                             | PL-36(B)                                                  | E8(B), E9(B), E11(B), E13(B)                             |
|                                            | Low   | 2400-20, 2400-40                                                                                  | NRF(NBF)-36 Sp-2 & 3                                      | E7(B), E10(B)                                            |
| UPS 43-44 FC/BFC                           | High  | 0012(B, SF)-(IFC), 113(B)                                                                         | HV, H-32(B)                                               | E16(B)                                                   |
|                                            | Med.  | 0010(B, SF)-(IFC), 111(B)                                                                         | NRF-33                                                    | H32                                                      |
|                                            | Low   | 0010-MSF1-IFC, 110(B)                                                                             | -                                                         | -                                                        |
| UPS 43-100 F/SF                            | High  | -                                                                                                 | H-51(B), H-52(B)                                          | E17(B)                                                   |
|                                            | Med.  | 1400-20(B), 1400-30(B), 1400-40(B), 1400-45(B), 2400-20, 2400-30                                  | PL-45(B), PL-50(B), NRF(NBF)-45 Sp-2 & 3, NRF-36 Sp-2 & 3 | E11(B), E15(B), E16(B)                                   |
|                                            | Low   | 2400-10                                                                                           | -                                                         | 10(B), E13(B)                                            |
| UPS 50-60 F/SF                             | High  | 1400-65 (B), 131(B), 2400-65                                                                      | PL-130(B), S-35(B)                                        | E19(B), E28(B), E29(B), E30(B)                           |
|                                            | Med.  | 1400-60(B), 121(B), 122(B), 131(B)                                                                | PL-50(B), PL-75(B)                                        | E28(B)                                                   |
|                                            | Low   | 120(B), 2400-60                                                                                   | -                                                         | E16(B)                                                   |
| UPS 15-35 SFC                              | High  | 005BF2-(IFC), 007(B, SF)-(IFC)                                                                    | NBF(SSF)-12F/LW                                           | SM-909-BF14, Astro 25B, Astro 30(B) Sp-2                 |
|                                            | Med.  | -                                                                                                 | -                                                         | Astro 20(B), Astro 30(B)-3 Sp-1 & 2                      |
|                                            | Low   | -                                                                                                 | -                                                         | -                                                        |
| UPS 15-35 SUC                              | High  | -                                                                                                 | NBF(SSF)-12U/LW                                           | Astro 25BU, Astro 220, 225SSU                            |
|                                            | Med.  | 006BC4-1, 006B7-IFC                                                                               | NBF-9U/LW                                                 | Astro 25BU, Astro 20, 25(BU)                             |
|                                            | Low   | 003-B4-2-IFC                                                                                      | -                                                         | -                                                        |

|                   |      |                                                                           |                             |                                                                          |
|-------------------|------|---------------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------------|
| UPS 15-35 SUC/TLC | High | -                                                                         | -                           | Astro 20, 25BU(LC, T),<br>Astro 25U-T                                    |
|                   | Med. | -                                                                         | -                           | Astro 25U-T                                                              |
|                   | Low  | -                                                                         | -                           | -                                                                        |
| UPS 15-55 SFC     | High | -                                                                         | -                           | Astro 30B-(3), Astro<br>230SS, Astro 30(B), SM-<br>909-BF14, SM-909-BF18 |
|                   | Med. | 005-(B, SF), 006-BF, 007-(B, SF)-<br>(IFC), 008-(B, SF)-(IFC), 00R-SF-IFC | LR-15B, NBF(SSF)-22, NBF-25 | Astro 30(B) Sp-2,<br>Astro 30(B)-3 Sp-1                                  |
|                   | Low  | -                                                                         | -                           | Astro 30(B) Sp-1,<br>Astro 50(B) Sp-1                                    |

\* Grundfos provides no guarantee as to the accuracy of competitor information listed herein.

## Reference for replacing TACO models

### Open systems: Stainless steel and lead-free bronze pump housings

| Competitor cross-reference for TACO                              |                          |                              |                                    |                          |                              |                                        |           |           |           |           |           |
|------------------------------------------------------------------|--------------------------|------------------------------|------------------------------------|--------------------------|------------------------------|----------------------------------------|-----------|-----------|-----------|-----------|-----------|
| Open systems: Stainless steel and lead-free bronze pump housings |                          |                              |                                    |                          |                              |                                        |           |           |           |           |           |
| TACO model                                                       | Port-to-port length [in] | Flange size/ connection type | Grundfos model                     | Port-to-port length [in] | Flange size/ connection type | Grundfos product number                |           |           |           |           |           |
|                                                                  |                          |                              |                                    |                          |                              | 1 x 115 V                              | 1 x 208 V | 1 x 230 V | 3 x 208 V | 3 x 230 V | 3 x 460 V |
| 00R-SF6-IFC                                                      | 6 3/8                    | 2-bolt flange                | UPS 15-55 SFC                      | 6 1/2                    | 2-bolt flange*               | 59896773                               | -         | -         | -         | -         | -         |
|                                                                  |                          |                              | ALPHA2 15-55 SFC, ALPHA1 15-55 SFC | 6 1/2                    | 2-bolt flange*               | 99163937, 99163972, 99287250, 99287262 | -         | -         | -         | -         | -         |
| 00R-SF6-1IFC                                                     | 6 3/8                    | 2-bolt flange-R              | UPS 15-55 SFC                      | 6 1/2                    | 2-bolt flange                | 59896773                               | -         | -         | -         | -         | -         |
|                                                                  |                          |                              | ALPHA2 15-55 SFC, ALPHA1 15-55 SFC | 6 1/2                    | 2-bolt flange                | 99163937, 99163972, 99287250, 99287262 | -         | -         | -         | -         | -         |
| 003-B4                                                           | 4 13/32                  | 3/4" sweat                   | UP 15-10 B7                        | 5                        | 3/4" sweat                   | 59896226                               | -         | -         | -         | -         | -         |
| 003-B4-PNP                                                       | 3 5/16                   | 3/4" sweat                   | UP 15-10 B7/TLC                    | 5                        | 3/4" sweat                   | 99452455                               | -         | -         | -         | -         | -         |
| 003-B4-1PNP                                                      | 3 5/16                   | 3/4" sweat                   | UP 15-10 B7/LC                     | 5                        | 3/4" sweat                   | 59896209                               | -         | -         | -         | -         | -         |
| 003-B4-2IFC                                                      | 5 15/16                  | Union                        | -                                  | -                        | -                            | -                                      | -         | -         | -         | -         | -         |
| 003-B4-2PNP                                                      | 3 5/16                   | 3/4" sweat                   | UP 15-10 B7/TLC                    | 5                        | 3/4" sweat                   | 99452455                               | -         | -         | -         | -         | -         |
| 003-B4-3PNP                                                      | 5 15/16                  | Union                        | -                                  | -                        | -                            | -                                      | -         | -         | -         | -         | -         |
| 003-B4-4PNP                                                      | 5 15/16                  | Union                        | -                                  | -                        | -                            | -                                      | -         | -         | -         | -         | -         |
| 003-BC                                                           | 4 13/32                  | 1/2" sweat                   | UP 15-10 B5                        | 5                        | 1/2" sweat                   | 59896213                               | -         | -         | -         | -         | -         |
| 003-BC-1                                                         | 6                        | Union                        | -                                  | -                        | -                            | -                                      | -         | -         | -         | -         | -         |
| 003-BC4                                                          | 4 1/4                    | 1/2" sweat                   | UP 15-10 B5                        | 5                        | 1/2" sweat                   | 59896213                               | -         | -         | -         | -         | -         |
| 003-BC4-1                                                        | 5 15/16                  | Union                        | -                                  | -                        | -                            | -                                      | -         | -         | -         | -         | -         |
| 003-BC4-1IFC                                                     | 4 3/8                    | 1/2" sweat                   | UP 15-10 BUC5                      | 5                        | 1/2" sweat                   | 59896225                               | -         | -         | -         | -         | -         |
| 003-BC4-IFC                                                      | 4 3/8                    | 3/4" sweat                   | UP 15-10 BUC7                      | 5                        | 3/4" sweat                   | 59896241                               | -         | -         | -         | -         | -         |
| 003-BC4-PNP                                                      | 3 5/16                   | 1/2" sweat                   | UP 15-10 B5/TLC                    | 5                        | 1/2" sweat                   | 99452454                               | -         | -         | -         | -         | -         |
| 003-BC4-1PNP                                                     | 5 15/16                  | Union                        | -                                  | -                        | -                            | -                                      | -         | -         | -         | -         | -         |
| 003-BC4-2PNP                                                     | 3 5/16                   | 3/4" sweat                   | UP 15-10 BUC7/TLC                  | 5                        | 3/4" sweat                   | 99452458                               | -         | -         | -         | -         | -         |
| 003-BC4-3PNP                                                     | 3 5/16                   | 1/2" sweat                   | UP 15-10 BUC5/TLC                  | 5                        | 1/2" sweat                   | 99452457                               | -         | -         | -         | -         | -         |
| 003-BC4-4PNP                                                     | 3 5/16                   | 1/2" sweat                   | UP 15-10 B5/LC                     | 5                        | 1/2" sweat                   | 59896214                               | -         | -         | -         | -         | -         |
| 003-BC4-5PNP                                                     | 5 15/16                  | Union                        | -                                  | -                        | -                            | -                                      | -         | -         | -         | -         | -         |
| 003-BC4-6PNP                                                     | 3 5/16                   | 3/4" sweat                   | UP 15-10 BUC7/LC                   | 5                        | 3/4" sweat                   | 59896239                               | -         | -         | -         | -         | -         |
| 003-BC4-7PNP                                                     | 3 5/16                   | 1/2" sweat                   | UP 15-10 BUC5/LC                   | 5                        | 1/2" sweat                   | 59896237                               | -         | -         | -         | -         | -         |
| 003-BC4-8PNP                                                     | 3 5/16                   | 1/2" sweat                   | UP 15-10 B5/TLC                    | 5                        | 1/2" sweat                   | 99452454                               | -         | -         | -         | -         | -         |
| 003-BC4-9PNP                                                     | 5 15/16                  | Union                        | -                                  | -                        | -                            | -                                      | -         | -         | -         | -         | -         |
| 003-BC4-10PNP                                                    | 3 5/16                   | 3/4" sweat                   | UP 15-10 BUC7/TLC                  | 5                        | 3/4" sweat                   | 99452458                               | -         | -         | -         | -         | -         |
| 003-BC4-11PNP                                                    | 3 5/16                   | 1/2" sweat                   | UP 15-10 BUC5/TLC                  | 5                        | 1/2" sweat                   | 99452457                               | -         | -         | -         | -         | -         |
| 003-BT4-PNP                                                      | 4                        | 3/4" FNPT                    | -                                  | -                        | -                            | -                                      | -         | -         | -         | -         | -         |
| 003-BT4-1PNP                                                     | 4                        | 3/4" FNPT                    | -                                  | -                        | -                            | -                                      | -         | -         | -         | -         | -         |
| 003-BT4-2PNP                                                     | 4                        | 3/4" FNPT                    | -                                  | -                        | -                            | -                                      | -         | -         | -         | -         | -         |
| 003-SC4-1                                                        | 5 15/16                  | Union                        | UP 15-35 SUC                       | 5 7/8                    | GU 125                       | 59896778                               | -         | -         | -         | -         | -         |
| 003-SC4-IFC                                                      | 5 15/16                  | Union                        | UP 15-35 SUC                       | 5 7/8                    | GU 125                       | 59896778                               | -         | -         | -         | -         | -         |
| 003-SC4-1PNP                                                     | 3 5/16                   | Union                        | UPS 15-35 SUC/TLC                  | 5 7/8                    | GU 125                       | 99452478                               | -         | -         | -         | -         | -         |
| 003-SC4-2PNP                                                     | 3 5/16                   | Union                        | UPS 15-35 SUC/TLC                  | 5 7/8                    | GU 125                       | 99452478                               | -         | -         | -         | -         | -         |
| 003-SC4-3PNP                                                     | 3 5/16                   | Union                        | UPS 15-35 SUC/TLC                  | 5 7/8                    | GU 125                       | 99452478                               | -         | -         | -         | -         | -         |
| 003-SC4-4PNP                                                     | 3 5/16                   | Union                        | UPS 15-35 SUC/TLC                  | 5 7/8                    | GU 125                       | 99452478                               | -         | -         | -         | -         | -         |
| 003-ST4                                                          | 4                        | 3/4" NPT                     | -                                  | -                        | -                            | -                                      | -         | -         | -         | -         | -         |
| 003-ST4-PNP                                                      | 3 5/16                   | 3/4" FNPT                    | -                                  | -                        | -                            | -                                      | -         | -         | -         | -         | -         |
| 003-ST4-1PNP                                                     | 3 5/16                   | 3/4" FNPT                    | -                                  | -                        | -                            | -                                      | -         | -         | -         | -         | -         |
| 003-ST4-2PNP                                                     | 3 5/16                   | 3/4" FNPT                    | -                                  | -                        | -                            | -                                      | -         | -         | -         | -         | -         |
| 003-VRFBC4                                                       | 4 3/8                    | 1/2" sweat                   | UP 15-42 BUC5/MR                   | 6 1/2                    | 1/2" sweat                   | 59896805                               | -         | -         | -         | -         | -         |
| 003-VRBC4-1IFC                                                   | 4 3/8                    | 1/2" sweat                   | UP 15-42 BUC5/MR                   | 6 1/2                    | 1/2" sweat                   | 59896805                               | -         | -         | -         | -         | -         |
| 003-VRFB4                                                        | 4 3/8                    | 3/4" sweat                   | UP 15-42 BUC7/MR                   | 7 1/4                    | 3/4" sweat                   | 59896806                               | -         | -         | -         | -         | -         |

\* May not match specific competitive flange orientation.

Grundfos provides no guarantee as to the accuracy of competitor information listed herein.

| Competitor cross-reference for TACO                              |                          |                              |                   |                          |                              |                         |           |           |           |           |           |
|------------------------------------------------------------------|--------------------------|------------------------------|-------------------|--------------------------|------------------------------|-------------------------|-----------|-----------|-----------|-----------|-----------|
| Open systems: Stainless steel and lead-free bronze pump housings |                          |                              |                   |                          |                              |                         |           |           |           |           |           |
| TACO model                                                       | Port-to-port length [in] | Flange size/ connection type | Grundfos model    | Port-to-port length [in] | Flange size/ connection type | Grundfos product number |           |           |           |           |           |
|                                                                  |                          |                              |                   |                          |                              | 1 x 115 V               | 1 x 208 V | 1 x 230 V | 3 x 208 V | 3 x 230 V | 3 x 460 V |
| 003-VRBC4-IFC                                                    | 4 3/8                    | 3/4" sweat                   | UP 15-42 BUC7/MR  | 7 1/4                    | 3/4" sweat                   | 59896806                | -         | -         | -         | -         | -         |
| 003-VVBC4                                                        | 4 3/8                    | 1/2" sweat                   | -                 | -                        | -                            | -                       | -         | -         | -         | -         | -         |
| 003-VVBC4-1IFC                                                   | 4 3/8                    | 1/2" sweat                   | -                 | -                        | -                            | -                       | -         | -         | -         | -         | -         |
| 003-VVB4                                                         | 4 3/8                    | 3/4" sweat                   | -                 | -                        | -                            | -                       | -         | -         | -         | -         | -         |
| 003-VVBC4-IFC                                                    | 4 3/8                    | 3/4" sweat                   | -                 | -                        | -                            | -                       | -         | -         | -         | -         | -         |
| 005-BF2                                                          | 6 3/8                    | 2-bolt flange-R              | UPS 15-29 SF      | 6 1/2                    | 2-bolt flange                | 59896771                | -         | -         | -         | -         | -         |
| 005-BF2-IFC                                                      | 6 3/8                    | 2-bolt flange-R              | -                 | -                        | -                            | -                       | -         | -         | -         | -         | -         |
| 005-SF2                                                          | 6 3/8                    | 2-bolt flange                | UPS 15-29 SF      | 6 1/2                    | 2-bolt flange*               | 59896771                | -         | -         | -         | -         | -         |
| 005-SF2-IFC                                                      | 6 3/8                    | 2-bolt flange-R              | -                 | -                        | -                            | -                       | -         | -         | -         | -         | -         |
| 005-SF2-PNP                                                      | 6 3/8                    | 2-bolt flange-R              | UPS 15-29 SUC/TLC | 5 7/8                    | GU 125*                      | 99452462                | -         | -         | -         | -         | -         |
| 005-SF2-1PNP                                                     | 6 3/8                    | 2-bolt flange-R              | UPS 15-29 SUC/TLC | 5 7/8                    | GU 125*                      | 99452462                | -         | -         | -         | -         | -         |
| 006-B                                                            | 4 1/4                    | 3/4" sweat                   | UP 15-18 B7       | 6 3/8                    | 3/4" sweat                   | 59896121                | -         | 59896119  | -         | -         | -         |
| 006-B4                                                           | 4 13/32                  | 3/4" sweat                   | UP 15-18 B7       | 6 3/8                    | 3/4" sweat                   | 59896121                | -         | 59896119  | -         | -         | -         |
| 006-B4-PNP                                                       | 4 1/4                    | 3/4" sweat                   | UP 15-18 B7/TLC   | 6 3/8                    | 3/4" sweat                   | 99452461                | -         | -         | -         | -         | -         |
| 006-B4-1PNP                                                      | 4 1/4                    | 3/4" sweat                   | UP 15-18 B7/LC    | 6 3/8                    | 3/4" sweat                   | 59896229                | -         | -         | -         | -         | -         |
| 006-B4-2PNP                                                      | 4 1/4                    | 3/4" sweat                   | UP 15-18 B7/TLC   | 6 3/8                    | 3/4" sweat                   | 99452461                | -         | -         | -         | -         | -         |
| 006-B7-IFC                                                       | 5 15/16                  | 3/4" sweat                   | UP 15-18 BUC7     | 6 3/8                    | 3/4" sweat                   | 59896124                | -         | -         | -         | -         | -         |
| 006-BC4                                                          | 4 1/4                    | 1/2" sweat                   | UP 15-18 B5       | 5                        | 1/2" sweat                   | 59896114                | -         | 59896118  | -         | -         | -         |
| 006-BC4-PNP                                                      | 4 13/32                  | 1/2" sweat                   | UP15-18 B5/TLC    | 5                        | 1/2" sweat                   | 99452460                | -         | -         | -         | -         | -         |
| 006-BC4-1PNP                                                     | 5 15/16                  | Union                        | -                 | -                        | -                            | -                       | -         | -         | -         | -         | -         |
| 006-BC4-2PNP                                                     | 4 13/32                  | 1/2" sweat                   | UP 15-18 B5/LC    | 5                        | 1/2" sweat                   | 59896211                | -         | -         | -         | -         | -         |
| 006-BC4-3PNP                                                     | 5 15/16                  | Union                        | -                 | -                        | -                            | -                       | -         | -         | -         | -         | -         |
| 006-BC4-4PNP                                                     | 4 13/32                  | 1/2" sweat                   | UP15-18 B5/TLC    | 5                        | 1/2" sweat                   | 99452460                | -         | -         | -         | -         | -         |
| 006-BC4-5PNP                                                     | 5 15/16                  | Union                        | -                 | -                        | -                            | -                       | -         | -         | -         | -         | -         |
| 006-BC7-PNP                                                      | 4 3/8                    | 3/4" sweat                   | -                 | -                        | -                            | -                       | -         | -         | -         | -         | -         |
| 006-BC7-1PNP                                                     | 4 13/32                  | 1/2" sweat                   | UP 15-18 BUC5     | 6 1/2                    | 1/2" sweat                   | 59896123                | -         | -         | -         | -         | -         |
| 006-BC7-2PNP                                                     | 4 3/8                    | 3/4" sweat                   | -                 | -                        | -                            | -                       | -         | -         | -         | -         | -         |
| 006-BC7-3PNP                                                     | 4 13/32                  | 3/4" sweat                   | -                 | -                        | -                            | -                       | -         | -         | -         | -         | -         |
| 006-BC7-4PNP                                                     | 4 3/8                    | 3/4" sweat                   | -                 | -                        | -                            | -                       | -         | -         | -         | -         | -         |
| 006-BC7-5PNP                                                     | 4 13/32                  | 1/2" sweat                   | -                 | -                        | -                            | -                       | -         | -         | -         | -         | -         |
| 006-BC7-IFC                                                      | 4 3/8                    | 3/4" sweat                   | UP 15-18 BUC7     | 7 1/4                    | 3/4" sweat                   | 59896124                | -         | -         | -         | -         | -         |
| 006-BC7-1IFC                                                     | 4 3/8                    | 1/2" sweat                   | UP 15-18 BUC5     | 7 1/4                    | 1/2" sweat                   | 59896123                | -         | -         | -         | -         | -         |
| 006-BT4                                                          | 4                        | 3/4" FNPT                    | -                 | -                        | -                            | -                       | -         | -         | -         | -         | -         |
| 006-BT4-PNP                                                      | 4                        | 3/4" FNPT                    | -                 | -                        | -                            | -                       | -         | -         | -         | -         | -         |
| 006-BT4-2PNP                                                     | 4                        | 3/4" FNPT                    | -                 | -                        | -                            | -                       | -         | -         | -         | -         | -         |
| 006-BT4-3PNP                                                     | 4                        | 3/4" FNPT                    | -                 | -                        | -                            | -                       | -         | -         | -         | -         | -         |
| 006-SC4-1                                                        | 5 15/16                  | Union                        | UPS 15-35 SUC     | 5 7/8                    | GU 125                       | 59896778                | -         | -         | -         | -         | -         |
| 006-SC4-1PNP                                                     | 3 5/16                   | Union                        | UPS 15-35 SUC/TLC | 5 7/8                    | GU 125                       | 99452478                | -         | -         | -         | -         | -         |
| 006-SC4-2PNP                                                     | 3 5/16                   | Union                        | UPS 15-35 SUC/TLC | 5 7/8                    | GU 125                       | 99452478                | -         | -         | -         | -         | -         |
| 006-SC4-3PNP                                                     | 3 5/16                   | Union                        | UPS 15-35 SUC/TLC | 5 7/8                    | GU 125                       | 99452478                | -         | -         | -         | -         | -         |
| 006-SC7-IFC                                                      | 5 15/16                  | Union                        | UPS 15-35 SUC     | 5 7/8                    | GU 125                       | 59896778                | -         | -         | -         | -         | -         |
| 006-SC7-PNP                                                      | 5 15/16                  | Union                        | UPS 15-35 SUC/TLC | 5 7/8                    | GU 125                       | 99452478                | -         | -         | -         | -         | -         |
| 006-ST4                                                          | 4                        | 3/4" FNPT                    | -                 | -                        | -                            | -                       | -         | -         | -         | -         | -         |
| 006-ST4-PNP                                                      | 3 5/16                   | 3/4" FNPT                    | -                 | -                        | -                            | -                       | -         | -         | -         | -         | -         |
| 006-ST4-1PNP                                                     | 3 5/16                   | 3/4" FNPT                    | -                 | -                        | -                            | -                       | -         | -         | -         | -         | -         |
| 006-ST4-2PNP                                                     | 3 5/16                   | 3/4" FNPT                    | -                 | -                        | -                            | -                       | -         | -         | -         | -         | -         |
| 006-VRBC4                                                        | 4 3/8                    | 1/2" sweat                   | UP 15-42 BUC5/MR  | 6 1/2                    | 1/2" sweat                   | 59896805                | -         | -         | -         | -         | -         |
| 006-VRBC7-1IFC                                                   | 4 3/8                    | 1/2" sweat                   | UP 15-42 BUC5/MR  | 6 1/2                    | 1/2" sweat                   | 59896805                | -         | -         | -         | -         | -         |
| 006-VRB4                                                         | 4 3/8                    | 3/4" sweat                   | UP 15-42 BUC7/MR  | 7 1/4                    | 3/4" sweat                   | 59896806                | -         | -         | -         | -         | -         |

\* May not match specific competitive flange orientation.

Grundfos provides no guarantee as to the accuracy of competitor information listed herein.

| Competitor cross-reference for TACO                              |                          |                              |                                    |                          |                              |                                        |           |           |           |           |           |
|------------------------------------------------------------------|--------------------------|------------------------------|------------------------------------|--------------------------|------------------------------|----------------------------------------|-----------|-----------|-----------|-----------|-----------|
| Open systems: Stainless steel and lead-free bronze pump housings |                          |                              |                                    |                          |                              |                                        |           |           |           |           |           |
| TACO model                                                       | Port-to-port length [in] | Flange size/ connection type | Grundfos model                     | Port-to-port length [in] | Flange size/ connection type | Grundfos product number                |           |           |           |           |           |
|                                                                  |                          |                              |                                    |                          |                              | 1 x 115 V                              | 1 x 208 V | 1 x 230 V | 3 x 208 V | 3 x 230 V | 3 x 460 V |
| 006-VRBC7-IFC                                                    | 4 3/8                    | 3/4" sweat                   | UP 15-42 BUC7/MR                   | 7 1/4                    | 3/4" sweat                   | 59896806                               | -         | -         | -         | -         | -         |
| 006-VVBC4                                                        | 4 3/8                    | 1/2" sweat                   | -                                  | -                        | -                            | -                                      | -         | -         | -         | -         | -         |
| 006-VVBC7-1IFC                                                   | 4 3/8                    | 1/2" sweat                   | -                                  | -                        | -                            | -                                      | -         | -         | -         | -         | -         |
| 006-VVB4                                                         | 4 3/8                    | 3/4" sweat                   | -                                  | -                        | -                            | -                                      | -         | -         | -         | -         | -         |
| 006-VVBC7-IFC                                                    | 4 3/8                    | 3/4" sweat                   | -                                  | -                        | -                            | -                                      | -         | -         | -         | -         | -         |
| 007-BF                                                           | 6 3/8                    | 2-bolt flange                | UPS 15-55 SFC                      | 6 1/2                    | 2-bolt flange*               | 59896773                               | -         | -         | -         | -         | -         |
|                                                                  |                          |                              | ALPHA2 15-55 SFC, ALPHA1 15-55 SFC | 6 1/2                    | 2-bolt flange*               | 99163937, 99163972, 99287250, 99287262 | -         | -         | -         | -         | -         |
| 007-BF5                                                          | 6 3/8                    | 2-bolt flange                | UPS 15-55 SFC                      | 6 1/2                    | 2-bolt flange*               | 59896773                               | -         | -         | -         | -         | -         |
|                                                                  |                          |                              | ALPHA2 15-55 SFC, ALPHA1 15-55 SFC | 6 1/2                    | 2-bolt flange*               | 99163937, 99163972, 99287250, 99287262 | -         | -         | -         | -         | -         |
| 007-BF-IFC                                                       | 6 3/8                    | 2-bolt flange                | UPS 15-55 SFC                      | 6 1/2                    | 2-bolt flange*               | 59896773                               | -         | -         | -         | -         | -         |
|                                                                  |                          |                              | ALPHA2 15-55 SFC, ALPHA1 15-55 SFC | 6 1/2                    | 2-bolt flange*               | 99163937, 99163972, 99287250, 99287262 | -         | -         | -         | -         | -         |
| 007-BF5-IFC                                                      | 6 3/8                    | 2-bolt flange                | UPS 15-55 SFC                      | 6 1/2                    | 2-bolt flange*               | 59896773                               | -         | -         | -         | -         | -         |
|                                                                  |                          |                              | ALPHA2 15-55 SFC, ALPHA1 15-55 SFC | 6 1/2                    | 2-bolt flange*               | 99163937, 99163972, 99287250, 99287262 | -         | -         | -         | -         | -         |
| 007-SF5                                                          | 6 3/8                    | 2-bolt flange                | UPS 15-55 SFC                      | 6 1/2                    | 2-bolt flange*               | 59896773                               | -         | -         | -         | -         | -         |
|                                                                  |                          |                              | ALPHA2 15-55 SFC, ALPHA1 15-55 SFC | 6 1/2                    | 2-bolt flange*               | 99163937, 99163972, 99287250, 99287262 | -         | -         | -         | -         | -         |
| 007-SF5-IFC                                                      | 6 3/8                    | 2-bolt flange                | UPS 15-55 SFC                      | 6 1/2                    | 2-bolt flange*               | 59896773                               | -         | -         | -         | -         | -         |
|                                                                  |                          |                              | ALPHA2 15-55 SFC, ALPHA1 15-55 SFC | 6 1/2                    | 2-bolt flange*               | 99163937, 99163972, 99287250, 99287262 | -         | -         | -         | -         | -         |
| 007-MSSF1-IFC                                                    |                          |                              | UPS 15-35 SFC                      | 6 1/2                    | 2-bolt flange                | 59896772                               | -         | -         | -         | -         | -         |
| 008-BF6                                                          | 6 3/8                    | 2-bolt flange-R              | UPS 15-55 SFC                      | 6 1/2                    | 2-bolt flange                | 59896773                               | -         | -         | -         | -         | -         |
|                                                                  |                          |                              | ALPHA2 15-55 SFC, ALPHA1 15-55 SFC | 6 1/2                    | 2-bolt flange*               | 99163937, 99163972, 99287250, 99287262 | -         | -         | -         | -         | -         |
| 008-BF6-IFC                                                      | 6 3/8                    | 2-bolt flange                | UPS 15-55 SFC                      | 6 1/2                    | 2-bolt flange*               | 59896773                               | -         | -         | -         | -         | -         |
|                                                                  |                          |                              | ALPHA2 15-55 SFC, ALPHA1 15-55 SFC | 6 1/2                    | 2-bolt flange*               | 99163937, 99163972, 99287250, 99287262 | -         | -         | -         | -         | -         |
| 008-BC                                                           | 6 3/8                    | 3/4" sweat                   | UPS 15-42 BUC7                     | 7 1/4                    | 3/4" sweat                   | 59896151                               | -         | -         | -         | -         | -         |
| 008-BC6                                                          | 5 5/8                    | 3/4" sweat                   | UPS 15-42 BUC7                     | 7 1/4                    | 3/4" sweat                   | 59896151                               | -         | -         | -         | -         | -         |
| 008-BC6-IFC                                                      | 6 1/2                    | 3/4" sweat                   | UPS 15-42 BUC7                     | 7 1/4                    | 3/4" sweat                   | 59896151                               | -         | -         | -         | -         | -         |
| 008-SF6                                                          | 6 3/8                    | 2-bolt flange                | UPS15-55 SFC                       | 6 1/2                    | 2-bolt flange*               | 59896773                               | -         | -         | -         | -         | -         |
|                                                                  |                          |                              | ALPHA2 15-55 SFC, ALPHA1 15-55 SFC | 6 1/2                    | 2-bolt flange*               | 99163937, 99163972, 99287250, 99287262 | -         | -         | -         | -         | -         |
| 008-SF6-IFC                                                      | 5 15/16                  | 2-bolt flange                | UPS15-55 SFC                       | 6 1/2                    | 2-bolt flange*               | 59896773                               | -         | -         | -         | -         | -         |
|                                                                  |                          |                              | ALPHA2 15-55 SFC, ALPHA1 15-55 SFC | 6 1/2                    | 2-bolt flange*               | 99163937, 99163972, 99287250, 99287262 | -         | -         | -         | -         | -         |

\* May not match specific competitive flange orientation.

Grundfos provides no guarantee as to the accuracy of competitor information listed herein.

| Competitor cross-reference for TACO                              |                          |                              |                                    |                          |                              |                                        |           |           |           |           |           |
|------------------------------------------------------------------|--------------------------|------------------------------|------------------------------------|--------------------------|------------------------------|----------------------------------------|-----------|-----------|-----------|-----------|-----------|
| Open systems: Stainless steel and lead-free bronze pump housings |                          |                              |                                    |                          |                              |                                        |           |           |           |           |           |
| TACO model                                                       | Port-to-port length [in] | Flange size/ connection type | Grundfos model                     | Port-to-port length [in] | Flange size/ connection type | Grundfos product number                |           |           |           |           |           |
|                                                                  |                          |                              |                                    |                          |                              | 1 x 115 V                              | 1 x 208 V | 1 x 230 V | 3 x 208 V | 3 x 230 V | 3 x 460 V |
| 008-SF6-2                                                        | 5 15/16                  | 2-bolt flange-R              | UPS15-55 SFC                       | 6 1/2                    | 2-bolt flange                | 59896773                               | -         | -         | -         | -         | -         |
|                                                                  |                          |                              | ALPHA2 15-55 SFC, ALPHA1 15-55 SFC | 6 1/2                    | 2-bolt flange*               | 99163937, 99163972, 99287250, 99287262 | -         | -         | -         | -         | -         |
| 008-SF6-1IFC                                                     | 5 15/16                  | 2-bolt flange-R              | UPS15-55 SFC                       | 6 1/2                    | 2-bolt flange                | 59896773                               | -         | -         | -         | -         | -         |
|                                                                  |                          |                              | ALPHA2 15-55 SFC, ALPHA1 15-55 SFC | 6 1/2                    | 2-bolt flange*               | 99163937, 99163972, 99287250, 99287262 | -         | -         | -         | -         | -         |
| 008-VRBC6                                                        | 6 3/8                    | 3/4" sweat                   | UP 15-42 BUC7/MR                   | 7 1/4                    | 3/4" sweat                   | 59896806                               | -         | -         | -         | -         | -         |
| 008-VRBC6-IFC                                                    | 6 3/8                    | 3/4" sweat                   | UP 15-42 BUC7/MR                   | 7 1/4                    | 3/4" sweat                   | 59896806                               | -         | -         | -         | -         | -         |
| 008-VVBC6                                                        | 6 3/8                    | 3/4" sweat                   | -                                  | -                        | -                            | -                                      | -         | -         | -         | -         | -         |
| 008-VVBC6-IFC                                                    | 6 3/8                    | 3/4" sweat                   | -                                  | -                        | -                            | -                                      | -         | -         | -         | -         | -         |
| 009-BF                                                           | 6 3/8                    | Flange                       | -                                  | -                        | -                            | -                                      | -         | -         | -         | -         | -         |
| 009-BF-IFC                                                       | -                        | -                            | Magna 32-60 FN                     | 6 1/2                    | 2-bolt flange                | -                                      | 98052802  | 98052802  | 98052802  | 98052802  | -         |
|                                                                  | -                        | -                            | Magna 32-60 FN                     | 6 1/2                    | 2-bolt flange                | -                                      | 98052802  | 98052802  | 98052802  | 98052802  | -         |
| 009-BF5                                                          | -                        | -                            | Magna 32-60 FN                     | 6 1/2                    | 2-bolt flange                | -                                      | 98052802  | 98052802  | 98052802  | 98052802  | -         |
| 009-SF5                                                          | 6 3/8                    | 2-bolt flange-R              | -                                  | -                        | -                            | -                                      | -         | -         | -         | -         | -         |
|                                                                  |                          |                              | Magna 32-60 FN                     | 6 1/2                    | 2-bolt flange                | -                                      | 98052802  | 98052802  | 98052802  | 98052802  | -         |
| 009-SF5-IFC                                                      | 6 3/8                    | 2-bolt flange-R              | -                                  | -                        | -                            | -                                      | -         | -         | -         | -         | -         |
|                                                                  |                          |                              | Magna 32-60 FN                     | 6 1/2                    | 2-bolt flange                | -                                      | 98052802  | 98052802  | 98052802  | 98052802  | -         |
| 0010-BF2                                                         | 6 3/8                    | 2-bolt flange                | UPS 43-44 BFC                      | 8 1/2                    | 2-bolt flange*               | 52722520                               | -         | 52722521  | -         | -         | -         |
|                                                                  |                          |                              | Magna 32-60 FN                     | 6 1/2                    | 2-bolt flange                | -                                      | 98052802  | 98052802  | 98052802  | 98052802  | -         |
| 0010-BF-IFC                                                      | -                        | -                            | UPS 43-44 BFC                      | 8 1/2                    | 2-bolt flange*               | 52722520                               | -         | 52722521  | -         | -         | -         |
|                                                                  |                          |                              | Magna 32-60 FN                     | 6 1/2                    | 2-bolt flange                | -                                      | 98052802  | 98052802  | 98052802  | 98052802  | -         |
| 0010-BF3                                                         | 6 3/8                    | 2-bolt flange-R              | UPS 43-44 BFC                      | 8 1/2                    | 2-bolt flange                | 52722520                               | -         | 52722521  | -         | -         | -         |
|                                                                  |                          |                              | Magna 32-60 FN                     | 6 1/2                    | 2-bolt flange                | -                                      | 98052802  | 98052802  | 98052802  | 98052802  | -         |
| 0010-SF3                                                         | 6 3/8                    | 2-bolt flange                | UPS 43-44 BFC                      | 8 1/2                    | 2-bolt flange*               | 52722520                               | -         | 52722521  | -         | -         | -         |
|                                                                  |                          |                              | Magna 32-60 FN                     | 6 1/2                    | 2-bolt flange                | -                                      | 98052802  | 98052802  | 98052802  | 98052802  | -         |
| 0010-SF3-IFC                                                     | 6 3/8                    | 2-bolt flange                | UPS 43-44 BFC                      | 8 1/2                    | 2-bolt flange*               | 52722520                               | -         | 52722521  | -         | -         | -         |
|                                                                  |                          |                              | Magna 32-60 FN                     | 6 1/2                    | 2-bolt flange                | -                                      | 98052802  | 98052802  | 98052802  | 98052802  | -         |
| 0011-BF4                                                         | 6 1/2                    | 2-bolt flange                | UPS 26-99 SFC                      | 6 1/2                    | 2-bolt flange*               | 98961763                               | -         | 98961765  | -         | -         | -         |
|                                                                  |                          |                              | Magna 32-60 FN                     | 6 1/2                    | 2-bolt flange                | -                                      | 98052802  | 98052802  | 98052802  | 98052802  | -         |
| 0011-BF-IFC                                                      | -                        | -                            | UPS 26-99 SFC                      | 6 1/2                    | 2-bolt flange*               | 98961763                               | -         | 98961765  | -         | -         | -         |
|                                                                  |                          |                              | Magna 32-60 FN                     | 6 1/2                    | 2-bolt flange                | -                                      | 98052802  | 98052802  | 98052802  | 98052802  | -         |
| 0011-SF4                                                         | 6 3/8                    | 2-bolt flange-R              | UPS 26-99 SFC                      | 6 1/2                    | 2-bolt flange                | 98961763                               | -         | 98961765  | -         | -         | -         |
|                                                                  |                          |                              | Magna 32-60 FN                     | 6 1/2                    | 2-bolt flange                | -                                      | 98052802  | 98052802  | 98052802  | 98052802  | -         |
| 0011-SF4-IFC                                                     | 6 1/2                    | 2-bolt flange-R              | UPS 26-99 SFC                      | 6 1/2                    | 2-bolt flange                | 98961763                               | -         | 98961765  | -         | -         | -         |
|                                                                  |                          |                              | Magna 32-60 FN                     | 6 1/2                    | 2-bolt flange                | -                                      | 98052802  | 98052802  | 98052802  | 98052802  | -         |
| 0012-BF                                                          | 8 1/2                    | 2-bolt flange-R              | UPS 43-44 BFC                      | 8 1/2                    | 2-bolt flange                | 52722520                               | -         | 52722521  | -         | -         | -         |
|                                                                  |                          |                              | Magna 40-120 FN                    | 8 1/2                    | 3/4" to 1 1/2"               | -                                      | -         | 96734633  | -         | 96734633  | -         |
| 0012-BF4-IFC                                                     | 8 1/2                    | 2-bolt flange-R              | UPS 43-44 BFC                      | 8 1/2                    | 2-bolt flange                | 52722520                               | -         | 52722521  | -         | -         | -         |
|                                                                  |                          |                              | Magna 40-120 FN                    | 8 1/2                    | 3/4" to 1 1/2"               | -                                      | -         | 96734633  | -         | 96734633  | -         |
| 0012-BF4                                                         | 8 1/2                    | 2-bolt flange                | UPS 43-44 BFC                      | 8 1/2                    | 2-bolt flange*               | 52722520                               | -         | 52722521  | -         | -         | -         |
|                                                                  |                          |                              | Magna 40-120 FN                    | 8 1/2                    | 3/4" to 1 1/2"               | -                                      | -         | 96734633  | -         | 96734633  | -         |
| 0012-BF4-1                                                       | 8 1/2                    | 2" flange                    | UPS 43-44 BFC                      | 8 1/2                    | 2-bolt flange*               | 52722520                               | -         | 52722521  | -         | -         | -         |
|                                                                  |                          |                              | Magna 40-120 FN                    | 8 1/2                    | 3/4" to 1 1/2"               | -                                      | -         | 96734633  | -         | 96734633  | -         |
| 0012-SF4                                                         | 8 1/2                    | 1 1/2" flange                | UPS 43-44 BFC                      | 8 1/2                    | 2-bolt flange*               | 52722520                               | -         | 52722521  | -         | -         | -         |
|                                                                  |                          |                              | Magna 40-120 FN                    | 8 1/2                    | 3/4" to 1 1/2"               | -                                      | -         | 96734633  | -         | 96734633  | -         |
| 0012-SF4-IFC                                                     | 8 1/2                    | 1 1/2" flange                | UPS 43-44 BFC                      | 8 1/2                    | 2-bolt flange*               | 52722520                               | -         | 52722521  | -         | -         | -         |
|                                                                  |                          |                              | Magna 40-120 FN                    | 8 1/2                    | 3/4" to 1 1/2"               | -                                      | -         | 96734633  | -         | 96734633  | -         |
| 0012-VRBF4-1                                                     | 6 1/2                    | 2" flange                    | -                                  | -                        | -                            | -                                      | -         | -         | -         | -         | -         |
|                                                                  |                          |                              | Magna 40-120 FN                    | 8 1/2                    | 3/4" to 1 1/2"               | -                                      | -         | 96734633  | -         | 96734633  | -         |

\* May not match specific competitive flange orientation.

Grundfos provides no guarantee as to the accuracy of competitor information listed herein.

| Competitor cross-reference for TACO                              |                          |                              |                 |                          |                              |                         |           |           |           |           |           |
|------------------------------------------------------------------|--------------------------|------------------------------|-----------------|--------------------------|------------------------------|-------------------------|-----------|-----------|-----------|-----------|-----------|
| Open systems: Stainless steel and lead-free bronze pump housings |                          |                              |                 |                          |                              |                         |           |           |           |           |           |
| TACO model                                                       | Port-to-port length [in] | Flange size/ connection type | Grundfos model  | Port-to-port length [in] | Flange size/ connection type | Grundfos product number |           |           |           |           |           |
|                                                                  |                          |                              |                 |                          |                              | 1 x 115 V               | 1 x 208 V | 1 x 230 V | 3 x 208 V | 3 x 230 V | 3 x 460 V |
| 0012-VVBF4-1                                                     | 6 1/2                    | 2" flange                    | -               | -                        | -                            | -                       | -         | -         | -         | -         | -         |
|                                                                  |                          |                              | Magna 40-120 FN | 8 1/2                    | 3/4" to 1 1/2"               | -                       | -         | 96734633  | -         | 96734633  | -         |
| 0013-BF3                                                         | 6 1/2                    | 2-bolt flange                | UPS 26-150 SF   | 6 1/2                    | 2-bolt flange*               | 95906632                | -         | 95906633  | -         | 95906633  | -         |
|                                                                  |                          |                              | Magna 32-100 FN | 6 1/2                    | 2-bolt flange                | -                       | 98052760  | 98052760  | 98052760  | 98052760  | -         |
| 0013-BF-IFC                                                      | 6 1/2                    | 2-bolt flange                | UPS 26-150 SF   | 6 1/2                    | 2-bolt flange*               | 95906632                | -         | 95906633  | -         | 95906633  | -         |
|                                                                  |                          |                              | Magna 32-100 FN | 6 1/2                    | 2-bolt flange                | -                       | 98052760  | 98052760  | 98052760  | 98052760  | -         |
| 0013-SF3                                                         | 6 1/2                    | 2-bolt flange-R              | UPS 26-150 SF   | 6 1/2                    | 2-bolt flange                | 95906632                | -         | 95906633  | -         | 95906633  | -         |
|                                                                  |                          |                              | Magna 32-100 FN | 6 1/2                    | 2-bolt flange                | -                       | 98052760  | 98052760  | 98052760  | 98052760  | -         |
| 0013-SF3-IFC                                                     | 6 1/2                    | 2-bolt flange-R              | UPS 26-150 SF   | 6 1/2                    | 2-bolt flange                | 95906632                | -         | 95906633  | -         | 95906633  | -         |
|                                                                  |                          |                              | Magna 32-100 FN | 6 1/2                    | 2-bolt flange                | -                       | 98052760  | 98052760  | 98052760  | 98052760  | -         |
| 0014-BF                                                          | 6 1/2                    | 2-bolt flange-R              | UPS 26-99 SFC   | 6 1/2                    | 2-bolt flange                | 98961763                | -         | 98961765  | -         | -         | -         |
|                                                                  |                          |                              | Magna 32-100 FN | 6 1/2                    | 2-bolt flange                | -                       | 98052760  | 98052760  | 98052760  | 98052760  | -         |
| 0014-BF-1                                                        | 6 1/2                    | 2-bolt flange                | UPS 26-99 SFC   | 6 1/2                    | 2-bolt flange*               | 98961763                | -         | 98961765  | -         | -         | -         |
|                                                                  |                          |                              | Magna 32-100 FN | 6 1/2                    | 2-bolt flange                | -                       | 98052760  | 98052760  | 98052760  | 98052760  | -         |
| 0014-BF1-1IFC                                                    | 6 1/2                    | 2-bolt flange                | UPS 26-99 SFC   | 6 1/2                    | 2-bolt flange*               | 98961763                | -         | 98961765  | -         | -         | -         |
|                                                                  |                          |                              | Magna 32-100 FN | 6 1/2                    | 2-bolt flange                | -                       | 98052760  | 98052760  | 98052760  | 98052760  | -         |
| 0014-SF1                                                         | 6 1/2                    | 2-bolt flange-R              | UPS 26-99 SFC   | 6 1/2                    | 2-bolt flange                | 98961763                | -         | 98961765  | -         | -         | -         |
|                                                                  |                          |                              | Magna 32-100 FN | 6 1/2                    | 2-bolt flange                | -                       | 98052760  | 98052760  | 98052760  | 98052760  | -         |
| 0014-SF1-1IFC                                                    | 6 1/2                    | 2-bolt flange-R              | UPS 26-99 SFC   | 6 1/2                    | 2-bolt flange                | 98691763                | -         | 98961765  | -         | -         | -         |
|                                                                  |                          |                              | Magna 32-100 FN | 6 1/2                    | 2-bolt flange                | -                       | 98052760  | 98052760  | 98052760  | 98052760  | -         |
| 0015-MSSF2-IFC                                                   | 6 1/2                    | 2-bolt flange                | UPS 15-55 SFC   | 6 1/2                    | 2-bolt flange*               | 59896773                | -         | -         | -         | -         | -         |
| 0015-MSSF2-1IFC                                                  | 6 1/2                    | 2-bolt flange-R              | UPS 15-55 SFC   | 6 1/2                    | 2-bolt flange                | 59896773                | -         | -         | -         | -         | -         |
|                                                                  |                          |                              | UPS 26-99 SFC   | 6 1/2                    | 2-bolt flange                | 98691763                | -         | 98961765  | -         | -         | -         |
| 1400-10B                                                         | 6 3/8                    | 2-bolt flange-R              | UPS 26-99 SFC   | 6 1/2                    | 2-bolt flange                | 98691763                | -         | 98961765  | -         | -         | -         |
|                                                                  |                          |                              | Magna 32-60 FN  | 6 1/2                    | 2-bolt flange                | -                       | 98052802  | 98052802  | 98052802  | 98052802  | -         |
| 1400-20B                                                         | 6 3/8                    | 2-bolt flange-R              | UPS 26-150 SF   | 6 1/2                    | 2-bolt flange                | 95906632                | 95906633  | 95906633  | -         | -         | -         |
|                                                                  |                          |                              | Magna 32-100 FN | 6 1/2                    | 2-bolt flange                | -                       | 98052760  | 98052760  | 98052760  | 98052760  | -         |
| 1400-30B                                                         | 8 1/2                    | 2-bolt flange-R              | UPS 26-150 SF   | 6 1/2                    | 2-bolt flange                | 95906632                | 95906633  | 95906633  | -         | -         | -         |
|                                                                  |                          |                              | Magna 32-100 FN | 6 1/2                    | 2-bolt flange                | -                       | 98052760  | 98052760  | 98052760  | 98052760  | -         |
| 1400-40B                                                         | 8 1/2                    | 2-bolt flange-R              | UPS 43-100 SF   | 8 1/2                    | 2-bolt flange                | 95906638                | 95906639  | 95906639  | -         | -         | -         |
|                                                                  |                          |                              | Magna 32-100 FN | 6 1/2                    | 2-bolt flange                | -                       | 98052760  | 98052760  | 98052760  | 98052760  | -         |
| 1400-45B                                                         | 6 3/8                    | 2-bolt flange-R              | UPS 26-150 SF   | 6 1/2                    | 2-bolt flange                | 95906632                | 95906633  | 95906633  | -         | -         | -         |
|                                                                  |                          |                              | Magna 40-120 FN | 8 1/2                    | 3/4" to 1 1/2"               | -                       | -         | 96734633  | -         | 96734633  | -         |
| 1400-50B                                                         | 6 3/8                    | 2" bolt flange               | UPS 40-160/2 B  | 11 1/2                   | 2" 4-bolt flange*            | 96402787                | 96402788  | 96402787  | 96402788  | -         | -         |
|                                                                  |                          |                              | Magna 40-120 FN | 8 1/2                    | 3/4" to 1 1/2"               | -                       | -         | 96734633  | -         | 96734633  | -         |
| 1400-50B/2                                                       | 6 3/8                    | 2" bolt flange               | UPS 40-160/2 B  | 11 1/2                   | 2" 4-bolt flange*            | 96402787                | -         | 96402788  | 96402789  | 96402789  | 96402790  |
| 1400-60B                                                         | 8 1/2                    | 2-bolt flange-R              | UPS 43-100 SF   | 8 1/2                    | 2-bolt flange                | 95906638                | 95906639  | 95906639  | -         | -         | -         |
| 1400-65B                                                         | 8 1/2                    | 2-bolt flange-R              | UPS 50-60 SF    | 8 1/2                    | 4-bolt flange                | 97523136                | 97523137  | 97523137  | -         | -         | -         |
| 1400-70B                                                         | 8 1/2                    | 4-bolt flange                | UPS 50-80/4 B   | 11 1/2                   | 2" 4-bolt flange*            | 96404963                | -         | 96404964  | 96404965  | 96404965  | 96404966  |
| 1400-70B/3                                                       | 8 1/2                    | 4-bolt flange                | UPS 50-80/4 B   | 11 1/2                   | 2" 4-bolt flange*            | 96404963                | -         | 96404964  | 96404965  | 96404965  | 96404966  |
| 2400-10S                                                         | 6 3/8                    | 2-bolt flange-R              | UPS 26-99 SFC   | 6 1/2                    | 2-bolt flange                | 98961763                | -         | 98961765  | -         | -         | -         |
|                                                                  |                          |                              | Magna 32-60 FN  | 6 1/2                    | 2-bolt flange                | -                       | 98052802  | 98052802  | 98052802  | 98052802  | -         |
| 2400-20S                                                         | 6 3/8                    | 2-bolt flange-R              | UPS 26-150 SF   | 6 1/2                    | 2-bolt flange                | 95906632                | 95906633  | 95906633  | -         | -         | -         |
|                                                                  |                          |                              | Magna 32-100 FN | 6 1/2                    | 2-bolt flange                | -                       | 98052760  | 98052760  | 98052760  | 98052760  | -         |
| 2400-30S                                                         | 8 1/2                    | 2-bolt flange-R              | UPS 26-150 SF   | 6 1/2                    | 2-bolt flange                | 95906632                | 95906633  | 95906633  | -         | -         | -         |
|                                                                  |                          |                              | Magna 32-100 FN | 6 1/2                    | 2-bolt flange                | -                       | 98052760  | 98052760  | 98052760  | 98052760  | -         |
| 2400-40S                                                         | 8 1/2                    | 2-bolt flange-R              | UPS 43-100 SF   | 8 1/2                    | 2-bolt flange                | 95906638                | 95906639  | 95906639  | -         | -         | -         |
|                                                                  |                          |                              | Magna 32-100 FN | 6 1/2                    | 2-bolt flange                | -                       | 98052760  | 98052760  | 98052760  | 98052760  | -         |
| 2400-45S                                                         | 6 3/8                    | 2-bolt flange-R              | UPS 26-150 SF   | 6 1/2                    | 2-bolt flange                | 95906632                | 95906633  | 95906633  | -         | -         | -         |
|                                                                  |                          |                              | Magna 40-120 FN | 8 1/2                    | 3/4" to 1 1/2"               | -                       | -         | 96734633  | -         | 96734633  | -         |

\* May not match specific competitive flange orientation.

Grundfos provides no guarantee as to the accuracy of competitor information listed herein.

**Competitor cross-reference for TACO**  
**Open systems: Stainless steel and lead-free bronze pump housings**

| TACO model | Port-to-port length [in] | Flange size/ connection type | Grundfos model  | Port-to-port length [in] | Flange size/ connection type | Grundfos product number |           |           |           |           |           |
|------------|--------------------------|------------------------------|-----------------|--------------------------|------------------------------|-------------------------|-----------|-----------|-----------|-----------|-----------|
|            |                          |                              |                 |                          |                              | 1 x 115 V               | 1 x 208 V | 1 x 230 V | 3 x 208 V | 3 x 230 V | 3 x 460 V |
| 2400-50S   | 6 3/8                    | 2-bolt flange-R              | UPS 40-160/2 B  | 11 1/2                   | 2" 4-bolt flange*            | 96402787                | -         | 96402788  | 96402789  | 96402789  | 96402790  |
|            |                          |                              | Magna 40-120 FN | 8 1/2                    | 3/4" to 1 1/2"               | -                       | -         | 96734633  | -         | 96734633  | -         |
| 2400-50S/2 | 6 3/8                    | 2" 2-bolt flange             | UPS 40-160/2 B  | 11 1/2                   | 2" 4-bolt flange*            | 96402787                |           | 96402788  | 96402789  | 96402789  | 96402790  |
| 2400-60S   | 8 1/2                    | 2" 4-bolt flange             | UPS 43-100 SF   | 8 1/2                    | 2-bolt flange                | 95906638                | 95906639  | 95906639  | -         | -         | -         |
| 2400-65S   | 8 1/2                    | 2" 4-bolt flange             | UPS 50-60 SF    | 8 1/2                    | 4-bolt flange                | 97523136                | 97523137  | 97523137  | -         | -         | -         |
| 2400-70S   | 8 1/2                    | 2" 4-bolt flange             | UPS 50-80/4 B   | 11 1/2                   | 2" 4-bolt flange*            | 96404963                | -         | 96404964  | 96404965  | 96404965  | 96404966  |
| 2400-70S/3 | 8 1/2                    | 3" 4-bolt flange             | UPS 50-80/4 B   | 11 1/2                   | 2" 4-bolt flange*            | 96404963                | -         | 96404964  | 96404965  | 96404965  | 96404966  |

\* May not match specific competitive flange orientation.

Grundfos provides no guarantee as to the accuracy of competitor information listed herein.

## Closed systems: Cast iron pump housings

| Competitor cross-reference for TACO<br>Closed systems: Cast iron pump housings |                          |                              |                                    |                          |                              |                                        |           |           |           |           |           |
|--------------------------------------------------------------------------------|--------------------------|------------------------------|------------------------------------|--------------------------|------------------------------|----------------------------------------|-----------|-----------|-----------|-----------|-----------|
| TACO model                                                                     | Port-to-port length [in] | Flange size/ connection type | Grundfos model                     | Port-to-port length [in] | Flange size/ connection type | Grundfos product number                |           |           |           |           |           |
|                                                                                |                          |                              |                                    |                          |                              | 1 x 115 V                              | 1 x 208 V | 1 x 230 V | 3 x 208 V | 3 x 230 V | 3 x 460 V |
| 00R-F6-1IFC                                                                    | 6 3/8                    | 2-bolt flange-R              | UPS 15-58 FC                       | 6 1/2                    | 2-bolt flange                | 59896341                               | -         | -         | -         | -         | -         |
|                                                                                |                          |                              | ALPHA2 15-55 FC, ALPHA1 15-55 FC   | 6 1/2                    | 2-bolt flange                | 99163903, 99163906, 99285998, 99287256 | -         | -         | -         | -         | -         |
|                                                                                |                          |                              |                                    |                          |                              |                                        |           |           |           |           |           |
| 00R-MSF2-IFC                                                                   | 6 3/8                    | 2-bolt flange-R              | -                                  | -                        | -                            | -                                      | -         | -         | -         | -         |           |
| 00R-MSF2-1IFC                                                                  | 6 3/8                    | 2-bolt flange                | -                                  | -                        | -                            | -                                      | -         | -         | -         | -         |           |
| 005-F2                                                                         | 6 3/8                    | 2-bolt flange                | UPS 15-58 FRC                      | 6 1/2                    | 2-bolt flange-R              | 59896343                               | -         | -         | -         | -         | -         |
|                                                                                |                          |                              | ALPHA2 15-55 FRC, ALPHA1 15-55 FRC | 6 1/2                    | 2-bolt flange-R              | 99163932, 99163934, 99287244, 99287259 | -         | -         | -         | -         | -         |
|                                                                                |                          |                              |                                    |                          |                              |                                        |           |           |           |           |           |
| 005-F2-2IFC                                                                    | 6 3/8                    | 2-bolt flange                | UPS 15-58 FRC                      | 6 1/2                    | 2-bolt flange-R              | 59896343                               | -         | -         | -         | -         | -         |
|                                                                                |                          |                              | ALPHA2 15-55 FRC, ALPHA1 15-55 FRC | 6 1/2                    | 2-bolt flange-R              | 99163932, 99163934, 99287244, 99287259 | -         | -         | -         | -         | -         |
|                                                                                |                          |                              |                                    |                          |                              |                                        |           |           |           |           |           |
| 005-F2-3IFC                                                                    | 6 3/8                    | 2-bolt flange-R              | UPS 15-58 FC                       | 6 1/2                    | 2-bolt flange                | 59896341                               | -         | -         | -         | -         | -         |
|                                                                                |                          |                              | UPS 15-42 F                        | 6 1/2                    | 2-bolt flange                | -                                      | -         | 59896180  | -         | -         | -         |
|                                                                                |                          |                              | ALPHA2 15-55 FC, ALPHA1 15-55 FC   | 6 1/2                    | 2-bolt flange                | 99163903, 99163906, 99285998, 99287256 | -         | -         | -         | -         | -         |
| 005-VRF2                                                                       | 6 3/8                    | 2-bolt flange                | UP 15-42 FC/MR                     | 6 1/2                    | 2-bolt flange*               | 59896804                               | -         | -         | -         | -         | -         |
| 005-VRF2-2IFC                                                                  | 6 3/8                    | 2-bolt flange                | UP 15-42 FC/MR                     | 6 1/2                    | 2-bolt flange*               | 59896804                               | -         | -         | -         | -         | -         |
| 005-VVF2                                                                       | 6 3/8                    | 2-bolt flange                | UP 26-64 F/VS                      | 6 1/2                    | 2-bolt flange*               | 52722553                               | -         | -         | -         | -         | -         |
| 005-VVF2-2IFC                                                                  | 6 3/8                    | 2-bolt flange                | -                                  | -                        | -                            | -                                      | -         | -         | -         | -         | -         |
| 006-F4                                                                         | 6 3/8                    | 2-bolt flange-R              | UPS 15-58 FC                       | 6 1/2                    | 2-bolt flange                | 59896341                               | -         | -         | -         | -         | -         |
|                                                                                |                          |                              | ALPHA2 15-55 FC, ALPHA1 15-55 FC   | 6 1/2                    | 2-bolt flange                | 99163903, 99163906, 99285998, 99287256 | -         | -         | -         | -         | -         |
|                                                                                |                          |                              |                                    |                          |                              |                                        |           |           |           |           |           |
| 006-F7-IFC                                                                     | 6 3/8                    | 2-bolt flange-R              | UPS 15-58 FC                       | 6 1/2                    | 2-bolt flange                | 59896341                               | -         | -         | -         | -         | -         |
|                                                                                |                          |                              | ALPHA2 15-55 FC, ALPHA1 15-55 FC   | 6 1/2                    | 2-bolt flange                | 99163903, 99163906, 99285998, 99287256 | -         | -         | -         | -         | -         |
|                                                                                |                          |                              |                                    |                          |                              |                                        |           |           |           |           |           |
| 006-VRF4                                                                       | 6 3/8                    | 2-bolt flange-R              | UP 15-42 FC/MR                     | 6 1/2                    | 2-bolt flange                | 59896804                               | -         | -         | -         | -         | -         |
| 006-VRF7-IFC                                                                   | 6 3/8                    | 2-bolt flange-R              | UP 15-42 FC/MR                     | 6 1/2                    | 2-bolt flange                | 59896804                               | -         | -         | -         | -         | -         |
| 006-VVF4                                                                       | 6 3/8                    | 2-bolt flange-R              | UP 15-42 F/VS                      | 6 1/2                    | 2-bolt flange                | 59896807                               | -         | -         | -         | -         | -         |
| 006-VVF7-IFC                                                                   | 6 3/8                    | 2-bolt flange-R              | -                                  | -                        | -                            | -                                      | -         | -         | -         | -         | -         |
| 007-F5                                                                         | 6 3/8                    | 2-bolt flange                | UPS 15-58 FRC                      | 6 1/2                    | 2-bolt flange-R              | 59896343                               | -         | -         | -         | -         | -         |
|                                                                                |                          |                              | UP 15-42 FR                        | 6 1/2                    | 2-bolt flange-R              | 59896167                               | -         | 59896274  | -         | -         | -         |
|                                                                                |                          |                              | ALPHA2 15-55 FRC, ALPHA1 15-55 FRC | 6 1/2                    | 2-bolt flange                | 99163932, 99163934, 99287244, 99287259 | -         | -         | -         | -         | -         |
| 007-F5-5                                                                       | 6 3/8                    | 2-bolt flange-R              | UPS 15-58 FC                       | 6 1/2                    | 2-bolt flange                | 59896341                               | -         | -         | -         | -         | -         |
|                                                                                |                          |                              | UP 15-42 F                         | 6 1/2                    | 2-bolt flange                | 59896155                               | -         | 59896173  | -         | -         | -         |
|                                                                                |                          |                              | UPS 15-42 F                        | 6 1/2                    | 2-bolt flange                | -                                      | -         | 59896180  | -         | -         | -         |
| 007-F5-7-IFC                                                                   | 6 3/8                    | 2-bolt flange                | ALPHA2 15-55 FC, ALPHA1 15-55 FC   | 6 1/2                    | 2-bolt flange                | 99163903, 99163906, 99285998, 99287256 | -         | -         | -         | -         | -         |
|                                                                                |                          |                              | UPS 15-58 FRC                      | 6 1/2                    | 2-bolt flange-R              | 59896343                               | -         | -         | -         | -         | -         |
|                                                                                |                          |                              | ALPHA2 15-55 FRC, ALPHA1 15-55 FRC | 6 1/2                    | 2-bolt flange                | 99163932, 99163934, 99287244, 99287259 | -         | -         | -         | -         | -         |

\* May not match specific competitive flange orientation.

Grundfos provides no guarantee as to the accuracy of competitor information listed herein.

| Competitor cross-reference for TACO     |                          |                              |                                    |                          |                              |                                        |           |           |           |           |           |
|-----------------------------------------|--------------------------|------------------------------|------------------------------------|--------------------------|------------------------------|----------------------------------------|-----------|-----------|-----------|-----------|-----------|
| Closed systems: Cast iron pump housings |                          |                              |                                    |                          |                              |                                        |           |           |           |           |           |
| TACO model                              | Port-to-port length [in] | Flange size/ connection type | Grundfos model                     | Port-to-port length [in] | Flange size/ connection type | Grundfos product number                |           |           |           |           |           |
|                                         |                          |                              |                                    |                          |                              | 1 x 115 V                              | 1 x 208 V | 1 x 230 V | 3 x 208 V | 3 x 230 V | 3 x 460 V |
|                                         |                          |                              | UPS 15-58 FC                       | 6 1/2                    | 2-bolt flange                | 59896341                               | -         | -         | -         | -         | -         |
| 007-F5-8-IFC                            | 6 3/8                    | 2-bolt flange-R              | ALPHA2 15-55 FC, ALPHA1 15-55 FC   | 6 1/2                    | 2-bolt flange                | 99163903, 99163906, 99285998, 99287256 | -         | -         | -         | -         | -         |
| 007-F-MSSF1-IFC                         | -                        | -                            | -                                  | -                        | -                            | -                                      | -         | -         | -         | -         | -         |
| 007-VRF5                                | 6 3/8                    | 2-bolt flange                | -                                  | -                        | -                            | -                                      | -         | -         | -         | -         | -         |
| 007-VRF5-2IFC                           | 6 3/8                    | 2-bolt flange                | -                                  | -                        | -                            | -                                      | -         | -         | -         | -         | -         |
| 007-VVF5                                | 6 3/8                    | 2-bolt flange                | UP 26-64 F/VS                      | 6 1/2                    | 2-bolt flange*               | 52722553                               | -         | -         | -         | -         | -         |
| 007-VVF5-2IFC                           | 6 3/8                    | 2-bolt flange                | -                                  | -                        | -                            | -                                      | -         | -         | -         | -         | -         |
| 007e-F2                                 | 6 3/8                    | 2-bolt flange-R              | ALPHA2 15-55 FC, ALPHA1 15-55 FC   | 6 1/2                    | 2-bolt flange                | 99163903, 99163906, 99285998, 99287256 | -         | -         | -         | -         | -         |
|                                         |                          |                              | ALPHA2 15-55 FRC, ALPHA1 15-55 FRC | 6 1/2                    | 2-bolt flange                | 99163932, 99163934, 99287244, 99287259 | -         | -         | -         | -         | -         |
| 007e-F4                                 | 6 3/8                    | 2-bolt flange-R              | ALPHA2 15-55 FC, ALPHA1 15-55 FC   | 6 1/2                    | 2-bolt flange                | 99163903, 99163906, 99285998, 99287256 | -         | -         | -         | -         | -         |
|                                         |                          |                              | ALPHA2 15-55 FRC, ALPHA1 15-55 FRC | 6 1/2                    | 2-bolt flange                | 99163932, 99163934, 99287244, 99287259 | -         | -         | -         | -         | -         |
| 008-F6                                  | 6 3/8                    | 2-bolt flange                | UPS 15-58 FRC                      | 6 1/2                    | 2-bolt flange-R              | 59896343                               | -         | -         | -         | -         | -         |
|                                         |                          |                              | UP 15-42 FR                        | 6 1/2                    | 2-bolt flange-R              | 59896167                               | -         | 59896274  | -         | -         | -         |
|                                         |                          |                              | ALPHA2 15-55 FRC, ALPHA1 15-55 FRC | 6 1/2                    | 2-bolt flange                | 99163932, 99163934, 99287244, 99287259 | -         | -         | -         | -         | -         |
| 008-F6-3                                | 6 3/8                    | 2-bolt flange-R              | UPS 15-58 FC                       | 6 1/2                    | 2-bolt flange                | 59896341                               | -         | -         | -         | -         | -         |
|                                         |                          |                              | UP 15-42 F                         | 6 1/2                    | 2-bolt flange                | 59896155                               | -         | 59896173  | -         | -         | -         |
|                                         |                          |                              | ALPHA2 15-55 FC, ALPHA1 15-55 FC   | 6 1/2                    | 2-bolt flange                | 99163903, 99163906, 99285998, 99287256 | -         | -         | -         | -         | -         |
| 008-F6-1IFC                             | 6 3/8                    | 2-bolt flange-R              | UPS 15-58 FC                       | 6 1/2                    | 2-bolt flange                | 59896341                               | -         | -         | -         | -         | -         |
|                                         |                          |                              | UP 15-42 F                         | 6 1/2                    | 2-bolt flange                | 59896155                               | -         | 59896173  | -         | -         | -         |
|                                         |                          |                              | ALPHA2 15-55 FC, ALPHA1 15-55 FC   | 6 1/2                    | 2-bolt flange                | 99163903, 99163906, 99285998, 99287256 | -         | -         | -         | -         | -         |
| 008-VRF6                                | 6 3/8                    | 2-bolt flange                | UP 15-42 FC/MR                     | 6 1/2                    | 2-bolt flange*               | 59896804                               | -         | -         | -         | -         | -         |
| 008-VRF6-1IFC                           | 6 3/8                    | 2-bolt flange-R              | UP 15-42 FC/MR                     | 6 1/2                    | 2-bolt flange*               | 59896804                               | -         | -         | -         | -         | -         |
| 008-VVF6                                | 6 3/8                    | 2-bolt flange                | UP 15-42 F/VS                      | 6 1/2                    | 2-bolt flange*               | 59896807                               | -         | -         | -         | -         | -         |
| 008-VVF6-1IFC                           | 6 3/8                    | 2-bolt flange                | -                                  | -                        | -                            | -                                      | -         | -         | -         | -         | -         |
| 009-F5                                  | 6 3/8                    | 2-bolt flange-R              | UP 15-100 F                        | 6 1/2                    | 2-bolt flange                | 59896300                               | -         | -         | -         | -         | -         |
|                                         |                          |                              | Magna 32-60 F                      | 6 1/2                    | 2-bolt flange                | -                                      | 98071395  | 98071395  | 98071395  | 98071395  | -         |
| 009-F5-IFC                              | 6 3/8                    | 2-bolt flange-R              | -                                  | -                        | -                            | -                                      | -         | -         | -         | -         | -         |
|                                         |                          |                              | Magna 32-60 F                      | 6 1/2                    | 2-bolt flange                | -                                      | 98071395  | 98071395  | 98071395  | 98071395  | -         |
| 009-VRF5                                | 6 3/8                    | 2-bolt flange-R              | -                                  | -                        | -                            | -                                      | -         | -         | -         | -         | -         |
|                                         |                          |                              | Magna 32-60 F                      | 6 1/2                    | 2-bolt flange                | -                                      | 98071395  | 98071395  | 98071395  | 98071395  | -         |
| 009-VRF5-IFC                            | 6 3/8                    | 2-bolt flange-R              | -                                  | -                        | -                            | -                                      | -         | -         | -         | -         | -         |
|                                         |                          |                              | Magna 32-60 F                      | 6 1/2                    | 2-bolt flange                | -                                      | 98071395  | 98071395  | 98071395  | 98071395  | -         |
| 009-VVF5                                | 6 3/8                    | 2-bolt flange-R              | UP 26-96 F/VS                      | 6 1/2                    | 2-bolt flange                | 52722552                               | -         | -         | -         | -         | -         |
|                                         |                          |                              | Magna 32-60 F                      | 6 1/2                    | 2-bolt flange                | -                                      | 98071395  | 98071395  | 98071395  | 98071395  | -         |
| 009-VVF5-IFC                            | 6 3/8                    | 2-bolt flange-R              | -                                  | -                        | -                            | -                                      | -         | -         | -         | -         | -         |
|                                         |                          |                              | Magna 32-60 F                      | 6 1/2                    | 2-bolt flange                | -                                      | 98071395  | 98071395  | 98071395  | 98071395  | -         |
| 0010-F3                                 | 6 3/8                    | 2-bolt flange                | -                                  | -                        | -                            | -                                      | -         | -         | -         | -         | -         |
|                                         |                          |                              | Magna 32-60 F                      | 6 1/2                    | 2-bolt flange                | -                                      | 98071395  | 98071395  | 98071395  | 98071395  | -         |

\* May not match specific competitive flange orientation.

Grundfos provides no guarantee as to the accuracy of competitor information listed herein.

| Competitor cross-reference for TACO     |                          |                              |                |                          |                              |                         |           |           |           |           |           |
|-----------------------------------------|--------------------------|------------------------------|----------------|--------------------------|------------------------------|-------------------------|-----------|-----------|-----------|-----------|-----------|
| Closed systems: Cast iron pump housings |                          |                              |                |                          |                              |                         |           |           |           |           |           |
| TACO model                              | Port-to-port length [in] | Flange size/ connection type | Grundfos model | Port-to-port length [in] | Flange size/ connection type | Grundfos product number |           |           |           |           |           |
|                                         |                          |                              |                |                          |                              | 1 x 115 V               | 1 x 208 V | 1 x 230 V | 3 x 208 V | 3 x 230 V | 3 x 460 V |
| 0010-F3-1IFC                            | 6 3/8                    | 2-bolt flange                | -              | -                        | -                            | -                       | -         | -         | -         | -         | -         |
| 0010-MSF1-IFC                           | 6 3/8                    | 4-bolt flange                | Magna 32-60 F  | 6 1/2                    | 2-bolt flange                | -                       | 98071395  | 98071395  | 98071395  | 98071395  | -         |
| 0010-VRF3                               | 6 3/8                    | 2-bolt flange                | Magna 32-60 F  | 6 1/2                    | 2-bolt flange                | -                       | 98071395  | 98071395  | 98071395  | 98071395  | -         |
| 0010-VRF3-1IFC                          | 6 3/8                    | 2-bolt flange                | Magna 32-60 F  | 6 1/2                    | 2-bolt flange                | -                       | 98071395  | 98071395  | 98071395  | 98071395  | -         |
| 0010-VVF3                               | 6 3/8                    | 2-bolt flange                | Magna 32-60 F  | 6 1/2                    | 2-bolt flange                | -                       | 98071395  | 98071395  | 98071395  | 98071395  | -         |
| 0010-VVF3-1IFC                          | 6 3/8                    | 2-bolt flange                | Magna 32-60 F  | 6 1/2                    | 2-bolt flange                | -                       | 98071395  | 98071395  | 98071395  | 98071395  | -         |
| 0011-F4                                 | 6 1/2                    | 2-bolt flange-R              | Magna 32-60 F  | 6 1/2                    | 2-bolt flange                | -                       | 98071395  | 98071395  | 98071395  | 98071395  | -         |
| 0011-F4-2IFC                            | 6 1/2                    | 2-bolt flange-R              | UPS 26-99 FC   | 6 1/2                    | 2-bolt flange                | 52722512                | -         | 52722513  | -         | -         | -         |
| 0010-VSF3                               | 6 3/8                    | 2-bolt flange                | Magna 32-60 F  | 6 1/2                    | 2-bolt flange                | -                       | 98071395  | 98071395  | 98071395  | 98071395  | -         |
| 0010-VSF3-1IFC                          | 6 3/8                    | 2-bolt flange                | UP 15-42 F/VS  | 6 1/2                    | 2-bolt flange*               | 59896807                | -         | -         | -         | -         | -         |
| 0011-VRF4                               | 6 1/2                    | 2-bolt flange-R              | Magna 32-60 F  | 6 1/2                    | 2-bolt flange                | -                       | 98071395  | 98071395  | 98071395  | 98071395  | -         |
| 0011-VRF4-1IFC                          | 6 1/2                    | 2-bolt flange-R              | Magna 32-60 F  | 6 1/2                    | 2-bolt flange                | -                       | 98071395  | 98071395  | 98071395  | 98071395  | -         |

\* May not match specific competitive flange orientation.

Grundfos provides no guarantee as to the accuracy of competitor information listed herein.

| Competitor cross-reference for TACO     |                          |                              |                                       |                          |                              |                                                 |           |           |           |           |           |
|-----------------------------------------|--------------------------|------------------------------|---------------------------------------|--------------------------|------------------------------|-------------------------------------------------|-----------|-----------|-----------|-----------|-----------|
| Closed systems: Cast iron pump housings |                          |                              |                                       |                          |                              |                                                 |           |           |           |           |           |
| TACO model                              | Port-to-port length [in] | Flange size/ connection type | Grundfos model                        | Port-to-port length [in] | Flange size/ connection type | Grundfos product number                         |           |           |           |           |           |
|                                         |                          |                              |                                       |                          |                              | 1 x 115 V                                       | 1 x 208 V | 1 x 230 V | 3 x 208 V | 3 x 230 V | 3 x 460 V |
| 0011-VVF4                               | 6 1/2                    | 2-bolt flange-R              | Magna 32-60 F                         | 6 1/2                    | 2-bolt flange                | -                                               | 98071395  | 98071395  | 98071395  | 98071395  | -         |
|                                         |                          |                              | UP 26-96 F/VS                         | 6 1/2                    | 2-bolt flange                | 52722552                                        | -         | -         | -         | -         | -         |
| 0011-VVF4-1IFC                          | 6 1/2                    | 2-bolt flange-R              | Magna 32-60 F                         | 6 1/2                    | 2-bolt flange                | -                                               | 98071395  | 98071395  | 98071395  | 98071395  | -         |
|                                         |                          |                              | -                                     | -                        | -                            | -                                               | -         | -         | -         | -         | -         |
| 0012-F4                                 | 8 1/2                    | 2-bolt flange                | Magna 32-60 F                         | 6 1/2                    | 2-bolt flange                | -                                               | 98071395  | 98071395  | 98071395  | 98071395  | -         |
|                                         |                          |                              | -                                     | -                        | -                            | -                                               | -         | -         | -         | -         | -         |
| 0012-F4-3                               | 8 1/2                    | 2-bolt flange                | Magna 40-120 F                        | 8 1/2                    | 2-bolt flange                | -                                               | -         | 96734489  | -         | 96734489  | -         |
|                                         |                          |                              | -                                     | -                        | -                            | -                                               | -         | -         | -         | -         | -         |
| 0012-F4-IFC                             | 8 1/2                    | 2-bolt flange-R              | Magna 40-120 F                        | 8 1/2                    | 2-bolt flange                | -                                               | -         | 96734489  | -         | 96734489  | -         |
|                                         |                          |                              | UPS 43-44 FC                          | 8 1/2                    | 2-bolt flange                | 52722514                                        | -         | 52722515  | -         | -         | -         |
| 0012-F4-1                               | 8 1/2                    | 2" flange                    | Magna 40-120 F                        | 8 1/2                    | 2-bolt flange                | -                                               | -         | 96734489  | -         | 96734489  | -         |
|                                         |                          |                              | UPS 50-44 FC                          | 8 1/2                    | 2" flange                    | 52722557                                        | -         | 52722558  | -         | -         | -         |
| 0012-VRF4                               | 8 1/2                    | 1 1/2" flange                | Magna 40-120 F                        | 8 1/2                    | 2-bolt flange                | -                                               | -         | 96734489  | -         | 96734489  | -         |
|                                         |                          |                              | -                                     | -                        | -                            | -                                               | -         | -         | -         | -         | -         |
| 0012-VRF4-1                             | 8 1/2                    | 2" flange                    | Magna 40-120 F                        | 8 1/2                    | 2-bolt flange                | -                                               | -         | 96734489  | -         | 96734489  | -         |
|                                         |                          |                              | -                                     | -                        | -                            | -                                               | -         | -         | -         | -         | -         |
| 0012-VRF4-IFC                           | 8 1/2                    | 1 1/2" flange-R              | Magna 40-120 F                        | 8 1/2                    | 2-bolt flange                | -                                               | -         | 96734489  | -         | 96734489  | -         |
|                                         |                          |                              | -                                     | -                        | -                            | -                                               | -         | -         | -         | -         | -         |
| 0012-VVF4                               | 8 1/2                    | 1 1/2" flange                | Magna 40-120 F                        | 8 1/2                    | 2-bolt flange                | -                                               | -         | 96734489  | -         | 96734489  | -         |
|                                         |                          |                              | -                                     | -                        | -                            | -                                               | -         | -         | -         | -         | -         |
| 0012-VVF4-1                             | 8 1/2                    | 2" flange                    | Magna 40-120 F                        | 8 1/2                    | 2-bolt flange                | -                                               | -         | 96734489  | -         | 96734489  | -         |
|                                         |                          |                              | -                                     | -                        | -                            | -                                               | -         | -         | -         | -         | -         |
| 0012-VVF4-IFC                           | 8 1/2                    | 1 1/2" flange-R              | Magna 40-120 F                        | 8 1/2                    | 2-bolt flange                | -                                               | -         | 96734489  | -         | 96734489  | -         |
|                                         |                          |                              | -                                     | -                        | -                            | -                                               | -         | -         | -         | -         | -         |
|                                         |                          |                              | UP 26-116 F                           | 6 1/2                    | 2-bolt flange                | -                                               | -         | 52722377  | -         | -         | -         |
| 0013-F3                                 | 6 1/2                    | 2-bolt flange-R              | UPS 26-150 F                          | 6 1/2                    | 2-bolt flange                | 95906630                                        | 95906631  | 95906631  | -         | -         | -         |
|                                         |                          |                              | Magna 32-100 F                        | 6 1/2                    | 2-bolt flange                | -                                               | 98071396  | 98071396  | 98071396  | 98071396  | -         |
| 0013-F3-1IFC                            | 6 1/2                    | 2-bolt flange-R              | Magna 32-100 F                        | 6 1/2                    | 2-bolt flange                | -                                               | 98071396  | 98071396  | 98071396  | 98071396  | -         |
| 0013-VRF3                               | 6 1/2                    | 2-bolt flange-R              | Magna 32-100 F                        | 6 1/2                    | 2-bolt flange                | -                                               | 98071396  | 98071396  | 98071396  | 98071396  | -         |
| 0013-VRF3-1IFC                          | 6 1/2                    | 2-bolt flange-R              | Magna 32-100 F                        | 6 1/2                    | 2-bolt flange                | -                                               | 98071396  | 98071396  | 98071396  | 98071396  | -         |
| 0013-VVF3                               | 6 1/2                    | 2-bolt flange-R              | Magna 32-100 F                        | 6 1/2                    | 2-bolt flange                | -                                               | 98071396  | 98071396  | 98071396  | 98071396  | -         |
| 0013-VVF3-1IFC                          | 6 1/2                    | 2-bolt flange-R              | Magna 32-100 F                        | 6 1/2                    | 2-bolt flange                | -                                               | 98071396  | 98071396  | 98071396  | 98071396  | -         |
| 0014-F1                                 | 6 1/2                    | 2-bolt flange-R              | UPS 26-99 FC                          | 6 1/2                    | 2-bolt flange                | 52722512                                        | -         | 52722513  | -         | -         | -         |
|                                         |                          |                              | Magna 32-100 F                        | 6 1/2                    | 2-bolt flange                | -                                               | 98071396  | 98071396  | 98071396  | 98071396  | -         |
| 0014-F1-1IFC                            | 6 1/2                    | 2-bolt flange-R              | UPS 26-99 FC                          | 6 1/2                    | 2-bolt flange                | 52722512                                        | -         | 52722513  | -         | -         | -         |
|                                         |                          |                              | Magna 32-100 F                        | 6 1/2                    | 2-bolt flange                | -                                               | 98071396  | 98071396  | 98071396  | 98071396  | -         |
| 0014-VRF1                               | 6 1/2                    | 2-bolt flange-R              | Magna 32-100 F                        | 6 1/2                    | 2-bolt flange                | -                                               | 98071396  | 98071396  | 98071396  | 98071396  | -         |
| 0014-VRF1-1IFC                          | 6 1/2                    | 2-bolt flange-R              | Magna 32-100 F                        | 6 1/2                    | 2-bolt flange                | -                                               | 98071396  | 98071396  | 98071396  | 98071396  | -         |
| 0014-VVF1                               | 6 1/2                    | 2-bolt flange-R              | Magna 32-100 F                        | 6 1/2                    | 2-bolt flange                | -                                               | 98071396  | 98071396  | 98071396  | 98071396  | -         |
| 0014-VVF1-1IFC                          | 6 1/2                    | 2-bolt flange-R              | Magna 32-100 F                        | 6 1/2                    | 2-bolt flange                | -                                               | 98071396  | 98071396  | 98071396  | 98071396  | -         |
|                                         |                          |                              | UPS 15-58 FRC                         | 6 1/2                    | 2-bolt flange-R              | 59896343                                        | -         | -         | -         | -         | -         |
| 0015-MSF2-IFC                           | 6 1/2                    | 2-bolt flange                | ALPHA2 15-55 FRC,<br>ALPHA1 15-55 FRC | 6 1/2                    | 2-bolt flange                | 99163932,<br>99163934,<br>99287244,<br>99287259 | -         | -         | -         | -         | -         |
|                                         |                          |                              | UPS 15-58 FC                          | 6 1/2                    | 2-bolt flange                | 59896341                                        | -         | -         | -         | -         | -         |
| 0015-MSF2-1IFC                          | 6 1/2                    | 2-bolt flange-R              | ALPHA2 15-55 FC,<br>ALPHA1 15-55 FC   | 6 1/2                    | 2-bolt flange                | 99163903,<br>99163906,<br>99285998,<br>99287256 | -         | -         | -         | -         | -         |

\* May not match specific competitive flange orientation.

Grundfos provides no guarantee as to the accuracy of competitor information listed herein.

| Competitor cross-reference for TACO<br>Closed systems: Cast iron pump housings |                          |                              |                                       |                          |                              |                                                 |           |           |           |           |           |
|--------------------------------------------------------------------------------|--------------------------|------------------------------|---------------------------------------|--------------------------|------------------------------|-------------------------------------------------|-----------|-----------|-----------|-----------|-----------|
| TACO model                                                                     | Port-to-port length [in] | Flange size/ connection type | Grundfos model                        | Port-to-port length [in] | Flange size/ connection type | Grundfos product number                         |           |           |           |           |           |
|                                                                                |                          |                              |                                       |                          |                              | 1 x 115 V                                       | 1 x 208 V | 1 x 230 V | 3 x 208 V | 3 x 230 V | 3 x 460 V |
| 0015e-F2                                                                       | 6 3/8                    | 2-bolt flange-R              | ALPHA2 15-55 FC,<br>ALPHA1 15-55 FC   | 6 1/2                    | 2-bolt flange                | 99163903,<br>99163906,<br>99285998,<br>99287256 |           |           |           |           |           |
|                                                                                |                          |                              | ALPHA2 15-55 FRC,<br>ALPHA1 15-55 FRC | 6 1/2                    | 2-bolt flange                | 99163932,<br>99163934,<br>99287244,<br>99287259 |           |           |           |           |           |
| 0015e-F4                                                                       | 6 3/8                    | 2-bolt flange-R              | ALPHA2 15-55 FC,<br>ALPHA1 15-55 FC   | 6 1/2                    | 2-bolt flange                | 99163903,<br>99163906,<br>99285998,<br>99287256 |           |           |           |           |           |
|                                                                                |                          |                              | ALPHA2 15-55 FRC,<br>ALPHA1 15-55 FRC | 6 1/2                    | 2-bolt flange                | 99163932,<br>99163934,<br>99287244,<br>99287259 |           |           |           |           |           |
| 1400-10                                                                        | 6 3/8                    | 2-bolt flange-R              | UPS 26-99 FC                          | 6 1/2                    | 2-bolt flange                | 52722512                                        | -         | 52722513  | -         | -         | -         |
|                                                                                |                          |                              | Magna 32-60 F                         | 6 1/2                    | 2-bolt flange                | -                                               | 98071395  | 98071395  | 98071395  | 98071395  | -         |
| 1400-20                                                                        | 6 3/8                    | 2-bolt flange-R              | UPS 26-150 F                          | 6 1/2                    | 2-bolt flange                | 95906630                                        | 95906631  | 95906631  | -         | -         | -         |
|                                                                                |                          |                              | Magna 32-100 F                        | 6 1/2                    | 2-bolt flange                | -                                               | 98071396  | 98071396  | 98071396  | 98071396  | -         |
| 1400-30                                                                        | 8 1/2                    | 2-bolt flange-R              | UPS 26-150 F                          | 6 1/2                    | 2-bolt flange                | 95906630                                        | 95906631  | 95906631  | -         | -         | -         |
|                                                                                |                          |                              | Magna 32-100 F                        | 6 1/2                    | 2-bolt flange                | -                                               | 98071396  | 98071396  | 98071396  | 98071396  | -         |
| 1400-40                                                                        | 8 1/2                    | 2-bolt flange-R              | UPS 43-100 F                          | 8 1/2                    | 2-bolt flange                | 95906636                                        | 95906637  | 95906637  | -         | -         | -         |
|                                                                                |                          |                              | Magna 32-100 F                        | 6 1/2                    | 2-bolt flange                | -                                               | 98071396  | 98071396  | 98071396  | 98071396  | -         |
| 1400-45                                                                        | 6 3/8                    | 2-bolt flange-R              | UPS 26-150 F                          | 6 1/2                    | 2-bolt flange                | 95906630                                        | 95906631  | 95906631  | -         | -         | -         |
|                                                                                |                          |                              | Magna 40-120 F                        | 8 1/2                    | 2-bolt flange                | -                                               | -         | 96734489  | -         | 96734489  | -         |
| 1400-50                                                                        | 6 3/8                    | 2" bolt flange               | UPS 40-160/2                          | 11 1/2                   | 2" 4-bolt flange*            |                                                 |           |           |           |           |           |
|                                                                                |                          |                              | Magna 40-120 F                        | 8 1/2                    | 2-bolt flange                | -                                               | -         | 96734489  | -         | 96734489  | -         |
| 1400-50/2                                                                      | 6 3/8                    | 2" bolt flange               | UPS 40-160/2                          | 11 1/2                   | 2" 4-bolt flange*            |                                                 |           |           |           |           |           |
| 1400-60                                                                        | 8 1/2                    | 2-bolt flange-R              | UPS 43-100 F                          | 8 1/2                    | 2-bolt flange                | 95906636                                        | 95906637  | 95906637  | -         | -         | -         |
| 1400-65                                                                        | 8 1/2                    | 2-bolt flange-R              | UPS 50-60 F                           | 8 1/2                    | 4-bolt flange                | 97523134                                        | 97523135  | 97523135  | -         | -         | -         |
| 1400-70                                                                        | 8 1/2                    | 4-bolt flange                | UPS 50-80/4                           | 11 1/2                   | 2" 4-bolt flange             |                                                 |           |           |           |           |           |
| 1400-70/3                                                                      | 8 1/2                    | 4-bolt flange                | UPS 50-80/4                           | 11 1/2                   | 2" 4-bolt flange             |                                                 |           |           |           |           |           |
| 2400-10                                                                        | 6 3/8                    | 2-bolt flange-R              | UPS 26-99 FC                          | 6 1/2                    | 2-bolt flange                | 52722512                                        | -         | 52722513  | -         | -         | -         |
|                                                                                |                          |                              | Magna 32-60 F                         | 6 1/2                    | 2-bolt flange                | -                                               | 98071395  | 98071395  | 98071395  | 98071395  | -         |
| 2400-20                                                                        | 6 3/8                    | 2-bolt flange-R              | UPS 26-150 F                          | 6 1/2                    | 2-bolt flange                | 95906630                                        | 95906631  | 95906631  | -         | -         | -         |
|                                                                                |                          |                              | Magna 32-100 F                        | 6 1/2                    | 2-bolt flange                | -                                               | 98071396  | 98071396  | 98071396  | 98071396  | -         |
| 2400-30                                                                        | 8 1/2                    | 2-bolt flange-R              | UPS 26-150 F                          | 6 1/2                    | 2-bolt flange                | 95906630                                        | 95906631  | 95906631  | -         | -         | -         |
|                                                                                |                          |                              | Magna 32-100 F                        | 6 1/2                    | 2-bolt flange                | -                                               | 98071396  | 98071396  | 98071396  | 98071396  | -         |
| 2400-40                                                                        | 8 1/2                    | 2-bolt flange-R              | UPS 43-100 F                          | 8 1/2                    | 2-bolt flange                | 95906636                                        | 95906637  | 95906637  | -         | -         | -         |
|                                                                                |                          |                              | Magna 32-100 F                        | 6 1/2                    | 2-bolt flange                | -                                               | 98071396  | 98071396  | 98071396  | 98071396  | -         |
| 2400-45                                                                        | 6 3/8                    | 2-bolt flange-R              | UPS 26-150 F                          | 6 1/2                    | 2-bolt flange                | 95906630                                        | 95906631  | 95906631  | -         | -         | -         |
|                                                                                |                          |                              | Magna 40-120 F                        | 8 1/2                    | 2-bolt flange                | -                                               | -         | 96734489  | -         | 96734489  | -         |
| 2400-50                                                                        | 6 3/8                    | 2-bolt flange-R              | UPS 40-160/2                          | 11 1/2                   | 2" 4-bolt flange*            |                                                 |           |           |           |           |           |
|                                                                                |                          |                              | Magna 40-120 F                        | 8 1/2                    | 2-bolt flange                | -                                               | -         | 96734489  | -         | 96734489  | -         |
| 2400-50/2                                                                      | 6 3/8                    | 2" 2-bolt flange             | UPS 40-160/2                          | 11 1/2                   | 2" 4-bolt flange*            |                                                 |           |           |           |           |           |
| 2400-60                                                                        | 8 1/2                    | 2" 4-bolt flange             | UPS 43-100 F                          | 8 1/2                    | 2-bolt flange                | 95906636                                        | 95906637  | 95906637  | -         | -         | -         |
| 2400-65                                                                        | 8 1/2                    | 2" 4-bolt flange             | UPS 50-60 F                           | 8 1/2                    | 4-bolt flange                | 97523134                                        | 97523135  | 97523135  | -         | -         | -         |
| 2400-70                                                                        | 8 1/2                    | 2" 4-bolt flange             | UPS 50-80/4                           | 11 1/2                   | 2" 4-bolt flange*            |                                                 |           |           |           |           |           |
| 2400-70/3                                                                      | 8 1/2                    | 3" 4-bolt flange             | UPS 50-80/4                           | 11 1/2                   | 2" 4-bolt flange*            |                                                 |           |           |           |           |           |

\* May not match specific competitive flange orientation.

Grundfos provides no guarantee as to the accuracy of competitor information listed herein.

## Reference for replacing Bell & Gossett models

### Open systems: Stainless steel and lead-free bronze pump housings

| Competitor cross-reference for Bell & Gossett<br>Open systems: Stainless steel and lead-free bronze pump housings |                          |                              |                                    |                          |                              |                                        |           |           |           |           |           |
|-------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------------|------------------------------------|--------------------------|------------------------------|----------------------------------------|-----------|-----------|-----------|-----------|-----------|
| Bell & Gossett model                                                                                              | Port-to-port length [in] | Flange size/ connection type | Grundfos model                     | Port-to-port length [in] | Flange size/ connection type | Grundfos product number                |           |           |           |           |           |
|                                                                                                                   |                          |                              |                                    |                          |                              | 1 x 115 V                              | 1 x 208 V | 1 x 230 V | 3 x 208 V | 3 x 230 V | 3 x 460 V |
| NBF-8S/LW                                                                                                         | 5                        | 1/2" sweat                   | UP 15-10 B5                        | 5                        | 1/2" sweat                   | 59896213                               | -         | -         | -         | -         | -         |
| NBF-8S/P                                                                                                          | 5                        | 1/2" sweat                   | UP 15-10 B5/LC                     | 5                        | 1/2" sweat                   | 59896214                               | -         | -         | -         | -         | -         |
| NBF-8S/TP                                                                                                         | 5                        | 1/2" sweat                   | UP 15-10 B5/TLC                    | 5                        | 1/2" sweat                   | 99452454                               | -         | -         | -         | -         | -         |
| NBF-9U/LW                                                                                                         | 6 3/8                    | Union                        | UPS 15-29 SU                       | 5 7/8                    | 1 1/4" U                     | 59896775                               | -         | 59896784  | -         | -         | -         |
| NBF-9U/P                                                                                                          | 6 3/8                    | Union                        | UPS 15-29 SUC/LC                   | 5 7/8                    | 1 1/4" U                     | 59896776                               | -         | -         | -         | -         | -         |
| NBF-9U/TP                                                                                                         | 6 3/8                    | Union                        | UPS 15-29 SUC/TLC                  | 5 7/8                    | 1 1/4" U                     | 99452462                               | -         | -         | -         | -         | -         |
| NBF-10S/LW                                                                                                        | 5                        | 1/2" sweat                   | UP 15-18 B5                        | 5                        | 1/2" sweat                   | 59896114                               | -         | 59896118  | -         | -         | -         |
| NBF-10S/P                                                                                                         | 5                        | 1/2" sweat                   | UP 15-18 B5/LC                     | 5                        | 1/2" sweat                   | 59896211                               | -         | -         | -         | -         | -         |
| NBF-10S/TP                                                                                                        | 5                        | 1/2" sweat                   | UP 15-18 B5/TLC                    | 5                        | 1/2" sweat                   | 99452460                               | -         | -         | -         | -         | -         |
| NBF-12U/LW                                                                                                        | 6 3/8                    | Union                        | UPS 15-35 SUC                      | 5 7/8                    | 1 1/4" U                     | 59896778                               | -         | -         | -         | -         | -         |
|                                                                                                                   |                          |                              | UPS 15-35 SFC                      | 6 1/2                    | 2-bolt flange                | 59896772                               | -         | -         | -         | -         | -         |
| NBF-12F/LW                                                                                                        | 6 3/8                    | 2-bolt flange                | ALPHA2 15-55 SFC, ALPHA1 15-55 SFC | 6 1/2                    | 2-bolt flange*               | 99163937, 99163972, 99287250, 99287262 | -         | -         | -         | -         | -         |
| NBF-18S                                                                                                           | 5                        | 1/2" sweat                   | UP 15-42 B5                        | 5                        | 1/2" sweat                   | 59896145                               | -         | 59896142  | -         | -         | -         |
| NBF-22U                                                                                                           | 6 3/8                    | Union                        | UPS 15-55 SUC                      | 5 7/8                    | 1 1/4" U                     | -                                      | -         | 59896786  | -         | -         | -         |
|                                                                                                                   |                          | 2-bolt flange                | UPS 15-55 SFC                      | 6 1/2                    | 2-bolt flange                | 59896773                               | -         | -         | -         | -         | -         |
| NBF-22                                                                                                            | 6 3/8                    | 2-bolt flange                | ALPHA2 15-55 SFC, ALPHA1 15-55 SFC | 6 1/2                    | 2-bolt flange*               | 99163937, 99163972, 99287250, 99287262 | -         | -         | -         | -         | -         |
|                                                                                                                   |                          | 2-bolt flange                | UPS 15-55 SFC                      | 6 1/2                    | 2-bolt flange                | 59896773                               | -         | -         | -         | -         | -         |
| NBF-25                                                                                                            | 6 3/8                    | 2-bolt flange                | ALPHA2 15-55 SFC, ALPHA1 15-55 SFC | 6 1/2                    | 2-bolt flange*               | 99163937, 99163972, 99287250, 99287262 | -         | -         | -         | -         | -         |
| NBF-33                                                                                                            | 6 3/8                    | 2-bolt flange                | UPS 43-44 BFC                      | 8 1/2                    | 2-bolt flange                | 52722520                               | -         | 52722521  | -         | -         | -         |
|                                                                                                                   |                          |                              | Magna 32-60 FN                     | 6 1/2                    | 2-bolt flange                | -                                      | 98052802  | 98052802  | 98052802  | 98052802  | -         |
| NBF-36                                                                                                            | 6 3/8                    | 2-bolt flange                | UPS 26-150 SF                      | 6 1/2                    | 2-bolt flange                | 95906632                               | 95906633  | 95906633  | -         | -         | -         |
|                                                                                                                   |                          |                              | Magna 32-100 FN                    | 6 1/2                    | 2-bolt flange                | -                                      | 98052760  | 98052760  | 98052760  | 98052760  | -         |
| NBF-45                                                                                                            | 8 1/2                    | 2-bolt flange                | UP 43-75 BF                        | 8 1/2                    | 2-bolt flange                | 52722370                               | 52722369  | -         | -         | -         | -         |
|                                                                                                                   |                          |                              | Magna 32-100 FN                    | 6 1/2                    | 2-bolt flange                | -                                      | 98052760  | 98052760  | 98052760  | 98052760  | -         |
| SSF-9U/LW                                                                                                         | 6 3/8                    | Union                        | UPS 15-29 SU                       | 5 7/8                    | 1 1/4" U                     | 59896775                               | -         | 59896784  | -         | -         | -         |
| SSF-9U/P                                                                                                          | 6 3/8                    | Union                        | UPS 15-29 SUC/LC                   | 5 7/8                    | 1 1/4" U                     | 59896776                               | -         | -         | -         | -         | -         |
| SSF-9U/TP                                                                                                         | 6 3/8                    | Union                        | UPS 15-29 SUC/TLC                  | 5 7/8                    | 1 1/4" U                     | 99452462                               | -         | -         | -         | -         | -         |
| SSF-12F/LW                                                                                                        | 6 3/8                    | 2-bolt flange                | UPS 15-35 SFC                      | 6 1/2                    | 2-bolt flange                | 59896772                               | -         | -         | -         | -         | -         |
| SSF-12U/LW                                                                                                        | 6 3/8                    | Union                        | UPS 15-35 SUC                      | 6 1/2                    | 1 1/4" U                     | 59896778                               | -         | -         | -         | -         | -         |
|                                                                                                                   |                          |                              | UPS 15-55 SFC                      | 6 1/2                    | 2-bolt flange                | 59896773                               | -         | -         | -         | -         | -         |
| SSF-22                                                                                                            | 6 3/8                    | 2-bolt flange                | ALPHA2 15-55 SFC, ALPHA1 15-55 SFC | 6 1/2                    | 2-bolt flange*               | 99163937, 99163972, 99287250, 99287262 | -         | -         | -         | -         | -         |
| SSF-22U                                                                                                           | 6 3/8                    | Union                        | UPS 15-55 SUC                      | 5 7/8                    | 1 1/4" U                     | -                                      | -         | 59896786  | -         | -         | -         |
|                                                                                                                   |                          |                              | UPS 15-55 SFC                      | 6 1/2                    | 2-bolt flange                | 59896773                               | -         | -         | -         | -         | -         |
| LR-15B                                                                                                            | 6 3/8                    | 2-bolt flange                | ALPHA2 15-55 SFC, ALPHA1 15-55 SFC | 6 1/2                    | 2-bolt flange*               | 99163937, 99163972, 99287250, 99287262 | -         | -         | -         | -         | -         |
| LR-15BWR                                                                                                          | 6 3/8                    | 2-bolt flange                | UPS 26-99 SFC                      | 8 1/2                    | 2-bolt flange                | 98961763                               | -         | 98961765  | -         | -         | -         |
|                                                                                                                   |                          |                              | Magna 32-60 FN                     | 6 1/2                    | 2-bolt flange                | -                                      | 98052802  | 98052802  | 98052802  | 98052802  | -         |
| Series 100 B                                                                                                      | 6 3/8                    | 2-bolt flange                | UPS 43-44 BFC                      | 8 1/2                    | 2-bolt flange                | 52722520                               | -         | 52722521  | -         | -         | -         |
|                                                                                                                   |                          |                              | Magna 32-60 FN                     | 6 1/2                    | 2-bolt flange                | -                                      | 98052802  | 98052802  | 98052802  | 98052802  | -         |
| Series HV B                                                                                                       | 8 1/2                    | 2-bolt flange-R              | UPS 43-44 BFC                      | 8 1/2                    | 2-bolt flange                | 52722520                               | -         | 52722521  | -         | -         | -         |
|                                                                                                                   |                          |                              | Magna 32-60 FN                     | 6 1/2                    | 2-bolt flange                | -                                      | 98052802  | 98052802  | 98052802  | 98052802  | -         |

\* May not match specific competitive flange orientation.

Grundfos provides no guarantee as to the accuracy of competitor information listed herein.

**Competitor cross-reference for Bell & Gossett**  
**Open systems: Stainless steel and lead-free bronze pump housings**

| Bell & Gossett model | Port-to-port length [in] | Flange size/ connection type | Grundfos model  | Port-to-port length [in] | Flange size/ connection type | Grundfos product number |           |           |           |           |           |
|----------------------|--------------------------|------------------------------|-----------------|--------------------------|------------------------------|-------------------------|-----------|-----------|-----------|-----------|-----------|
|                      |                          |                              |                 |                          |                              | 1 x 115 V               | 1 x 208 V | 1 x 230 V | 3 x 208 V | 3 x 230 V | 3 x 460 V |
| Series PR B          | 8 1/2                    | 2-bolt flange-R              | UPS 15-55 SFC   | 6 1/2                    | 2-bolt flange                | 59896773                | -         | -         | -         | -         | -         |
|                      |                          |                              | Magna 32-60 FN  | 6 1/2                    | 2-bolt flange                | -                       | 98052802  | 98052802  | 98052802  | 98052802  | -         |
| 2" AB                | 8 1/2                    | 2" flange-R                  | UPS 50-60 SF    | 8 1/2                    | 4-bolt flange                | 97523136                | 97523137  | 97523137  | -         | -         | -         |
|                      |                          |                              | Magna 40-120 FN | 8 1/2                    | 3/4" to 1 1/2"               | -                       | -         | 96734633  | -         | 96734633  | -         |
| PL-30B               | 8 5/8                    | 2-bolt flange                | UPS 26-99 SF    | 6 1/2                    | 2-bolt flange                | 98961763                | -         | -         | -         | -         | -         |
|                      |                          |                              | Magna 32-60 FN  | 6 1/2                    | 2-bolt flange                | -                       | 98052760  | 98052760  | 98052760  | 98052760  | -         |
| PL-36B               | 8 5/8                    | 2-bolt flange                | UPS 26-150 SF   | 6 1/2                    | 2-bolt flange                | 95906632                | 95906633  | 95906633  | -         | -         | -         |
|                      |                          |                              | Magna 32-100 FN | 6 1/2                    | 2-bolt flange                | -                       | 98052760  | 98052760  | 98052760  | 98052760  | -         |
| PL-45B               | 9 3/8                    | 2-bolt flange                | UPS 43-100 SF   | 8 1/2                    | 2-bolt flange                | 95906638                | 95906639  | 95906639  | -         | -         | -         |
|                      |                          |                              | Magna 32-100 FN | 6 1/2                    | 2-bolt flange                | -                       | 98052760  | 98052760  | 98052760  | 98052760  | -         |
| PL-50B               | 9 3/8                    | 2-bolt flange                | UPS 43-100 SF   | 8 1/2                    | 2-bolt flange                | 95906638                | 95906639  | 95906639  | -         | -         | -         |
|                      |                          |                              | Magna 32-100 FN | 6 1/2                    | 2-bolt flange                | -                       | 98052760  | 98052760  | 98052760  | 98052760  | -         |
| PL-55B               | 9 9/16                   | 2-bolt flange                | UPS 26-150 SF   | 6 1/2                    | 2-bolt flange                | 95906632                | 95906633  | 95906633  | -         | -         | -         |
|                      |                          |                              | Magna 40-120 FN | 8 1/2                    | 2-bolt flange                | -                       | -         | 96734633  | -         | 96734633  | -         |
| PL-75B               | 9 15/16                  | 2"                           | UPS 50-60 SF    | 8 1/2                    | 4-bolt flange                | 97523136                | 97523137  | 97523137  | -         | -         | -         |
|                      |                          |                              | Magna 40-120 FN | 8 1/2                    | 2-bolt flange                | -                       | -         | 96734633  | -         | 96734633  | -         |

\* May not match specific competitive flange orientation.

Grundfos provides no guarantee as to the accuracy of competitor information listed herein.

## Closed systems: Cast iron pump housings

**Competitor cross-reference for Bell & Gossett**  
**Closed systems: Cast iron pump housings**

| Bell & Gossett model | Port-to-port length [in] | Flange size/ connection type | Grundfos model                     | Port-to-port length [in] | Flange size/ connection type | Grundfos product number                |           |           |           |           |           |
|----------------------|--------------------------|------------------------------|------------------------------------|--------------------------|------------------------------|----------------------------------------|-----------|-----------|-----------|-----------|-----------|
|                      |                          |                              |                                    |                          |                              | 1 x 115 V                              | 1 x 208 V | 1 x 230 V | 3 x 208 V | 3 x 230 V | 3 x 460 V |
| NRF-9F/LW            | 6 3/8                    | 2-bolt flange-R              | UP 15-42 FR                        | 6 1/2                    | 2-bolt flange-R              | 59896167                               | -         | 59896274  | -         | -         | -         |
|                      |                          |                              | UPS 15-58 FRC                      | 6 1/2                    | 2-bolt flange-R              | 59896343                               | -         | -         | -         | -         | -         |
|                      |                          |                              | ALPHA2 15-55 FRC, ALPHA1 15-55 FRC | 6 1/2                    | 2-bolt flange-R              | 99163932, 99163934, 99287244, 99287259 | -         | -         | -         | -         | -         |
|                      |                          |                              | UP 15-42 FR                        | 6 1/2                    | 2-bolt flange-R              | 59896167                               | -         | 59896274  | -         | -         | -         |
| NRF-22               | 6 3/8                    | 2-bolt flange-R              | UPS 15-42 FR                       | 6 1/2                    | 2-bolt flange-R              | 59896167                               | -         | 59896274  | -         | -         | -         |
|                      |                          |                              | UPS 15-58 FRC                      | 6 1/2                    | 2-bolt flange-R              | 59896343                               | -         | -         | -         | -         | -         |
|                      |                          |                              | ALPHA2 15-55 FRC, ALPHA1 15-55 FRC | 6 1/2                    | 2-bolt flange                | 99163932, 99163934, 99287244, 99287259 | -         | -         | -         | -         | -         |
|                      |                          |                              | UPS15-58 FC                        | 6 1/2                    | 2-bolt flange                | 59896341                               | -         | -         | -         | -         | -         |
| NRF-25               | 6 3/8                    | 2-bolt flange                | ALPHA2 15-55 FC, ALPHA1 15-55 FC   | 6 1/2                    | 2-bolt flange                | 99163903, 99163906, 99285998, 99287256 | -         | -         | -         | -         | -         |
|                      |                          |                              | UPS 43-44 FC                       | 8 1/2                    | 2-bolt flange                | 52722514                               | -         | 52722515  | -         | -         | -         |
| NRF-33               | 6 3/8                    | 2-bolt flange                | Magna 32-60 F                      | 6 1/2                    | 2-bolt flange                | -                                      | 98071395  | 98071395  | 98071395  | 98071395  | -         |
|                      |                          |                              | UPS 26-150 F                       | 6 1/2                    | 2-bolt flange                | 95906630                               | 95906631  | 95906631  | -         | -         | -         |
| NRF-36               | 6 3/8                    | 2-bolt flange                | UPS 43-100 F                       | 8 1/2                    | 2-bolt flange                | 95906636                               | 95906637  | 95906637  | -         | -         | -         |
|                      |                          |                              | Magna 32-100 F                     | 6 1/2                    | 2-bolt flange                | -                                      | 98071396  | 98071396  | 98071396  | 98071396  | -         |
| NRF-45               | 8 1/2                    | 2-bolt flange                | UP 43-75 FC                        | 8 1/2                    | 2-bolt flange                | 52722373                               | -         | 52722372  | -         | -         | -         |
|                      |                          |                              | UPS 43-100 F                       | 8 1/2                    | 2-bolt flange                | 95906636                               | 95906637  | 95906637  | -         | -         | -         |
| LR-20WR              | 6 3/8                    | 2-bolt flange                | Magna 32-100 F                     | 6 1/2                    | 2-bolt flange                | -                                      | 98071396  | 98071396  | 98071396  | 98071396  | -         |
|                      |                          |                              | UPS 43-44 FC                       | 8 1/2                    | 2-bolt flange                | 52722514                               | -         | 52722515  | -         | -         | -         |
| Series 100           | 6 3/8                    | 2-bolt flange                | Magna 32-60 F                      | 6 1/2                    | 2-bolt flange                | -                                      | 98071395  | 98071395  | 98071395  | 98071395  | -         |
|                      |                          |                              | UPS 43-44 FC                       | 8 1/2                    | 2-bolt flange                | 52722514                               | -         | 52722515  | -         | -         | -         |

\* May not match specific competitive flange orientation.

Grundfos provides no guarantee as to the accuracy of competitor information listed herein.

| Competitor cross-reference for Bell & Gossett<br>Closed systems: Cast iron pump housings |                          |                              |                |                          |                              |                         |           |           |           |           |           |
|------------------------------------------------------------------------------------------|--------------------------|------------------------------|----------------|--------------------------|------------------------------|-------------------------|-----------|-----------|-----------|-----------|-----------|
| Bell & Gossett model                                                                     | Port-to-port length [in] | Flange size/ connection type | Grundfos model | Port-to-port length [in] | Flange size/ connection type | Grundfos product number |           |           |           |           |           |
|                                                                                          |                          |                              |                |                          |                              | 1 x 115 V               | 1 x 208 V | 1 x 230 V | 3 x 208 V | 3 x 230 V | 3 x 460 V |
| Series HV                                                                                | 8 1/2                    | 2-bolt flange-R              | UPS 43-44 FC   | 8 1/2                    | 2-bolt flange                | 52722514                | -         | 52722515  | -         | -         | -         |
|                                                                                          |                          |                              | Magna 32-60 F  | 6 1/2                    | 2-bolt flange                | -                       | 98071395  | 98071395  | 98071395  | 98071395  | -         |
| Series PR                                                                                | 8 1/2                    | 2-bolt flange                | UPS 26-99 FC   | 6 1/2                    | 2-bolt flange                | 52722512                | -         | 52722513  | -         | -         | -         |
|                                                                                          |                          |                              | Magna 32-60 F  | 6 1/2                    | 2-bolt flange                | -                       | 98071395  | 98071395  | 98071395  | 98071395  | -         |
| 2"                                                                                       | 8 1/2                    | 2" flange-R                  | UPS 50-44 FC   | 8 1/2                    | 2" flange                    | 52722557                | -         | 52722558  | -         | -         | -         |
|                                                                                          |                          |                              | Magna 40-120 F | 8 1/2                    | 2-bolt flange                | -                       | -         | 96734489  | -         | 96734489  | -         |
| PL-30                                                                                    | 8 5/8                    | 2-bolt flange                | UPS 26-99 FC   | 6 1/2                    | 2-bolt flange                | 52722512                | -         | 52722513  | -         | -         | -         |
|                                                                                          |                          |                              | Magna 32-60 F  | 6 1/2                    | 2-bolt flange                | -                       | 98071395  | 98071395  | 98071395  | 98071395  | -         |
| PL-36                                                                                    | 8 5/8                    | 2-bolt flange                | UPS 26-150 F   | 6 1/2                    | 2-bolt flange                | 95906630                | 95906631  | 95906631  | -         | -         | -         |
|                                                                                          |                          |                              | Magna 32-100 F | 6 1/2                    | 2-bolt flange                | -                       | 98071396  | 98071396  | 98071396  | 98071396  | -         |
| PL-45                                                                                    | 9 1/8                    | 2-bolt flange                | UPS 43-100 F   | 8 1/2                    | 2-bolt flange                | 95906636                | 95906637  | 95906637  | -         | -         | -         |
|                                                                                          |                          |                              | Magna 32-100 F | 6 1/2                    | 2-bolt flange                | -                       | 98071396  | 98071396  | 98071396  | 98071396  | -         |
| PL-50                                                                                    | 9 1/8                    | 2-bolt flange                | UPS 43-100 F   | 8 1/2                    | 2-bolt flange                | 95906636                | 95906637  | 95906637  | -         | -         | -         |
|                                                                                          |                          |                              | Magna 32-100 F | 6 1/2                    | 2-bolt flange                | -                       | 98071396  | 98071396  | 98071396  | 98071396  | -         |
| PL-55                                                                                    | 9 9/16                   | 2-bolt flange                | UPS 26-150 F   | 6 1/2                    | 2-bolt flange                | 95906630                | 95906631  | 95906631  | -         | -         | -         |
|                                                                                          |                          |                              | Magna 40-120 F | 8 1/2                    | 2-bolt flange                | -                       | -         | 96734489  | -         | 96734489  | -         |
| PL-75                                                                                    | 9 15/16                  | 2"                           | UPS 50-60 F    | 8 1/2                    | 4-bolt flange                | 97523134                | 97523135  | 97523135  | -         | -         | -         |
|                                                                                          |                          |                              | Magna 40-120 F | 8 1/2                    | 2-bolt flange                | -                       | -         | 96734489  | -         | 96734489  | -         |

\* May not match specific competitive flange orientation.

Grundfos provides no guarantee as to the accuracy of competitor information listed herein.

## Reference for replacing Laing models

## Open systems: Stainless steel and lead-free bronze pump housings

| Competitor cross-reference for Laing                             |                          |                              |                                    |                          |                              |                                        |           |           |           |           |           |
|------------------------------------------------------------------|--------------------------|------------------------------|------------------------------------|--------------------------|------------------------------|----------------------------------------|-----------|-----------|-----------|-----------|-----------|
| Open systems: Stainless steel and lead-free bronze pump housings |                          |                              |                                    |                          |                              |                                        |           |           |           |           |           |
| Laing model                                                      | Port-to-port length [in] | Flange size/ connection type | Grundfos model                     | Port-to-port length [in] | Flange size/ connection type | Grundfos product number                |           |           |           |           |           |
|                                                                  |                          |                              |                                    |                          |                              | 1 x 115 V                              | 1 x 208 V | 1 x 230 V | 3 x 208 V | 3 x 230 V | 3 x 460 V |
| SM-303-BS                                                        | 2 9/16                   | 1/2" sweat                   | UP10-16 PM B5/LC                   | 3 1/8                    | 1/2" sweat                   |                                        | 98420206  |           | -         | -         | -         |
| SM-303-BSR                                                       | 2 9/16                   | 1/2" sweat                   | UP 10-16 A PM B5/LC                | 3 1/8                    | 1/2" sweat                   |                                        | 98420222  |           | -         | -         | -         |
| SM-303-BSW                                                       | 2 9/16                   | 1/2" sweat                   | UP 10-16 PM B5/LC                  | 3 1/8                    | 1/2" sweat                   |                                        | 98420206  |           | -         | -         | -         |
| SM-303-BSRW                                                      | 2 9/16                   | 1/2" sweat                   | UP 10-16 A PM B5/LC                | 3 1/8                    | 1/2" sweat                   |                                        | 98420222  |           | -         | -         | -         |
| SM-303-BT                                                        | 2 9/16                   | 1/2" FNPT                    | UP 10-16 PM BN5/LC                 | 3 1/8                    | 1/2" FNPT                    |                                        | 98420210  |           | -         | -         | -         |
| SM-303-BTR                                                       | 2 9/16                   | 1/2" FNPT                    | UP 10-16 A PM BN5/LC               | 3 1/8                    | 1/2" FNPT                    |                                        | 98420223  |           | -         | -         | -         |
| SM-303-BTW                                                       | 2 9/16                   | 1/2" FNPT                    | UP 10-16 PM BN5/LC                 | 3 1/8                    | 1/2" FNPT                    |                                        | 98420210  |           | -         | -         | -         |
| SM-303-BTRW                                                      | 2 9/16                   | 1/2" FNPT                    | UP 10-16 A PM BN5/LC               | 3 1/8                    | 1/2" FNPT                    |                                        | 98420223  |           | -         | -         | -         |
| SMT-303-BS                                                       | 2 9/16                   | 1/2" sweat                   | UP 10-16 A PM B5/LC                | 3 1/8                    | 1/2" sweat                   |                                        | 98420222  |           | -         | -         | -         |
| SMT-303-BSR                                                      | 2 9/16                   | 1/2" sweat                   | UP 10-16 A PM B5/LC                | 3 1/8                    | 1/2" sweat                   |                                        | 98420222  |           | -         | -         | -         |
| SMT-303-BSW                                                      | 2 9/16                   | 1/2" sweat                   | UP 10-16 A PM B5/LC                | 3 1/8                    | 1/2" sweat                   |                                        | 98420222  |           | -         | -         | -         |
| SMT-303-BSRW                                                     | 2 9/16                   | 1/2" sweat                   | UP 10-16 A PM B5/LC                | 3 1/8                    | 1/2" sweat                   |                                        | 98420222  |           | -         | -         | -         |
| SMT-303-BT                                                       | 2 9/16                   | 1/2" FNPT                    | UP 10-16 A PM BN5/LC               | 3 1/8                    | 1/2" FNPT                    |                                        | 98420223  |           | -         | -         | -         |
| SMT-303-BTR                                                      | 2 9/16                   | 1/2" FNPT                    | UP 10-16 A PM BN5/LC               | 3 1/8                    | 1/2" FNPT                    |                                        | 98420223  |           | -         | -         | -         |
| SMT-303-BTW                                                      | 2 9/16                   | 1/2" FNPT                    | UP 10-16 A PM BN5/LC               | 3 1/8                    | 1/2" FNPT                    |                                        | 98420223  |           | -         | -         | -         |
| SMT-303-BTRW                                                     | 2 9/16                   | 1/2" FNPT                    | UP 10-16 A PM BN5/LC               | 3 1/8                    | 1/2" FNPT                    |                                        | -         | 98420223  | -         | -         | -         |
| SM-909-BS-14                                                     | 6                        | 1/2" sweat                   | UP 15-18 B5                        | 5                        | 1/2" sweat                   | 59896114                               | -         | 59896118  | -         | -         | -         |
| SM-909-BSW-14                                                    | 6                        | 1/2" sweat                   | UP 15-18 B5/LC                     | 5                        | 1/2" sweat                   | 59896211                               | -         | -         | -         | -         | -         |
| SM-909-BSC-14                                                    | 6                        | 1/2" sweat                   | UP 15-18 B5*                       | 5                        | 1/2" sweat                   | 59896114                               | -         | -         | -         | -         | -         |
| SM-909-BSCW-14                                                   | 6                        | 1/2" sweat                   | UP 15-18 B5/LC*                    | 5                        | 1/2" sweat                   | 59896211                               | -         | -         | -         | -         | -         |
| SMT-909-BS-14                                                    | 6                        | 1/2" sweat                   | UP 15-18 B5**                      | 5                        | 1/2" sweat                   | 59896114                               | -         | -         | -         | -         | -         |
| SMT-909-BSW-14                                                   | 6                        | 1/2" sweat                   | UP 15-18 B5/TLC                    | 5                        | 1/2" sweat                   | 99452460                               | -         | -         | -         | -         | -         |
| SMT-909-BSC-14                                                   | 6                        | 1/2" sweat                   | UP 15-18 B5/TLC                    | 5                        | 1/2" sweat                   | 99452460                               | -         | -         | -         | -         | -         |
| SMT-909-BSCW-14                                                  | 6                        | 1/2" sweat                   | UP 15-18 B5/TLC                    | 5                        | 1/2" sweat                   | 99452460                               | -         | -         | -         | -         | -         |
| SM-909-BS-14                                                     | 6                        | 3/4" sweat                   | UP 15-18 B7                        | 5                        | 3/4" sweat                   | 59896121                               | -         | 59896119  | -         | -         | -         |
| SM-909-BSW-14                                                    | 6                        | 3/4" sweat                   | UP 15-18 B7/LC                     | 5                        | 3/4" sweat                   | 59896229                               | -         | -         | -         | -         | -         |
| SM-909-BSC-14                                                    | 6                        | 3/4" sweat                   | UP 15-18 B7*                       | 5                        | 3/4" sweat                   | 59896121                               | -         | -         | -         | -         | -         |
| SM-909-BSCW-14                                                   | 6                        | 3/4" sweat                   | UP 15-18 B7/LC*                    | 5                        | 3/4" sweat                   | 59896229                               | -         | -         | -         | -         | -         |
| SM-909-BS-18                                                     | 6                        | 3/4" sweat                   | UP 15-18 B7                        | 5                        | 3/4" sweat                   | 59896121                               | -         | -         | -         | -         | -         |
| SM-909-BSW-18                                                    | 6                        | 3/4" sweat                   | UP 15-18 B7/LC                     | 5                        | 3/4" sweat                   | 59896229                               | -         | -         | -         | -         | -         |
| SMT-909-BS-14                                                    | 6                        | 3/4" sweat                   | UP 15-18 B7/LC                     | 5                        | 3/4" sweat                   | 59896229                               | -         | -         | -         | -         | -         |
| SMT-909-BSW-14                                                   | 6                        | 3/4" sweat                   | UP 15-18 B5/TLC                    | 5                        | 3/4" sweat                   | 99452460                               | -         | -         | -         | -         | -         |
| SMT-909-BSC-14                                                   | 6                        | 3/4" sweat                   | UP 15-18 B5/TLC*                   | 5                        | 3/4" sweat                   | 99452460                               | -         | -         | -         | -         | -         |
| SMT-909-BSCW-14                                                  | 6                        | 3/4" sweat                   | UP 15-18 B5/TLC*                   | 5                        | 3/4" sweat                   | 99452460                               | -         | -         | -         | -         | -         |
| SM-909-BF-14                                                     | 6 1/2                    | 2-bolt flange                | ALPHA2 15-55 SFC, ALPHA1 15-55 SFC | 6 1/2                    | 2-bolt flange*               | 99163937, 99163972, 99287250, 99287262 | -         | -         | -         | -         | -         |
| SM-909-BFW-14                                                    | 6 1/2                    | 2-bolt flange                | ALPHA2 15-55 SFC, ALPHA1 15-55 SFC | 6 1/2                    | 2-bolt flange*               | 99163937, 99163972, 99287250, 99287262 | -         | -         | -         | -         | -         |
|                                                                  |                          |                              | UPS 15-55 SFC                      | 6 1/2                    | 2-bolt flange                | 59896773                               | -         | -         | -         | -         | -         |
| SM-909-BF-18                                                     | 6 1/2                    | 2-bolt flange                | ALPHA2 15-55 SFC, ALPHA1 15-55 SFC | 6 1/2                    | 2-bolt flange*               | 99163937, 99163972, 99287250, 99287262 | -         | -         | -         | -         | -         |
| SM-909-BFW-18                                                    | 6 1/2                    | 2-bolt flange                | ALPHA2 15-55 SFC, ALPHA1 15-55 SFC | 6 1/2                    | 2-bolt flange*               | 99163937, 99163972, 99287250, 99287262 | -         | -         | -         | -         | -         |
| SMT-909-BF-14                                                    | 6 1/2                    | 2-bolt flange                | UP 15-42 BUC5**                    | 6 1/2                    | 2-bolt flange                | 59896150                               | -         | -         | -         | -         | -         |
| SMT-909-BFW-14                                                   | 6 1/2                    | 2-bolt flange                | ALPHA2 15-55 SFC, ALPHA1 15-55 SFC | 6 1/2                    | 2-bolt flange*               | 99163937, 99163972, 99287250, 99287262 | -         | -         | -         | -         | -         |
| SMT-909-BF-18                                                    | 6 1/2                    | 2-bolt flange                | UPS 15-55 SFC                      | 6 1/2                    | 2-bolt flange                | 59896773                               | -         | -         | -         | -         | -         |

\* May not match specific competitive flange orientation.

Grundfos provides no guarantee as to the accuracy of competitor information listed herein.

| Competitor cross-reference for Laing                             |                          |                              |                      |                          |                              |                         |           |           |           |           |           |
|------------------------------------------------------------------|--------------------------|------------------------------|----------------------|--------------------------|------------------------------|-------------------------|-----------|-----------|-----------|-----------|-----------|
| Open systems: Stainless steel and lead-free bronze pump housings |                          |                              |                      |                          |                              |                         |           |           |           |           |           |
| Laing model                                                      | Port-to-port length [in] | Flange size/ connection type | Grundfos model       | Port-to-port length [in] | Flange size/ connection type | Grundfos product number |           |           |           |           |           |
|                                                                  |                          |                              |                      |                          |                              | 1 x 115 V               | 1 x 208 V | 1 x 230 V | 3 x 208 V | 3 x 230 V | 3 x 460 V |
| E1-BCANCT1W-06                                                   | 4 1/2                    | W/supply 1/2" MNPT, F/       | Comfort System       | 6 1/2                    | 2-bolt flange                | 595916, 99452459        | -         | -         | -         | -         | -         |
| E1-BCANRT1W-06/T                                                 | 4 1/2                    | supply 3/8" MNPT             | Comfort System       | 6 1/2                    | 2-bolt flange                | 595916, 99452459        | -         | -         | -         | -         | -         |
| E1-BCSVNN1-06                                                    | 2 1/2                    | 1/2" sweat                   | UP10-16 PM B5/LC     | 3 1/8                    | 1/2" sweat                   |                         | 98420206  |           | -         | -         | -         |
| E1-BCSVNN1W-06                                                   | 2 1/2                    | 1/2" sweat                   |                      |                          |                              |                         |           |           | -         | -         | -         |
| E1-BCSNRN1W-06                                                   | 2 1/2                    | 1/2" sweat                   | UP 10-16 A PM B5/LC  | 3 1/8                    | 1/2" sweat                   |                         | 98420222  |           | -         | -         | -         |
| E1-BCSNRN1W-06                                                   | 2 1/2                    | 1/2" sweat                   |                      |                          |                              |                         |           |           | -         | -         | -         |
| E1-BCTVNN1-06                                                    | 2 1/2                    | 1/2" FPT                     | UP 10-16 PM BN5/LC   | 3 1/8                    | 1/2" FNPT                    |                         | 98420210  |           | -         | -         | -         |
| E1-BCTVNN1W-06                                                   | 2 1/2                    | 1/2" FPT                     |                      |                          |                              |                         |           |           | -         | -         | -         |
| E1-BCTNRN1W-06                                                   | 2 1/2                    | 1/2" FPT                     | UP 10-16 A PM BN5/LC | 3 1/8                    | 1/2" FNPT                    |                         | 98420223  |           | -         | -         | -         |
| E1-BCTNRN1W-06                                                   | 2 1/2                    | 1/2" FPT                     |                      |                          |                              |                         |           |           | -         | -         | -         |
| E3-BCTVNN1W-11                                                   | 2 1/2                    | 1/2" FPT                     | -                    | -                        | -                            | -                       | -         | -         | -         | -         | -         |
| E3-BCUVNN1W-11                                                   | 5 1/2                    | Union                        | UPS 15-35 SUC/TLC    | 6 1/2                    | GU 125                       | 99452478                | -         | -         | -         | -         | -         |
| E3-BCSVNN1W-11                                                   | 2 1/2                    | 1/2" sweat                   | -                    | -                        | -                            | -                       | -         | -         | -         | -         | -         |
|                                                                  |                          |                              | -                    | -                        | -                            | -                       | -         | -         | -         | -         | -         |
| E10-BCANCT1W-23                                                  | 4 1/2                    | W/supply 1/2" MNPT, F/       | -                    | -                        | -                            | -                       | -         | -         | -         | -         | -         |
|                                                                  |                          | supply 3/8" MNPT             | -                    | -                        | -                            | -                       | -         | -         | -         | -         | -         |
| E10-BCFVNN1W-24                                                  | 6 1/2                    | 2-bolt flange                | -                    | -                        | -                            | -                       | -         | -         | -         | -         | -         |
| E10-BCSVNN1W-19                                                  | 6                        | 1/2" sweat                   | -                    | -                        | -                            | -                       | -         | -         | -         | -         | -         |
| E10-BCSVNN1W-22                                                  | 6                        | 3/4" sweat                   | -                    | -                        | -                            | -                       | -         | -         | -         | -         | -         |
| E10-BCUVNN1W-19                                                  | 6                        | Union                        | -                    | -                        | -                            | -                       | -         | -         | -         | -         | -         |

\* May not match specific competitive flange orientation.

Grundfos provides no guarantee as to the accuracy of competitor information listed herein.

#### Purchase thermostatic controls

595443 Aquastat kit, 1/2" clip on 85-105 °F

595444 Aquastat kit, 3/4" clip on 85-105 °F

595656 Aquastat kit, 1/2" clip on 105-115 °F

595657 Aquastat kit, 3/4" clip on 105-115 °F

#### \*\* Purchase timer control

599388 24-hour programmable clock/timer

## Reference for replacing Armstrong models

### Open systems: Stainless steel and lead-free bronze pump housings

| Competitor cross-reference for Armstrong<br>Open systems: Stainless steel and lead-free bronze pump housings |                             |                                    |                                       |                             |                                    |                                                 |           |           |           |           |           |
|--------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------------|---------------------------------------|-----------------------------|------------------------------------|-------------------------------------------------|-----------|-----------|-----------|-----------|-----------|
| Armstrong<br>model                                                                                           | Port-to-port<br>length [in] | Flange size/<br>connection<br>type | Grundfos<br>model                     | Port-to-port<br>length [in] | Flange size/<br>connection<br>type | Grundfos product number                         |           |           |           |           |           |
|                                                                                                              |                             |                                    |                                       |                             |                                    | 1 x 115 V                                       | 1 x 208 V | 1 x 230 V | 3 x 208 V | 3 x 230 V | 3 x 460 V |
| Astro 20B050S                                                                                                | 5                           | 1/2" sweat                         | UP 15-10 B5                           | 5                           | 1/2" sweat                         | 59896213                                        | -         | -         | -         | -         | -         |
| Astro 20B050S-LC                                                                                             | 5                           | 1/2" sweat                         | UP 15-10 B5/LC                        | 5                           | 1/2" sweat                         | 59896214                                        | -         | -         | -         | -         | -         |
| Astro 20B050S-T                                                                                              | 5                           | 1/2" sweat                         | UP 15-10 B5/TLC                       | 5                           | 1/2" sweat                         | 99452454                                        | -         | -         | -         | -         | -         |
| Astro 20B050S-TA                                                                                             | 5                           | 1/2" sweat                         | -                                     | -                           | -                                  | -                                               | -         | -         | -         | -         | -         |
| Astro 20B075S                                                                                                | 5                           | 3/4" sweat                         | UP 15-10 B7                           | 6 3/8                       | 3/4" sweat                         | 59896226                                        | -         | -         | -         | -         | -         |
| Astro 20B075S-LC                                                                                             | 5                           | 3/4" sweat                         | UP 15-10 B7/LC                        | 6 3/8                       | 3/4" sweat                         | 59896209                                        | -         | -         | -         | -         | -         |
| Astro 20B075S-T                                                                                              | 5                           | 3/4" sweat                         | UP 15-10 B7/TLC                       | 6 3/8                       | 3/4" sweat                         | 99452455                                        | -         | -         | -         | -         | -         |
| Astro 20B075S-TA                                                                                             | 5                           | 3/4" sweat                         | -                                     | -                           | -                                  | -                                               | -         | -         | -         | -         | -         |
| Astro 20BF-LC                                                                                                | 6 3/8                       | 2-bolt flange                      | -                                     | -                           | -                                  | -                                               | -         | -         | -         | -         | -         |
| Astro 20BF-T                                                                                                 | 6 3/8                       | 2-bolt flange                      | -                                     | -                           | -                                  | -                                               | -         | -         | -         | -         | -         |
| Astro 20BF-TA                                                                                                | 6 3/8                       | 2-bolt flange                      | -                                     | -                           | -                                  | -                                               | -         | -         | -         | -         | -         |
| Astro 20BU                                                                                                   | 5                           | 1 1/4" union                       | UP 15-29 SU                           | 5 7/8                       | 1 1/4" union                       | 59896775                                        | -         | 59896784  | -         | -         | -         |
| Astro 20BU-T                                                                                                 | 5                           | 1 1/4" union                       | UP 15-29 SU/TLC                       | 5 7/8                       | 1 1/4" union                       | 99452462                                        | -         | -         | -         | -         | -         |
| Astro 20BU-TA                                                                                                | 5                           | 1 1/4" union                       | -                                     | -                           | -                                  | -                                               | -         | -         | -         | -         | -         |
| Astro 225BS                                                                                                  | 5                           | 1/2" sweat                         | UPS 15-35 SFC                         | 6 1/2                       | 2-bolt flange*                     | 59896772                                        | -         | -         | -         | -         | -         |
| Astro 225BS                                                                                                  | 5                           | 3/4" sweat                         | UPS 15-35 SFC                         | 6 1/2                       | 2-bolt flange*                     | 59896772                                        | -         | -         | -         | -         | -         |
| Astro 220SSU                                                                                                 | 6                           | 1 1/4" union                       | UPS 15-35 SUC                         | 5 7/8                       | 1 1/4" union                       | 59896778                                        | -         | -         | -         | -         | -         |
| Astro 225SSU                                                                                                 | 6                           | 1 1/4" union                       | UPS 15-35 SUC                         | 5 7/8                       | 1 1/4" union                       | 59896778                                        | -         | -         | -         | -         | -         |
| Astro 230SSU                                                                                                 | 6 3/8                       | 1 1/4" union                       | UPS 15-55 SUC                         | 6 1/2                       | 2-bolt flange                      | -                                               | -         | 59896786  | -         | -         | -         |
| Astro 250SSU                                                                                                 | 6 3/8                       | 1 1/4" union                       | -                                     | -                           | -                                  | -                                               | -         | -         | -         | -         | -         |
| Astro 25B050S                                                                                                | 5                           | 1/2" sweat                         | UP 15-18 B5                           | 5                           | 1/2" sweat                         | 59896114                                        | -         | 59896118  | -         | -         | -         |
| Astro 25B050S-LC                                                                                             | 5                           | 1/2" sweat                         | UP 15-18 B5/LC                        | 5                           | 1/2" sweat                         | 59896211                                        | -         | -         | -         | -         | -         |
| Astro 25B050S-T                                                                                              | 5                           | 1/2" sweat                         | UP 15-18 B5/TLC                       | 5                           | 1/2" sweat                         | 99452460                                        | -         | -         | -         | -         | -         |
| Astro 25B050S-TA                                                                                             | 5                           | 1/2" sweat                         | -                                     | -                           | -                                  | -                                               | -         | -         | -         | -         | -         |
| Astro 25B075S                                                                                                | 5                           | 3/4" sweat                         | UP 15-18 B7                           | 6 3/8                       | 3/4" sweat                         | 59896121                                        | -         | 59896119  | -         | -         | -         |
| Astro 25B075S-LC                                                                                             | 5                           | 3/4" sweat                         | UP 15-18 B7/LC                        | 6 3/8                       | 3/4" sweat                         | 59896229                                        | -         | -         | -         | -         | -         |
| Astro 25B075S-T                                                                                              | 5                           | 3/4" sweat                         | UP 15-18 B7/TLC                       | 6 3/8                       | 3/4" sweat                         | 99452461                                        | -         | -         | -         | -         | -         |
| Astro 25B075S-TA                                                                                             | 5                           | 3/4" sweat                         | -                                     | -                           | -                                  | -                                               | -         | -         | -         | -         | -         |
| Astro 25BU                                                                                                   | 6                           | 1 1/4" union                       | UPS 15-29 SU                          | 5 7/8                       | 1 1/4" union                       | 59896775                                        | -         | 59896784  | -         | -         | -         |
| Astro 25BU-LC                                                                                                | 6                           | 1 1/4" union                       | UPS 15-29 SU/LC                       | 5 7/8                       | 1 1/4" union                       | 59896776                                        | -         | -         | -         | -         | -         |
| Astro 25BU-T                                                                                                 | 6                           | 1 1/4" union                       | UPS 15-29 SUC/TLC                     | 5 7/8                       | 1 1/4" union                       | 99452462                                        | -         | -         | -         | -         | -         |
| Astro 25BU-TA                                                                                                | 6                           | 1 1/4" union                       | -                                     | -                           | -                                  | -                                               | -         | -         | -         | -         | -         |
| Astro 30B                                                                                                    | 6 3/8                       | 2-bolt flange-R                    | UPS 15-55 SFC                         | 6 1/2                       | 2-bolt flange*                     | 59896773                                        | -         | -         | -         | -         | -         |
| Astro 30B-LC                                                                                                 | 6 3/8                       | 2-bolt flange-R                    | ALPHA2 15-55 SFC,<br>ALPHA1 15-55 SFC | 6 1/2                       | 2-bolt flange*                     | 99163937,<br>99163972,<br>99287250,<br>99287262 | -         | -         | -         | -         | -         |
| Astro 30B-T                                                                                                  | 6 3/8                       | 2-bolt flange-R                    | -                                     | -                           | -                                  | -                                               | -         | -         | -         | -         | -         |
| Astro 30B-TA                                                                                                 | 6 3/8                       | 2-bolt flange-R                    | -                                     | -                           | -                                  | -                                               | -         | -         | -         | -         | -         |
|                                                                                                              |                             |                                    | UPS 15-55 SFC                         | 6 1/2                       | 2-bolt flange*                     | 59896773                                        | -         | -         | -         | -         | -         |
| Astro 30B-3                                                                                                  | 6 3/8                       | 2-bolt flange-R                    | ALPHA2 15-55 SFC,<br>ALPHA1 15-55 SFC | 6 1/2                       | 2-bolt flange*                     | 99163937,<br>99163972,<br>99287250,<br>99287262 | -         | -         | -         | -         | -         |

\* May not match specific competitive flange orientation.

Grundfos provides no guarantee as to the accuracy of competitor information listed herein.

**Competitor cross-reference for Armstrong**  
**Open systems: Stainless steel and lead-free bronze pump housings**

| Armstrong model | Port-to-port length [in] | Flange size/ connection type | Grundfos model  | Port-to-port length [in] | Flange size/ connection type | Grundfos product number |           |           |           |           |           |
|-----------------|--------------------------|------------------------------|-----------------|--------------------------|------------------------------|-------------------------|-----------|-----------|-----------|-----------|-----------|
|                 |                          |                              |                 |                          |                              | 1 x 115 V               | 1 x 208 V | 1 x 230 V | 3 x 208 V | 3 x 230 V | 3 x 460 V |
| Astro 50B       | 6 3/8                    | 2-bolt flange-R              | UPS 26-99 SFC   | 6 1/2                    | 2-bolt flange*               | 98961763                | -         | 98961765  | -         | -         | -         |
|                 |                          |                              | Magna 32-100 FN | 6 1/2                    | 2-bolt flange                | -                       | 98052760  | 98052760  | 98052760  | 98052760  | -         |
| Astro 50B-LC    | 6 3/8                    | 2-bolt flange-R              | -               | -                        | -                            | -                       | -         | -         | -         | -         | -         |
| Astro 50B-T     | 6 3/8                    | 2-bolt flange-R              | -               | -                        | -                            | -                       | -         | -         | -         | -         | -         |
| Astro 50B-TA    | 6 3/8                    | 2-bolt flange-R              | -               | -                        | -                            | -                       | -         | -         | -         | -         | -         |
| Astro 50B-3     | 6 3/8                    | 2-bolt flange-R              | UPS 26-99 SFC   | 6 1/2                    | 2-bolt flange*               | 98961763                | -         | 98961765  | -         | -         | -         |
|                 |                          |                              | Magna 32-100 FN | 6 1/2                    | 2-bolt flange                | -                       | 98052760  | 98052760  | 98052760  | 98052760  | -         |
| Astro 70B       | 6 3/8                    | 2-bolt flange                | -               | -                        | -                            | -                       | -         | -         | -         | -         | -         |
| Astro 70B-LC    | 6 3/8                    | 2-bolt flange                | -               | -                        | -                            | -                       | -         | -         | -         | -         | -         |
| Astro 70B-T     | 6 3/8                    | 2-bolt flange                | -               | -                        | -                            | -                       | -         | -         | -         | -         | -         |
| Astro 70B-TA    | 6 3/8                    | 2-bolt flange                | -               | -                        | -                            | -                       | -         | -         | -         | -         | -         |
| S25B            | 6 1/2                    | Flange                       | UPS 43-44 BFC   | 8 1/2                    | 2-bolt flange                | 52722520                | -         | 52722521  | -         | -         | -         |
|                 |                          |                              | Magna 32-100 FN | 6 1/2                    | 2-bolt flange                | -                       | 98052760  | 98052760  | 98052760  | 98052760  | -         |
| S35B            | 8 1/2                    | 2" NPT                       | UPS 43-44 BFC   | 8 1/2                    | 2-bolt flange*               | 52722520                | -         | 52722521  | -         | -         | -         |
| H32B            | 8 1/2                    | Flange                       | UPS 43-44 BFC   | 8 1/2                    | 2-bolt flange                | 52722520                | -         | 52722521  | -         | -         | -         |
|                 |                          |                              | Magna 32-100 FN | 6 1/2                    | 2-bolt flange                | -                       | 98052760  | 98052760  | 98052760  | 98052760  | -         |

\* May not match specific competitive flange orientation.

Grundfos provides no guarantee as to the accuracy of competitor information listed herein.

## Closed systems: Cast iron pump housings

| Competitor cross-reference for Armstrong<br>Closed systems: Cast iron pump housings |                             |                                    |                                       |                             |                                    |                                                 |           |           |           |           |           |
|-------------------------------------------------------------------------------------|-----------------------------|------------------------------------|---------------------------------------|-----------------------------|------------------------------------|-------------------------------------------------|-----------|-----------|-----------|-----------|-----------|
| Armstrong<br>model                                                                  | Port-to-port<br>length [in] | Flange size/<br>connection<br>type | Grundfos<br>model                     | Port-to-port<br>length [in] | Flange size/<br>connection<br>type | Grundfos product number                         |           |           |           |           |           |
|                                                                                     |                             |                                    |                                       |                             |                                    | 1 x 115 V                                       | 1 x 208 V | 1 x 230 V | 3 x 208 V | 3 x 230 V | 3 x 460 V |
| Astro 230CI                                                                         | 6 3/8                       | 2-bolt flange                      | UPS 15-58 FC                          | 6 1/2                       | 2-bolt flange                      | 59896341                                        | -         | -         | -         | -         | -         |
|                                                                                     |                             |                                    | ALPHA2 15-55 FC,<br>ALPHA1 15-55 FC   | 6 1/2                       | 2-bolt flange                      | 99163903,<br>99163906,<br>99285998,<br>99287256 | -         | -         | -         | -         | -         |
| Astro 230CI-R                                                                       | 6 3/8                       | 2-bolt flange-R                    | UPS 15-58 FRC                         | 6 1/2                       | 2-bolt flange                      | 59896343                                        | -         | -         | -         | -         | -         |
|                                                                                     |                             |                                    | ALPHA2 15-55 FRC,<br>ALPHA1 15-55 FRC | 6 1/2                       | 2-bolt flange                      | 99163932,<br>99163934,<br>99287244,<br>99287259 | -         | -         | -         | -         | -         |
| Astro 250CI                                                                         | 6 3/8                       | 2-bolt flange                      | UPS 26-99 FC                          | 6 1/2                       | 2-bolt flange                      | 52722512                                        | -         | 52722513  |           |           |           |
|                                                                                     |                             |                                    | Magna 32-100 F                        | 6 1/2                       | 2-bolt flange                      | -                                               | 98071396  | 98071396  | 98071396  | 98071396  | -         |
| Astro 250CI-R                                                                       | 6 3/8                       | 2-bolt flange-R                    | -                                     | -                           | -                                  | -                                               | -         | -         | -         | -         | -         |
| Astro 20F                                                                           | 6 3/8                       | 2-bolt flange-R                    | -                                     | -                           | -                                  | -                                               | -         | -         | -         | -         | -         |
| Astro 30                                                                            | 6 3/8                       | 2-bolt flange-R                    | UPS 15-58 FRC                         | 6 1/2                       | 2-bolt flange-R                    | 59896343                                        | -         | -         | -         | -         | -         |
|                                                                                     |                             |                                    | ALPHA2 15-55 FRC,<br>ALPHA1 15-55 FRC | 6 1/2                       | 2-bolt flange                      | 99163932,<br>99163934,<br>99287244,<br>99287259 | -         | -         | -         | -         | -         |
|                                                                                     |                             |                                    | UP 15-42 FR                           | 6 1/2                       | 2-bolt flange-R                    | 59896167                                        | -         | 59896274  |           |           |           |
|                                                                                     |                             |                                    | UPS 15-58 FC                          | 6 1/2                       | 2-bolt flange                      | 59896341                                        | -         | -         | -         | -         | -         |
| Astro 30-3                                                                          | 6 3/8                       | 2-bolt flange                      | ALPHA2 15-55 FC,<br>ALPHA1 15-55 FC   | 6 1/2                       | 2-bolt flange                      | 99163903,<br>99163906,<br>99285998,<br>99287256 | -         | -         | -         | -         | -         |
| Astro 50                                                                            | 6 3/8                       | 2-bolt flange-R                    | UPS 26-99 FC                          | 6 1/2                       | 2-bolt flange*                     | 52722512                                        | -         | 52722513  | -         | -         | -         |
| Astro 50-3                                                                          | 6 3/8                       | 2-bolt flange                      | UPS 26-99 FC                          | 6 1/2                       | 2-bolt flange                      | 52722512                                        | -         | 52722513  | -         | -         | -         |
| Astro 70                                                                            | 6 3/8                       | 2-bolt flange                      | -                                     | -                           | -                                  | -                                               | -         | -         | -         | -         | -         |
| S25                                                                                 | 6 1/2                       | Flange                             | UPS 26-99 FC                          | 6 1/2                       | 2-bolt flange                      | 52722512                                        | -         | 52722513  | -         | -         | -         |
|                                                                                     |                             |                                    | Magna 32-100 F                        | 6 1/2                       | 2-bolt flange                      | -                                               | 98071396  | 98071396  | 98071396  | 98071396  | -         |
| H32                                                                                 | 8 9/16                      | 2-bolt flange-R                    | UPS 43-44 FC                          | 8 1/2                       | 2-bolt flange*                     | 52722514                                        | -         | 52722515  | -         | -         | -         |
|                                                                                     |                             |                                    | Magna 32-100 F                        | 6 1/2                       | 2-bolt flange                      | -                                               | 98071396  | 98071396  | 98071396  | 98071396  | -         |
| S35                                                                                 | 8 1/2                       | 2" flange-R                        | UPS 50-44 F                           | 8 1/2                       | 2" 4-bolt flange                   | -                                               | -         | -         | -         | -         | -         |

\* May not match specific competitive flange orientation.

Grundfos provides no guarantee as to the accuracy of competitor information listed herein.

## Reference for replacing Wilo models

### Open systems: Stainless steel and lead-free bronze pump housings

| Competitor cross-reference for Wilo                              |                          |                                 |                                       |                          |                                 |                                                 |           |           |           |           |           |
|------------------------------------------------------------------|--------------------------|---------------------------------|---------------------------------------|--------------------------|---------------------------------|-------------------------------------------------|-----------|-----------|-----------|-----------|-----------|
| Open systems: Stainless steel and lead-free bronze pump housings |                          |                                 |                                       |                          |                                 |                                                 |           |           |           |           |           |
| Wilo model                                                       | Port-to-port length [in] | Flange size/<br>connection type | Grundfos model                        | Port-to-port length [in] | Flange size/<br>connection type | Grundfos product number                         |           |           |           |           |           |
|                                                                  |                          |                                 |                                       |                          |                                 | 1 x 115 V                                       | 1 x 208 V | 1 x 230 V | 3 x 208 V | 3 x 230 V | 3 x 460 V |
| Star Z-15 BN5                                                    | 3 1/8                    | 1/2" union NPT                  | UP 10-16 A PM BN5/LC                  | 3 1/8                    | 1/2" FNPT                       |                                                 | 98420223  |           | -         | -         | -         |
| Star Z-15 BS5                                                    | 3 1/8                    | 1/2" sweat                      | UP 10-16 A PM B5/LC                   | 3 1/8                    | 1/2" sweat                      |                                                 | 98420222  |           | -         | -         | -         |
| Star 3 BS 5                                                      | 5                        | 1/2" sweat                      | UP 15-10 B5                           | 5                        | 1/2" sweat                      | 59896213                                        | -         | -         | -         | -         | -         |
| Star 3 BS 7                                                      | 5                        | 3/4" sweat                      | UP 15-10 B7                           | 6 3/8                    | 3/4" sweat                      | 59896226                                        | -         | -         | -         | -         | -         |
| Star 5 B                                                         | 6 3/8                    | 2-bolt flange                   | -                                     | -                        | -                               | -                                               | -         | -         | -         | -         | -         |
| Star 5 BU                                                        | 6                        | 3/4" union                      | -                                     | -                        | -                               | -                                               | -         | -         | -         | -         | -         |
|                                                                  |                          | 1" union                        | -                                     | -                        | -                               | -                                               | -         | -         | -         | -         | -         |
| Star 5 BFX                                                       | 6 3/8                    | 2-bolt flange-R                 | -                                     | -                        | -                               | -                                               | -         | -         | -         | -         | -         |
| Star 8 BS 5                                                      | 5                        | 1/2" sweat                      | UP 15-18 B5                           | 5                        | 1/2" sweat                      | 59896114                                        | -         | 59896118  | -         | -         | -         |
| Star 8 BS 7                                                      | 5                        | 3/4" sweat                      | UP 15-18 B7                           | 5                        | 3/4" sweat                      | 59896121                                        | -         | 59896119  | -         | -         | -         |
| Star 11 BF                                                       | 6 3/8                    | 2-bolt flange                   | UP 15-29 SF                           | 6 1/2                    | 2-bolt flange                   | 59896771                                        | -         | -         | -         | -         | -         |
| Star 11 BU                                                       | 6                        | 3/4" union                      | UP 15-29 SU                           | 6 1/2                    | Union*                          | 59896775                                        | -         | 59896784  | -         | -         | -         |
|                                                                  |                          | 1" union                        | UP 15-29 SU                           | 6 1/2                    | Union*                          | 59896775                                        | -         | 59896784  | -         | -         | -         |
|                                                                  |                          |                                 | UPS 15-55 SFC                         | 6 1/2                    | 2-bolt flange                   | 59896773                                        | -         | -         | -         | -         | -         |
| Star 16 SF                                                       | 6 3/8                    | 2-bolt flange                   | ALPHA2 15-55 SFC,<br>ALPHA1 15-55 SFC | 6 1/2                    | 2-bolt flange*                  | 99163937,<br>99163972,<br>99287250,<br>99287262 | -         | -         | -         | -         | -         |
|                                                                  |                          |                                 |                                       |                          |                                 |                                                 |           |           |           |           |           |
|                                                                  |                          |                                 | UPS 15-55 SFC                         | 6 1/2                    | 2-bolt flange*                  | 59896773                                        | -         | -         | -         | -         | -         |
| Star 16 BFX                                                      | 6 3/8                    | 2-bolt flange-R                 | ALPHA2 15-55 SFC,<br>ALPHA1 15-55 SFC | 6 1/2                    | 2-bolt flange*                  | 99163937,<br>99163972,<br>99287250,<br>99287262 | -         | -         | -         | -         | -         |
|                                                                  |                          |                                 |                                       |                          |                                 |                                                 |           |           |           |           |           |
|                                                                  |                          |                                 | UPS 15-55 SFC                         | 6 1/2                    | 2-bolt flange*                  | 59896773                                        | -         | -         | -         | -         | -         |
| Star S 16 BFX                                                    | 6 3/8                    | 2-bolt flange-R                 | ALPHA2 15-55 SFC,<br>ALPHA1 15-55 SFC | 6 1/2                    | 2-bolt flange*                  | 99163937,<br>99163972,<br>99287250,<br>99287262 | -         | -         | -         | -         | -         |
|                                                                  |                          |                                 |                                       |                          |                                 |                                                 |           |           |           |           |           |
|                                                                  |                          |                                 | UPS 15-55 SFC                         | 6 1/2                    | 2-bolt flange                   | 59896773                                        | -         | -         | -         | -         | -         |
| Star 21 BF                                                       | 6 3/8                    | 2-bolt flange                   | ALPHA2 15-55 SFC,<br>ALPHA1 15-55 SFC | 6 1/2                    | 2-bolt flange*                  | 99163937,<br>99163972,<br>99287250,<br>99287262 | -         | -         | -         | -         | -         |
|                                                                  |                          |                                 |                                       |                          |                                 |                                                 |           |           |           |           |           |
|                                                                  |                          |                                 | UPS 15-55 SFC                         | 6 1/2                    | 2-bolt flange*                  | 59896773                                        | -         | -         | -         | -         | -         |
| Star 21 BFX                                                      | 6 3/8                    | 2-bolt flange-R                 | ALPHA2 15-55 SFC,<br>ALPHA1 15-55 SFC | 6 1/2                    | 2-bolt flange*                  | 99163937,<br>99163972,<br>99287250,<br>99287262 | -         | -         | -         | -         | -         |
|                                                                  |                          |                                 |                                       |                          |                                 |                                                 |           |           |           |           |           |
|                                                                  |                          |                                 | UPS 15-55 SFC                         | 6 1/2                    | 2-bolt flange                   | 59896773                                        | -         | -         | -         | -         | -         |
| Star 21 SF                                                       | 6 3/8                    | 2-bolt flange                   | ALPHA2 15-55 SFC,<br>ALPHA1 15-55 SFC | 6 1/2                    | 2-bolt flange*                  | 99163937,<br>99163972,<br>99287250,<br>99287262 | -         | -         | -         | -         | -         |
|                                                                  |                          |                                 |                                       |                          |                                 |                                                 |           |           |           |           |           |
|                                                                  |                          |                                 | UPS 15-55 SFC                         | 6 1/2                    | 2-bolt flange*                  | 59896773                                        | -         | -         | -         | -         | -         |
| Star S 21 BFX                                                    | 6 3/8                    | 2-bolt flange-R                 | ALPHA2 15-55 SFC,<br>ALPHA1 15-55 SFC | 6 1/2                    | 2-bolt flange*                  | 99163937,<br>99163972,<br>99287250,<br>99287262 | -         | -         | -         | -         | -         |
|                                                                  |                          |                                 |                                       |                          |                                 |                                                 |           |           |           |           |           |
|                                                                  |                          |                                 |                                       |                          |                                 | 98961756                                        | -         | 98961739  | -         | -         | -         |
| Star 30 BU                                                       | 6                        | 3/4" union                      | UPS 26-96 SF                          | 6 1/2                    | 2-bolt flange*                  | -                                               | 98052760  | 98052760  | 98052760  | 98052760  | -         |
|                                                                  |                          | 3/4" union                      | Magna 32-100 FN                       | 6 1/2                    | 2-bolt flange*                  | -                                               | 98052760  | 98052760  | 98052760  | 98052760  | -         |
|                                                                  |                          | 1" union                        | UPS 26-96 SF                          | 6 1/2                    | 2-bolt flange*                  | 98961756                                        | -         | 98961739  |           |           |           |
|                                                                  |                          | 1" union                        | Magna 32-100 FN                       | 6 1/2                    | 2-bolt flange*                  | -                                               | 98052760  | 98052760  | 98052760  | 98052760  | -         |
| Star 32 BF                                                       | 6 3/8                    | 2-bolt flange                   | -                                     | -                        | -                               | -                                               | -         | -         | -         | -         | -         |

\* May not match specific competitive flange orientation.

Grundfos provides no guarantee as to the accuracy of competitor information listed herein.

| Competitor cross-reference for Wilo                              |                          |                              |                                    |                          |                              |                                        |           |           |           |           |           |
|------------------------------------------------------------------|--------------------------|------------------------------|------------------------------------|--------------------------|------------------------------|----------------------------------------|-----------|-----------|-----------|-----------|-----------|
| Open systems: Stainless steel and lead-free bronze pump housings |                          |                              |                                    |                          |                              |                                        |           |           |           |           |           |
| Wilo model                                                       | Port-to-port length [in] | Flange size/ connection type | Grundfos model                     | Port-to-port length [in] | Flange size/ connection type | Grundfos product number                |           |           |           |           |           |
|                                                                  |                          |                              |                                    |                          |                              | 1 x 115 V                              | 1 x 208 V | 1 x 230 V | 3 x 208 V | 3 x 230 V | 3 x 460 V |
| Stratos ECO 16BFX                                                | 6 1/2                    | 2-bolt flange-R              | ALPHA2 15-55 SFC, ALPHA1 15-55 SFC | 6 1/2                    | 2-bolt flange*               | 99163937, 99163972, 99287250, 99287262 | -         | -         | -         | -         | -         |

\* May not match specific competitive flange orientation.

Grundfos provides no guarantee as to the accuracy of competitor information listed herein.

## Closed systems: Cast iron pump housings

| Competitor cross-reference for Wilo<br>Closed systems: Cast iron pump housings |                          |                                 |                                       |                          |                                 |                                                 |           |           |           |           |           |
|--------------------------------------------------------------------------------|--------------------------|---------------------------------|---------------------------------------|--------------------------|---------------------------------|-------------------------------------------------|-----------|-----------|-----------|-----------|-----------|
| Wilo model                                                                     | Port-to-port length [in] | Flange size/<br>connection type | Grundfos model                        | Port-to-port length [in] | Flange size/<br>connection type | Grundfos product number                         |           |           |           |           |           |
|                                                                                |                          |                                 |                                       |                          |                                 | 1 x 115 V                                       | 1 x 208 V | 1 x 230 V | 3 x 208 V | 3 x 230 V | 3 x 460 V |
| Star 5 FX                                                                      | 6 3/8                    | 2-bolt flange-R                 | UP 15-10 FR                           | 6 1/2                    | 2-bolt flange-R                 | 59896249                                        | -         | -         | -         | -         | -         |
| Star 16 F                                                                      | 6 3/8                    | 2-bolt flange                   | UP 15-10 F                            | 6 1/2                    | 2-bolt flange                   | 59896248                                        | -         | -         | -         | -         | -         |
|                                                                                |                          |                                 | UPS 15-58 FRC                         | 6 1/2                    | 2-bolt flange-R                 | 59896343                                        | -         | -         | -         | -         | -         |
| Star 16 FX                                                                     | 6 3/8                    | 2-bolt flange-R                 | ALPHA2 15-55 FRC,<br>ALPHA1 15-55 FRC | 6 1/2                    | 2-bolt flange-R                 | 99163932,<br>99163934,<br>99287244,<br>99287259 | -         | -         | -         | -         | -         |
|                                                                                |                          |                                 | UPS 15-58 FC                          | 6 1/2                    | 2-bolt flange                   | 59896341                                        | -         | -         | -         | -         | -         |
| Star S 16 F                                                                    | 6 3/8                    | 2-bolt flange                   | ALPHA2 15-55 FC,<br>ALPHA1 15-55 FC   | 6 1/2                    | 2-bolt flange                   | 99163903,<br>99163906,<br>99285998,<br>99287256 | -         | -         | -         | -         | -         |
|                                                                                |                          |                                 | UPS 15-58 FRC                         | 6 1/2                    | 2-bolt flange-R                 | 59896343                                        | -         | -         | -         | -         | -         |
| Star S 16 FX                                                                   | 6 3/8                    | 2-bolt flange-R                 | ALPHA2 15-55 FRC,<br>ALPHA1 15-55 FRC | 6 1/2                    | 2-bolt flange-R                 | 99163932,<br>99163934,<br>99287244,<br>99287259 | -         | -         | -         | -         | -         |
| Star 17 FX                                                                     | 8 1/2                    | 2-bolt flange-R                 | UPS 43-44 FC                          | 8 1/2                    | 2-bolt flange*                  | 52722514                                        | -         | 52722515  | -         | -         | -         |
| Star 21 F                                                                      | 6 3/8                    | 2-bolt flange                   | ALPHA2 15-55 FC,<br>ALPHA1 15-55 FC   | 6 1/2                    | 2-bolt flange                   | 99163903,<br>99163906,<br>99285998,<br>99287256 | -         | -         | -         | -         | -         |
| Star 21 FX                                                                     | 6 3/8                    | 2-bolt flange-R                 | ALPHA2 15-55 FRC,<br>ALPHA1 15-55 FRC | 6 1/2                    | 2-bolt flange-R                 | 99163932,<br>99163934,<br>99287244,<br>99287259 | -         | -         | -         | -         | -         |
| Star S 21 F                                                                    | 6 3/8                    | 2-bolt flange                   | ALPHA2 15-55 FC,<br>ALPHA1 15-55 FC   | 6 1/2                    | 2-bolt flange                   | 99163903,<br>99163906,<br>99285998,<br>99287256 | -         | -         | -         | -         | -         |
| Star S 21 FX                                                                   | 6 3/8                    | 2-bolt flange-R                 | ALPHA2 15-55 FRC,<br>ALPHA1 15-55 FRC | 6 1/2                    | 2-bolt flange-R                 | 99163932,<br>99163934,<br>99287244,<br>99287259 | -         | -         | -         | -         | -         |
| Star 30 F                                                                      | 6 1/2                    | 2-bolt flange                   | UPS 26-99 FC                          | 6 1/2                    | 2-bolt flange                   | 52722512                                        | -         | 52722513  | -         | -         | -         |
|                                                                                |                          |                                 | Magna 32-100 FN                       | 6 1/2                    | 2-bolt flange*                  | -                                               | 98052760  | 98052760  | 98052760  | 98052760  | -         |
| Star 32 F                                                                      | 6 3/8                    | 2-bolt flange                   | UP 15-100 F                           | 6 1/2                    | 2-bolt flange                   | 59896300                                        | -         | -         | -         | -         | -         |
| Stratos ECO 16F                                                                | 6 1/2                    | 2-bolt flange                   | ALPHA2 15-55 FC,<br>ALPHA1 15-55 FC   | 6 1/2                    | 2-bolt flange                   | 99163903,<br>99163906,<br>99285998,<br>99287256 | -         | -         | -         | -         | -         |
| Stratos ECO 16FX                                                               | 6 1/2                    | 2-bolt flange-R                 | ALPHA2 15-55 FRC,<br>ALPHA1 15-55 FRC | 6 1/2                    | 2-bolt flange-R                 | 99163932,<br>99163934,<br>99287244,<br>99287259 | -         | -         | -         | -         | -         |

\* May not match specific competitive flange orientation.

Grundfos provides no guarantee as to the accuracy of competitor information listed herein.

## Discontinued products

These tables show the new products or part numbers which replace discontinued products or part numbers.

### Product number update for UP with new digital timer and line cord

| Model           | Old product number | New product number |
|-----------------|--------------------|--------------------|
| UP15-10B5/TLC   | 59896215           | 99452454           |
| UP15-10B7/TLC   | 59896210           | 99452455           |
| UP15-10BUC5/TLC | 59896238           | 99452457           |
| UP15-10BUC7/TLC | 59896240           | 99452458           |
| UP15-18B5/TLC   | 59896212           | 99452460           |
| UP15-18B7/TLC   | 59896230           | 99452461           |
| UP15-29SUC/TLC  | 59896777           | 99452462           |
| UP15-42B5/TLC   | 59896234           | 99452473           |
| UP15-42B7/TLC   | 59896236           | 99452477           |
| UPS15-35SUC/TLC | 59896780           | 99452478           |
| UPS15-55SUC/TLC | 59896783           | 99452479           |

## UP(S)

| Stainless steel, flanged 115 V |                          |                   |                          |
|--------------------------------|--------------------------|-------------------|--------------------------|
| Old model                      | Old model product number | New model         | New model product number |
| UP 15-18 SF                    | 59896125                 | UP 15-29 SF       | 59896771                 |
| UP 15-42 SF                    | 59896171                 | UPS 15-35 SFC     | 59896772                 |
| UPS 15-42 SF                   | 59896247                 | UPS 15-55 SFC     | 59896773                 |
| UP 25-64 SF                    | 52722322                 |                   |                          |
| Stainless steel, union 115 V   |                          |                   |                          |
| UP 15-18 SU                    | 59896127                 | UP 15-29 SU       | 59896775                 |
| UP 15-18 SU/LC                 | 59896231                 | UP 15-29 SU/LC    | 59896776                 |
| UP 15-18 SU/TLC                | 59896232                 | UP 15-29 SU/TLC   | 99452462                 |
| UP 15-42 SU                    | 59896174                 | UPS 15-35 SUC     | 59896778                 |
|                                |                          | UPS 15-35 SUC/LC  | 59896779                 |
|                                |                          | UPS 15-35 SUC/TLC | 99452478                 |
|                                |                          | UPS 15-55 SUC     | 59896781                 |
| UPS 15-42 SU, UP 25-64 SU      | 59896130, 52722322       | UPS 15-55 SUC/LC  | 59896782                 |
|                                |                          | UPS 15-55 SUC/TLC | 99452479                 |
| Stainless steel, union 230 V   |                          |                   |                          |
| UP 15-18 SU                    | 59896130                 | UP 15-29 SU       | 59896784                 |
| UP 15-42 SU                    | 59896172                 | UP 15-35 SUC      | 59896785                 |
| UP 25-64 SU                    | 52722323                 | UP 15-55 SUC      | 59896786                 |
| UPS 26-96 BF                   | 52722334                 | UPS 26-96 SF      | 98961739                 |
|                                | 52722336                 |                   | 98961756                 |
| UPS 26-99 BF                   | 52722346                 | UPS 26-99 SFC     | 98961760                 |
|                                | 52722347                 |                   | 98961762                 |
|                                | 52722518                 |                   | 98961763                 |
|                                | 52722519                 |                   | 98961765                 |
|                                | UPS 26-116 BF            |                   | 52722393                 |

**ALPHA**

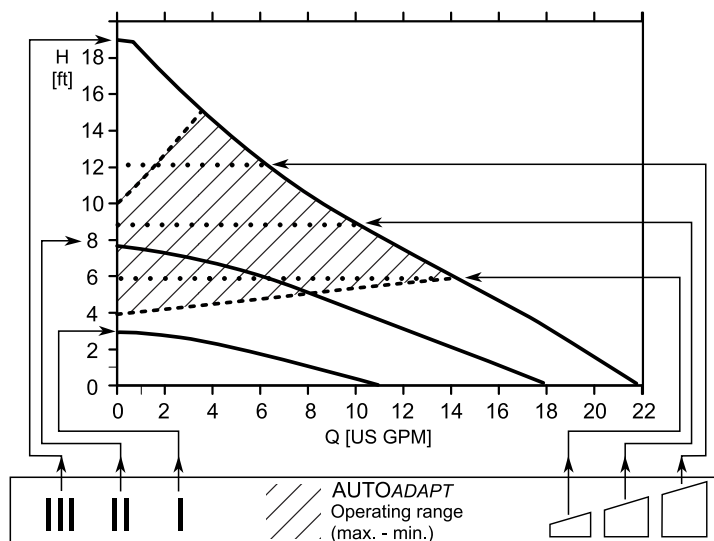
| <b>Cast iron, flanged 115 V</b>       |                       |                               |                       |
|---------------------------------------|-----------------------|-------------------------------|-----------------------|
| <b>Old model</b>                      | <b>Product number</b> | <b>New model</b>              | <b>Product number</b> |
| ALPHA 15-55F                          | 59896877              | ALPHA2 15-55F                 | 99163903              |
| ALPHA 15-55F/LC (line cord)           | 59896832              | ALPHA2 15-55F/LC              | 99163906              |
| ALPHA 15-55FR                         | 59896878              | ALPHA2 15-55FR                | 99163932              |
| ALPHA 15-55FR/LC (line cord)          | 59896833              | ALPHA2 15-55FR/LC             | 99163934              |
| <b>Stainless steel, flanged 115 V</b> |                       |                               |                       |
| ALPHA 15-55SF                         | 59896879              | ALPHA2 15-55SF                | 99163937              |
| ALPHA 15-55SF/LC (line cord)          | 59896834              | ALPHA2 15-55SF/LC (line cord) | 99163972              |

## 2. Performance ranges

### ALPHA2

#### Performance and operating mode selection

The hydraulic performance shown is without check valve.



TM04 6025 0611

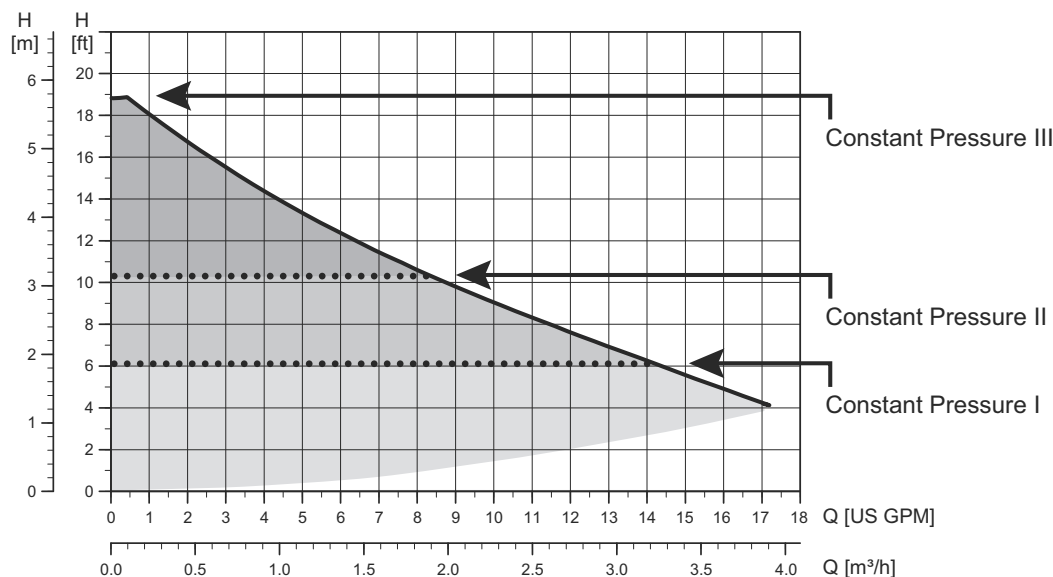
| Pos. | Description                                                                                                                                                                                                                                                                                                                 |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | <ul style="list-style-type: none"> <li>Push-button for selection of pump setting</li> <li>Every time the push-button is pressed, the circulator pump setting is changed.</li> </ul>                                                                                                                                         |
| III  | <b>High, fixed speed</b> <ul style="list-style-type: none"> <li>Runs at a constant speed and consequently on a constant curve. In Speed III, the pump is set on the maximum curve under all operating conditions. Quick venting of the pump can be obtained by setting the pump to Speed III for a short period.</li> </ul> |
| II   | <b>Medium, fixed speed</b> <ul style="list-style-type: none"> <li>Runs at a constant speed and consequently on a constant curve. In Speed II, the pump is set on the medium curve under all operating conditions.</li> </ul>                                                                                                |
| I    | <b>Low, fixed speed</b> <ul style="list-style-type: none"> <li>Runs at a constant speed and consequently on a constant curve. In Speed I, the pump is set on the minimum curve under all operating conditions.</li> </ul>                                                                                                   |

| Pos. | Description                                                                                                                                                                                                                                                                                            |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | <b>Constant pressure I</b> <ul style="list-style-type: none"> <li>The duty point of the pump will move left and right along the lowest constant-pressure curve depending on the water demand in the system. The pump head (pressure) is kept constant, irrespective of the water demand.</li> </ul>    |
|      | <b>Constant pressure II</b> <ul style="list-style-type: none"> <li>The duty point of the pump will move left and right along the middle constant-pressure curve depending on the water demand in the system. The pump head (pressure) is kept constant, irrespective of the water demand.</li> </ul>   |
|      | <b>Constant pressure III</b> <ul style="list-style-type: none"> <li>The duty point of the pump will move left and right along the highest constant-pressure curve depending on the water demand in the system. The pump head (pressure) is kept constant, irrespective of the water demand.</li> </ul> |
|      | <b>AUTO<sub>ADAPT</sub>™ (factory setting)</b> <ul style="list-style-type: none"> <li>This function controls the pump performance automatically within the defined performance range, automatically adjusting the pump performance to system demands over time.</li> </ul>                             |

## ALPHA1

### Performance and operating mode selection

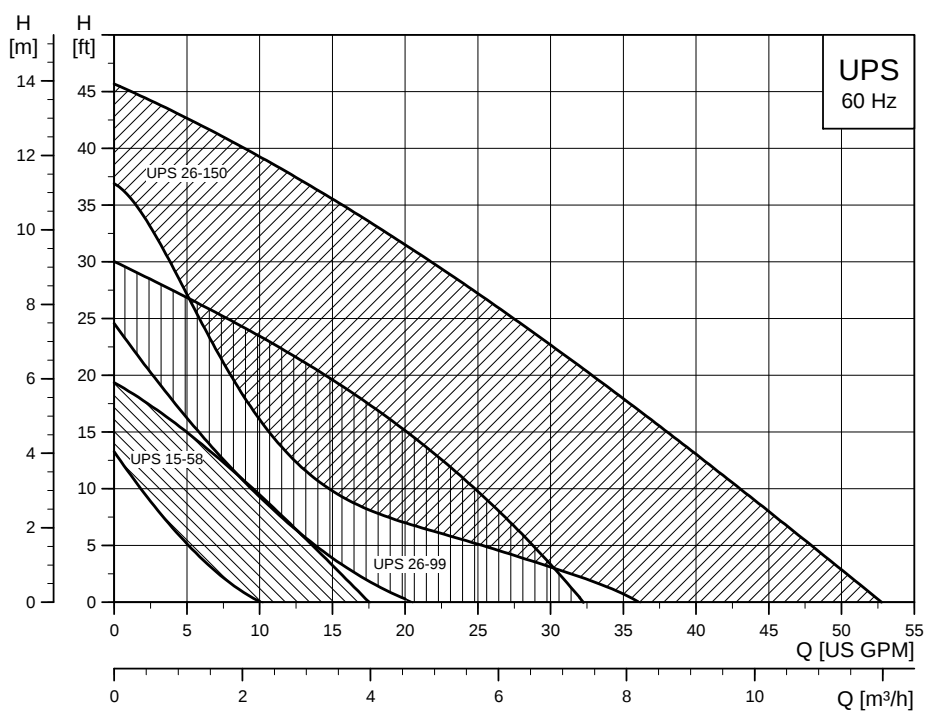
The hydraulic performance shown is without check valve.



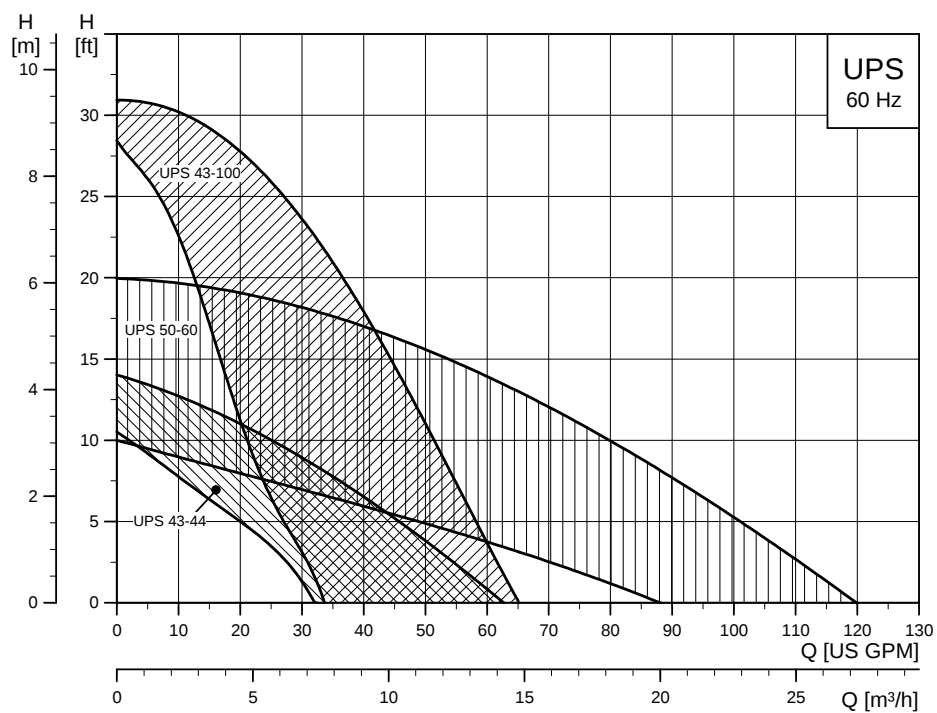
TM06 8910 1417

| Pos. | Description                                                                                                                                                                                                                                                                |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      |  <ul style="list-style-type: none"> <li>• Push-button for selection of pump setting.</li> <li>• Every time the push-button is pressed, the circulator pump setting is changed.</li> </ul> |
| III  | <b>Constant pressure III</b> <ul style="list-style-type: none"> <li>• The duty point of the pump will move left and right along the highest constant-pressure curve depending on the water demand in the system.</li> </ul>                                                |
| II   | <b>Constant pressure II</b> <ul style="list-style-type: none"> <li>• The duty point of the pump will move left and right along the middle constant-pressure curve depending on the water demand in the system.</li> </ul>                                                  |
| I    | <b>Constant pressure I</b> <ul style="list-style-type: none"> <li>• The duty point of the pump will move left and right along the lowest constant-pressure curve depending on the water demand in the system.</li> </ul>                                                   |

## UPS, 3-speed

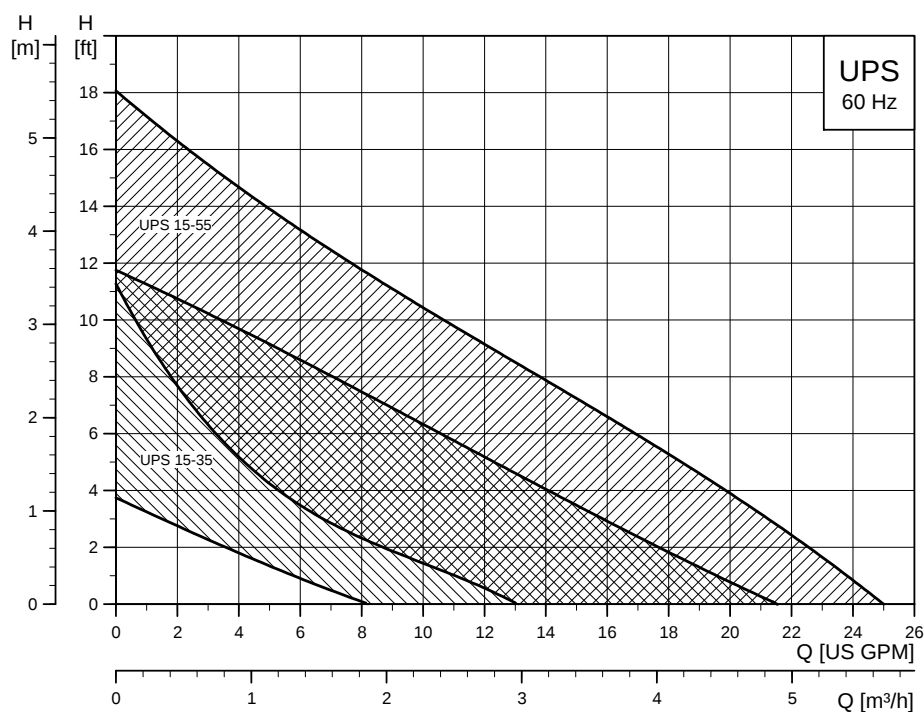


TM04 5461 3209



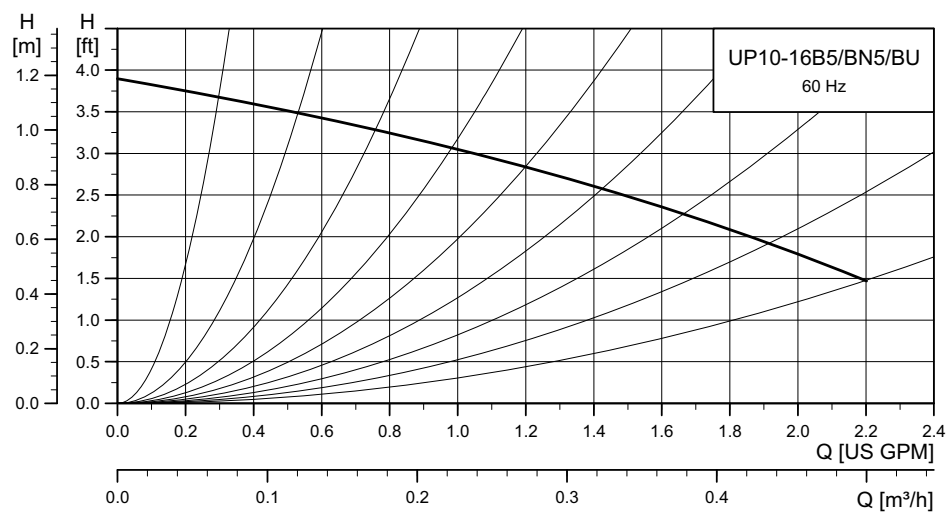
TM04 5460 3209

## UPS, cross-reference 3-speed, stainless steel



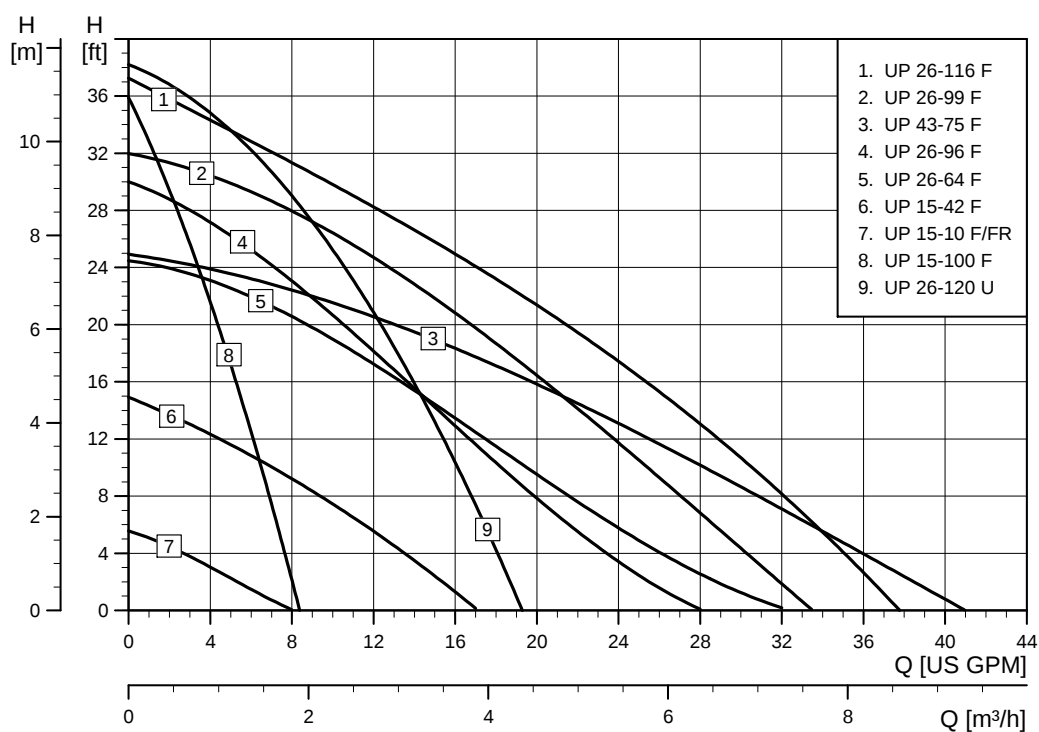
TM04 5462 3209

## UP 10-16 A/PM B5/BN5/BU



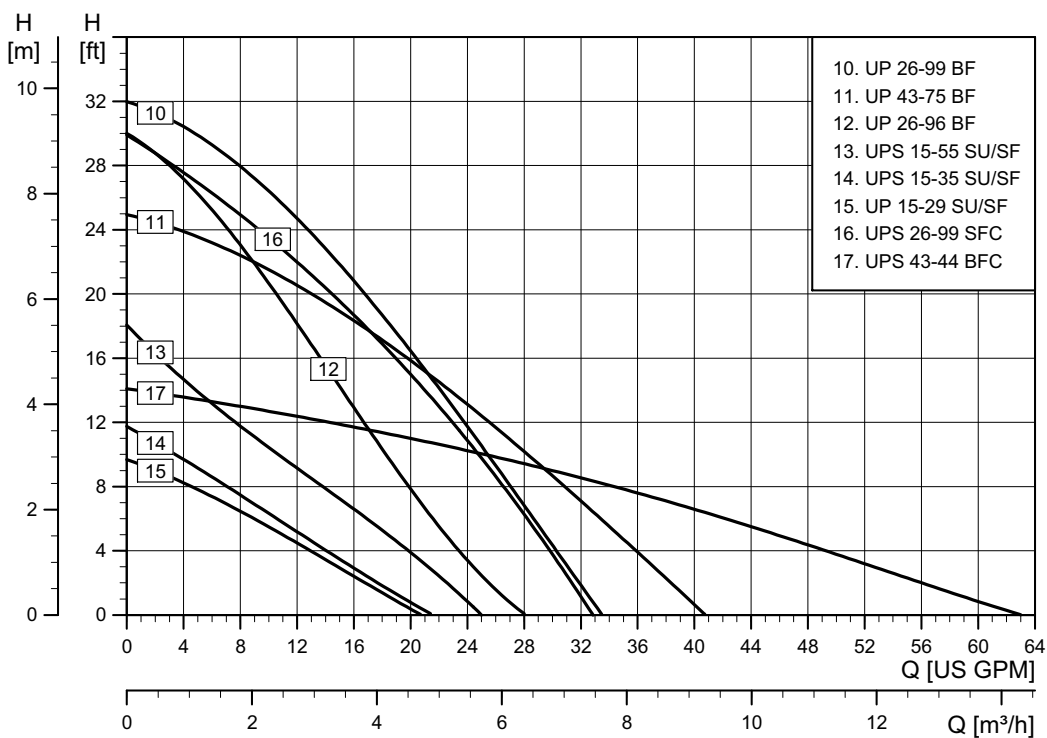
TM06 0178 4913

## UP, closed systems



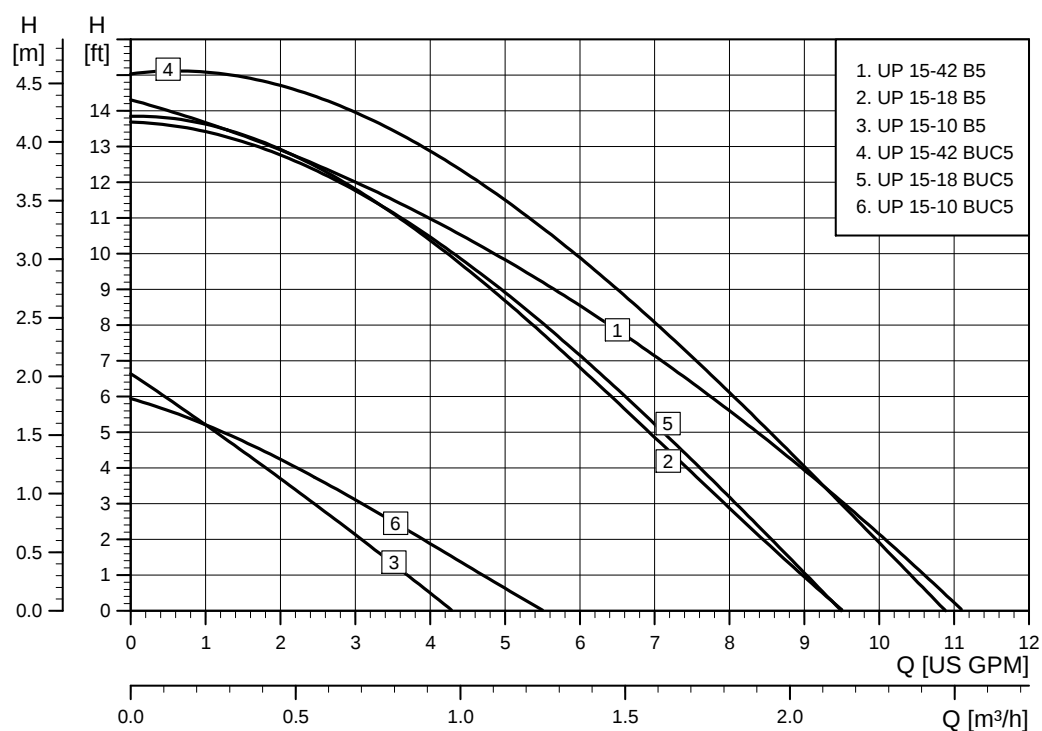
TM03 9128 3507

## UP/UPS, open systems



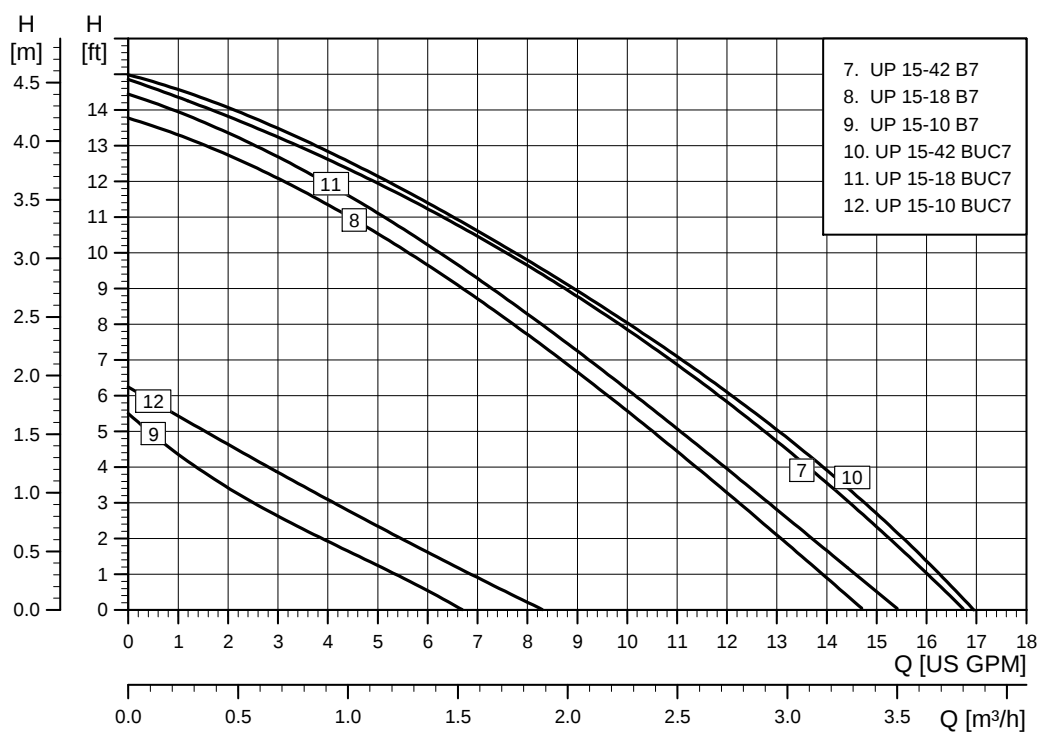
TM03 9129 4516

## UP, open systems, 1/2"



TM03 9131 3507

## UP, open systems, 3/4"



TM03 9132 3507

## 3. Product range

### Cast iron

| Closed systems        | Product number |          | Flow rate |                     | Head   |            | Flanged | Union | Check valve | Line cord | Auto | Page               |
|-----------------------|----------------|----------|-----------|---------------------|--------|------------|---------|-------|-------------|-----------|------|--------------------|
|                       | 115 V          | 230 V    | [gpm]     | [m <sup>3</sup> /h] | [ft]   | [m]        |         |       |             |           |      |                    |
| ALPHA2 15-55 FC**     | 99163903       | -        | 0 - 21.5  | 0 - 4.9             | 0 - 19 | 0 - 5.8    | •       |       | •           |           | •    | <a href="#">65</a> |
| ALPHA2 15-55 F/LC**   | 99163906       | -        | 0 - 21.5  | 0 - 4.9             | 0 - 19 | 0 - 5.8    | •       |       | •           | •         | •    | <a href="#">65</a> |
| ALPHA2 15-55 FRC**    | 99163932       | -        | 0 - 21.5  | 0 - 4.9             | 0 - 19 | 0 - 5.8    | •       |       | •           |           | •    | <a href="#">65</a> |
| ALPHA2 15-55 FR/LC**  | 99163934       | -        | 0 - 21.5  | 0 - 4.9             | 0 - 19 | 0 - 5.8    | •       |       | •           | •         | •    | <a href="#">65</a> |
| ALPHA1 15-55 FC***    | 99287256       | -        | 0 - 17    | 0 - 3.9             | 0 - 19 | 0 - 5.8    | •       |       | •           |           |      | <a href="#">67</a> |
| ALPHA1 15-55 F/LC***  | 99285998       | -        | 0 - 17    | 0 - 3.9             | 0 - 19 | 0 - 5.8    | •       |       | •           | •         |      | <a href="#">67</a> |
| ALPHA1 15-55 FRC***   | 99287259       | -        | 0 - 17    | 0 - 3.9             | 0 - 19 | 0 - 5.8    | •       |       | •           |           |      | <a href="#">67</a> |
| ALPHA1 15-55 FR/LC*** | 99287244       | -        | 0 - 17    | 0 - 3.9             | 0 - 19 | 0 - 5.8    | •       |       | •           | •         |      | <a href="#">67</a> |
| UP 15-10 F            | 59896248       | -        | 0 - 8     | 0 - 1.8             | 0 - 5  | 0 - 1.5    | •       |       |             |           |      | <a href="#">49</a> |
| UP 15-10 FR           | 59896249       | -        | 0 - 8     | 0 - 1.8             | 0 - 5  | 0 - 1.5    | •       |       |             |           |      | <a href="#">49</a> |
| UP 15-42 FC/MR*       | 59896804       | -        | 0 - 16    | 0 - 3.6             | 0 - 14 | 0 - 4.3    | •       |       | •           |           |      | <a href="#">61</a> |
| UP 15-42 F            | 59896155       | 59896173 | 0 - 17    | 0 - 3.9             | 0 - 15 | 0 - 4.6    | •       |       |             |           |      | <a href="#">59</a> |
| UP 15-42 FR           | 59896167       | 59896274 | 0 - 17    | 0 - 3.9             | 0 - 15 | 0 - 4.6    | •       |       |             |           |      | <a href="#">59</a> |
| UP 15-42 F/VS*        | 59896807       | -        | 0 - 16    | 0 - 3.6             | 0 - 15 | 0 - 4.6    | •       |       |             |           |      | <a href="#">62</a> |
| UPS 15-42 F           | -              | 59896180 | 0 - 17    | 0 - 3.9             | 0 - 16 | 0 - 4.9    | •       |       |             |           |      | <a href="#">60</a> |
| UPS 15-58 FC          | 59896341       | -        | 0 - 17    | 0 - 3.9             | 0 - 19 | 0 - 5.8    | •       |       | •           |           |      | <a href="#">69</a> |
| UPS 15-58 FRC         | 59896343       | -        | 0 - 17    | 0 - 3.9             | 0 - 19 | 0 - 5.8    | •       |       | •           |           |      | <a href="#">69</a> |
| UP 15-100 F           | 59896300       | -        | 0 - 8.5   | 0 - 1.9             | 0 - 33 | 0 - 10.1   | •       |       |             |           |      | <a href="#">70</a> |
| UP 26-64 F            | 52722330       | 52722327 | 0 - 32    | 0 - 7.3             | 0 - 24 | 0 - 7.3    | •       |       |             |           |      | <a href="#">71</a> |
| UP 26-64 F/VS*        | 52722553       | -        | 0 - 34    | 0 - 7.7             | 0 - 24 | 0 - 7.3    | •       |       |             |           |      | <a href="#">72</a> |
| UP 26-96 F            | 52722341       | 52722338 | 0 - 27    | 0 - 6.1             | 0 - 30 | 0 - 9.1    | •       |       |             |           |      | <a href="#">73</a> |
| UP 26-96 F/VS*        | 52722552       | -        | 0 - 32    | 0 - 7.3             | 0 - 30 | 0 - 9.1    | •       |       |             |           |      | <a href="#">74</a> |
| UP 26-99 F            | 52722355       | 52722351 | 0 - 34    | 0 - 7.7             | 0 - 32 | 0 - 9.8    | •       |       |             |           |      | <a href="#">75</a> |
| UPS 26-99 FC          | 52722512       | 52722513 | 0 - 33    | 0 - 7.5             | 0 - 29 | 0 - 8.8    | •       |       | •           |           |      | <a href="#">76</a> |
| UP 26-116 F           | -              | 52722377 | 0 - 38    | 0 - 8.6             | 0 - 37 | 0 - 11.3   | •       |       |             |           |      | <a href="#">77</a> |
| UP 26-120 U           | 52722435       | 52722436 | 0 - 19    | 0 - 4.3             | 0 - 38 | 0 - 11.6   |         | •     |             |           |      | <a href="#">78</a> |
| UPS 26-150 F          | 95906630       | 95906631 | 0 - 51    | 0 - 11.6            | 0 - 45 | 0 - 13.7   | •       |       |             |           |      | <a href="#">79</a> |
| UP 43-44 F            | 52722437       | 52722438 | 0 - 64    | 0 - 14.5            | 0 - 13 | 0 - 4.0    | •       |       |             |           |      | <a href="#">80</a> |
| UPS 43-44 FC          | 52722514       | 52722515 | 0 - 41    | 0 - 9.3             | 0 - 25 | 0 - 7.6    | •       |       | •           |           |      | <a href="#">81</a> |
| UP 43-70 F            | 96439644       | -        | 15 - 85   | 3.4 - 19.3          | 1 - 24 | 0.3 - 7.3  | •       |       |             |           |      | <a href="#">82</a> |
| UP 43-75 F            | 52722373       | 52722372 | 0 - 40    | 0 - 9.1             | 0 - 26 | 0 - 7.9    | •       |       |             |           |      | <a href="#">83</a> |
| UPS 43-100 F          | 95906636       | 95906637 | 0 - 65    | 0 - 14.8            | 0 - 31 | 0 - 9.4    | •       |       |             |           |      | <a href="#">84</a> |
| UP 43-110 F           | 96439643       | -        | 0 - 90    | 0 - 20.4            | 1 - 37 | 0.3 - 11.3 | •       |       |             |           |      | <a href="#">85</a> |
| UPS 50-44 F           | 52722557       | 52722558 | 0 - 65    | 0 - 14.8            | 0 - 14 | 0 - 4.3    | •       |       |             |           |      | <a href="#">86</a> |
| UPS 50-60 F           | 97523134       | 97523135 | 0 - 125   | 0 - 28.4            | 0 - 21 | 0 - 6.4    | •       |       |             |           |      | <a href="#">87</a> |
| UP 50-75 F            | 52722352       | 52722353 | 0 - 40    | 0 - 9.1             | 0 - 25 | 0 - 7.62   | •       |       |             |           |      | <a href="#">88</a> |

\* VS - variable speed, MR - MixiMizer™

\*\* ALPHA2 is a variable-speed model with AUTO<sub>ADAPT</sub>™.

\*\*\* ALPHA1 is a model with three constant-pressure settings.

## Bronze

| Open systems         | Product number |          | Flow rate |          | Head    |         | Flanged | Union | NPT | Sweat | Check valve | Timer | Line cord | Auto | Page |
|----------------------|----------------|----------|-----------|----------|---------|---------|---------|-------|-----|-------|-------------|-------|-----------|------|------|
|                      | 115 V          | 230 V    | [gpm]     | [m³/h]   | [ft]    | [m]     |         |       |     |       |             |       |           |      |      |
| UP 10-16 PM B5/LC    | 98420206       | -        | 0 - 2.2   | 0 - 0.5  | 0 - 3.9 | 0 - 1.2 |         |       |     | •     |             |       |           |      | 45   |
| UP 10-16 A PM B5/LC  | 98420222       | -        | 0 - 2.2   | 0 - 0.5  | 0 - 3.9 | 0 - 1.2 |         |       |     | •     |             | •     | •         | •    | 45   |
| UP 10-16 PM BN5/LC   | 98420210       | -        | 0 - 2.2   | 0 - 0.5  | 0 - 3.9 | 0 - 1.2 |         |       | •   |       |             |       | •         |      | 45   |
| UP 10-16 A PM BN5/LC | 98420223       | -        | 0 - 2.2   | 0 - 0.5  | 0 - 3.9 | 0 - 1.2 |         |       | •   |       |             | •     | •         | •    | 45   |
| UP 10-16 A PM BU/LC  | 98420224       | -        | 0 - 2.2   | 0 - 0.5  | 0 - 3.9 | 0 - 1.2 |         | •     |     |       | •           | •     | •         | •    | 45   |
| UP 15-10 B5          | 59896213       | -        | 0 - 9     | 0 - 2.0  | 0-6     | 0 - 1.8 |         |       |     | •     |             |       |           |      | 47   |
| UP 15-10 B5/LC       | 59896214       | -        | 0 - 9     | 0 - 2.0  | 0-6     | 0 - 1.8 |         |       |     | •     |             |       | •         |      | 47   |
| UP 15-10 B5/TLC      | 99452454       | -        | 0 - 9     | 0 - 2.0  | 0-6     | 0 - 1.8 |         |       |     | •     |             | •     | •         |      | 47   |
| UP 15-10 B7          | 59896226       | -        | 0 - 9     | 0 - 2.0  | 0-6     | 0 - 1.8 |         |       |     | •     |             |       |           |      | 47   |
| UP 15-10 B7/LC       | 59896209       | -        | 0 - 9     | 0 - 2.0  | 0-6     | 0 - 1.8 |         |       |     | •     |             |       | •         |      | 47   |
| UP 15-10 B7/TLC      | 99452455       | -        | 0 - 9     | 0 - 2.0  | 0-6     | 0 - 1.8 |         |       |     | •     |             | •     | •         |      | 47   |
| UP 15-10 BUC5        | 59896225       | -        | 0 - 9     | 0 - 2.0  | 0-6     | 0 - 1.8 |         | •     |     |       | •           |       |           |      | 48   |
| UP 15-10 BUC5/LC     | 59896237       | -        | 0 - 9     | 0 - 2.0  | 0-6     | 0 - 1.8 |         | •     |     |       | •           |       | •         |      | 48   |
| UP 15-10 BUC5/TLC    | 99452457       | -        | 0 - 9     | 0 - 2.0  | 0-6     | 0 - 1.8 |         | •     |     |       | •           | •     | •         |      | 48   |
| UP 15-10 BUC7        | 59896241       | -        | 0 - 9     | 0 - 2.0  | 0-6     | 0 - 1.8 |         | •     |     |       | •           |       |           |      | 48   |
| UP 15-10 BUC7/LC     | 59896239       | -        | 0 - 9     | 0 - 2.0  | 0-6     | 0 - 1.8 |         | •     |     |       | •           |       | •         |      | 48   |
| UP 15-10 BUC7/TLC    | 99452458       | -        | 0 - 9     | 0 - 2.0  | 0-6     | 0 - 1.8 |         | •     |     |       | •           | •     | •         |      | 48   |
| UP 15-18 B5          | 59896114       | 59896118 | 0 - 15    | 0 - 3.4  | 0-14    | 0 - 4.3 |         |       |     | •     |             |       |           |      | 51   |
| UP 15-18 B5/LC       | 59896211       | -        | 0 - 15    | 0 - 3.4  | 0-14    | 0 - 4.3 |         |       |     | •     |             |       | •         |      | 51   |
| UP 15-18 B5/TLC      | 99452460       | -        | 0 - 15    | 0 - 3.4  | 0-14    | 0 - 4.3 |         |       |     | •     |             | •     | •         |      | 51   |
| UP 15-18 B7          | 59896121       | 59896119 | 0 - 15    | 0 - 3.4  | 0-14    | 0 - 4.3 |         |       |     | •     |             |       |           |      | 51   |
| UP 15-18 B7/LC       | 59896229       | -        | 0 - 15    | 0 - 3.4  | 0-14    | 0 - 4.3 |         |       |     | •     |             |       | •         |      | 51   |
| UP 15-18 B7/TLC      | 99452461       | -        | 0 - 15    | 0 - 3.4  | 0-14    | 0 - 4.3 |         |       |     | •     |             | •     | •         |      | 51   |
| UP 15-18 BUC5        | 59896123       | -        | 0 - 12    | 0 - 2.7  | 0-16    | 0 - 4.9 |         | •     |     |       | •           |       |           |      | 52   |
| UP 15-18 BUC7        | 59896124       | -        | 0 - 12    | 0 - 2.7  | 0-16    | 0 - 4.9 |         | •     |     |       | •           |       |           |      | 52   |
| UP 15-42 B5          | 59896145       | 59896142 | 0 - 17    | 0 - 3.9  | 0-15    | 0 - 4.6 |         |       |     | •     |             |       |           |      | 56   |
| UP 15-42 B5/LC       | 59896233       | -        | 0 - 17    | 0 - 3.9  | 0-15    | 0 - 4.6 |         |       |     | •     |             |       | •         |      | 56   |
| UP 15-42 B5/TLC      | 99452473       | -        | 0 - 17    | 0 - 3.9  | 0-15    | 0 - 4.6 |         |       |     | •     |             | •     | •         |      | 56   |
| UP 15-42 B7          | 59896146       | 59896149 | 0 - 17    | 0 - 3.9  | 0-15    | 0 - 4.6 |         |       |     | •     |             |       |           |      | 56   |
| UP 15-42 B7/LC       | 59896235       | -        | 0 - 17    | 0 - 3.9  | 0-15    | 0 - 4.6 |         |       |     | •     |             |       | •         |      | 56   |
| UP 15-42 B7/TLC      | 99452477       | -        | 0 - 17    | 0 - 3.9  | 0-15    | 0 - 4.6 |         |       |     | •     |             | •     | •         |      | 56   |
| UP 15-42 BUC5        | 59896150       | -        | 0 - 16    | 0 - 3.6  | 0-15    | 0 - 4.6 |         | •     |     |       | •           |       |           |      | 57   |
| UP 15-42 BUC7        | 59896151       | -        | 0 - 16    | 0 - 3.6  | 0-15    | 0 - 4.6 |         | •     |     |       | •           |       |           |      | 57   |
| UP 15-42 BUC5/MR*    | 59896805       | -        | 0 - 8     | 0 - 1.8  | 0-14    | 0 - 4.3 |         | •     |     |       | •           |       |           |      | 57   |
| UP 15-42 BUC7/MR*    | 59896806       | -        | 0 - 14    | 0 - 3.2  | 0-15    | 0 - 4.6 |         | •     |     |       | •           |       |           |      | 57   |
| UP 43-44 BF          | 52722439       | 52722440 | 0 - 64    | 0 - 14.5 | 0-13    | 0 - 4.0 | •       |       |     |       |             |       |           |      | 80   |
| UPS 43-44 BFC        | 52722520       | 52722521 | 0 - 63    | 0 - 14.3 | 0-13    | 0 - 4.0 | •       |       |     |       | •           |       |           |      | 81   |
| UP 43-75 BF          | 52722370       | 52722369 | 0 - 45    | 0 - 10.2 | 0-26    | 0 - 7.9 | •       |       |     |       |             |       |           |      | 83   |

\* MR - MixiMizer™

## Stainless steel

| Open systems                               | Product number      |          | Flow rate |          | Head   |          | Flanged | Union | NPT | Sweat | Check valve | Timer | Line cord | Auto | Pg |
|--------------------------------------------|---------------------|----------|-----------|----------|--------|----------|---------|-------|-----|-------|-------------|-------|-----------|------|----|
|                                            | 115 V               | 230 V    | [gpm]     | [m³/h]   | [ft]   | [m]      |         |       |     |       |             |       |           |      |    |
| UP 15-10 SU7P/DTLC*,<br>UP 15-10 SU7P/TLC* | 595916,<br>99452459 | -        | 0 - 3     | 0 - 0.7  | 0 - 3  | 0 - 0.9  |         | •     | •   |       |             | •     | •         |      | 50 |
| ALPHA2 15-55 SF**                          | 99163937            | -        | 0 - 21.5  | 0 - 4.9  | 0 - 19 | 0 - 5.8  | •       |       |     |       | •           |       |           | •    | 65 |
| ALPHA2 15-55 SF/LC**                       | 99163972            | -        | 0 - 21.5  | 0 - 4.9  | 0 - 19 | 0 - 5.8  | •       |       |     |       | •           |       | •         | •    | 65 |
| ALPHA1 15-55 SF***                         | 99287262            | -        | 0 - 17    | 0 - 3.9  | 0 - 19 | 0 - 5.8  | •       |       |     |       | •           |       |           |      | 67 |
| ALPHA1 15-55 SF/LC***                      | 99287250            | -        | 0 - 17    | 0 - 3.9  | 0 - 19 | 0 - 5.8  | •       |       |     |       | •           |       | •         |      | 67 |
| UP 15-29 SF                                | 59896771            | -        | 0 - 22    | 0 - 5.0  | 0 - 10 | 0 - 3.0  | •       |       |     |       |             |       |           |      | 53 |
| UP 15-29 SU                                | 59896775            | 59896784 | 0 - 22    | 0 - 5.0  | 0 - 10 | 0 - 3.0  |         | •     |     |       |             |       |           |      | 53 |
| UP 15-29 SU/LC                             | 59896776            | -        | 0 - 22    | 0 - 5.0  | 0 - 10 | 0 - 3.0  |         | •     |     |       |             |       | •         |      | 53 |
| UP 15-29 SUC/TLC                           | 99452462            | -        | 0 - 22    | 0 - 5.0  | 0 - 10 | 0 - 3.0  |         | •     |     |       | •           | •     | •         |      | 53 |
| UP 15-35 SUC                               | -                   | 59896785 | 0 - 22    | 0 - 5.0  | 0 - 12 | 0 - 3.7  |         | •     |     |       | •           |       |           |      | 54 |
| UPS 15-35 SFC                              | 59896772            | -        | 0 - 22    | 0 - 5.0  | 0 - 12 | 0 - 3.7  | •       |       |     |       | •           |       |           |      | 55 |
| UPS 15-35 SUC                              | 59896778            | -        | 0 - 22    | 0 - 5.0  | 0 - 12 | 0 - 3.7  |         | •     |     |       | •           |       |           |      | 55 |
| UPS 15-35 SUC/TC                           | 99452478            | -        | 0 - 22    | 0 - 5.0  | 0 - 12 | 0 - 3.7  |         | •     |     |       | •           | •     | •         |      | 54 |
| UP 15-55 SUC                               | -                   | 59896786 | 0 - 25    | 0 - 5.7  | 0 - 18 | 0 - 5.5  |         | •     |     |       | •           |       |           |      | 63 |
| UPS 15-55 SFC                              | 59896773            | -        | 0 - 25    | 0 - 5.7  | 0 - 18 | 0 - 5.5  | •       |       |     |       | •           |       |           |      | 64 |
| UPS 15-55 SUC                              | 59896781            | -        | 0 - 25    | 0 - 5.7  | 0 - 18 | 0 - 5.5  |         | •     |     |       | •           |       |           |      | 63 |
| UPS 15-55 SUC/TLC                          | 99452479            | -        | 0 - 25    | 0 - 5.7  | 0 - 18 | 0 - 5.5  |         | •     |     |       | •           | •     | •         |      | 64 |
| UP 26-96 SF                                | 98961756            | 98961739 | 0 - 27    | 0 - 6.1  | 0 - 30 | 0 - 9.1  | •       |       |     |       |             |       |           |      | 73 |
| UP 26-99 SF                                | 98961762            | 98961760 | 0 - 34    | 0 - 7.7  | 0 - 32 | 0 - 9.8  | •       |       |     |       |             |       |           |      | 75 |
| UPS 26-99 SFC                              | 98961763            | 98961765 | 0 - 33    | 0 - 7.5  | 0 - 29 | 0 - 8.8  | •       |       |     |       | •           |       |           |      | 76 |
| UP 26-116 SF                               |                     | 98961766 | 0 - 38    | 0 - 8.6  | 0 - 37 | 0 - 11.3 | •       |       |     |       |             |       |           |      | 77 |
| UPS 26-150 SF                              | 95906632            | 95906633 | 0 - 51    | 0 - 11.6 | 0 - 47 | 0 - 14.3 | •       |       |     |       |             |       |           |      | 79 |
| UPS 43-100 SF                              | 95906638            | 95906639 | 0 - 68    | 0 - 15.4 | 0 - 33 | 0 - 10.0 | •       |       |     |       |             |       |           |      | 84 |
| UPS 50-60 SF                               | 97523136            | 97523137 | 0 - 125   | 0 - 28.4 | 0 - 21 | 0 - 6.4  | •       |       |     |       |             |       |           |      | 87 |

\* Comfort System with 3/4" M x FNPT.

\*\* ALPHA2 is a variable-speed model with AUTO<sub>ADAPT</sub><sup>TM</sup>.

\*\*\* ALPHA1 is a model with three constant-pressure settings.

## 4. Identification

### Type key

| Example                             | UP | S | 15 | -58 | () | F | C | / |
|-------------------------------------|----|---|----|-----|----|---|---|---|
| Circulator pump                     |    |   |    |     |    |   |   |   |
| S: 3-speed                          |    |   |    |     |    |   |   |   |
| 10: Comfort series                  |    |   |    |     |    |   |   |   |
| 15: Small-stator UP                 |    |   |    |     |    |   |   |   |
| 25, 26, 43, 50: Large-stator UP     |    |   |    |     |    |   |   |   |
| Maximum head [dm]                   |    |   |    |     |    |   |   |   |
| Pump housing                        |    |   |    |     |    |   |   |   |
| = Cast iron (no letter = cast iron) |    |   |    |     |    |   |   |   |
| S = Stainless steel                 |    |   |    |     |    |   |   |   |
| B = Bronze                          |    |   |    |     |    |   |   |   |
| Pipe connection                     |    |   |    |     |    |   |   |   |
| F = Flange                          |    |   |    |     |    |   |   |   |
| FR = Flange rotated 90 °            |    |   |    |     |    |   |   |   |
| U = Union connection                |    |   |    |     |    |   |   |   |
| 5 = 1/2" internal sweat             |    |   |    |     |    |   |   |   |
| 7 = 3/4" internal sweat             |    |   |    |     |    |   |   |   |
| N = NPT female thread fitting       |    |   |    |     |    |   |   |   |
| 7P = 3/4" male x female connection  |    |   |    |     |    |   |   |   |
| Special features                    |    |   |    |     |    |   |   |   |
| A = Thermostat (Aquastat)           |    |   |    |     |    |   |   |   |
| C = Check valve (removable)         |    |   |    |     |    |   |   |   |
| /T = Timer                          |    |   |    |     |    |   |   |   |
| /LC = Line cord                     |    |   |    |     |    |   |   |   |
| /TLC = Timer and line cord          |    |   |    |     |    |   |   |   |
| /VS = Variable-speed control        |    |   |    |     |    |   |   |   |
| /MR = Mixing-reset control          |    |   |    |     |    |   |   |   |

## Faceplate

UP 15-42F nameplate

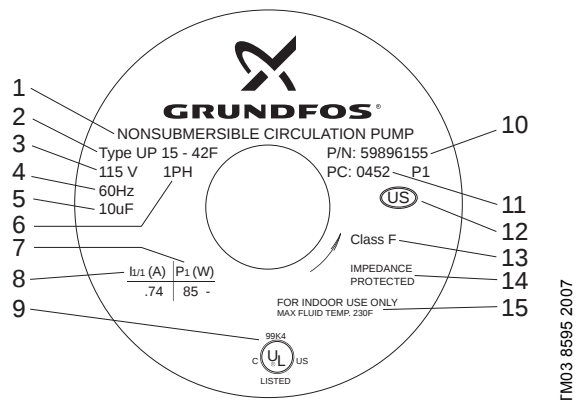


Fig. 1 Nameplate, UP 15-42F

| Pos. | Description                                |
|------|--------------------------------------------|
| 1    | Non-submersible pump                       |
| 2    | Pump type UP 15-42 F                       |
| 3    | Voltage 115 V                              |
| 4    | Frequency 60 Hz                            |
| 5    | Capacitor 10 µF                            |
| 6    | Single-phase                               |
| 7    | Power 85 W                                 |
| 8    | Current 0.74 A                             |
| 9    | Approval                                   |
| 10   | Product number 59896155                    |
| 11   | 04 = year 2004 / 52 = week                 |
| 12   | Country of origin                          |
| 13   | Isolation class F                          |
| 14   | Impedance-protected                        |
| 15   | Maximum liquid temperature 230 °F (110 °C) |

ALPHA2 control panel

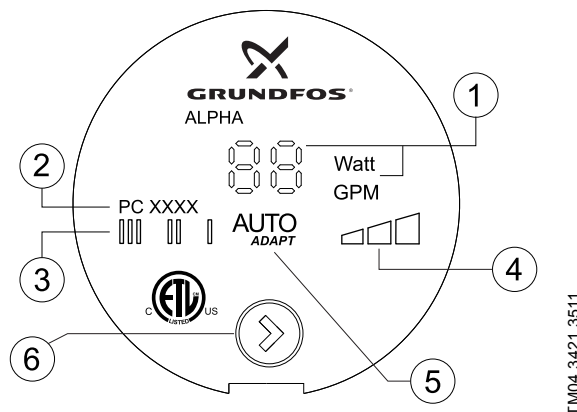


Fig. 2 ALPHA2 control panel

| Pos. | Description                                                                                                                         |
|------|-------------------------------------------------------------------------------------------------------------------------------------|
| 1    | Display showing the power consumption in watts or the flow rate.                                                                    |
| 2    | Production code: <ul style="list-style-type: none"> <li>• 1st and 2nd figures: year</li> <li>• 3rd and 4th figures: week</li> </ul> |
| 3    | Light field indicating fixed speed.                                                                                                 |
| 4    | Light field indicating constant pressure.                                                                                           |
| 5    | Light field indicating AUTO <sub>ADAPT</sub> .                                                                                      |
| 6    | Push-button for selection of pump setting.                                                                                          |

## 5. Applications

The Grundfos circulator pumps, series UP(S), are specifically designed for heating systems. The pumps are also suitable for recirculation of hot domestic water and for circulation of liquid in cooling and air-conditioning systems.

### Heating systems

Common uses:

- Boiler/hydronic
- ground-source
- radiant floor
- hydronic and fan-coil
- solar
- heat recovery.

Pump types with a cast iron pump housing are generally used for pumping water or water/glycol mixtures in these closed-system applications. However, when water conditions are not compatible with cast iron, we recommend the use of bronze or stainless steel.

Optional variable-speed and mixing-reset controls are available to customize heat output versus heat demand for increased comfort.

### Domestic hot-water systems

Common uses:

- Solar water heating
- hot-water recirculation
- domestic hot-water heating.

Pump types with a bronze, brass or stainless steel pump housing are used for pumping potable water in these open-system applications.

Optional timer and thermostat controls are available to limit pump operation to periods when hot water is required and to save energy.

### Cooling systems

Common uses:

- Chilled-water pumping.

We recommend that you use pump types UP(S) 25, 26, 43, 50 and pump housings compatible with the pumped liquids for chilled water due to their motor construction which is suitable for 32 °F (0 °C) water.

### Construction

The UP(S) pumps are of the wet-rotor type, i.e. pump and motor form an integral unit without a shaft seal and with only two gaskets for sealing. The bearings are lubricated by the pumped liquid.

The pumps are characterized by these features:

- Ceramic shaft and radial bearings
- carbon thrust bearing
- stainless steel rotor can and bearing plate
- impeller of corrosion-resistant material
- pump housing of cast iron, bronze or stainless steel.

## Engineering materials

| Description<br>(ALPHA2, ALPHA1) | Material                          |
|---------------------------------|-----------------------------------|
| Controller complete             | Composite, PC                     |
| Rotor can                       | Stainless steel                   |
| Radial bearing                  | Ceramics                          |
| Shaft                           | Ceramics                          |
| Rotor cladding                  | Stainless steel                   |
| Thrust bearing                  | Carbon                            |
| Thrust bearing retainer         | EPDM (ethylene propylene rubber)  |
| Bearing plate                   | Stainless steel                   |
| Impeller                        | PES composite (30 % glass-filled) |
| Pump housing                    | Cast iron or stainless steel      |
| Gaskets                         | EPDM (ethylene propylene rubber)  |

| Description<br>(UP, closed systems)                                                     | Material                                                        |
|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Inlet cone, bearing plate, bearing retainers, rotor can, rotor cladding, shaft retainer | Stainless steel                                                 |
| Stator housing                                                                          | Aluminium                                                       |
| Shaft, upper and lower radial bearings                                                  | Aluminium oxide ceramics                                        |
| Thrust bearing                                                                          | Carbon bearing and EPDM retainer                                |
| Check valve                                                                             | ACETAL with 302 stainless steel spring and nitrile rubber seats |
| Pump housing (volute)                                                                   | Cast iron                                                       |
| O-ring and gaskets                                                                      | EPDM (ethylene propylene rubber)                                |
| Impeller                                                                                | PES composite (30 % glass-filled)                               |
| Terminal box                                                                            | Noryl® with EPDM gasket                                         |

| Description<br>(UP, open systems)                                                       | Material                                          |
|-----------------------------------------------------------------------------------------|---------------------------------------------------|
| Inlet cone, bearing plate, bearing retainers, rotor can, rotor cladding, shaft retainer | Stainless steel                                   |
| Volute retainer (SU & SF models) and stator housing                                     | Aluminium                                         |
| Shaft, upper and lower radial bearings                                                  | Aluminium oxide ceramics                          |
| Thrust bearing                                                                          | Carbon bearing and EPDM retainer                  |
| Pump housing (volute)                                                                   | Silicon bronze C875 or stainless steel 300 series |
| O-ring and gaskets                                                                      | EPDM (ethylene propylene rubber)                  |
| Impeller                                                                                | PES composite (30 % glass-filled)                 |
| Terminal box                                                                            | Noryl® with EPDM gasket                           |

| Description<br>(BUC5 and BUC7)                                                                              | Material                                                        |
|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Inlet cone, bearing plate, bearing retainers, rotor can, rotor cladding, shaft retainer, check valve spring | Stainless steel                                                 |
| Stator housing                                                                                              | Aluminium                                                       |
| Shaft, upper and lower radial bearings                                                                      | Aluminium oxide ceramics                                        |
| Thrust bearing                                                                                              | Carbon bearing and EPDM retainer                                |
| Pump housing (volute)                                                                                       | Silicon bronze C875, lead-free                                  |
| Tail piece and union nut                                                                                    | Brass (UNS C36000)                                              |
| O-ring and gaskets                                                                                          | EPDM (ethylene propylene rubber)                                |
| Impeller                                                                                                    | PES composite (30 % glass-filled)                               |
| Terminal box                                                                                                | Noryl® with EPDM gasket                                         |
| Check valve housing                                                                                         | ACETAL with 302 stainless steel, spring and nitrile rubber seat |
| Union gasket                                                                                                | EPDM (ethylene propylene rubber)                                |

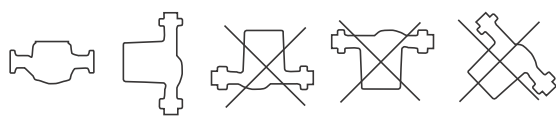
## Installation

The pump must always be installed with the motor shaft in horizontal position. See fig. 3.

Proper installation of the pump will have the terminal box located to one side of the pump or the other with the conduit entry down.

UP(S) pumps can be installed in both vertical and horizontal lines.

UP(S) pumps are intended for indoor use only.



TM04 5038 2509

**Fig. 3** Acceptable pump positions

## Motor

The motor is a 2-pole, asynchronous, squirrel-cage PSC (permanent split capacitor) motor with UL, CUL, ETL and CSA approvals.

UP(S) pumps are available in single-phase 115 V and 230 V versions with one or three speeds.

The terminal box is easily accessible and has functional cables connecting conductors or terminals.

Insulation class(es): F, H.

The motor incorporates thermal overload or impedance protection. Therefore, no external motor protection is required.

UP models are single-speed pumps.

UPS model pumps are multi-speed pumps, and the speed can be changed by means of a speed selector switch located on the front of the terminal box.

To access the speed selector switch for UPS 15-35 and 15-55 TLC models, first remove the timer box lid.

UP models with VS or MR suffixes are variable-speed pumps with integrated control.

Depending on the pump model, motor horsepower range from 1/25 to 1/6 and power consumption from 5 to 385 W.

## Pumped liquids

Depending on the type, Grundfos circulator pumps are designed for the following liquids:

- Potable water
- non-potable water
- water-glycol mixtures
- chilled water
- domestic hot water
- softened water.

If the circulator pump is used for a glycol mixture with a higher viscosity than that of water, the hydraulic performance of the pump will be reduced.

**Example:** 50 % glycol at 68 °F (20 °C) means a viscosity of approx. 10 cSt and a reduction of pump performance by approx. 15 %.

When selecting a pump, the viscosity of the pumped liquid must be taken into consideration.

## Ambient and liquid temperatures

### UP(S)

The maximum allowable water temperature is determined by the ambient air temperature as shown in the table below.

| Maximum water temperature                                              |              |              |             |             |             |
|------------------------------------------------------------------------|--------------|--------------|-------------|-------------|-------------|
| Ambient [°F (°C)]                                                      | 104<br>(40)  | 120<br>(49)  | 140<br>(60) | 160<br>(71) | 175<br>(79) |
| Water, all cast iron [°F (°C)]                                         | 230<br>(110) | 220<br>(104) | 210<br>(99) | 190<br>(88) | 175<br>(79) |
| Water, all bronze and stainless steel                                  | 220<br>(104) | 210<br>(99)  | 190<br>(88) | 175<br>(79) |             |
| The pump models below are exceptions to the temperatures listed above: |              |              |             |             |             |
| UP/UPS 15 FC and UP 43 FC [°F (°C)]                                    | 200<br>(93)  | 190<br>(88)  | 180<br>(82) | 170<br>(77) |             |
| UP 15 BUC5 and UP 15 BUC7 [°F (°C)]                                    | 200<br>(93)  | 190<br>(88)  | 180<br>(82) | 170<br>(77) |             |
| UPS 15-35 [°F (°C)]                                                    | 165<br>(74)  | 140<br>(60)  | -           | -           | -           |
| UP 15-100 F [°F (°C)]                                                  | 205<br>(96)  | 195<br>(91)  | 185<br>(85) | 175<br>(79) | -           |
| UP 26-120 U [°F (°C)]                                                  | 205<br>(96)  | 195<br>(91)  | 185<br>(85) | 175<br>(79) | -           |
| UP 26-116 [°F (°C)]                                                    | 150<br>(66)  | 140<br>(60)  | -           | -           | -           |

**Note:** This table refers to all standard products without timer, control options or other special features.

- If the UP pump is equipped with a timer, the maximum liquid temperature is 150 °F (66 °C).
- Temperature requirements for pumps with timer, control or other special features may be found on their technical data page. See section [Technical data](#), pages 45-88.

The ambient temperature for standard pumps with a permissible liquid temperature from 36 °F (2 °C) to 230 °F (110 °C) must always be lower than the liquid temperature as condensation may otherwise form in the stator housing.

### ALPHA2, ALPHA1

Ambient temperature: 32 °F (0 °C) to 104 °F (40 °C).  
Liquid temperature: 36 °F (2 °C) to 230 °F (110 °C).

To avoid condensation in the control box and stator, the liquid temperature must always be higher than the ambient temperature. In domestic hot water systems, keep the liquid temperature below 149 °F (65 °C) to eliminate the risk of lime precipitation.

| Ambient temperature<br>[°F (°C)] | Liquid temperature   |                      |
|----------------------------------|----------------------|----------------------|
|                                  | Minimum<br>[°F (°C)] | Maximum<br>[°F (°C)] |
| 32 (0)                           | 36 (2)               | 230 (110)            |
| 50 (10)                          | 50 (10)              | 230 (110)            |
| 68 (20)                          | 68 (20)              | 230 (110)            |
| 86 (30)                          | 86 (30)              | 230 (110)            |
| 95 (35)                          | 95 (35)              | 194 (90)             |
| 104 (40)                         | 104 (40)             | 158 (70)             |

**Note:** The maximum glycol concentration with clean water is 50 % glycol @ 36 °F (2 °C). A hydraulic performance change can be expected.

## Maximum system pressure

145 psi (10 bar).

## Minimum inlet pressure

The required minimum inlet pressure must be available at the pump inlet. The pressure required at the inlet of the pump is a function of the temperature of the water as shown in the tables below.

### UP(S) models

| UP(S) model | Liquid temperature |       |                   |       |                   |       |                    |       |
|-------------|--------------------|-------|-------------------|-------|-------------------|-------|--------------------|-------|
|             | 140 °F<br>(60 °C)  |       | 165 °F<br>(74 °C) |       | 190 °F<br>(88 °C) |       | 230 °F<br>(110 °C) |       |
|             | [psi]              | [bar] | [psi]             | [bar] | [psi]             | [bar] | [psi]              | [bar] |
| UP(S) 15    | 1.3                | 0.1   | 1.9               | 0.1   | 4.0               | 0.3   | 15.6               | 1.1   |
| UP(S) 26    |                    |       |                   |       |                   |       |                    |       |
| UP(S) 43    |                    |       | 1.3               | 0.09  | 2.6               | 0.18  | 7.8                | 0.54  |
| UPS 26-150  |                    |       |                   |       |                   |       |                    |       |
| UPS 43-100  | 0.5                | 0.04  | 2.1               | 0.15  | 5.6               | 0.40  | 11.3               | 0.80  |
| UPS 50-60   |                    |       | 1.0               | 0.07  | 1.3               | 0.09  | 7.0                | 0.49  |

### ALPHA2, ALPHA1 models

| Liquid temperature<br>[°F (°C)] | Minimum inlet pressure<br>[psi (bar)] |
|---------------------------------|---------------------------------------|
| 167 (75)                        | 0.75 (0.05)                           |
| 194 (90)                        | 4.06 (0.28)                           |
| 230 (110)                       | 15.7 (1.08)                           |

## Performance

### UP(S) models

Flow range: 0-120 gpm (0 - 27.3 m<sup>3</sup>/h)

Head range: 0-46 ft (0-14 m)

### ALPHA2 models

Flow range: 0 - 21.5 gpm (0 - 4.9 m<sup>3</sup>/h).

Head range: 0-19 ft (0 - 5.8 m).

### ALPHA1 models

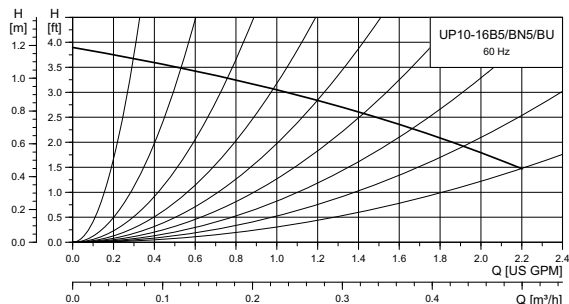
Flow range: 0-17 gpm (0 - 3.9 m<sup>3</sup>/h).

Head range: 0-19 ft (0 - 5.8 m).

## 6. Technical data

### UP 10-16 Comfort PM, PM Auto

### UP 10-16 A/T/PM B5/BN5/BU



TM06 0178 4913

Flow range: 0 - 2.2 gpm (0 - 0.5 m<sup>3</sup>/h)

Head range: 0 - 3.9 ft (0 - 1.2 m)

Motor: Single-phase

Max. liquid temperature: 176 °F (80 °C)

Min. liquid temperature: 36 °F (2 °C)

Max. system pressure: 145 psi (10 bar)

| Model              | Volts         | Amps | Watts | Hp    | Capacitor |
|--------------------|---------------|------|-------|-------|-----------|
| UP 10-16 B5/BN5/BU | 115/208-230 V | 0.23 | 6     | 0.008 | -         |

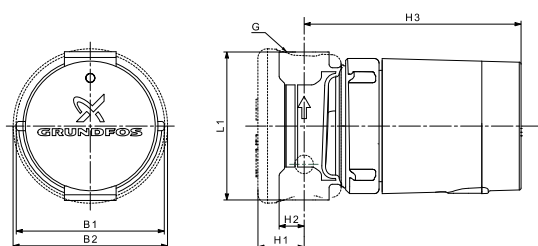
### Approvals



**WATER QUALITY**  
**NSF/ANSI 61**

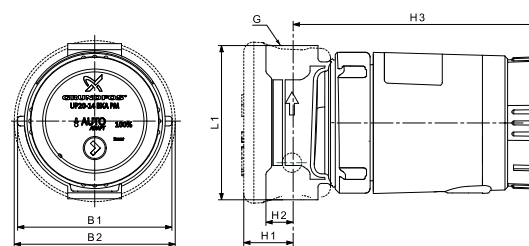
Drinking Water System Components  
In Accordance with NSF/ANSI 372

UP 10-16 PM B5, BN5  
A/T/PM B5, BN5



TM06 0649 0614

UP 10-16 A PM BU



TM06 0684 0714

| Model               | Product number | Dimensions [inches (mm)] |            |            |            |            |            |           | Shipping weight [lbs (kg)] |
|---------------------|----------------|--------------------------|------------|------------|------------|------------|------------|-----------|----------------------------|
|                     |                | 115/208-230 V            | L1         | H1         | H2         | H3         | B1         | B2        |                            |
| UP10-16 PM B5/LC    | 98420206       |                          | 3.13 (79)  |            | 0.5 (12.7) |            |            |           | 1/2" sweat 2.9 (1.3)       |
| UP10-16 PM BN5/LC   | 98420210       |                          | 3.13 (79)  |            | 0.5 (12.7) |            |            |           | 1/2" NPT 3.4 (1.5)         |
| UP10-16 A PM B5/LC  | 98420222       |                          | 3.13 (79)  | 1.0 (25.4) | 0.5 (12.7) | 5.25 (133) | 2.6 7 (68) | 3.28 (83) | 1/2" sweat 2.9 (1.3)       |
| UP10-16 A PM BN5/LC | 98420223       |                          | 3.13 (79)  |            | 0.5 (12.7) |            |            |           | 1/2" NPT 3.4 (1.5)         |
| UP10-16 T PM B5/LC  | 99279870       |                          | 3.13 (79)  |            | 0.5 (12.7) |            |            |           | 1/2" NPT 3.4 (1.5)         |
| UP10-16 A PM BU/LC  | 98420224       |                          | 4.33 (110) |            | 0.88 (23)  |            |            |           | 1 1/4" NPSM 3.8 (1.7)      |

**Note:** All models above have a 6 ft (1.8 m), 3-prong power cord.

Maximum external sensor cable length 8 ft (2.4 m).

UP 10-16 A PM BU/LC with integral check valve.

Dimensions in inches unless otherwise stated.

## UP 10-16 Comfort PM, PM Auto, PM Temperature

The UP 10-16 pump is designed for recirculation of domestic hot water in single-family homes with dedicated hot-water return piping. Utilizing a low-noise permanent magnet motor, energy consumption is reduced to as little as 6 W. Selecting the Auto mode ensures that the pump runs only when required. The result is maximum comfort - no waiting for hot water plus decreased water and power consumption.



Fig. 4 UP 10-16 APM BU/LC

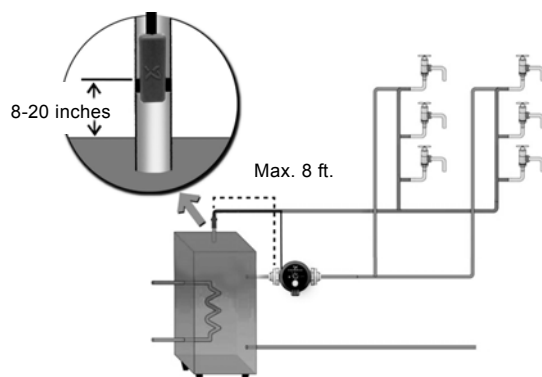
### Applications

- Domestic hot-water recirculation systems in single-family homes
- small heating systems.

### Pumped liquids

- Domestic hot water
- softened water
- clean water.

The pump uses two temperature sensors, one within the pump and the other connected to the pump by a cable installed on the hot-water flow pipe. The pump is installed in the hot-water return pipe.



UP 10-16 A/T/PM pump with built-in temperature sensor

### Three operating modes

#### 100 % mode

- The pump will operate 24/7/365 continuously at full speed.

#### Temperature mode

- The pump will keep the water temperature within an automatically detected range.

#### Auto mode

- The pump will learn, store and adapt operating times to domestic hot water consumption patterns.

#### Disinfection and flushing

- Once a week, a disinfection function is run for 15 minutes. If a higher temperature is measured at another time of the week, the disinfection function will run at this time.
- After eight hours of no operation, the pump automatically flushes the circulation pipe for 15 minutes.

#### Vacation feature

If no tapplings are detected within a 24-hour period, the pump will automatically switch to standby mode (except for disinfection) and reactivate to the same consumptive pattern when two tapplings occur within a 20-minute time period (self-modulation).

#### Motor

The motor has a single-phase, 12-pole, permanent-magnet design and is double insulated. No additional motor protection is required.

|                  |                             |
|------------------|-----------------------------|
| Voltage          | 1 x 115/208-230 V, 50/60 Hz |
| Power            | 5 - 8.5 watts               |
| Enclosure class  | IP42, type PM: IP44         |
| Insulation class | F                           |

#### Maximum system pressure

145 psi (10 bar).

#### Ambient and liquid temperatures

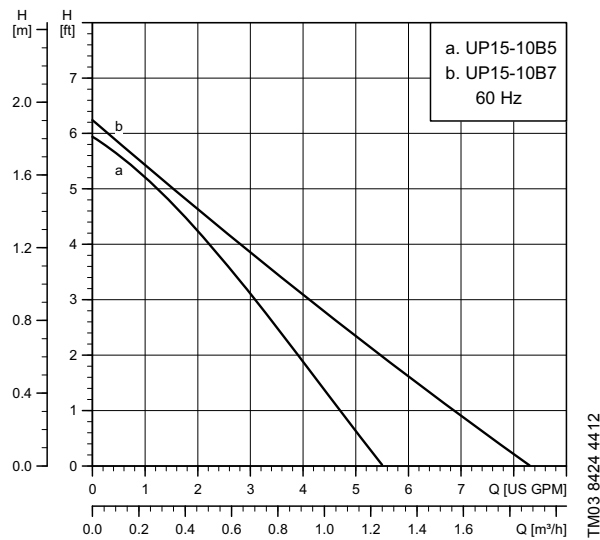
The ambient temperature must always be lower than the liquid temperature as otherwise condensation may otherwise form in the stator housing.

Liquid temperature: 36 °F (2 °C) to 176 °F (80 °C).

We recommend that you keep the operating temperature as low as possible (e.g. 140 °F (60 °C)) to avoid calcium precipitation.

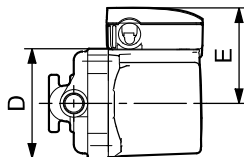
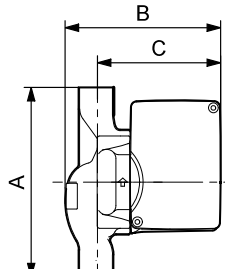
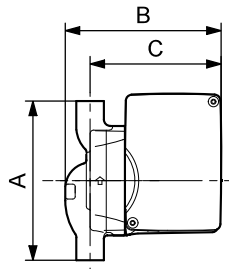
| Description           | Material                                   |
|-----------------------|--------------------------------------------|
| Stator housing        | Aluminium                                  |
| Spherical separator   | Stainless steel                            |
| Rotor can, complete   | Stainless steel/Tungsten carbide           |
| Rotor, impeller       | Stainless steel, EPDM, PPO, PFTE, graphite |
| Pump housing          | EcoBrass                                   |
| Gate valve            | EcoBrass                                   |
| Screw                 | Stainless steel                            |
| Terminal box cover    | PC/ABS                                     |
| Motor cover           | PPO                                        |
| Power cable jacket    | PVC                                        |
| O-rings               | EPDM                                       |
| Check valve           | POM                                        |
| Light                 | Lexan                                      |
| Insulation cover      | EPP 55                                     |
| External sensor cable | PC/ABS                                     |

## UP 15-10 B5/B7

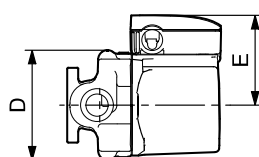


UP 15-10 B5,  
UP 15-10 B5/LC,  
UP 15-10 B5/TLC

UP 15-10 B7,  
UP 15-10 B7/LC,  
UP 15-10 B7/TLC



TM03 8545 1907



TM03 8547 1907

Flow range: 0 - 8.2 gpm (0 - 1.9 m<sup>3</sup>/h)  
Head range: 0 - 6.2 ft (0 - 1.9 m)  
Motor: 2-pole, single-phase  
Max. liquid temperature: 220 °F (104 °C)  
Min. liquid temperature: 36 °F (2 °C)  
Max. system pressure: 145 psi (10 bar)

**Note:** If the UP pump is equipped with a timer, the maximum liquid temperature is 150 °F (66 °C).

| Model              | Volts | Amps | Watts | Hp    | Capacitor    |
|--------------------|-------|------|-------|-------|--------------|
| UP 15-10 B5 and B7 | 115   | 0.22 | 25    | 0.034 | 2 µF / 400 V |

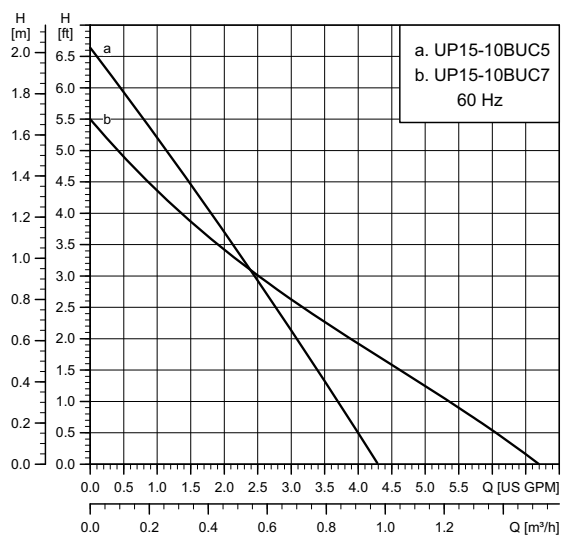
## Approvals



| Model           | Product number<br>115 V | Dimensions [inches (mm)] |            |            |           |           | Connection type<br>and size | Shipping weight<br>[lbs (kg)] |
|-----------------|-------------------------|--------------------------|------------|------------|-----------|-----------|-----------------------------|-------------------------------|
|                 |                         | A                        | B          | C          | D         | E         |                             |                               |
| UP 15-10 B5     | 59896213                | 5.00 (127)               | 5.00 (127) | 4.13 (105) | 3.50 (89) | 2.85 (72) | 1/2" sweat                  | 6.0 (2.7)                     |
| UP 15-10 B5/LC  | 59896214                | 5.00 (127)               | 5.00 (127) | 4.13 (105) | 3.50 (89) | 2.85 (72) | 1/2" sweat                  | 6.5 (2.9)                     |
| UP 15-10 B5/TLC | 99452454                | 5.00 (127)               | 5.00 (127) | 4.13 (105) | 3.50 (89) | 2.85 (72) | 1/2" sweat                  | 6.5 (2.9)                     |
| UP 15-10 B7     | 59896226                | 6.38 (162)               | 5.25 (133) | 4.13 (105) | 3.50 (89) | 2.85 (72) | 3/4" sweat                  | 6.7 (3.0)                     |
| UP 15-10 B7/LC  | 59896209                | 6.38 (162)               | 5.25 (133) | 4.13 (105) | 3.50 (89) | 2.85 (72) | 3/4" sweat                  | 7.5 (3.4)                     |
| UP 15-10 B7/TLC | 99452455                | 6.38 (162)               | 5.25 (133) | 4.13 (105) | 3.50 (89) | 2.85 (72) | 3/4" sweat                  | 7.5 (3.4)                     |

**Note:** LC/TLC models have a 6 ft (1.8 m), 3-prong power cord.  
Dimensions in inches unless otherwise stated.

## UP 15-10 BUC5/BUC7



Flow range: 0 - 6.6 gpm (0 - 1.5 m<sup>3</sup>/h)  
 Head range: 0 - 6.6 ft (0-2 m)  
 Motor: 2-pole, single-phase  
 Max. liquid temperature: 230 °F (110 °C)  
 Min. liquid temperature: 36 °F (2 °C)  
 Max. system pressure: 145 psi (10 bar)

**Note:** If the UP pump is equipped with a timer, the maximum liquid temperature is 150 °F (66 °C).

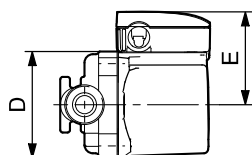
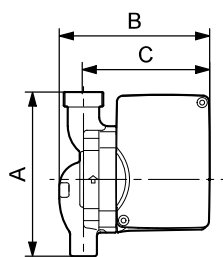
| Model              | Volts | Amps | Watts | Hp    | Capacitor    |
|--------------------|-------|------|-------|-------|--------------|
| UP 15-10 BUC5/BUC7 | 115   | 0.22 | 25    | 0.034 | 2 µF / 400 V |

## Approvals



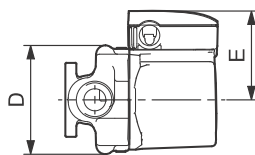
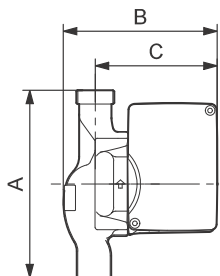
Drinking Water System Components  
 In Accordance with NSF/ANSI 372

UP 15-10 BUC5,  
 UP 15-10 BUC5/LC,  
 UP 15-10 BUC5/TLC



TM03 8549 2407

UP 15-10 BUC7,  
 UP 15-10 BUC7/LC,  
 UP 15-10 BUC7/TLC

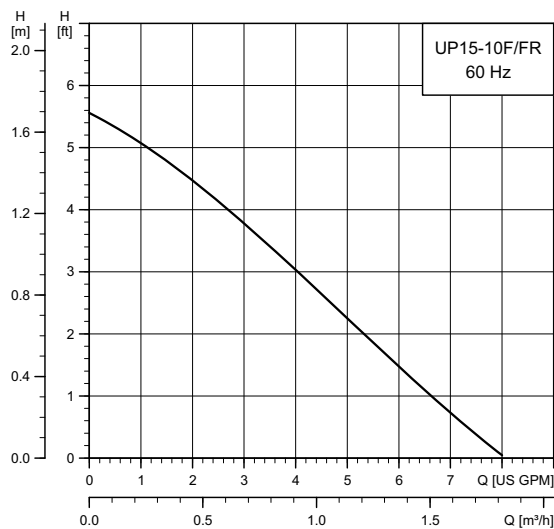


TM03 8753 5007

| Model             | Product number<br>115 V | Dimensions [inches (mm)] |            |            |           |           | Connection type<br>and size | Shipping weight<br>[lbs (kg)] |
|-------------------|-------------------------|--------------------------|------------|------------|-----------|-----------|-----------------------------|-------------------------------|
|                   |                         | A                        | B          | C          | D         | E         |                             |                               |
| UP 15-10 BUC5     | 59896225                | 5.31 (135)               | 5.00 (127) | 4.13 (105) | 3.50 (89) | 2.85 (72) | 1/2" sweat                  | 7.3 (3.3)                     |
| UP 15-10 BUC5/LC  | 59896237                | 5.31 (135)               | 5.00 (127) | 4.13 (105) | 3.50 (89) | 2.85 (72) | 1/2" sweat                  | 7.7 (3.5)                     |
| UP 15-10 BUC5/TLC | 99452457                | 5.31 (135)               | 5.00 (127) | 4.13 (105) | 3.50 (89) | 2.85 (72) | 1/2" sweat                  | 7.7 (3.5)                     |
| UP 15-10 BUC7     | 59896241                | 6.70 (170)               | 5.25 (133) | 4.13 (105) | 3.50 (89) | 2.85 (72) | 3/4" sweat                  | 8.0 (3.6)                     |
| UP 15-10 BUC7/LC  | 59896239                | 6.70 (170)               | 5.25 (133) | 4.13 (105) | 3.50 (89) | 2.85 (72) | 3/4" sweat                  | 8.5 (3.9)                     |
| UP 15-10 BUC7/TLC | 99452458                | 6.70 (170)               | 5.25 (133) | 4.13 (105) | 3.50 (89) | 2.85 (72) | 3/4" sweat                  | 8.5 (3.9)                     |

**Note:** LC/TLC models have a 6 ft (1.8 m), 3-prong power cord.  
 Dimensions in inches unless otherwise stated.

## UP 15-10 F/FR



TM03 5532 4412

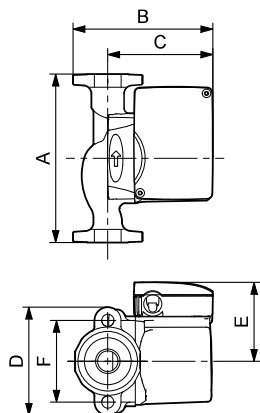
Flow range: 0 - 8.0 gpm (0 - 1.8 m³/h)  
 Head range: 0 - 5.5 ft (0 - 1.7 m)  
 Motor: 2-pole, single-phase  
 Max. liquid temperature: 230 °F (110 °C)  
 Min. liquid temperature: 36 °F (2 °C)  
 Max. system pressure: 145 psi (10 bar)  
 Closed system

| Model         | Volts | Amps | Watts | Hp    | Capacitor    |
|---------------|-------|------|-------|-------|--------------|
| UP 15-10 F/FR | 115   | 0.23 | 25    | 0.034 | 2 µF / 400 V |

## Approvals

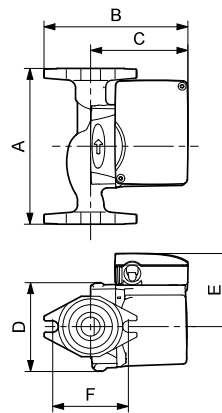


UP 15-10 F



TM03 8526 1907

UP 15-10 FR



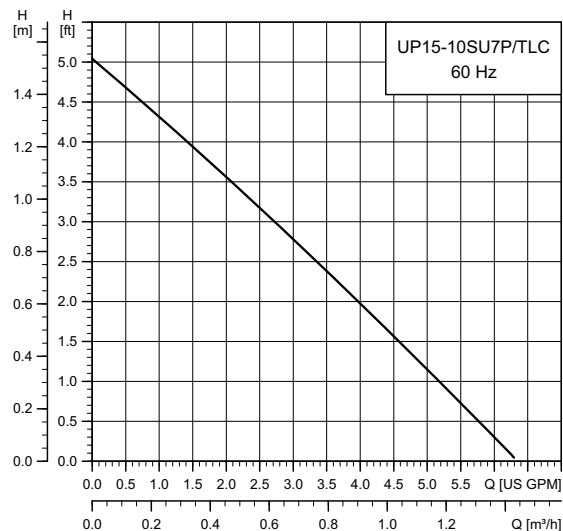
TM03 8527 1907

| Model       | Product number<br>115 V | Dimensions [inches (mm)] |            |            |            |           |           | Connection type and size                    | Shipping weight [lbs (kg)] |
|-------------|-------------------------|--------------------------|------------|------------|------------|-----------|-----------|---------------------------------------------|----------------------------|
|             |                         | A                        | B          | C          | D          | E         | F         |                                             |                            |
| UP 15-10 F  | 59896248                | 6.50 (165)               | 5.25 (133) | 4.00 (102) | 4.19 (106) | 3.25 (83) | 3.16 (80) | GF 15/26 flange<br>(2) 1/2" dia. bolt holes | 7.3 (3.3)                  |
| UP 15-10 FR | 59896249                | 6.50 (165)               | 5.94 (151) | 4.00 (102) | 3.75 (95)  | 3.25 (83) | 3.16 (80) | GF 15/26 flange<br>(2) 1/2" dia. bolt holes | 7.3 (3.3)                  |

**Note:** Dimensions in inches unless otherwise stated.

## UP Comfort System

### UP 15-10 SU7P/TLC



Flow range: 0 - 6.3 gpm (0 - 1.4 m<sup>3</sup>/h)  
 Head range: 0 - 5.1 ft (0 - 1.6 m)  
 Motor: 2-pole, single-phase  
 Max. liquid temperature: 150 °F (66 °C)  
 Min. liquid temperature: 36 °F (2 °C)  
 Max. system pressure: 145 psi (10 bar)  
 Open system

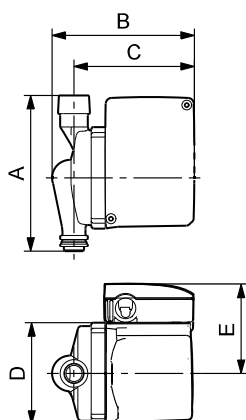
| Model             | Volts | Amps | Watts | Hp    | Capacitor    |
|-------------------|-------|------|-------|-------|--------------|
| UP 15-10 SU7P/TLC | 115   | 0.23 | 25    | 0.034 | 2 µF / 400 V |

#### Approvals

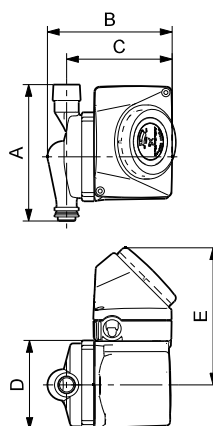


Drinking Water System Components  
In Accordance with NSF/ANSI 372

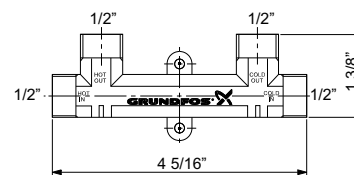
UP 15-10 SU7P/DTLC (with digital timer)



UP 15-10 SU7P/TLC (with analog timer)



Comfort Valve®

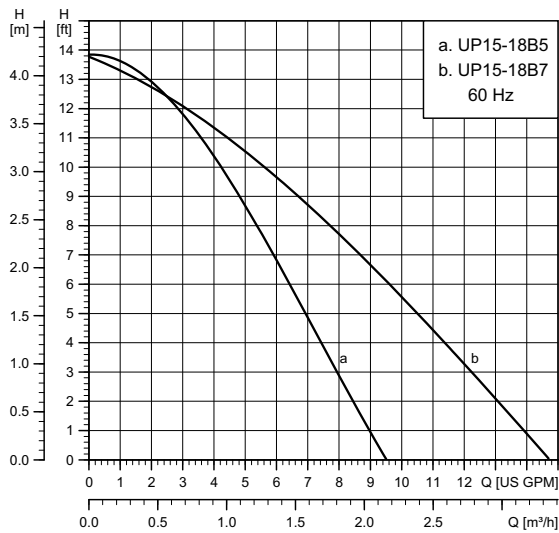


| Model              | Product number<br>115 V | Dimensions [inches (mm)] |            |            |           |            | Connection type<br>and size                | Shipping weight<br>[lbs (kg)] |
|--------------------|-------------------------|--------------------------|------------|------------|-----------|------------|--------------------------------------------|-------------------------------|
|                    |                         | A                        | B          | C          | D         | E          |                                            |                               |
| UP 15-10 SU7P/DTLC | 99452459                | 5.63 (143)               | 5.25 (133) | 4.50 (114) | 3.50 (89) | 2.95 (72)  | 3/4" M x 3/4" FNPT                         | 5.5 (2.5)                     |
| UP 15-10 SU7P/TLC  | 595916                  | 5.63 (143)               | 5.25 (133) | 4.50 (114) | 3.50 (89) | 5.33 (135) | 3/4" M x 3/4" FNPT                         | 5.5 (2.5)                     |
| Comfort Valve®     | 595926                  | -                        | -          | -          | -         | -          | 1/2" M NPS (1/2" faucet)                   | 2.8 (1.3)                     |
| Flex hose kit      | 599390                  | -                        | -          | -          | -         | -          | (2) 1/2" FNPS x 1/2" FNPS x 12" flex hoses | -                             |

| Model                                 | Product number | Description                                                       |
|---------------------------------------|----------------|-------------------------------------------------------------------|
| Comfort Valve®                        | 595926         | Box of 15 pieces                                                  |
| Comfort series kit with digital timer | 99452459       | 1 pump and 1 valve,<br>(2) 1/2" FNPS x 1/2" FNPS x 12" flex hoses |
| Comfort series kit with analog timer  | 595916         | 1 pump and 1 valve,<br>(2) 1/2" FNPS x 1/2" FNPS x 12" flex hoses |

**Note:** All models have a 10 ft (3 m), 3-prong power cord.  
Dimensions in inches unless otherwise stated.

## UP 15-18 B5/B7



TM03 8426 4412

Flow range: 0 - 14.7 gpm (0 - 3.3 m<sup>3</sup>/h)  
 Head range: 0 - 13.9 ft (0 - 4.2 m)  
 Motor: 2-pole, single-phase  
 Max. liquid temperature: 230 °F (110 °C)  
 Min. liquid temperature: 36 °F (2 °C)  
 Max. system pressure: 145 psi (10 bar)

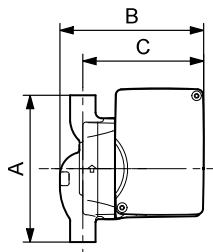
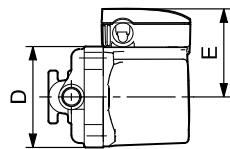
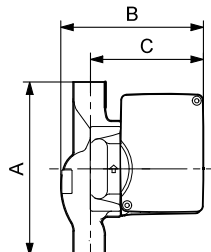
**Note:** If the UP pump is equipped with a timer, the maximum liquid temperature is 150 °F (66 °C).

| Model       | Volts | Amps | Watts | Hp    | Capacitor     |
|-------------|-------|------|-------|-------|---------------|
| UP 15-18 B5 | 115   | 0.74 | 86    | 0.115 | 10 µF / 180 V |
|             | 230   | 0.4  | 90    | 0.121 | 2 µF / 400 V  |
| UP 15-18 B7 | 115   | 0.74 | 86    | 0.115 | 10 µF / 180 V |
|             | 230   | 0.4  | 96    | 0.129 | 2 µF / 400 V  |

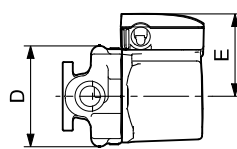
## Approvals



Drinking Water System Components  
 In Accordance with NSF/ANSI 372

UP 15-18 B5/LC,  
UP 15-18 B5/TLCUP 15-18 B7/LC,  
UP 15-18 B7/TLC

TM03 8545 1907

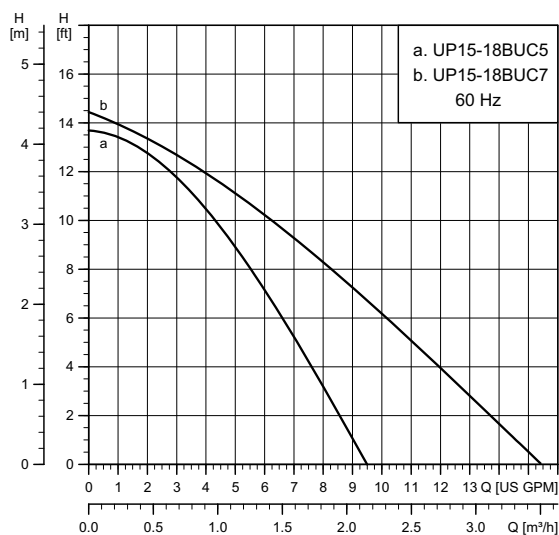


TM03 8547 1907

| Model           | Product number |          | Dimensions [inches (mm)] |            |            |           |           | Connection type and size | Shipping weight [lbs (kg)] |
|-----------------|----------------|----------|--------------------------|------------|------------|-----------|-----------|--------------------------|----------------------------|
|                 | 115 V          | 230 V    | A                        | B          | C          | D         | E         |                          |                            |
| UP 15-18 B5     | 59896114       | 59896118 | 5.31 (135)               | 5.00 (127) | 4.13 (105) | 3.50 (89) | 2.85 (72) | 1/2" sweat               | 6.0 (2.7)                  |
| UP 15-18 B5/LC  | 59896211       | -        | 5.31 (135)               | 5.00 (127) | 4.13 (105) | 3.50 (89) | 2.85 (72) | 1/2" sweat               | 6.5 (2.9)                  |
| UP 15-18 B5/TLC | 99452460       | -        | 5.31 (135)               | 5.00 (127) | 4.13 (105) | 3.50 (89) | 2.85 (72) | 1/2" sweat               | 6.5 (2.9)                  |
| UP 15-18 B7     | 59896121       | 59896119 | 6.70 (170)               | 5.25 (133) | 4.13 (105) | 3.50 (89) | 2.85 (72) | 3/4" sweat               | 6.7 (3.0)                  |
| UP 15-18 B7/LC  | 59896229       | -        | 6.70 (170)               | 5.25 (133) | 4.13 (105) | 3.50 (89) | 2.85 (72) | 3/4" sweat               | 7.2 (3.3)                  |
| UP 15-18 B7/TLC | 99452461       | -        | 6.70 (170)               | 5.25 (133) | 4.13 (105) | 3.50 (89) | 2.85 (72) | 3/4" sweat               | 7.2 (3.3)                  |

**Note:** LC/TLC models have a 6 ft (1.8 m), 3-prong power cord.  
 Dimensions in inches unless otherwise stated.

## UP 15-18 BUC5/BUC7

Flow range: 0 - 14.7 gpm (0 - 3.3 m<sup>3</sup>/h)

Head range: 0 - 14.5 ft (4.4 m)

Motor: 2-pole, single-phase

Max. liquid temperature: 230 °F (110 °C)

Min. liquid temperature: 36 °F (2 °C)

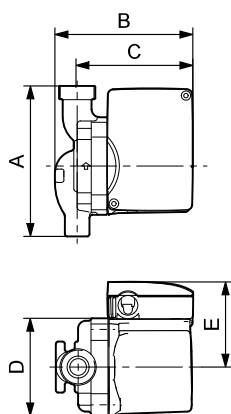
Max. system pressure: 145 psi (10 bar)

| Model         | Volts | Amps | Watts | Hp    | Capacitor     |
|---------------|-------|------|-------|-------|---------------|
| UP 15-18 BUC5 | 115   | 0.74 | 86    | 0.115 | 10 µF / 180 V |
| UP 15-18 BUC7 | 115   | 0.74 | 86    | 0.115 | 10 µF / 180 V |

## Approvals

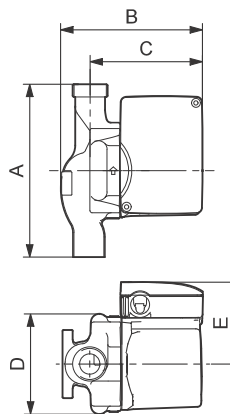


UP 15-18 BUC5



TM03 8549 1907

UP 15-18 BUC7

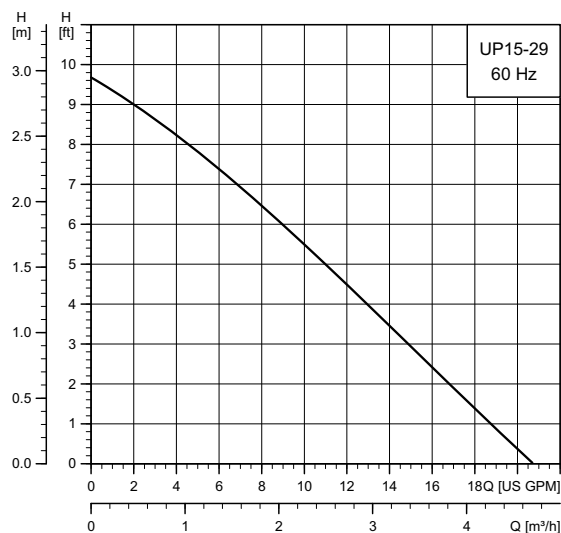


TM03 8753 2407

| Model         | Product number<br>115 V | Dimensions [inches (mm)] |            |            |           |           | Connection type<br>and size | Shipping weight<br>[lbs (kg)] |
|---------------|-------------------------|--------------------------|------------|------------|-----------|-----------|-----------------------------|-------------------------------|
|               |                         | A                        | B          | C          | D         | E         |                             |                               |
| UP 15-18 BUC5 | 59896123                | 5.31 (135)               | 5.00 (127) | 4.13 (105) | 3.50 (89) | 2.85 (72) | 1/2" sweat                  | 7.3 (3.3)                     |
| UP 15-18 BUC7 | 59896124                | 6.70 (170)               | 5.25 (133) | 4.13 (105) | 3.50 (89) | 2.85 (72) | 3/4" sweat                  | 8.0 (3.6)                     |

Note: Dimensions in inches unless otherwise stated.

## UP 15-29 SU/SF

Flow range: 0 - 20.5 gpm (0 - 4.7 m<sup>3</sup>/h)

Head range: 0 - 9.7 ft (0 - 2.2 m)

Motor: 2-pole, single-phase

Max. liquid temperature: 230 °F (110 °C)

Min. liquid temperature: 36 °F (2 °C)

Max. system pressure: 145 psi (10 bar)

Open system

**Note:** If the UP pump is equipped with a timer, the maximum liquid temperature is 150 °F (66 °C).

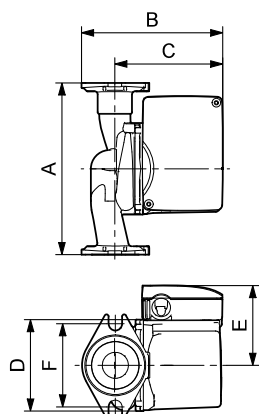
| Model        | Volts | Amps | Watts | Hp    | Capacitor     |
|--------------|-------|------|-------|-------|---------------|
| UP 15-29 SF  | 115   | 0.75 | 87    | 0.117 | 10 µF / 180 V |
| UP 15-29 SUC |       | 0.75 | 87    | 0.117 |               |
| UP 15-29 SU  | 230   | 0.42 | 97    | 0.130 | 2 µF / 400 V  |

## Approvals

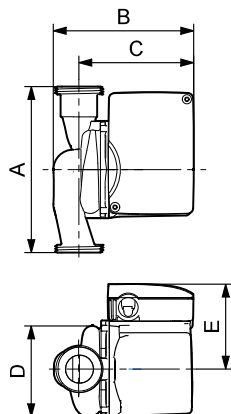
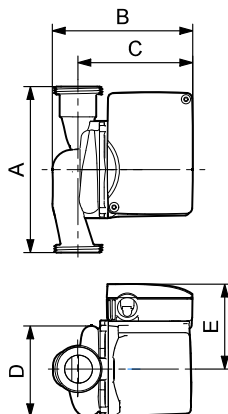


Drinking Water System Components  
In Accordance with NSF/ANSI 372

UP 15-29 SF



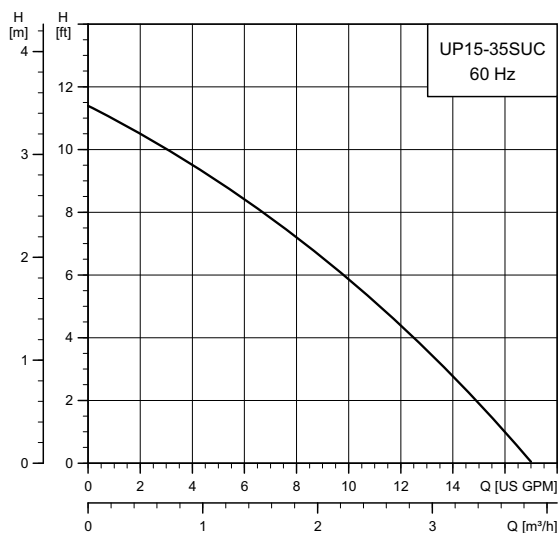
UP 15-29 SU

UP 15-29 SU/LC,  
UP 15-29 SU/TLC

| Model            | Product number |          | Dimensions [inches (mm)] |            |            |           |           |           | Connection type and size | Shipping weight [lbs (kg)] |
|------------------|----------------|----------|--------------------------|------------|------------|-----------|-----------|-----------|--------------------------|----------------------------|
|                  | 115 V          | 230 V    | A                        | B          | C          | D         | E         | F         |                          |                            |
| UP 15-29 SF      | 59896771       | -        | 6.50 (165)               | 5.50 (140) | 4.13 (105) | 3.88 (98) | 2.94 (75) | 3.13 (79) | GF 15/26                 | 6.0 (2.7)                  |
| UP 15-29 SU      | 59896775       | 59896784 | 5.88 (149)               | 5.50 (140) | 4.13 (105) | 3.44 (88) | 2.94 (75) | -         | GU 125                   | 5.4 (2.5)                  |
| UP 15-29 SU/LC   | 59896776       | -        | 5.88 (149)               | 5.50 (140) | 4.13 (105) | 3.44 (88) | 2.94 (75) | -         | GU 125                   | 5.7 (2.6)                  |
| UP 15-29 SUC/TLC | 99452462       | -        | 5.88 (149)               | 5.50 (140) | 4.13 (105) | 3.44 (88) | 2.94 (75) | -         | GU 125                   | 6.2 (2.8)                  |

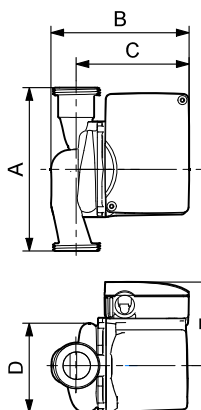
**Note:** LC/TLC models have a 6 ft (1.8 m), 3-prong power cord.  
Dimensions in inches unless otherwise stated.

## UP 15-35 SUC



TM03 8846 4412

UP 15-35 SUC



TM03 8777 2507

Flow range: 0 - 17.5 gpm (0 - 4.0 m<sup>3</sup>/h)  
 Head range: 0 - 11.5 ft (3.5 m)  
 Motor: 2-pole, single-phase  
 Max. liquid temperature: 230 °F (110 °C)  
 Min. liquid temperature: 36 °F (2 °C)  
 Max. system pressure: 145 psi (10 bar)  
 Open system

| Model        | Volts | Amps | Watts | Hp    | Capacitor    |
|--------------|-------|------|-------|-------|--------------|
| UP 15-35 SUC | 230   | 0.50 | 114   | 0.153 | 2 µF / 400 V |

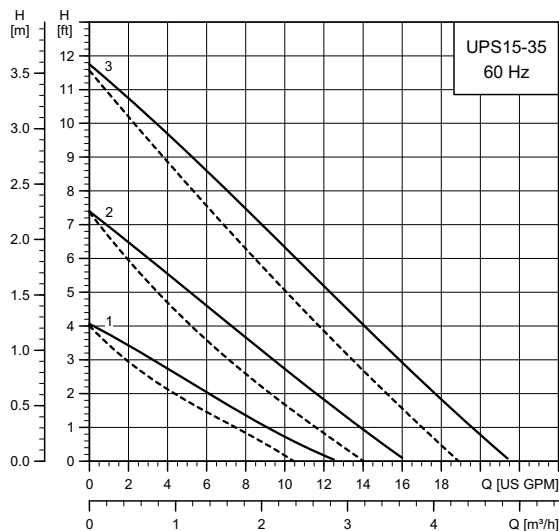
## Approvals



| Model        | Product number<br>230 V | Dimensions [inches (mm)] |            |            |           |           |   | Connection type<br>and size | Shipping weight<br>[lbs (kg)] |
|--------------|-------------------------|--------------------------|------------|------------|-----------|-----------|---|-----------------------------|-------------------------------|
|              |                         | A                        | B          | C          | D         | E         | F |                             |                               |
| UP 15-35 SUC | 59896785                | 5.88 (149)               | 5.06 (129) | 4.13 (105) | 3.44 (87) | 2.94 (75) | - | GU 125                      | 5.4 (2.5)                     |

**Note:** Dimensions in inches unless otherwise stated.

## UPS 15-35 SUC/SFC



Flow range: 0 - 21.5 gpm (0 - 4.9 m³/h)  
 Head range: 0-12 ft (0 - 3.7 m)  
 Motor: 2-pole, single-phase  
 Max. liquid temperature: 165 °F (74 °C)  
 Min. liquid temperature: 36 °F (2 °C)  
 Max. system pressure: 145 psi (10 bar)

**Note:** If the UP pump is equipped with a timer, the maximum liquid temperature is 150 °F (66 °C).

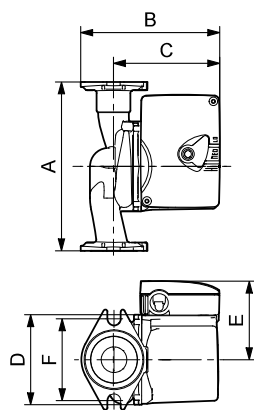
| Model                 | Speed | Volts | Amps | Watts | Hp    | Capacitor     |
|-----------------------|-------|-------|------|-------|-------|---------------|
| UPS 15-35<br>SUC/ SFC | 3     | 115   | 0.95 | 110   | 0.148 | 10 µF / 180 V |
|                       | 2     |       | 0.75 | 84    | 0.113 |               |
|                       | 1     |       | 0.55 | 61    | 0.082 |               |

— Without check valve  
 - - - With check valve

## Approvals



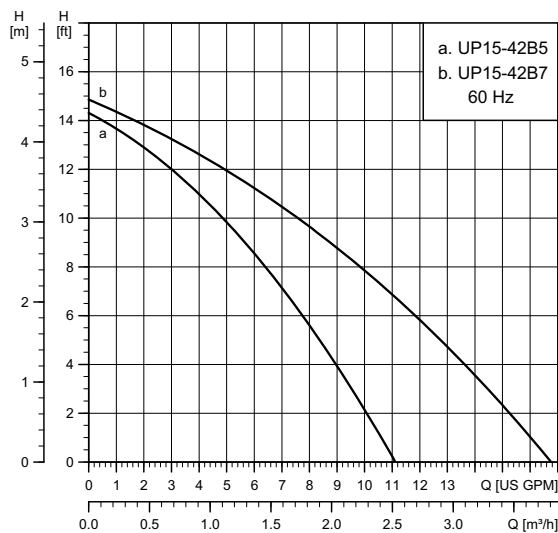
UPS 15-35 SFC,  
UPS 15-35 SUC/TLC



| Model             | Product number<br>115 V | Dimensions [inches (mm)] |            |            |           |           |           | Connection type and size | Shipping weight [lbs (kg)] |
|-------------------|-------------------------|--------------------------|------------|------------|-----------|-----------|-----------|--------------------------|----------------------------|
|                   |                         | A                        | B          | C          | D         | E         | F         |                          |                            |
| UPS 15-35 SFC     | 59896772                | 6.50 (165)               | 5.50 (140) | 4.13 (105) | 3.88 (99) | 2.85 (72) | 3.13 (80) | GF 15/26                 | 6.0 (2.7)                  |
| UPS 15-35 SUC     | 59896778                | 5.88 (149)               | 5.06 (129) | 4.13 (105) | 3.44 (87) | 2.85 (72) | -         | GU 125                   | 5.4 (2.5)                  |
| UPS 15-35 SUC/TLC | 99452478                | 5.88 (149)               | 5.06 (129) | 4.13 (105) | 3.44 (87) | 2.85 (72) | -         | GU 125                   | 6.2 (2.8)                  |

**Note:** LC/TLC models have a 6 ft (1.8 m), 3-prong power cord.  
 Removable check valve.  
 Dimensions in inches unless otherwise stated.

## UP 15-42 B5/B7

Flow range: 0-17 gpm (0 - 3.9 m<sup>3</sup>/h)

Head range: 0-15 ft (0 - 4.6 m)

Motor: 2-pole, single-phase

Max. liquid temperature: 230 °F (110 °C)

Min. liquid temperature: 36 °F (2 °C)

Max. system pressure: 145 psi (10 bar)

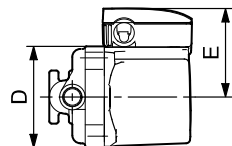
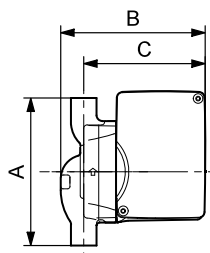
**Note:** If the UP pump is equipped with a timer, the maximum liquid temperature is 150 °F (66 °C).

| Model       | Volts | Amps | Watts | Hp    | Capacitor     |
|-------------|-------|------|-------|-------|---------------|
| UP 15-42 B5 | 115   | 0.74 | 85    | 0.114 | 10 µF / 180 V |
|             | 230   | 0.41 | 95    | 0.128 | 2 µF / 400 V  |
| UP 15-42 B7 | 115   | 0.74 | 85    | 0.114 | 10 µF / 180 V |
|             | 230   | 0.41 | 95    | 0.128 | 2 µF / 400 V  |

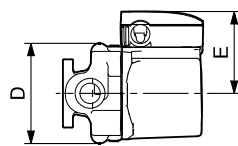
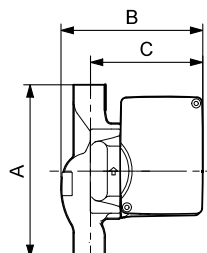
## Approvals



Drinking Water System Components  
In Accordance with NSF/ANSI 372

UP 15-42 B5/LC,  
UP 15-42 B5/TLC  
and B7

TM03 8545 1907

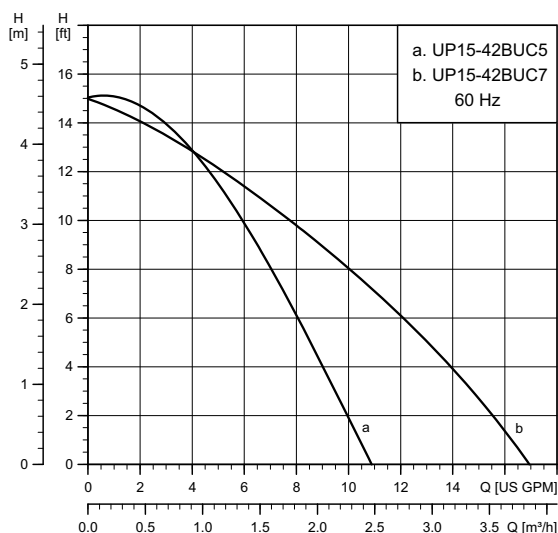
UP 15-42 B7/LC,  
UP 15-42 B7/TLC

TM03 8547 1907

| Model           | Product number |          | Dimensions [inches (mm)] |            |            |           |           | Shipping weight [lbs (kg)] |
|-----------------|----------------|----------|--------------------------|------------|------------|-----------|-----------|----------------------------|
|                 | 115 V          | 230 V    | A                        | B          | C          | D         | E         |                            |
| UP 15-42 B5     | 59896145       | 59896142 | 5.31 (135)               | 5.00 (127) | 4.13 (105) | 3.50 (89) | 2.85 (72) | 13.2 (6.0)                 |
| UP 15-42 B5/LC  | 59896233       | -        | 5.31 (135)               | 5.00 (127) | 4.13 (105) | 3.50 (89) | 2.85 (72) | 14.3 (6.5)                 |
| UP 15-42 B5/TLC | 99452473       | -        | 5.31 (135)               | 5.00 (127) | 4.13 (105) | 3.50 (89) | 2.85 (72) | 14.3 (6.5)                 |
| UP 15-42 B7     | 59896146       | 59896149 | 6.70 (170)               | 5.25 (133) | 4.13 (105) | 3.50 (89) | 2.85 (72) | 14.7 (6.7)                 |
| UP 15-42 B7/LC  | 59896235       | -        | 6.70 (170)               | 5.25 (133) | 4.13 (105) | 3.50 (89) | 2.85 (72) | 15.8 (7.2)                 |
| UP 15-42 B7/TLC | 99452477       | -        | 6.70 (170)               | 5.25 (133) | 4.13 (105) | 3.50 (89) | 2.85 (72) | 15.8 (7.2)                 |

**Note:** LC/TLC models have a 6 ft (1.8 m), 3-prong power cord.  
Dimensions in inches unless otherwise stated.

## UP 15-42 BUC5/BUC7



TM03 8431 4412

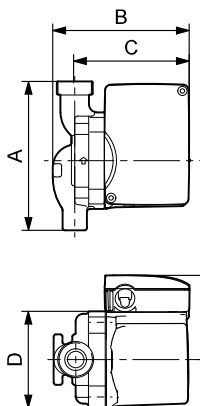
|                          |                         |
|--------------------------|-------------------------|
| Flow range:              | 0-17 gpm (0 - 3.9 m³/h) |
| Head range:              | 0-15 ft (0 - 4.6 m)     |
| Motor:                   | 2-pole, single-phase    |
| Max. liquid temperature: | 205 °F (96 °C)          |
| Min. liquid temperature: | 36 °F (2 °C)            |
| Max. system pressure:    | 145 psi (10 bar)        |

| Model         | Volts | Amps | Watts | Hp    | Capacitor     |
|---------------|-------|------|-------|-------|---------------|
| UP 15-42 BUC5 | 115   | 0.74 | 85    | 0.114 | 10 µF / 180 V |
| UP 15-42 BUC7 | 115   | 0.74 | 85    | 0.114 | 10 µF / 180 V |

## Approvals

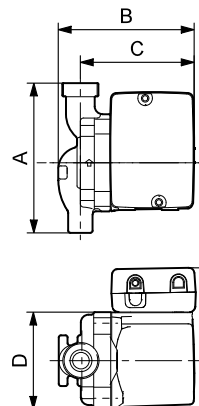


UP 15-42 BUC5



TM03 8549 1907

UP 15-42 BUC7



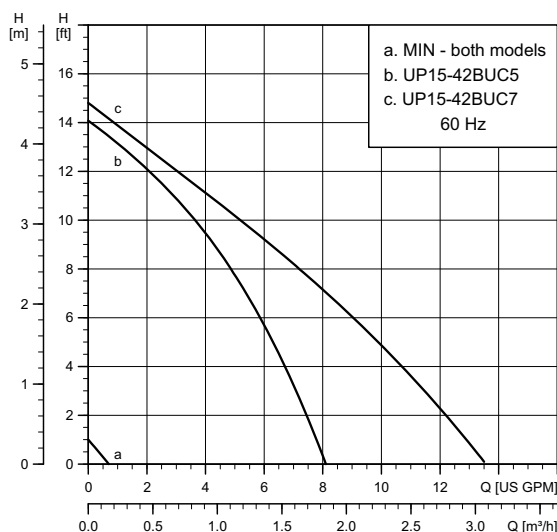
TM03 8755 2407

| Model         | Product number<br>115 V | Dimensions [inches (mm)] |            |            |           |           | Connection type<br>and size | Shipping weight<br>[lbs (kg)] |
|---------------|-------------------------|--------------------------|------------|------------|-----------|-----------|-----------------------------|-------------------------------|
|               |                         | A                        | B          | C          | D         | E         |                             |                               |
| UP 15-42 BUC5 | 59896150                | 5.31 (135)               | 5.00 (127) | 4.13 (105) | 3.50 (89) | 2.85 (72) | 1/2" sweat                  | 14.3 (6.5)                    |
| UP 15-42 BUC7 | 59896151                | 6.70 (170)               | 5.25 (133) | 4.13 (105) | 3.50 (89) | 2.85 (72) | 3/4" sweat                  | 14.9 (6.8)                    |

**Note:** Dimensions in inches unless otherwise stated.

## UP 15 MixiMizer™

## UP 15-42 BUC5/BUC7/MR



TM03 8839 4412

Flow range: 0 - 13.5 gpm (0 - 3.1 m<sup>3</sup>/h)  
 Head range: 0-15 ft (0 - 4.6 m)  
 Motor: 2-pole, single-phase  
 Max. liquid temperature: 205 °F (96 °C)  
 Min. liquid temperature: 36 °F (2 °C)  
 Max. system pressure: 145 psi (10 bar)

| Model            | Volts | Amps | Watts | Hp    | Capacitor     |
|------------------|-------|------|-------|-------|---------------|
| UP 15-42 BUC5/MR | 115   | 0.74 | 85    | 0.114 | 10 µF / 180 V |
| UP 15-42 BUC7/MR | 115   | 0.74 | 85    | 0.114 | 10 µF / 180 V |

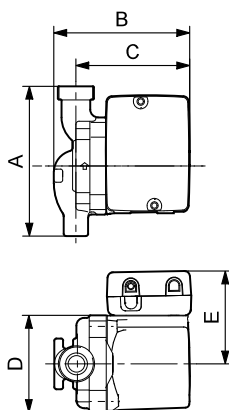
## Approvals



## MixiMizer™ models include the following features:

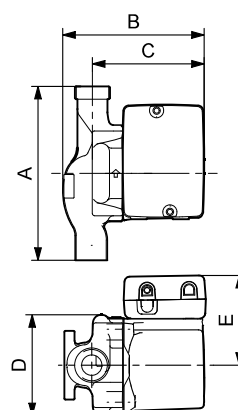
- Two water temperature sensors (supply and return pipe) prewired, 8 ft (2.4 m) each
- one prewired 6 ft (1.8 m) line cord
- one outdoor air temperature sensor
- optional zone control input
- optional boiler On/Off output.

UP 15-42 BUC5/MR



TM03 8755 2407

UP 15-42 BUC7/MR

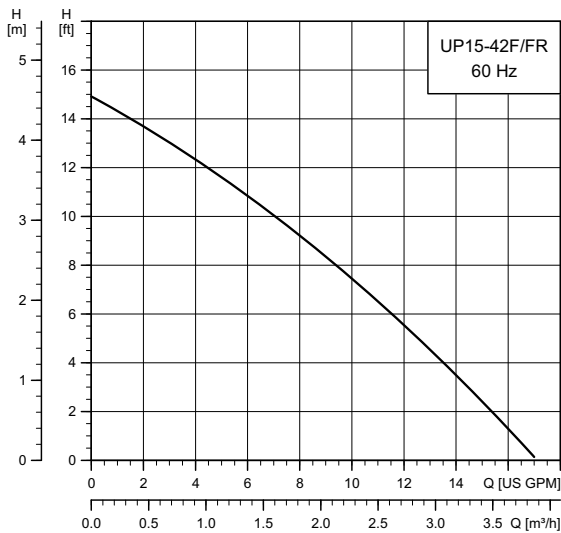


TM03 8756 2407

| Model            | Product number<br>115 V | Dimensions [inches (mm)] |            |            |           |           | Connection type and size | Shipping weight [lbs (kg)] |
|------------------|-------------------------|--------------------------|------------|------------|-----------|-----------|--------------------------|----------------------------|
|                  |                         | A                        | B          | C          | D         | E         |                          |                            |
| UP 15-42 BUC5/MR | 59896805                | 5.31 (135)               | 5.00 (127) | 4.13 (105) | 3.50 (89) | 3.33 (84) | 1/2" sweat               | 14.3 (6.5)                 |
| UP 15-42 BUC7/MR | 59896806                | 6.70 (170)               | 5.25 (133) | 4.13 (105) | 3.50 (89) | 3.33 (84) | 3/4" sweat               | 14.9 (6.8)                 |

Note: Dimensions in inches unless otherwise stated.

UP 15-42 F/FR

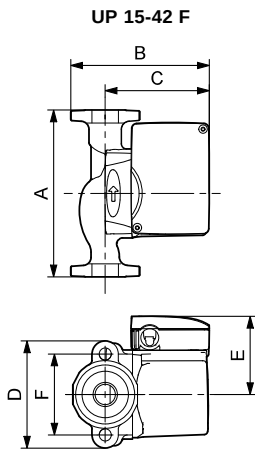


TM03 5533 4412

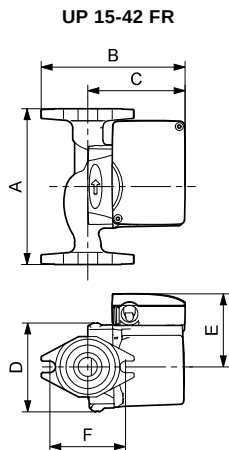
Flow range: 0-17 gpm (0 - 3.9 m³/h)  
Head range: 0-15 ft (0 - 4.6 m)  
Motor: 2-pole, single-phase  
Max. liquid temperature: 230 °F (110 °C)  
Min. liquid temperature: 36 °F (2 °C)  
Max. system pressure: 145 psi (10 bar)  
Closed system

| Model         | Volts | Amps | Watts | Hp    | Capacitor     |
|---------------|-------|------|-------|-------|---------------|
| UP 15-42 F/FR | 115   | 0.74 | 85    | 0.114 | 10 µF / 180 V |
|               | 230   | 0.43 | 95    | 0.128 | 2 µF / 400 V  |

Approvals



TM03 8526 1907

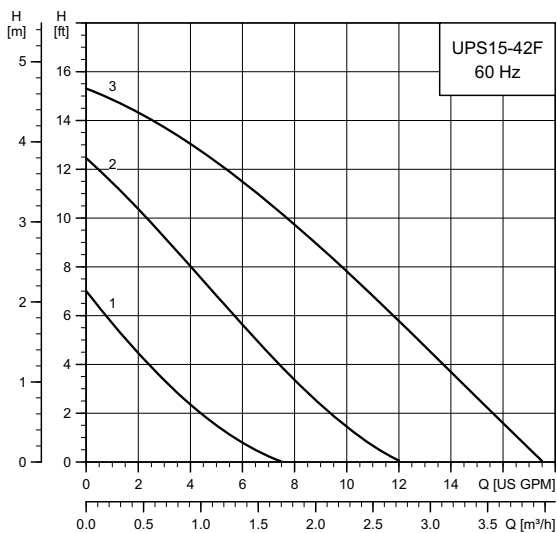


TM03 8527 1907

| Model       | Product number |          | Dimensions [inches (mm)] |            |            |            |           |           | Connection type and size | Shipping weight [lbs (kg)] |
|-------------|----------------|----------|--------------------------|------------|------------|------------|-----------|-----------|--------------------------|----------------------------|
|             | 115 V          | 230 V    | A                        | B          | C          | D          | E         | F         |                          |                            |
| UP 15-42 F  | 59896155       | 59896173 | 6.50 (165)               | 5.25 (133) | 4.00 (102) | 4.19 (106) | 3.25 (83) | 3.16 (80) | GF 15/26 flange          | 7.3 (3.3)                  |
| UP 15-42 FR | 59896167       | 59896274 | 6.50 (165)               | 5.94 (151) | 4.00 (102) | 3.75 (95)  | 3.25 (83) | 3.16 (80) | (2) 1/2" dia. bolt holes |                            |

Note: Dimensions in inches unless otherwise stated.

## UPS 15-42 F

Flow range: 0 - 17.5 gpm (0 - 4.0 m<sup>3</sup>/h)

Head range: 0 - 15.5 ft (0 - 4.7 m)

Motor: 2-pole, single-phase

Max. liquid temperature: 230 °F (110 °C)

Min. liquid temperature: 36 °F (2 °C)

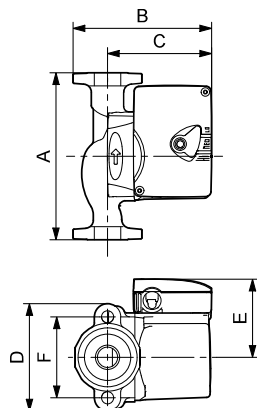
Max. system pressure: 145 psi (10 bar)

| Model       | Speed | Volts | Amps | Watts | Hp    | Capacitor    |
|-------------|-------|-------|------|-------|-------|--------------|
| UPS 15-42 F | 3     | 230   | 0.41 | 92    | 0.124 | 2 µF / 400 V |
|             | 2     |       | 0.19 | 40    | 0.054 |              |
|             | 1     |       | 0.14 | 30    | 0.041 |              |

## Approvals



UPS 15-42 F

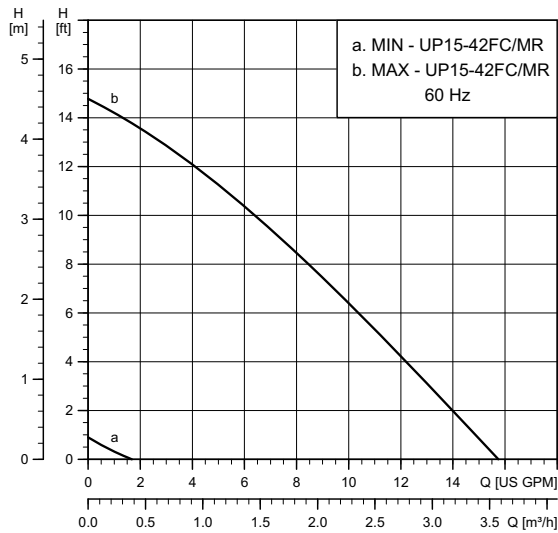


| Model       | Product number |          | Dimensions [inches (mm)] |            |            |            |           |           | Connection type and size                    | Shipping weight [lbs (kg)] |
|-------------|----------------|----------|--------------------------|------------|------------|------------|-----------|-----------|---------------------------------------------|----------------------------|
|             | 115 V          | 230 V    | A                        | B          | C          | D          | E         | F         |                                             |                            |
| UPS 15-42 F | -              | 59896180 | 6.5 (165)                | 5.25 (133) | 4.00 (102) | 4.19 (106) | 3.25 (83) | 3.16 (80) | GF 15/26 flange<br>(2) 1/2" dia. bolt holes | 7.3 (3.3)                  |

**Note:** Dimensions in inches unless otherwise stated.

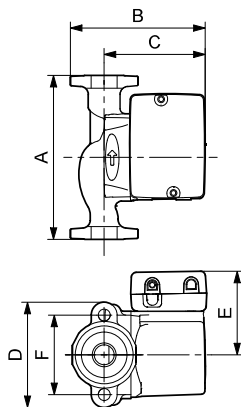
## UP 15 MixiMizer™

## UP 15-42 FC/MR



TM03 8838 4412

UP 15-42 FC/MR



TM03 8528 1907

|                          |                         |
|--------------------------|-------------------------|
| Flow range:              | 0-16 gpm (0 - 3.6 m³/h) |
| Head range:              | 0-15 ft (0 - 4.6 m)     |
| Motor:                   | 2-pole, single-phase    |
| Max. liquid temperature: | 205 °F (96 °C)          |
| Min. liquid temperature: | 36 °F (2 °C)            |
| Max. system pressure:    | 145 psi (10 bar)        |

| Model          | Volts | Amps | Watts | Hp    | Capacitor     |
|----------------|-------|------|-------|-------|---------------|
| UP 15-42 FC/MR | 115   | 0.74 | 85    | 0.114 | 10 µF / 180 V |

## Approvals



## MixiMizer™ models include the following features:

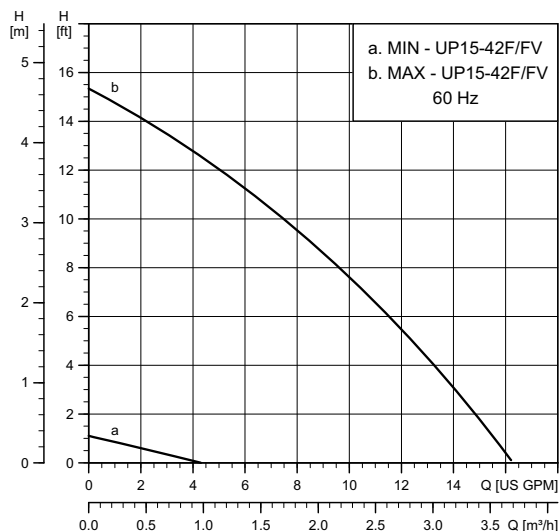
- Two water temperature sensors (supply and return pipe), prewired, 8 ft (2.4 m) each
- one prewired 6 ft (1.8 m) line cord
- one outdoor air temperature sensor
- optional zone control input
- optional boiler On/Off output.

| Model          | Product number<br>115 V | Dimensions [inches (mm)] |            |            |            |           |           | Connection type<br>and size                 | Shipping weight<br>[lbs (kg)] |
|----------------|-------------------------|--------------------------|------------|------------|------------|-----------|-----------|---------------------------------------------|-------------------------------|
|                |                         | A                        | B          | C          | D          | E         | F         |                                             |                               |
| UP 15-42 FC/MR | 59896804                | 6.50 (165)               | 5.25 (133) | 4.00 (102) | 4.19 (106) | 3.25 (83) | 3.16 (80) | GF 15/26 flange<br>(2) 1/2" dia. bolt holes | 7.5 (3.4)                     |

Note: Dimensions are in inches unless otherwise stated.

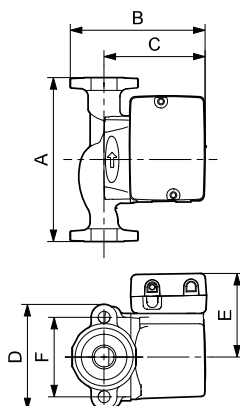
## UP variable speed

## UP 15-42 F/VS



TM03 8840 4412

UP 15-42 F/VS



TM03 8528 1907

|                          |                                      |
|--------------------------|--------------------------------------|
| Flow range:              | 0-16 gpm (0 - 3.6 m <sup>3</sup> /h) |
| Head range:              | 0 - 15.5 ft (0 - 4.7 m)              |
| Motor:                   | 2-pole, single-phase                 |
| Max. liquid temperature: | 205 °F (96 °C)                       |
| Min. liquid temperature: | 36 °F (2 °C)                         |
| Max. system pressure:    | 145 psi (10 bar)                     |

| Model         | Volts | Amps | Watts | Hp    | Capacitor     |
|---------------|-------|------|-------|-------|---------------|
| UP 15-42 F/FV | 115   | 0.74 | 85    | 0.114 | 10 µF / 180 V |

## Approvals



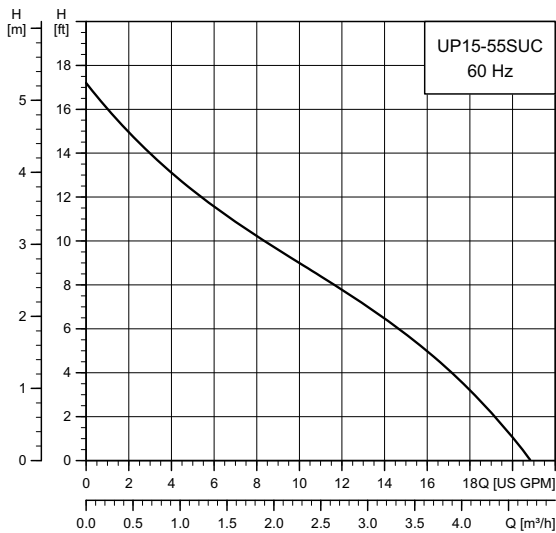
## Variable-speed models include the following features:

- Three speed-control options:
  1. Manual
  2. Voltage: 0-10 VDC or 2-10 VDC
  3. Current: 0-20 mA or 4-20 mA
- DIP switch control selection
- pump exercising
- manual offset dial
- performance indicator LEDs.

| Model         | Product number<br>115 V | Dimensions [inches (mm)] |            |            |            |           |           | Connection type and size                    | Shipping weight [lbs (kg)] |
|---------------|-------------------------|--------------------------|------------|------------|------------|-----------|-----------|---------------------------------------------|----------------------------|
|               |                         | A                        | B          | C          | D          | E         | F         |                                             |                            |
| UP 15-42 F/VS | 59896807                | 6.50 (165)               | 5.25 (133) | 4.00 (102) | 4.19 (106) | 3.25 (83) | 3.16 (80) | GF 15/26 flange<br>(2) 1/2" dia. bolt holes | 7.5 (3.4)                  |

**Note:** Dimensions in inches unless otherwise stated.

UP 15-55 SUC



TM03 8845 4412

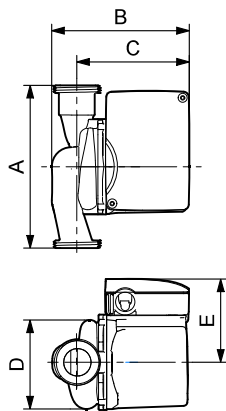
Flow range: 0 - 21.5 gpm (0 - 4.9 m³/h)  
Head range: 0-17 ft (0 - 5.2 m)  
Motor: 2-pole, single-phase  
Max. liquid temperature: 230 °F (110 °C)  
Min. liquid temperature: 36 °F (2 °C)  
Max. system pressure: 145 psi (10 bar)  
Closed system

| Model        | Volts | Amps | Watts | Hp    | Capacitor    |
|--------------|-------|------|-------|-------|--------------|
| UP 15-55 SUC | 230   | 0.42 | 97    | 0.130 | 2 µF / 400 V |

Approvals



UP 15-55 SUC

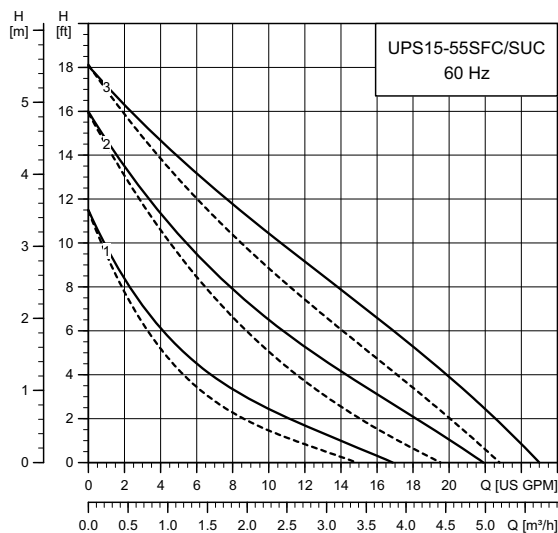


TM03 8777 2507

| Model        | Product number |          | Dimensions [inches (mm)] |            |            |           |           |            | Connection type and size | Shipping weight [lbs (kg)] |
|--------------|----------------|----------|--------------------------|------------|------------|-----------|-----------|------------|--------------------------|----------------------------|
|              | 115 V          | 230 V    | A                        | B          | C          | D         | E         | F          |                          |                            |
| UP 15-55 SUC | -              | 59896786 | 5.88 (149)               | 5.06 (129) | 4.13 (105) | 3.44 (87) | 2.94 (75) | 5.88 (149) | GU 125                   | 5.4 (2.5)                  |

Note: Dimensions in inches unless otherwise stated.

## UPS 15-55 SFC/SUC/TLC



Flow range: 0-25 gpm (0 - 5.7 m<sup>3</sup>/h)  
 Head range: 0-18 ft (0 - 5.5 m)  
 Motor: 2-pole, single-phase  
 Max. liquid temperature: 230 °F (110 °C)  
 Min. liquid temperature: 36 °F (2 °C)  
 Max. system pressure: 145 psi (10 bar)

**Note:** If the UP pump is equipped with a timer, the maximum liquid temperature is 150 °F (66 °C).

| Model         | Speed | Volts | Amps | Watts | Hp    | Capacitor     |
|---------------|-------|-------|------|-------|-------|---------------|
| UPS 15-55 SFC | 3     | 115   | 0.75 | 87    | 0.117 | 10 µF / 180 V |
|               | 2     |       | 0.69 | 77    | 0.104 |               |
|               | 1     |       | 0.53 | 58    | 0.078 |               |
| UPS 15-55 SUC | 3     | 115   | 0.69 | 87    | 0.117 |               |
|               | 2     |       | 0.66 | 74    | 0.100 |               |
|               | 1     |       | 0.31 | 56    | 0.075 |               |

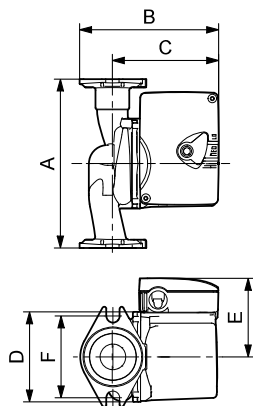
—— Without check valve  
 - - - - With check valve

## Approvals



Drinking Water System Components  
 In Accordance with NSF/ANSI 372

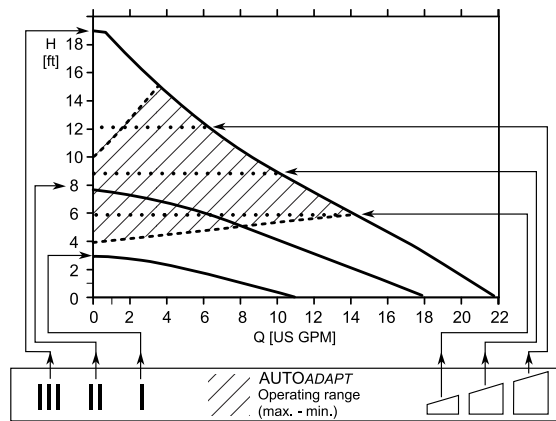
UPS 15-55 SFC,  
 UPS 15-55 SUC/TLC



| Model             | Product number<br>115 V | Dimensions [inches (mm)] |            |            |           |           |           | Connection type<br>and size | Shipping weight<br>[lbs (kg)] |
|-------------------|-------------------------|--------------------------|------------|------------|-----------|-----------|-----------|-----------------------------|-------------------------------|
|                   |                         | A                        | B          | C          | D         | E         | F         |                             |                               |
| UPS 15-55 SFC     | 59896773                | 6.50 (165)               | 5.50 (140) | 4.13 (105) | 3.88 (99) | 2.94 (75) | 3.13 (80) | GF 15/26                    | 13.2 (6.0)                    |
| UPS 15-55 SUC     | 59896781                | 5.88 (149)               | 5.06 (129) | 4.13 (105) | 3.44 (87) | 2.94 (75) | -         | GU 125                      | 11.9 (5.4)                    |
| UPS 15-55 SUC/TLC | 99452479                | 5.88 (149)               | 5.06 (129) | 4.13 (105) | 3.44 (87) | 2.94 (75) | -         | GU 125                      | 13.6 (6.2)                    |

**Note:** LC/TLC models have a 6 ft (1.8 m), 3-prong power cord.  
 Removable check valve.  
 Dimensions in inches unless otherwise stated.

## ALPHA2



## Approximate power usage

| Speed setting                       |     | Min. [W] | Max. [W] |
|-------------------------------------|-----|----------|----------|
| High, fixed speed                   | III | 39       | 45       |
| Medium, fixed speed                 | II  | 15       | 30       |
| Low, fixed speed                    | I   | 5        | 8        |
| Constant pressure                   |     | 8        | 45       |
| Constant pressure                   |     | 14       | 45       |
| Constant pressure                   |     | 22       | 45       |
| AUTO <sub>ADAPT</sub> <sup>TM</sup> |     | 5        | 45       |

Flow range: 0 - 21.5 gpm (0 - 4.9 m<sup>3</sup>/h)  
 Head range: 0 - 19 ft (0 - 5.8 m)  
 Motor: 4-pole, synchronous permanent magnet motor  
 Max. liquid temperature (see table below): 230 °F (110 °C)  
 Min. liquid temperature (see table below): 36 °F (2 °C)  
 Max. system pressure: 150 psi (10 bar)  
 Closed (F, FR) and open systems (SF)

| Model        | Volts | Amps | Watts | Hp            | Capacitor |
|--------------|-------|------|-------|---------------|-----------|
| ALPHA2 15-55 | 115   | 0.65 | 5-45  | 0.007 - 0.061 | -         |

## Maximum operating pressures

| Liquid temperature [°F (°C)] | Minimum inlet pressure [psi (bar)] |
|------------------------------|------------------------------------|
| 167 (75)                     | 0.75 (0.05)                        |
| 194 (90)                     | 4.06 (0.28)                        |
| 230 (110)                    | 15.7 (1.08)                        |

## Maximum operating temperatures

| Ambient temperature [°F (°C)] | Liquid temperature |                |
|-------------------------------|--------------------|----------------|
|                               | Min. [°F (°C)]     | Max. [°F (°C)] |
| +32 (0)                       | +36 (+2)           | +230 (+110)    |
| +50 (+10)                     | +50 (+10)          | +230 (+110)    |
| +68 (+20)                     | +68 (+20)          | +230 (+110)    |
| +86 (+30)                     | +86 (+30)          | +230 (+110)    |
| +95 (+35)                     | +95 (+35)          | +194 (+90)     |
| +104 (+40)                    | +104 (+40)         | +158 (+70)     |

**Note:** The maximum glycol concentration with clean water is 0 % glycol at 36 °F (2 °C). A hydraulic performance change can be expected.

## Approvals

Intertek  
 3191277  
 Conforms to  
 ANSI/UL Std. 778  
 Certified to  
 CAN/CSA Std. C22.2 No. 108

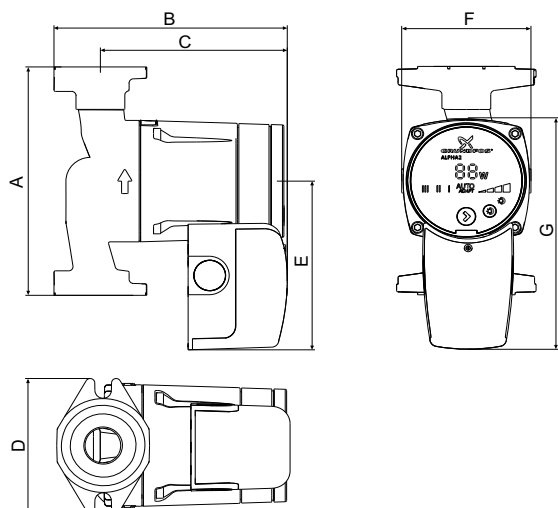


Canadian  
 EMC Standard:  
 ICES-003  
 This Class B digital  
 apparatus complies with  
 Canadian  
 ICES-003

**CLASSIFIED**  
**WATER QUALITY**  
 Drinking Water System Component  
 NSF/ANSI 61  
 NSF/ANSI 372

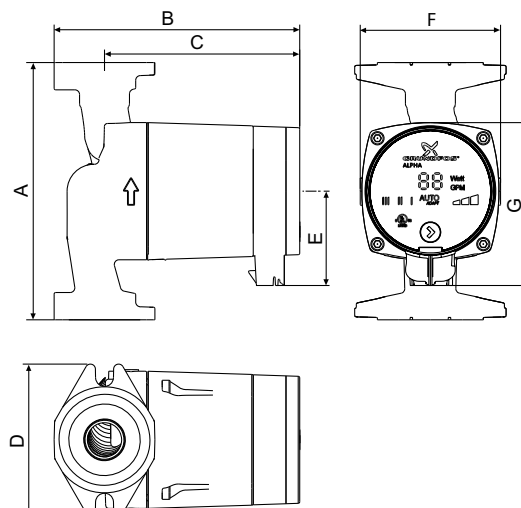
## ALPHA2

ALPHA2 15-55 terminal box



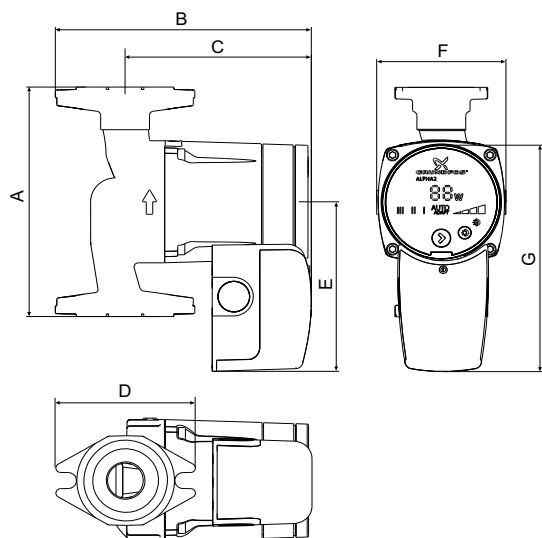
TM06 8168 4816

ALPHA2 15-55 line cord



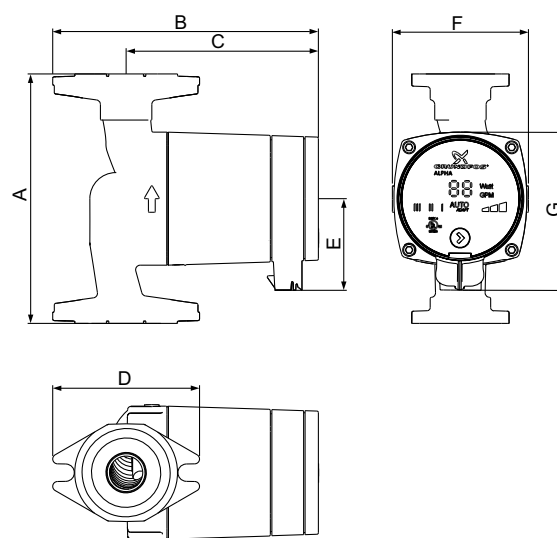
TM04 6012 4709

ALPHA2 15-55 FR terminal box



TM06 8169 4816

ALPHA2 15-55 FR line cord

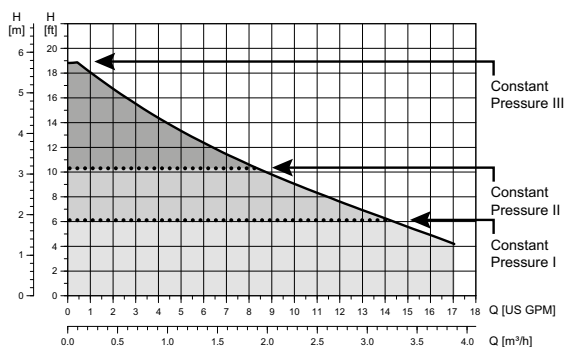


TM04 6013 4709

| Model              | Product number<br>115 V | Dimensions [inches (mm)] |            |            |            |            |           |            | Connection type<br>and size             | Shipping weight<br>[lbs (kg)] |
|--------------------|-------------------------|--------------------------|------------|------------|------------|------------|-----------|------------|-----------------------------------------|-------------------------------|
|                    |                         | A                        | B          | C          | D          | E          | F         | G          |                                         |                               |
| ALPHA2 15-55 F     | 99163903                | 6.50 (165)               | 6.38 (162) | 5.12 (130) | 3.82 (97)  | 4.80 (122) | 3.56 (90) | 6.42 (163) | GF 15/26<br>(2) 1/2" dia.<br>bolt holes | 7.2 (15.8)                    |
| ALPHA2 15-55 FR    | 99163932                | 6.50 (165)               | 7.01 (178) | 5.12 (130) | 3.82 (97)  | 4.80 (122) | 3.56 (90) | 6.42 (163) |                                         | 7.1 (15.6)                    |
| ALPHA2 15-55 SF    | 99163937                | 6.50 (165)               | 6.38 (162) | 5.12 (130) | 3.82 (97)  | 4.80 (122) | 3.56 (90) | 6.42 (163) |                                         | 6.1 (13.4)                    |
| ALPHA2 15-55 F/LC  | 99163906                | 6.50 (165)               | 6.50 (165) | 4.94 (125) | 4.00 (102) | 2.50 (64)  | 3.44 (87) | 4.13 (105) | GF 15/26<br>(2) 1/2" dia.<br>bolt holes | 7.5 (16.5)                    |
| ALPHA2 15-55 FR/LC | 99163934                | 6.50 (165)               | 7.00 (178) | 4.94 (125) | 4.00 (102) | 2.50 (64)  | 3.44 (87) | 4.13 (105) |                                         | 7.3 (16.1)                    |
| ALPHA2 15-55 SF/LC | 99163972                | 6.50 (165)               | 6.50 (165) | 4.94 (125) | 4.00 (102) | 2.50 (64)  | 3.44 (87) | 4.13 (105) |                                         | 6.3 (13.8)                    |

**Note:** Dimensions are in inches unless otherwise stated.  
LC models have a 6 ft (1.8 m), 3-prong power cord.

## ALPHA1



## Approximate power usage

| Speed setting     |     | Min.<br>[W] | Max.<br>[W] |
|-------------------|-----|-------------|-------------|
| Constant pressure | I   | 8           | 45          |
| Constant pressure | II  | 14          | 45          |
| Constant pressure | III | 22          | 45          |

Flow range: 0 - 17 gpm (0 - 3.9 m<sup>3</sup>/h)

Head range: 0 - 19 ft (0 - 5.8 m)

Motor: 4-pole, synchronous permanent magnet motor

Max. liquid temperature: 230 °F (110 °C)

Min. liquid temperature: 36 °F (2 °C)

Max. system pressure: 150 psi (10 bar)

Closed (F, FR) and open systems (SF)

| Model        | Volts | Amps        | Watts | Hp            | Capacitor |
|--------------|-------|-------------|-------|---------------|-----------|
| ALPHA1 15-55 | 115   | 0.15 - 0.65 | 8-45  | 0.007 - 0.061 | -         |

## Approvals



Intertek

3191277

Conforms to ANSI/UL Std. 778

Certified to

CAN/CSA Std. C22.2 No. 108



Canadian  
EMC Standard:  
ICES-003  
This Class B digital  
apparatus complies with  
Canadian  
ICES-003

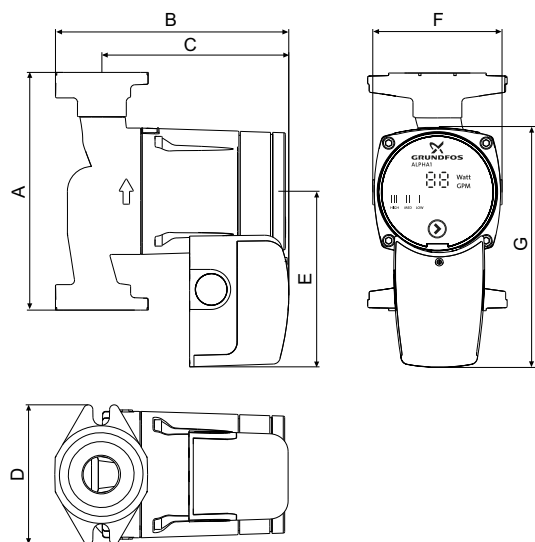


WATER QUALITY

Drinking Water System Component  
NSF/ANSI 61  
NSF/ANSI 372

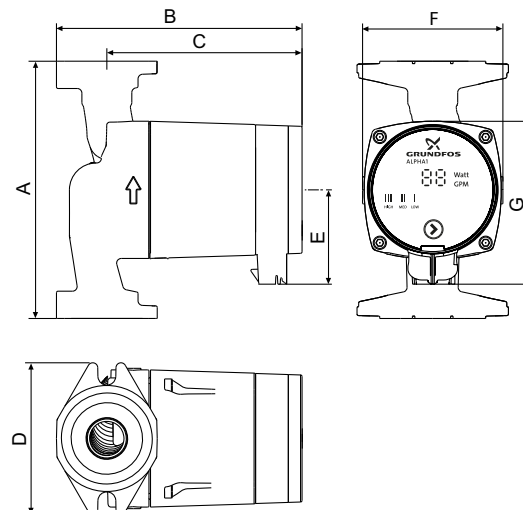
## ALPHA1

ALPHA1 15-55 terminal box



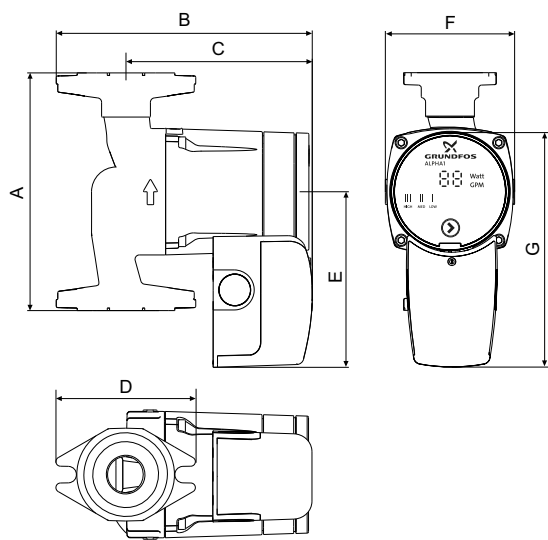
TM06 8963 1417

ALPHA1 15-55 line cord



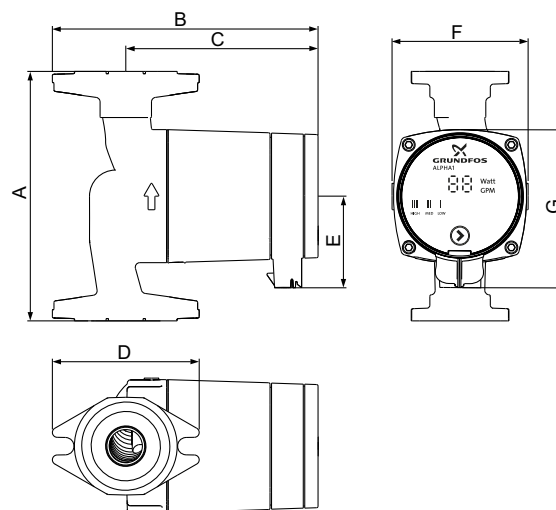
TM06 8961 1417

ALPHA1 15-55 FR terminal box



TM06 8964 1417

ALPHA1 15-55 FR line cord

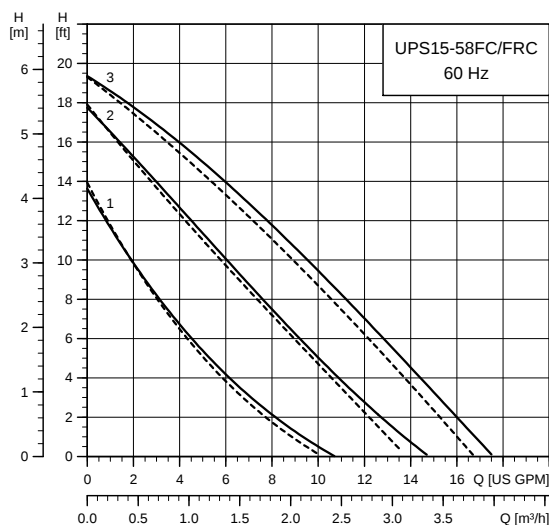


TM06 8962 1417

| Model              | Product number<br>115 V | Dimensions [inches (mm)] |            |            |            |            |           |            | Connection type<br>and size             | Shipping weight<br>[lbs (kg)] |
|--------------------|-------------------------|--------------------------|------------|------------|------------|------------|-----------|------------|-----------------------------------------|-------------------------------|
|                    |                         | A                        | B          | C          | D          | E          | F         | G          |                                         |                               |
| ALPHA1 15-55 F     | 99287256                | 6.50 (165)               | 6.38 (162) | 5.12 (130) | 3.82 (97)  | 4.80 (122) | 3.56 (90) | 6.42 (163) | GF 15/26<br>(2) 1/2" dia.<br>bolt holes | 7.2 (15.8)                    |
| ALPHA1 15-55 FR    | 99287259                | 6.50 (165)               | 7.01 (178) | 5.12 (130) | 3.82 (97)  | 4.80 (122) | 3.56 (90) | 6.42 (163) |                                         | 7.1 (15.6)                    |
| ALPHA1 15-55 SF    | 99287262                | 6.50 (165)               | 6.38 (162) | 5.12 (130) | 3.82 (97)  | 4.80 (122) | 3.56 (90) | 6.42 (163) |                                         | 6.1 (13.4)                    |
| ALPHA1 15-55 F/LC  | 99285998                | 6.50 (165)               | 6.50 (165) | 4.94 (125) | 4.00 (102) | 2.50 (64)  | 3.44 (87) | 4.13 (105) | GF 15/26<br>(2) 1/2" dia.<br>bolt holes | 7.5 (16.5)                    |
| ALPHA1 15-55 FR/LC | 99287244                | 6.50 (165)               | 7.00 (178) | 4.94 (125) | 4.00 (102) | 2.50 (64)  | 3.44 (87) | 4.13 (105) |                                         | 7.3 (16.1)                    |
| ALPHA1 15-55 SF/LC | 99287250                | 6.50 (165)               | 6.50 (165) | 4.94 (125) | 4.00 (102) | 2.50 (64)  | 3.44 (87) | 4.13 (105) |                                         | 6.3 (13.8)                    |

**Note:** Dimensions are in inches unless otherwise stated.  
LC models have a 6 ft (1.8 m), 3-prong power cord.

## UPS 15-58 FC/FRC



TM03 5535 4412

|                          |                         |
|--------------------------|-------------------------|
| Flow range:              | 0-17 gpm (0 - 3.9 m³/h) |
| Head range:              | 0 - 19.5 ft (0 - 5.9 m) |
| Motor:                   | 2-pole, single-phase    |
| Max. liquid temperature: | 230 °F (110 °C)         |
| Min. liquid temperature: | 36 °F (2 °C)            |
| Max. system pressure:    | 145 psi (10 bar)        |

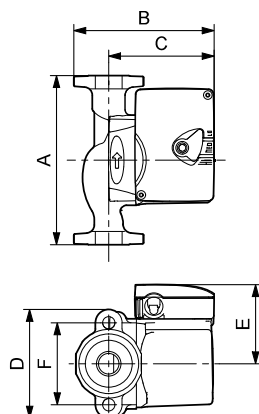
| Model               | Speed | Volts | Amps | Watts | Hp    | Capacitor     |
|---------------------|-------|-------|------|-------|-------|---------------|
| UPS 15-58<br>FC/FRC | 3     | 115   | 0.75 | 87    | 0.117 | 10 µF / 180 V |
|                     | 2     |       | 0.66 | 80    | 0.108 |               |
|                     | 1     |       | 0.55 | 60    | 0.081 |               |

- Without check valve  
- - - With check valve

## Approvals

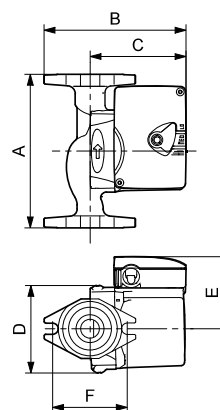


UPS 15-58 FC



TM03 8757 2407

UPS 15-58 FRC

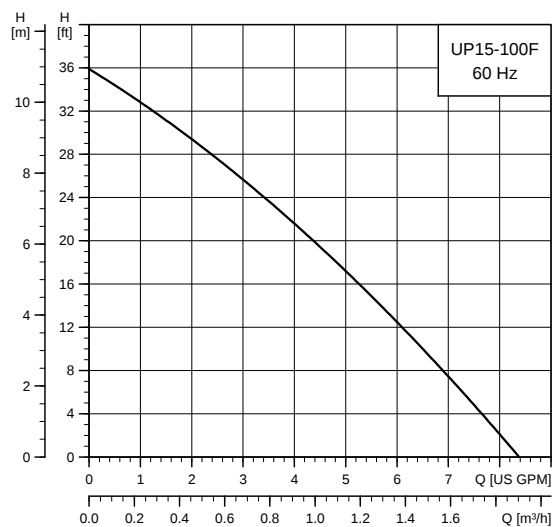


TM03 8531 1907

| Model         | Product number<br>115 V | Dimensions [inches (mm)] |            |            |            |           |           | Connection type<br>and size                 | Shipping weight<br>[lbs (kg)] |
|---------------|-------------------------|--------------------------|------------|------------|------------|-----------|-----------|---------------------------------------------|-------------------------------|
|               |                         | A                        | B          | C          | D          | E         | F         |                                             |                               |
| UPS 15-58 FC  | 59896341                | 6.50 (165)               | 5.25 (133) | 4.00 (102) | 4.19 (106) | 3.00 (76) | 3.16 (80) | GF 15/26 flange<br>(2) 1/2" dia. bolt holes | 7.3 (3.3)                     |
| UPS 15-58 FRC | 59896343                | 6.50 (165)               | 5.25 (133) | 4.00 (102) | 4.19 (106) | 3.00 (76) | 3.16 (80) | GF 15/26 flange<br>(2) 1/2" dia. bolt holes | 7.3 (3.3)                     |

**Note:** The check valve can be removed.  
Dimensions in inches unless otherwise stated.

## UP 15-100 F



TM03 5534 4412

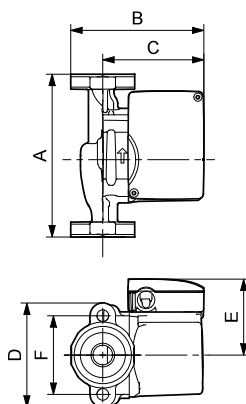
Flow range: 0 - 8.4 gpm (0 - 1.9 m<sup>3</sup>/h)  
 Head range: 0-36 ft (0 - 11.0 m)  
 Motor: 2-pole, single-phase  
 Max. liquid temperature: 205 °F (96 °C)  
 Min. liquid temperature: 36 °F (2 °C)  
 Max. system pressure: 145 psi (10 bar)  
 Closed system

| Model       | Volts | Amps | Watts | Hp    | Capacitor     |
|-------------|-------|------|-------|-------|---------------|
| UP 15-100 F | 115   | 1.1  | 135   | 0.181 | 12 µF / 170 V |

## Approvals



UP 15-100 F

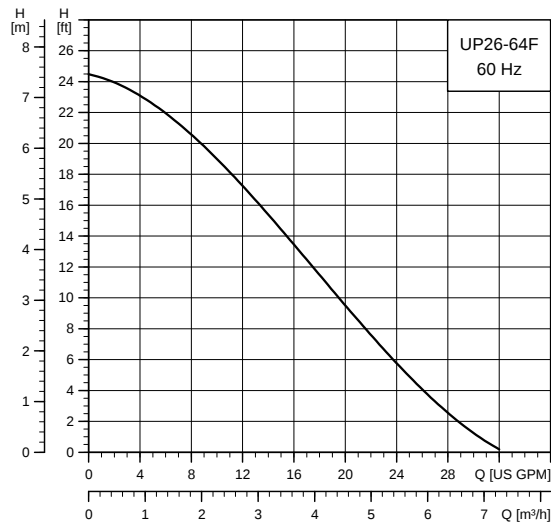


TM03 8530 1907

| Model       | Product number<br>115 V | Dimensions [inches (mm)] |            |            |            |           |           | Connection type and size                    | Shipping weight [lbs (kg)] |
|-------------|-------------------------|--------------------------|------------|------------|------------|-----------|-----------|---------------------------------------------|----------------------------|
|             |                         | A                        | B          | C          | D          | E         | F         |                                             |                            |
| UP 15-100 F | 59896300                | 6.50 (165)               | 5.25 (133) | 4.00 (102) | 4.19 (106) | 3.25 (83) | 3.16 (80) | GF 15/26 flange<br>(2) 1/2" dia. bolt holes | 7.3 (3.3)                  |

**Note:** Dimensions in inches unless otherwise stated.

UP 26-64 F



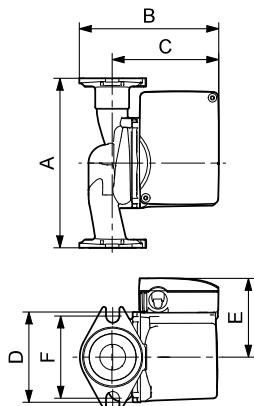
Flow range: 0-32 gpm (0 - 7.3 m<sup>3</sup>/h)  
Head range: 0 - 24.5 ft (0 - 5.7 m)  
Motor: 2-pole, single-phase  
Max. liquid temperature: 230 °F (110 °C)  
Min. liquid temperature: 36 °F (2 °C)  
Max. system pressure: 145 psi (10 bar)  
Closed system

| Model      | Volts | Amps | Watts | Hp    | Capacitor      |
|------------|-------|------|-------|-------|----------------|
| UP 26-64 F | 115   | 1.7  | 185   | 0.248 | 8 µF / 180 V   |
|            | 230   | 0.8  | 175   | 0.235 | 2.5 µF / 400 V |

Approvals



UP 26-64 F



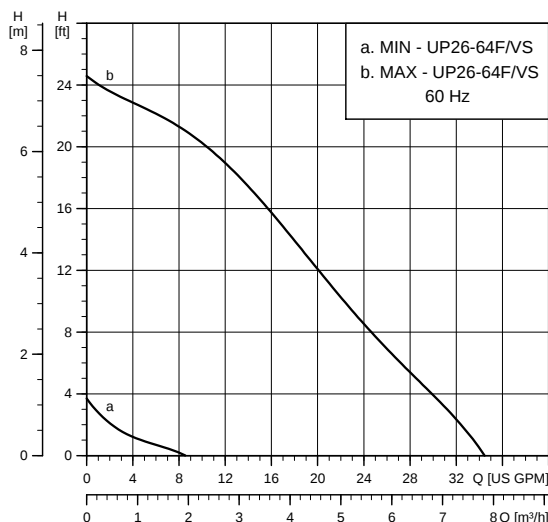
TM03 8776 2507

| Model      | Product number |          | Dimensions [inches (mm)] |            |            |            |           |           | Connection type and size                    | Shipping weight [lbs (kg)] |
|------------|----------------|----------|--------------------------|------------|------------|------------|-----------|-----------|---------------------------------------------|----------------------------|
|            | 115 V          | 230 V    | A                        | B          | C          | D          | E         | F         |                                             |                            |
| UP 26-64 F | 52722330       | 52722327 | 6.50 (165)               | 6.38 (162) | 5.06 (129) | 4.13 (105) | 3.50 (89) | 3.16 (80) | GF 15/26 flange<br>(2) 1/2" dia. bolt holes | 11 1/4 (5.1)               |

Note: Dimensions in inches unless otherwise stated.

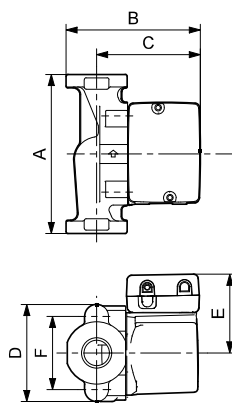
## UP 26 variable speed

### UP 26-64 F/VS



TM03 8841 4412

UP 26-64 F/VS



TM03 8533 1907

Flow range: 0-34 gpm (0 - 7.7 m<sup>3</sup>/h)  
 Head range: 0 - 24.5 ft (0 - 7.5 m)  
 Motor: 2-pole, single-phase  
 Max. liquid temperature: 195 °F (91 °C)  
 Min. liquid temperature: 36 °F (2 °C)  
 Max. system pressure: 145 psi (10 bar)

| Model         | Volts | Amps | Watts | Hp    | Capacitor    |
|---------------|-------|------|-------|-------|--------------|
| UP 26-64 F/VS | 115   | 1.7  | 185   | 0.248 | 8 µF / 180 V |

#### Approvals



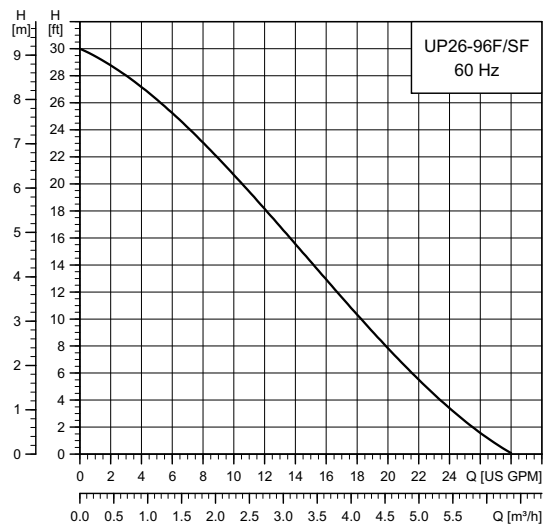
#### Variable-speed models include the following features:

- Three speed-control options:
  1. Manual
  2. Voltage: 0-10 VDC or 2-10 VDC
  3. Current: 0-20 mA or 4-20 mA
- DIP switch control selection
- pump exercising
- manual offset dial
- performance indicator LEDs.

| Model         | Product number<br>115 V | Dimensions [inches (mm)] |            |            |            |           |           | Connection type and size                    | Shipping weight [lbs (kg)] |
|---------------|-------------------------|--------------------------|------------|------------|------------|-----------|-----------|---------------------------------------------|----------------------------|
|               |                         | A                        | B          | C          | D          | E         | F         |                                             |                            |
| UP 26-64 F/VS | 52722553                | 6.50 (165)               | 6.38 (162) | 5.06 (129) | 4.13 (105) | 3.50 (89) | 3.16 (80) | GF 15/26 flange<br>(2) 1/2" dia. bolt holes | 11.3 (5.1)                 |

**Note:** Dimensions in inches unless otherwise stated.

UP 26-96 F/SF



TM03 5556 4516

Flow range: 0-28 gpm (0 - 6.4 m³/h)  
Head range: 0-30 ft (0 - 9.1 m)  
Motor: 2-pole, single-phase  
Max. liquid temperature: 230 °F (110 °C)  
Min. liquid temperature: 36 °F (2 °C)  
Max. system pressure: 145 psi (10 bar)  
Closed system (F) and open system (SF)

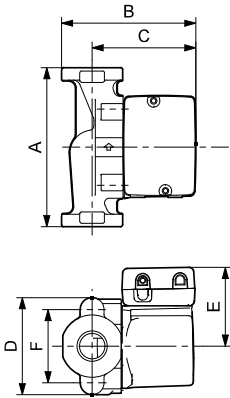
| Model         | Volts | Amps | Watts | Hp    | Capacitor      |
|---------------|-------|------|-------|-------|----------------|
| UP 26-96 F/SF | 115   | 1.7  | 205   | 0.275 | 10 µF / 180 V  |
|               | 230   | 0.8  | 205   | 0.275 | 2.5 µF / 400 V |

Approvals

UP 26-96 F/SF

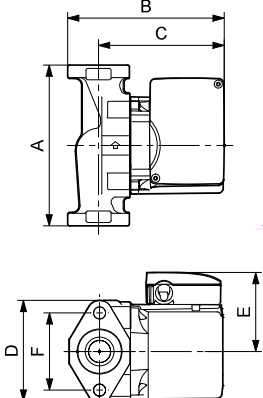


UP 26-96 F



TM03 8533 1907

UP 26-96 SF



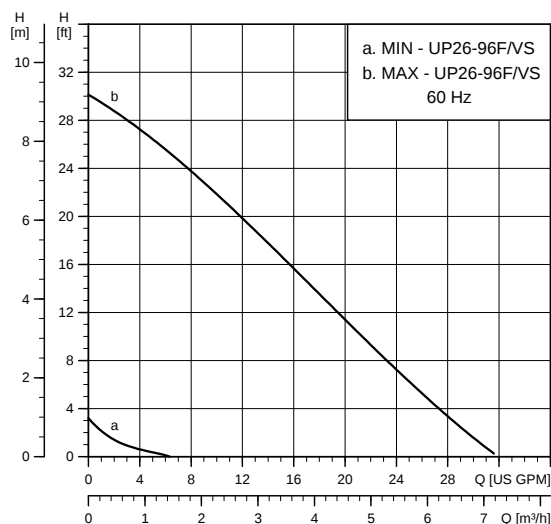
TM03 8543 1907

| Model       | Product number |          | Dimensions [inches (mm)] |            |            |            |           |           | Connection type and size                    | Shipping weight [lbs (kg)] |
|-------------|----------------|----------|--------------------------|------------|------------|------------|-----------|-----------|---------------------------------------------|----------------------------|
|             | 115 V          | 230 V    | A                        | B          | C          | D          | E         | F         |                                             |                            |
| UP 26-96 F  | 52722341       | 52722338 | 6.50 (165)               | 6.38 (162) | 5.06 (129) | 4.13 (105) | 3.50 (89) | 3.16 (80) | GF 15/26 flange<br>(2) 1/2" dia. bolt holes | 11.3 (5.1)                 |
| UP 26-96 SF | 98961756       | 98961739 | 6.50 (165)               | 6.38 (162) | 5.06 (129) | 4.13 (105) | 3.50 (89) | 3.16 (80) | GF 15/26 flange<br>(2) 1/2" dia. bolt holes | 12.5 (5.7)                 |

Note: Dimensions in inches unless otherwise stated.

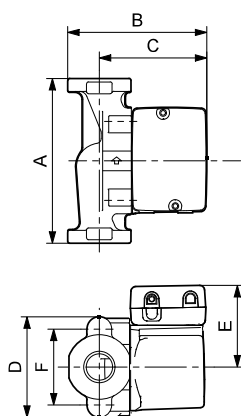
## UP 26 variable speed

### UP 26-96 F/VS



TM03 8842 4412

UP 26-96 F/VS



TM03 8533 1907

|                          |                                      |
|--------------------------|--------------------------------------|
| Flow range:              | 0-28 gpm (0 - 6.4 m <sup>3</sup> /h) |
| Head range:              | 0-30 ft (0 - 9.1 m)                  |
| Motor:                   | 2-pole, single-phase                 |
| Max. liquid temperature: | 195 °F (91 °C)                       |
| Min. liquid temperature: | 36 °F (2 °C)                         |
| Max. system pressure:    | 145 psi (10 bar)                     |

| Model         | Volts | Amps | Watts | Hp    | Capacitor     |
|---------------|-------|------|-------|-------|---------------|
| UP 26-96 F/VS | 115   | 1.7  | 205   | 0.275 | 10 µF / 180 V |

#### Approvals



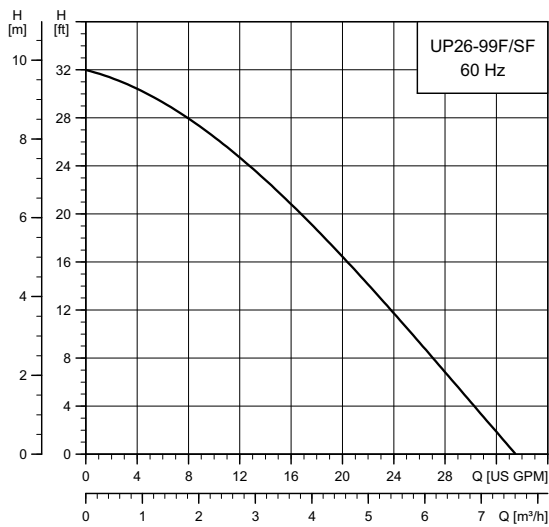
#### Variable-speed models include the following features:

- Three speed-control options:
  1. Manual
  2. Voltage: 0-10 VDC or 2-10 VDC
  3. Current: 0-20 mA or 4-20 mA
- DIP switch control selection
- pump exercising
- manual offset dial
- performance indicator LEDs.

| Model         | Product number<br>115 V | Dimensions [inches (mm)] |            |            |            |           |           | Connection type and size                    | Shipping weight [lbs (kg)] |
|---------------|-------------------------|--------------------------|------------|------------|------------|-----------|-----------|---------------------------------------------|----------------------------|
|               |                         | A                        | B          | C          | D          | E         | F         |                                             |                            |
| UP 26-96 F/VS | 52722552                | 6.50 (165)               | 6.38 (162) | 5.06 (129) | 4.13 (105) | 3.50 (89) | 3.16 (80) | GF 15/26 flange<br>(2) 1/2" dia. bolt holes | 11.3 (5.1)                 |

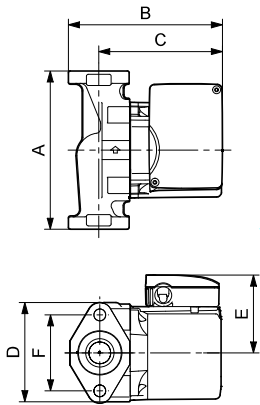
**Note:** Dimensions in inches unless otherwise stated.

UP 26-99 F/SF



TM03 5557 4516

UP 26-99 F/SF



TM03 8543 2407

Flow range: 0-34 gpm (0 - 7.7 m³/h)  
Head range: 0-32 ft (0 - 9.8 m)  
Motor: 2-pole, single-phase  
Max. liquid temperature: 230 °F (110 °C)  
Min. liquid temperature: 36 °F (2 °C)  
Max. system pressure: 145 psi (10 bar)  
Closed system (F) and open system (SF)

| Model         | Volts | Amps | Watts | Hp    | Capacitor      |
|---------------|-------|------|-------|-------|----------------|
| UP 26-99 F/SF | 115   | 2.15 | 245   | 0.329 | 10 µF / 180 V  |
|               | 230   | 1.07 | 245   | 0.329 | 2.5 µF / 400 V |

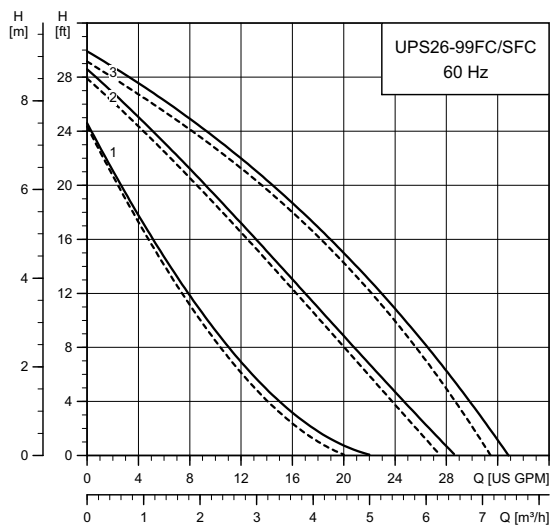
Approvals



| Model       | Product number |          | Dimensions [inches (mm)] |            |            |            |           |           | Connection type and size                    | Shipping weight [lbs (kg)] |
|-------------|----------------|----------|--------------------------|------------|------------|------------|-----------|-----------|---------------------------------------------|----------------------------|
|             | 115 V          | 230 V    | A                        | B          | C          | D          | E         | F         |                                             |                            |
| UP 26-99 F  | 52722355       | 52722351 | 6.50 (165)               | 6.38 (162) | 5.06 (129) | 4.13 (105) | 3.50 (89) | 3.16 (80) | GF 15/26 flange<br>(2) 1/2" dia. bolt holes | 12.5 (5.7)                 |
| UP 26-99 SF | 98961762       | 98961760 | 6.50 (165)               | 6.38 (162) | 5.06 (129) | 4.13 (105) | 3.50 (89) | 3.16 (80) | GF 15/26 flange<br>(2) 1/2" dia. bolt holes | 12.5 (5.7)                 |

Note: Dimensions in inches unless otherwise stated.

## UPS 26-99 FC/SFC



TM03 8195 4516

|                          |                         |
|--------------------------|-------------------------|
| Flow range:              | 0-33 gpm (0 - 7.5 m³/h) |
| Head range:              | 0-29 ft (0 - 8.8 m)     |
| Motor:                   | 2-pole, single-phase    |
| Max. liquid temperature: | 230 °F (110 °C)         |
| Min. liquid temperature: | 36 °F (2 °C)            |
| Max. system pressure:    | 145 psi (10 bar)        |

| Model            | Speed | Volts | Amps | Watts | Hp    | Capacitor     |
|------------------|-------|-------|------|-------|-------|---------------|
| UPS 26-99 FC     | III   | 115   | 1.8  | 197   | 0.265 | 20 µF / 180 V |
|                  | II    |       | 1.5  | 179   | 0.240 | 20 µF / 180 V |
|                  | I     |       | 1.3  | 150   | 0.202 | 20 µF / 180 V |
| UPS 26-99 FC/SFC | III   | 230   | 0.9  | 196   | 0.263 | 5 µF / 400 V  |
|                  | II    |       | 0.8  | 179   | 0.240 | 5 µF / 400 V  |
|                  | I     |       | 0.7  | 150   | 0.202 | 5 µF / 400 V  |

— Without check valve

- - - With check valve

## Approvals

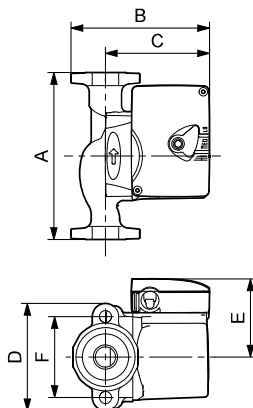
UP 26-99 F/SFC

UP 26-99 SFC



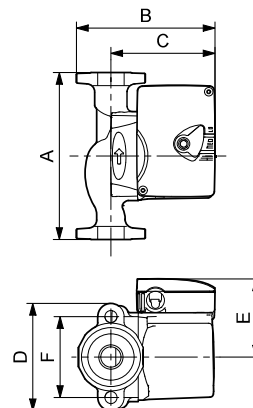
Drinking Water System Components  
In Accordance with NSF/ANSI 372

UPS 26-99 FC



TM03 8757 2407

UPS 26-99 SFC

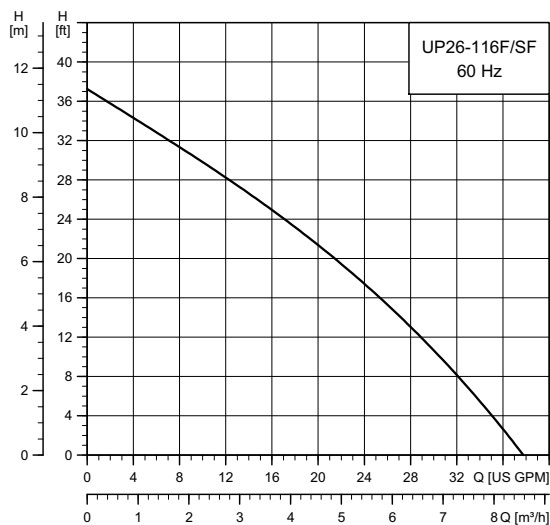


TM03 8757 2407

| Model         | Product number |          | Dimensions [inches (mm)] |            |            |           |           |           | Connection type and size                    | Shipping weight [lbs (kg)] |
|---------------|----------------|----------|--------------------------|------------|------------|-----------|-----------|-----------|---------------------------------------------|----------------------------|
|               | 115 V          | 230 V    | A                        | B          | C          | D         | E         | F         |                                             |                            |
| UPS 26-99 FC  | 52722512       | 52722513 | 6.50 (165)               | 6.00 (152) | 4.88 (124) | 3.50 (89) | 3.44 (87) | 3.16 (80) | GF 15/26 flange<br>(2) 1/2" dia. bolt holes | 10.3 (4.7)                 |
| UPS 26-99 SFC | 98961763       | 98961765 | 6.50 (165)               | 6.00 (152) | 4.88 (124) | 3.50 (89) | 3.44 (87) | 3.16 (80) | GF 15/26 flange<br>(2) 1/2" dia. bolt holes | 10.3 (4.7)                 |

**Note:** The check valve can be removed.  
Dimensions in inches unless otherwise stated.

## UP 26-116 F/SF



TM03 5577 4516

Flow range: 0-37 gpm (0 - 8.4 m³/h)  
 Head range: 0-37 ft (0 - 11.3 m)  
 Motor: 2-pole, single-phase  
 Max. liquid temperature: 150 °F (65 °C)  
 Min. liquid temperature: 32 °F (0 °C)  
 Max. system pressure: 145 psi (10 bar)  
 Closed system (F) and open system (SF)

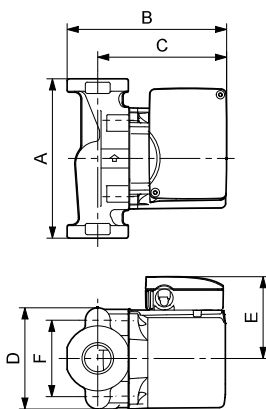
| Model          | Volts | Amps | Watts | Hp    | Capacitor      |
|----------------|-------|------|-------|-------|----------------|
| UP 26-116 F/SF | 230   | 1.8  | 385   | 0.517 | 2.5 µF / 400 V |

## Approvals

UP 26-116 F/SF

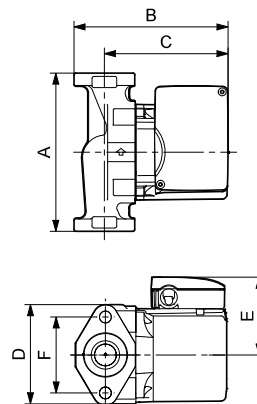


UP 26-116 F



TM03 8758 2407

UP 26-116 SF

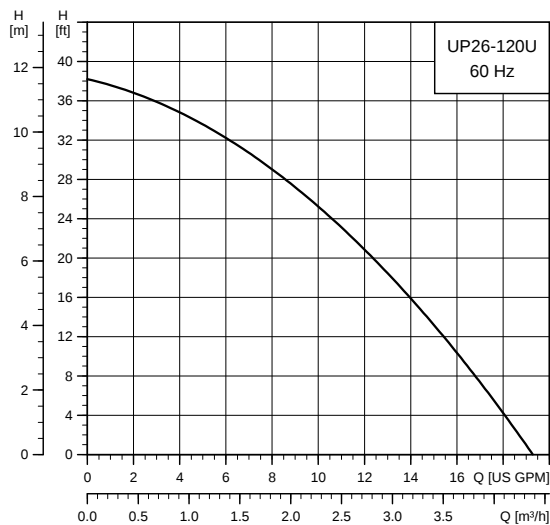


TM03 8543 1907

| Model        | Product number<br>230 V | Dimensions [inches (mm)] |            |            |            |           |           | Connection type and size                    | Shipping weight<br>[lbs (kg)] |
|--------------|-------------------------|--------------------------|------------|------------|------------|-----------|-----------|---------------------------------------------|-------------------------------|
|              |                         | A                        | B          | C          | D          | E         | F         |                                             |                               |
| UP 26-116 F  | 52722377                | 6.50 (165)               | 6.38 (162) | 5.06 (129) | 4.13 (105) | 3.50 (89) | 3.16 (80) | GF 15/26 flange<br>(2) 1/2" dia. bolt holes | 12.5 (5.7)                    |
| UP 26-116 SF | 98961766                | 6.50 (165)               | 6.38 (162) | 5.06 (129) | 4.13 (105) | 3.50 (89) | 3.16 (80) | GF 15/26 flange<br>(2) 1/2" dia. bolt holes | 12.5 (5.7)                    |

**Note:** Dimensions in inches unless otherwise stated.

## UP 26-120 U



TM03 5546 4412

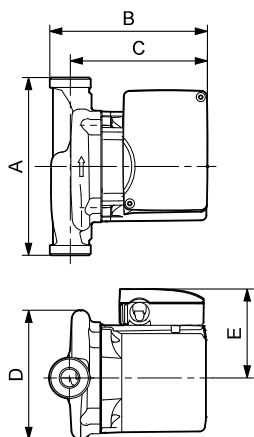
Flow range: 0-19 gpm (0 - 4.3 m<sup>3</sup>/h)  
 Head range: 0-38 ft (0 - 11.6 m)  
 Motor: 2-pole, single-phase  
 Max. liquid temperature: 203 °F (95 °C)  
 Min. liquid temperature: 32 °F (0 °C)  
 Max. system pressure: 145 psi (10 bar)  
 Closed system

| Model       | Volts | Amps | Watts | Hp    | Capacitor      |
|-------------|-------|------|-------|-------|----------------|
| UP 26-120 U | 115   | 2.15 | 215   | 0.289 | 10 µF / 180 V  |
|             | 230   | 1.07 | 220   | 0.295 | 2.5 µF / 400 V |

## Approvals



UP 26-120 U

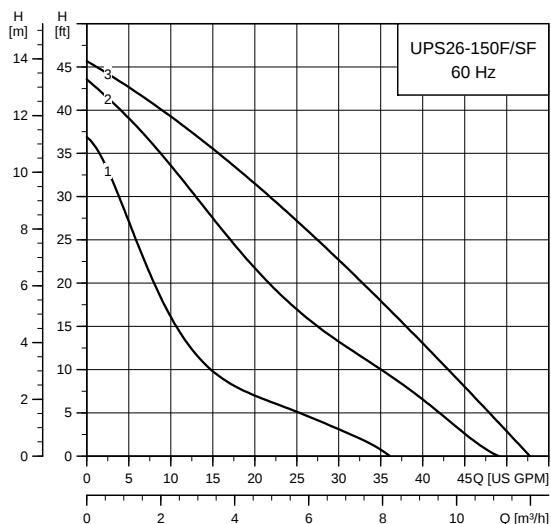


TM03 8761 2407

| Model       | Product number |          | Dimensions [inches (mm)] |            |            |            |           | Connection type and size   | Shipping weight [lbs (kg)] |
|-------------|----------------|----------|--------------------------|------------|------------|------------|-----------|----------------------------|----------------------------|
|             | 115 V          | 230 V    | A                        | B          | C          | D          | E         |                            |                            |
| UP 26-120 U | 52722435       | 52722436 | 7.06 (179)               | 5.88 (149) | 5.06 (129) | 4.88 (124) | 3.50 (89) | GF 125 union - 1 1/4" NPSM | 10.5 (4.8)                 |

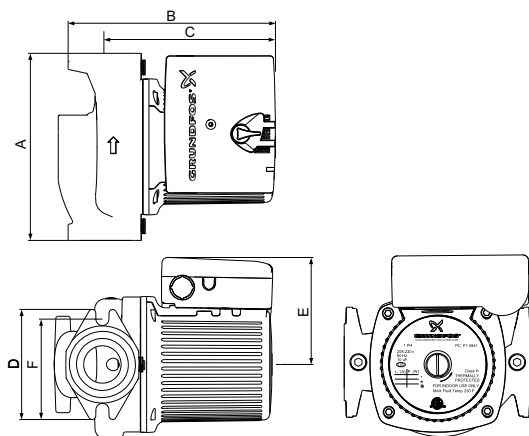
**Note:** Dimensions in inches unless otherwise stated.

## UPS 26-150 F/SF



TM04 5463 4412

UPS 26-150 F/SF



TM04 6014 4709

|                          |                      |
|--------------------------|----------------------|
| Flow range:              | 0-53 gpm (0-12 m³/h) |
| Head range:              | 0-46 ft (0-14 m)     |
| Motor:                   | 2-pole, single-phase |
| Max. liquid temperature: | 230 °F (110 °C)      |
| Min. liquid temperature: | 36 °F (2 °C)         |
| Max. system pressure:    | 145 psi (10 bar)     |

| Model           | Speed | Volts | Amps | Watts | Hp    | Capacitor     |
|-----------------|-------|-------|------|-------|-------|---------------|
| UPS 26-150 F/SF | III   | 115   | 3.5  | 370   | 0.497 | 40 µF / 180 V |
|                 | II    |       | 3.1  | 335   | 0.450 |               |
|                 | I     |       | 2.5  | 265   | 0.356 |               |
|                 | III   | 208   | 1.7  | 350   | 0.470 | 10 µF / 400 V |
|                 | II    |       | 1.5  | 310   | 0.416 |               |
|                 | I     |       | 1.2  | 250   | 0.336 |               |
|                 | III   | 230   | 1.7  | 370   | 0.497 | 10 µF / 400 V |
|                 | II    |       | 1.5  | 335   | 0.450 |               |
|                 | I     |       | 1.2  | 265   | 0.356 |               |

## Approvals

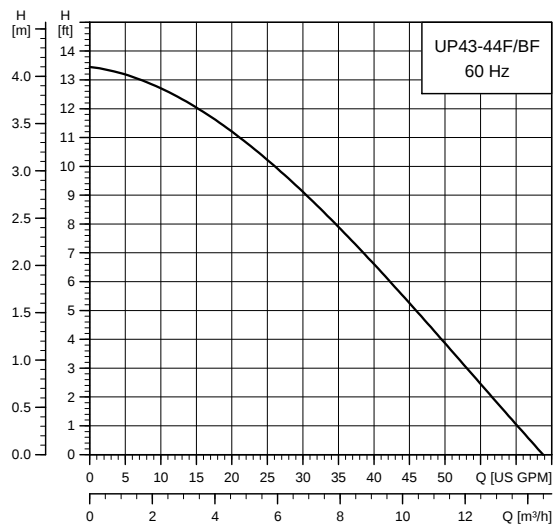
UPS 26-150 F/SF



| Model         | Product number |           | Dimensions [inches (mm)] |            |            |           |           |           | Connection type and size                    | Shipping weight [lbs (kg)] |
|---------------|----------------|-----------|--------------------------|------------|------------|-----------|-----------|-----------|---------------------------------------------|----------------------------|
|               | 115 V          | 208-230 V | A                        | B          | C          | D         | E         | F         |                                             |                            |
| UPS 26-150 F  | 95906630       | 95906631  | 6.50 (165)               | 7.13 (181) | 5.88 (149) | 3.88 (98) | 3.75 (95) | 3.13 (79) | GF 15/26 flange<br>(2) 1/2" dia. bolt holes | 17.4 (7.9)                 |
| UPS 26-150 SF | 95906632       | 95906633  | 6.50 (165)               | 7.13 (181) | 5.88 (149) | 3.88 (98) | 3.75 (95) | 3.13 (79) | GF 15/26 flange<br>(2) 1/2" dia. bolt holes | 17.4 (7.9)                 |

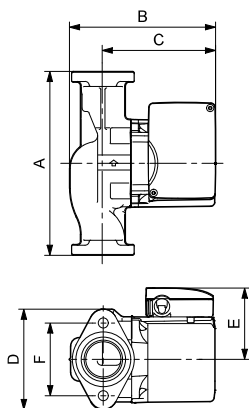
Note: Dimensions in inches unless otherwise stated.

## UP 43-44 F/BF



TM03 5558 4412

UP 43-44 F/BF



TM03 8544 1907

Flow range: 0-68 gpm (0 - 15.4 m³/h)  
 Head range: 0 - 13.5 ft (0 - 4.1 m)  
 Motor: 2-pole, single-phase  
 Max. liquid temperature: 230 °F (110 °C)  
 Min. liquid temperature: 32 °F (0 °C)  
 Max. system pressure: 145 psi (10 bar)  
 Closed system (F) and open system (BF)

| Model         | Volts | Amps | Watts | Hp    | Capacitor      |
|---------------|-------|------|-------|-------|----------------|
| UP 43-44 F/BF | 115   | 2.15 | 215   | 0.289 | 10 µF / 180 V  |
|               | 230   | 1.07 | 220   | 0.295 | 2.5 µF / 400 V |

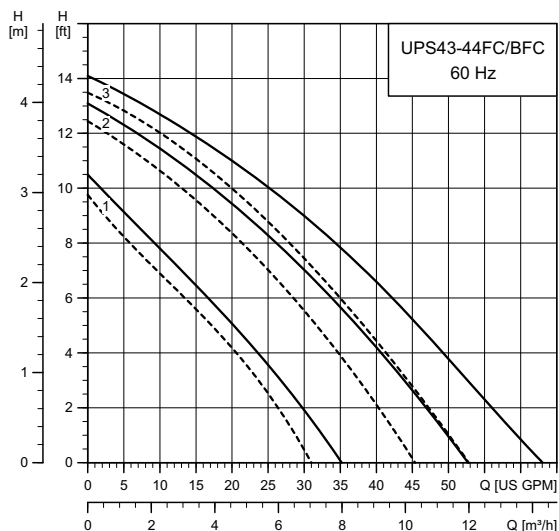
## Approvals



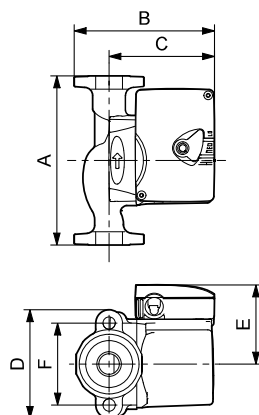
| Model       | Product number |          | Dimensions [inches (mm)] |            |            |            |           |           | Connection type and size                    | Shipping weight [lbs (kg)] |
|-------------|----------------|----------|--------------------------|------------|------------|------------|-----------|-----------|---------------------------------------------|----------------------------|
|             | 115 V          | 230 V    | A                        | B          | C          | D          | E         | F         |                                             |                            |
| UP 43-44 F  | 52722437       | 52722438 | 8.50 (216)               | 6.69 (170) | 5.19 (132) | 4.75 (121) | 3.50 (89) | 3.44 (87) | GF 40/43 flange<br>(2) 1/2" dia. bolt holes | 13.5 (6.1)                 |
| UP 43-44 BF | 52722439       | 52722440 | 8.50 (216)               | 6.69 (170) | 5.19 (132) | 4.75 (121) | 3.50 (89) | 3.44 (87) | GF 40/43 flange<br>(2) 1/2" dia. bolt holes | 15 (6.8)                   |

Note: Dimensions in inches unless otherwise stated.

## UPS 43-44 FC/BFC



UPS 43-44 FC/BFC



Flow range: 0-63 gpm (0 - 14.3 m<sup>3</sup>/h)  
 Head range: 0-14 ft (0 - 4.3 m)  
 Motor: 2-pole, single-phase  
 Max. liquid temperature: 230 °F (110 °C)  
 Min. liquid temperature: 32 °F (0 °C)  
 Max. system pressure: 145 psi (10 bar)

| Model               | Speed | Volts | Amps | Watts | Hp    | Capacitor     |
|---------------------|-------|-------|------|-------|-------|---------------|
| UPS 43-44<br>FC/BFC | III   | 115   | 1.8  | 203   | 0.273 | 20 µF / 180 V |
|                     | II    |       | 1.7  | 189   | 0.254 | 20 µF / 180 V |
|                     | I     |       | 1.4  | 157   | 0.211 | 20 µF / 180 V |
| UPS 43-44<br>FC/BFC | III   | 230   | 0.9  | 203   | 0.273 | 5 µF / 400 V  |
|                     | II    |       | 0.8  | 190   | 0.255 | 5 µF / 400 V  |
|                     | I     |       | 0.7  | 157   | 0.211 | 5 µF / 400 V  |

— Without check valve

- - - With check valve

## Approvals

UP 43-44 FC/BFC



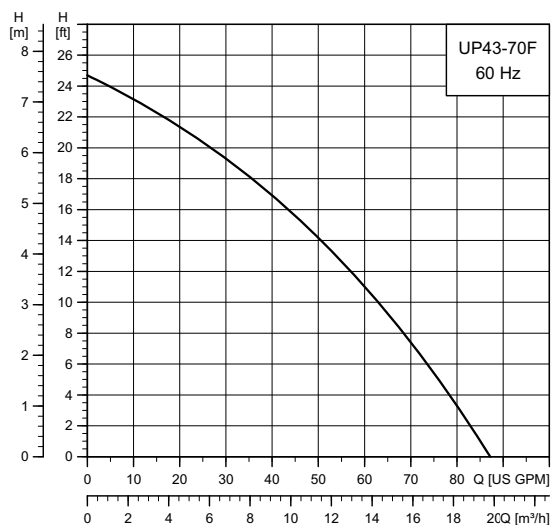
UP 43-44 BFC



| Model         | Product number |          | Dimensions [inches (mm)] |            |            |            |           |           | Connection type and size                    | Shipping weight [lbs (kg)] |
|---------------|----------------|----------|--------------------------|------------|------------|------------|-----------|-----------|---------------------------------------------|----------------------------|
|               | 115 V          | 230 V    | A                        | B          | C          | D          | E         | F         |                                             |                            |
| UPS 43-44 FC  | 52722514       | 52722515 | 8.50 (216)               | 6.69 (170) | 5.13 (130) | 4.75 (121) | 3.19 (81) | 3.44 (87) | GF 40/43 flange<br>(2) 1/2" dia. bolt holes | 13.5 (6.1)                 |
| UPS 43-44 BFC | 52722520       | 52722521 | 8.50 (216)               | 6.69 (170) | 5.13 (130) | 4.75 (121) | 3.19 (81) | 3.44 (87) | GF 40/43 flange<br>(2) 1/2" dia. bolt holes | 13.5 (6.1)                 |

**Note:** The check valve can be removed.  
 Dimensions in inches unless otherwise stated.

## UP 43-70 F



TM04 9904 4412

Flow range: 0-85 gpm (0 - 19.3 m³/h)

Head range: 0 - 24.5 ft (0 - 7.5 m)

Motor: 2-pole, single-phase

Max. liquid temperature: 230 °F (110 °C)

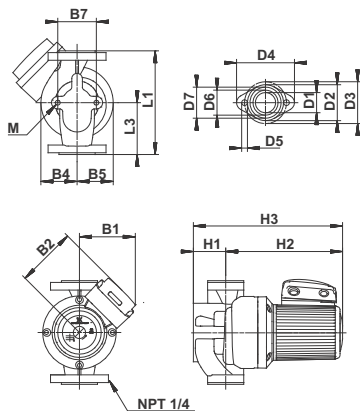
Min. liquid temperature: 14 °F (-10 °C)

Max. system pressure: 145 psi (10 bar)

Closed system

| Model      | Volts | Amps | Watts | Hp    | Capacitor |
|------------|-------|------|-------|-------|-----------|
| UP 43-70 F | 115   | 3.4  | 400   | 0.537 | 30 µF     |
|            | 230   | 1.8  | 400   | 0.537 | 30 µF     |

UP 43-70 F



TM02 0210 0211

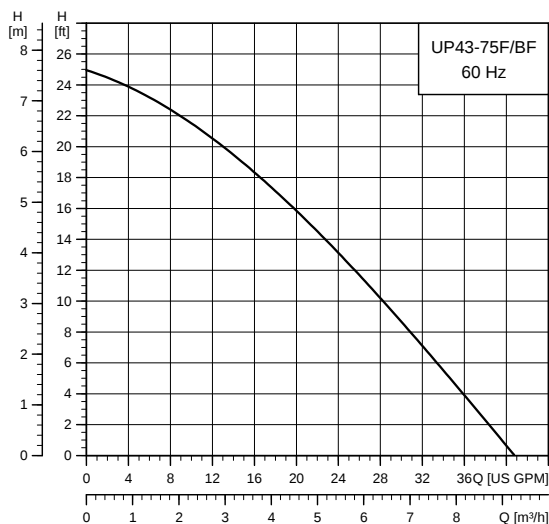
| Model      | Product number | Connection type and size                               | Shipping weight [lbs (kg)] |
|------------|----------------|--------------------------------------------------------|----------------------------|
|            | 115/230 V      |                                                        |                            |
| UP 43-70 F | 96439644       | GF 40/30 flange 1 1/2" 2-bolt with (2) 1/2" dia. holes | 41                         |

Dimensions [inches (mm)]

| L1            | L3            | B1            | B2            | B4           | B5           | B7           | H1           | H2            | H3             | D1           | D2            | D3            | D4            | D6            | D7           |
|---------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|---------------|----------------|--------------|---------------|---------------|---------------|---------------|--------------|
| 8.50<br>(216) | 4.25<br>(108) | 5.31<br>(135) | 5.56<br>(141) | 2.94<br>(75) | 2.94<br>(75) | 3.13<br>(79) | 2.63<br>(67) | 9.63<br>(244) | 12.19<br>(310) | 1.63<br>(41) | 8.50<br>(216) | 4.25<br>(108) | 5.31<br>(135) | 5.56<br>(141) | 2.94<br>(75) |

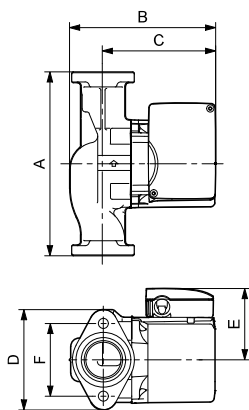
Note: Dimensions in inches unless otherwise stated.

## UP 43-75 F/BF



TM03 5560 4412

UP 43-75 F/BF



TM03 8544 1907

Flow range: 0-41 gpm (0 - 9.3 m³/h)

Head range: 0-25 ft (0 - 7.6 m)

Motor: 2-pole, single-phase

Max. liquid temperature: 230 °F (110 °C)

Min. liquid temperature: 36 °F (2 °C)

Max. system pressure: 145 psi (10 bar)

Open system

| Model         | Volts | Amps | Watts | Hp    | Capacitor      |
|---------------|-------|------|-------|-------|----------------|
| UP 43-75 F/BF | 115   | 2.15 | 215   | 0.289 | 10 µF / 180 V  |
|               | 230   | 1.07 | 220   | 0.295 | 2.5 µF / 400 V |

## Approvals

UP 43-75 F/BF



UP 43-75 BF

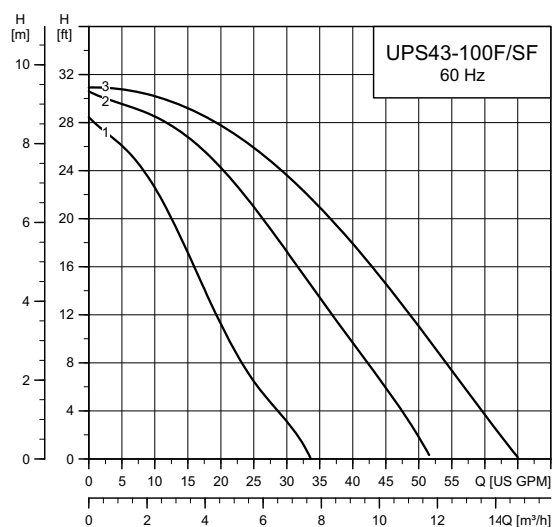


File 6591

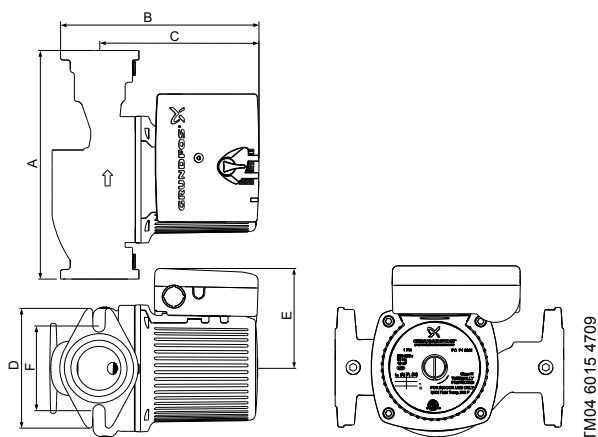
| Model       | Product number |          | Dimensions [inches (mm)] |            |            |            |           |           | Connection type and size                    | Shipping weight [lbs (kg)] |
|-------------|----------------|----------|--------------------------|------------|------------|------------|-----------|-----------|---------------------------------------------|----------------------------|
|             | 115 V          | 230 V    | A                        | B          | C          | D          | E         | F         |                                             |                            |
| UP 43-75 F  | 52722373       | 52722372 | 8.50 (216)               | 6.69 (170) | 5.19 (132) | 4.75 (121) | 3.50 (89) | 3.44 (87) | GF 40/43 flange<br>(2) 1/2" dia. bolt holes | 13.5 (6.2)                 |
| UP 43-75 BF | 52722370       | 52722369 | 8.50 (216)               | 6.69 (170) | 5.19 (132) | 4.75 (121) | 3.50 (89) | 3.44 (87) | GF 40/43 flange<br>(2) 1/2" dia. bolt holes | 15 (6.8)                   |

**Note:** Dimensions in inches unless otherwise stated.

## UPS 43-100 F/SF



UPS 43-100 F/SF



Flow range: 0-65 gpm (0 - 14.8 m<sup>3</sup>/h)  
 Head range: 0-31 ft (0 - 9.5 m)  
 Motor: 2-pole, single-phase  
 Max. liquid temperature: 230 °F (110 °C)  
 Min. liquid temperature: 36 °F (2 °C)  
 Max. system pressure: 145 psi (10 bar)

| Model              | Speed | Volts | Amps | Watts | Hp    | Capacitor     |
|--------------------|-------|-------|------|-------|-------|---------------|
| UPS 43-100<br>F/SF | III   | 115   | 3.5  | 370   | 0.497 | 40 µF / 180 V |
|                    | II    |       | 3.1  | 335   | 0.450 | 40 µF / 180 V |
|                    | I     |       | 2.5  | 265   | 0.356 | 40 µF / 180 V |
|                    | III   | 208   | 1.7  | 350   | 0.470 | 10 µF / 400 V |
|                    | II    |       | 1.5  | 310   | 0.416 | 10 µF / 400 V |
|                    | I     |       | 1.2  | 250   | 0.336 | 10 µF / 400 V |
|                    | III   | 230   | 1.7  | 370   | 0.497 | 10 µF / 400 V |
|                    | II    |       | 1.5  | 335   | 0.450 | 10 µF / 400 V |
|                    | I     |       | 1.2  | 265   | 0.356 | 10 µF / 400 V |

## Approvals

UPS 43-100 F/SF



UPS 43-100 SF

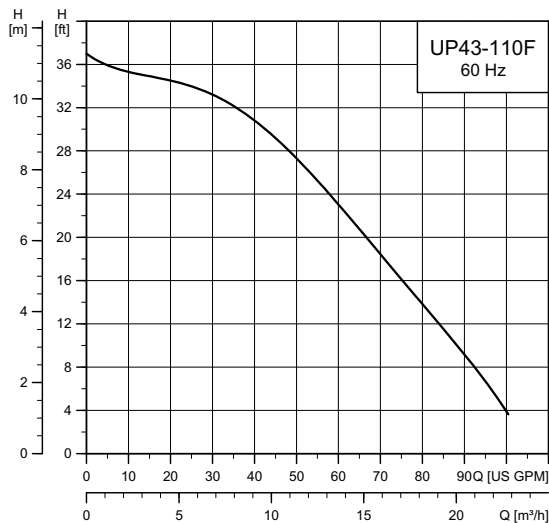


Drinking Water System Components  
 In Accordance with NSF/ANSI 372

| Model         | Product number |           | Dimensions [inches (mm)] |            |            |            |           |           | Connection type and size                    | Shipping weight [lbs (kg)] |
|---------------|----------------|-----------|--------------------------|------------|------------|------------|-----------|-----------|---------------------------------------------|----------------------------|
|               | 115 V          | 208-230 V | A                        | B          | C          | D          | E         | F         |                                             |                            |
| UPS 43-100 F  | 95906636       | 95906637  | 8.50 (216)               | 6.69 (170) | 5.13 (130) | 4.75 (121) | 3.19 (81) | 3.44 (87) | GF 40/43 flange<br>(2) 1/2" dia. bolt holes | 18.47 (8.4)                |
| UPS 43-100 SF | 95906638       | 95906639  | 8.50 (216)               | 6.69 (170) | 5.13 (130) | 4.75 (121) | 3.19 (81) | 3.44 (87) | GF 40/43 flange<br>(2) 1/2" dia. bolt holes | 18.47 (8.4)                |

Note: Dimensions in inches unless otherwise stated.

## UP 43-110 F



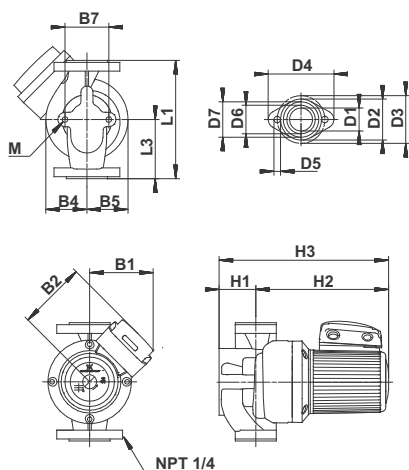
Flow range: 0-98 gpm (0 - 22.3 m<sup>3</sup>/h)  
 Head range: 0-37 ft (0 - 11.3 m)  
 Motor: 2-pole, single-phase  
 Max. liquid temperature: 230 °F (110 °C)  
 Min. liquid temperature: 14 °F (-10 °C)  
 Max. system pressure: 145 psi (10 bar)  
 Closed system

| Model       | Volts | Amps | Watts | Hp    | Capacitor |
|-------------|-------|------|-------|-------|-----------|
| UP 43-110 F | 115   | 5.1  | 590   | 0.792 | 60 µF     |
|             | 230   | 2.7  | 590   | 0.792 | 60 µF     |

## Approvals



## UP 43-110 F



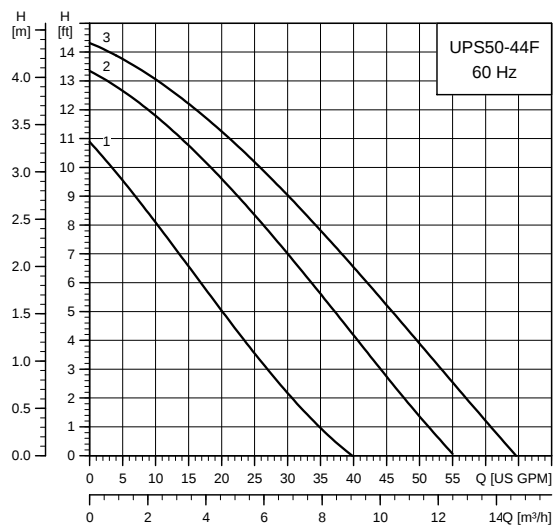
| Model       | Product number | Connection type and size  | Shipping weight [lbs (kg)] |
|-------------|----------------|---------------------------|----------------------------|
|             | 115 V / 230 V  |                           |                            |
| UP 43-110 F | 96439643       | GF 40/43 flange<br>1 1/2" | 41.2 (18.7)                |

| Dimensions [inches (mm)] |               |               |               |              |              |              |              |               |                |              |              |              |               |              |              |              |
|--------------------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|---------------|----------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|
| L1                       | L3            | B1            | B2            | B4           | B5           | B7           | H1           | H2            | H3             | D1           | D2           | D3           | D4            | D6           | D7           | M            |
| 8.50<br>(216)            | 4.25<br>(108) | 5.25<br>(133) | 5.56<br>(141) | 2.94<br>(75) | 2.94<br>(75) | 3.13<br>(79) | 2.63<br>(67) | 9.63<br>(244) | 12.19<br>(310) | 1.63<br>(41) | 2.94<br>(75) | 3.44<br>(87) | 4.75<br>(121) | 2.06<br>(52) | 2.50<br>(64) | 0.47<br>(12) |

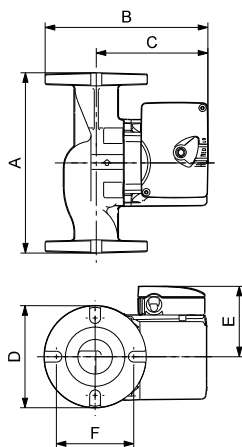
Note: Dimensions in inches unless otherwise stated.

## UPS 50-44 F



TM03 8837 4412

UPS 50-44 F



TM04 54713209

Flow range: 0-65 gpm (0 - 14.8 m³/h)  
 Head range: 0 - 14.4 ft (0 - 4.4 m)  
 Motor: 2-pole, single-phase  
 Max. liquid temperature: 230 °F (110 °C)  
 Min. liquid temperature: 32 °F (0 °C)  
 Max. system pressure: 145 psi (10 bar)

| Model       | Speed | Volts | Amps | Watts | Hp    | Capacitor |
|-------------|-------|-------|------|-------|-------|-----------|
| UPS 50-44 F | III   | 115   | 1.8  | 194   | 0.261 | 20 µF     |
|             | II    |       | 1.6  | 181   | 0.243 |           |
|             | I     |       | 1.3  | 147   | 0.198 |           |
|             | III   | 230   | 0.90 | 195   | 0.262 | 5 µF      |
|             | II    |       | 0.81 | 182   | 0.244 |           |
|             | I     |       | 0.74 | 147   | 0.198 |           |

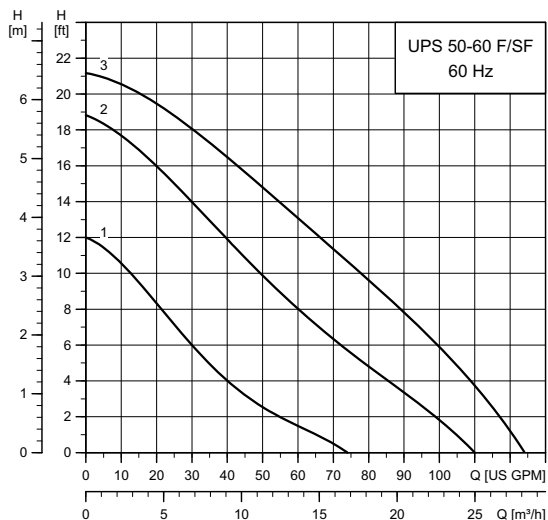
## Approvals



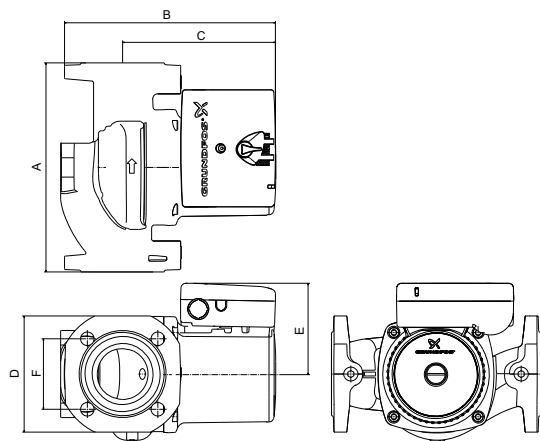
| Model       | Product number |          | Dimensions [inches (mm)] |            |            |            |           |            | Connection type and size                 | Shipping weight [lbs (kg)] |
|-------------|----------------|----------|--------------------------|------------|------------|------------|-----------|------------|------------------------------------------|----------------------------|
|             | 115 V          | 230 V    | A                        | B          | C          | D          | E         | F          |                                          |                            |
| UPS 50-44 F | 52722557       | 52722558 | 8.50 (216)               | 7.50 (191) | 5.06 (129) | 4.88 (124) | 3.50 (89) | 4.19 (106) | GF 50 flange<br>(4) 1/2" dia. bolt holes | 15.5 (7.0)                 |

**Note:** Dimensions in inches unless otherwise stated.

## UPS 50-60 F/SF



UPS 50-60 F/SF



Flow range: 0-120 gpm (0 - 27.3 m<sup>3</sup>/h)  
 Head range: 0-21 ft (0 - 6.4 m)  
 Motor: 2-pole, single-phase  
 Max. liquid temperature: 230 °F (110 °C)  
 Min. liquid temperature: 36 °F (10 °C)  
 Max. system pressure: 145 psi (10 bar)  
 Closed or open system

| Model             | Speed | Volts | Amps | Watts | Hp    | Capacitor     |
|-------------------|-------|-------|------|-------|-------|---------------|
| UPS 50-60<br>F/SF | III   | 115   | 3.6  | 395   | 0.530 | 40 µF / 180 V |
|                   | II    |       | 3.4  | 350   | 0.470 |               |
|                   | I     |       | 2.7  | 260   | 0.349 |               |
|                   | III   | 208   | 1.9  | 395   | 0.530 | 10 µF / 400 V |
|                   | II    |       | 1.7  | 350   | 0.470 |               |
|                   | I     |       | 1.4  | 290   | 0.389 |               |
|                   | III   | 230   | 1.8  | 395   | 0.530 |               |
|                   | II    |       | 1.7  | 350   | 0.470 |               |
|                   | I     |       | 1.4  | 260   | 0.349 |               |

## Approvals

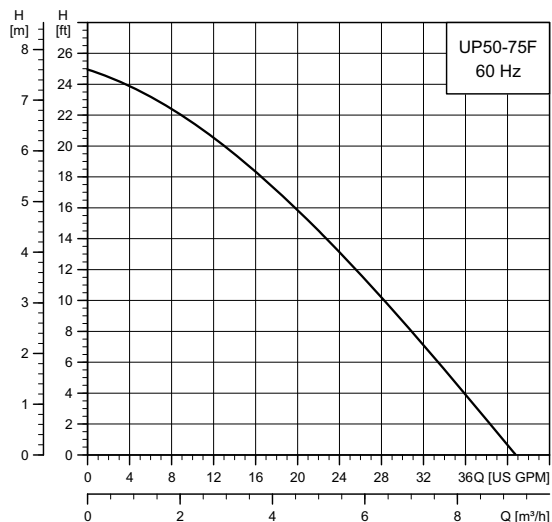
UPS 50-60 F/SF



| Model        | Product number |           | Dimensions [inches (mm)] |            |            |            |           |           | Connection<br>type<br>and size | Shipping<br>weight<br>[lbs (kg)] |
|--------------|----------------|-----------|--------------------------|------------|------------|------------|-----------|-----------|--------------------------------|----------------------------------|
|              | 115 V          | 208-230 V | A                        | B          | C          | D          | E         | F         |                                |                                  |
| UPS 50-60 F  | 97523134       | 97523135  | 8.59 (216)               | 8.63 (219) | 6.25 (159) | 4.75 (121) | 3.75 (95) | 2.88 (73) | GF 50                          | 20.0 (44.0)                      |
| UPS 50-60 SF | 97523136       | 97523137  | 8.59 (216)               | 8.63 (219) | 6.25 (159) | 4.75 (121) | 3.75 (95) | 2.88 (73) |                                | 20.0 (44.0)                      |

**Note:** Dimensions in inches unless otherwise stated.

## UP 50-75 F



TM03 5545 4412

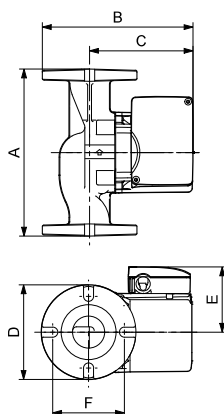
Flow range: 0-41 gpm (0 - 9.3 m<sup>3</sup>/h)  
 Head range: 0-25 ft (0 - 7.6 m)  
 Motor: 2-pole, single-phase  
 Max. liquid temperature: 230 °F (110 °C)  
 Min. liquid temperature: 32 °F (0 °C)  
 Max. system pressure: 145 psi (10 bar)  
 Closed system

| Model      | Volts | Amps | Watts | Hp    | Capacitor      |
|------------|-------|------|-------|-------|----------------|
| UP 50-75 F | 115   | 2.15 | 215   | 0.289 | 10 µF / 180 V  |
|            | 230   | 1.07 | 220   | 0.295 | 2.5 µF / 400 V |

## Approvals



UP 50-75 F



TM03 8760 2407

| Model      | Product number |          | Dimensions [inches (mm)] |            |            |            |           |            | Connection type and size                 | Shipping weight [lbs (kg)] |
|------------|----------------|----------|--------------------------|------------|------------|------------|-----------|------------|------------------------------------------|----------------------------|
|            | 115 V          | 230 V    | A                        | B          | C          | D          | E         | F          |                                          |                            |
| UP 50-75 F | 52722352       | 52722353 | 8.50 (216)               | 7.50 (191) | 5.06 (129) | 4.88 (124) | 3.50 (89) | 4.19 (106) | GF 50 flange<br>(4) 1/2" dia. bolt holes | 15.5 (7.0)                 |

**Note:** Dimensions in inches unless otherwise stated.

7. Accessories

Digital timer

For pumps with line cord only.

Specifications (current model):

Indoor 7-day digital timer with line cord with 3-prong plug

Supply voltage:

125 VAC, 60 Hz, 15 A, 1875 W resistive

8 A, 1000 W tungsten, 500 VA electronic ballast

120 VAC, 60 Hz, 8.3 A standard ballast

1/2 HP motor load

Contact rating: 15 A



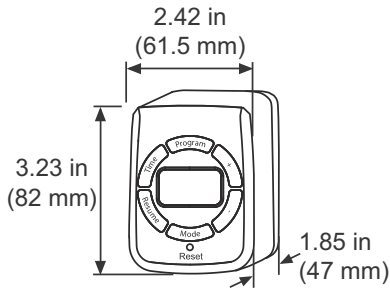
TM07 2374 33 18

Fig. 5 Grundfos digital timer for pumps with line cord

| Product number | Description                                             | Shipping weight |       |
|----------------|---------------------------------------------------------|-----------------|-------|
|                |                                                         | [oz.]           | [kg]  |
| 99521972       | Digital timer only*                                     | 4.8             | 0.134 |
| 99519620       | Kit with digital timer, replacement line cord and lid** | 15.3            | 0.432 |

\* For UP pumps with line cord.

\*\* To replace an older style timer. order the digital timer kit with replacement line cord and lid.



TM073759 0219

Fig. 6 Digital timer dimensions

Approvals



### Previous model timers (analog)

#### Specifications:

Type: 24-hour, 3-position On/Timer/Off 15-minute interval.

- Supply voltage: 120 VAC
- power consumption: 1 VA.

Switch rating: SPDT

- Resistive: 21 A/6 A
- tungsten: 1350 W.
- inductive: 1 hp @ 120 VAC; 2 hp @ 240 VAC.

Wiring connections: 1/4" quick-connects.

#### Installation

Indoor, wired and mounted on the UP terminal box.

#### Features

- Compact and contemporary design
- captive trippers are easy to set, cannot be lost
- quartz drive provides 7-day carry-over
- synchronous drive for greatest accuracy, lowest cost.

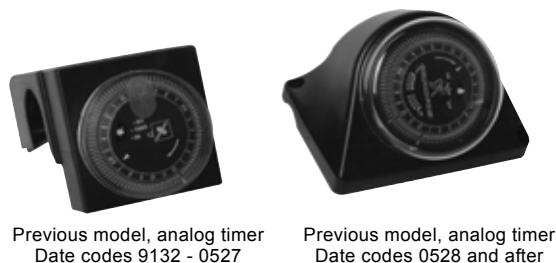


Fig. 7 Previous models, analog timer

TM03 7893 0307

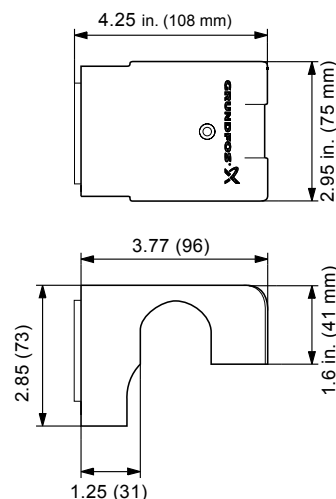


Fig. 8 Timer dimensions, previous version

TM03 4406 1311

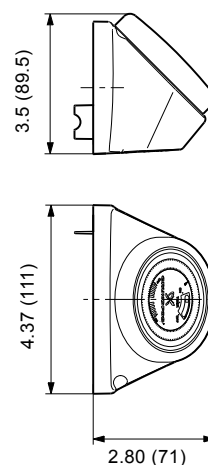


Fig. 9 Timer dimensions, previous version

TM03 9076 1311

### Timer control (previous models)

| Product number | Description                                                                                                                             | Shipping weight |      | Length   |      | Height   |      | Width    |      |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------|------|----------|------|----------|------|----------|------|
|                |                                                                                                                                         | [oz]            | [kg] | [inches] | [mm] | [inches] | [mm] | [inches] | [mm] |
| 505474         | 24-hour programmable clock/timer for use with single-speed UP series (115 V) circulator pump* for date codes 9132-0527.                 | 10              | 0.28 | 2.44     | 62   | 1.27     | 32   | 2.38     | 60   |
| 599388         | 24-hour programmable clock/timer for use with single-speed UP series (115 V) circulator pump* for UP 15, only date code 0528 and after. | 10              | 0.28 | 2.44     | 62   | 1.27     | 32   | 2.38     | 60   |

### Approvals



## Aquastat

### Specifications:

- Description: thermostatic switch
- type: Bi-metallic disc, snap-acting
- enclosure: environmentally sealed
- mounting:
  - clip-on mount for 1/2" (12.7 mm) inner diameter copper tube (5/8" (15.9 mm) outer diameter)
  - clip-on mount for 3/4" (19.1 mm) inner diameter copper tube (7/8" (22.2 mm) outer diameter).
- contact rating:
  - 10 A @ 120 VAC, 60 Hz resistive
  - 5 A @ 240 VAC, 60 Hz resistive.

### Temperature rating

#### Low-temperature model:

- 105 ± 5 °F (40 ± 2 °C) – pump switches off
- 85 ± 6 °F (29 ± 3 °C) – pump switches on.

#### High-temperature model:

- 115 ± 5 °F (46 ± 2 °C) – pump switches off
- 105 ± 5 °F (40 ± 2 °C) – pump switches on.

#### Conductors:

- 2 conductors, AWG 18, 14" (356 mm)
- 12" (305 mm), black insulation, silicon or epoxy overmold
- 1/2" (12.7 mm) strip length.

#### Application:

- Clip-on thermostatic control for UP circulator pumps.

### Approvals

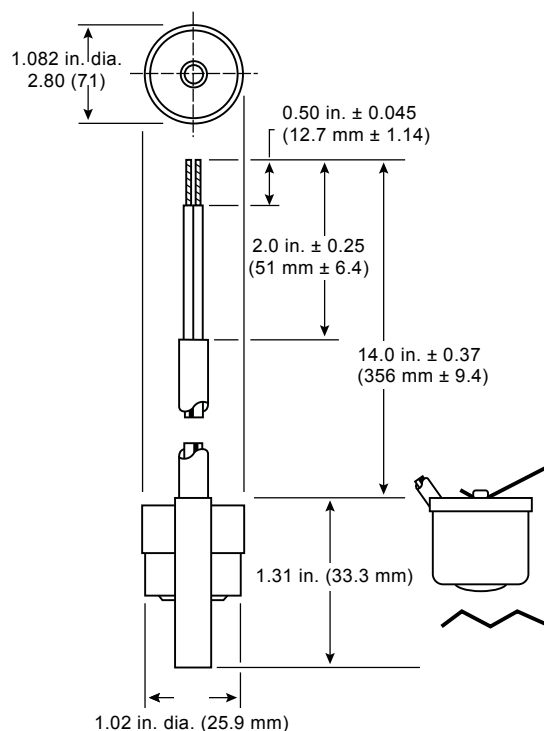


Fig. 10 Aquastat dimensions



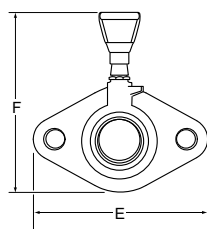
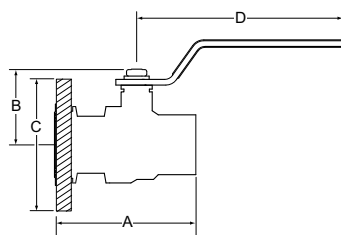
Fig. 11 Aquastat

### Thermostatic controls

| Product number | Description                                                                                                                                                                                                                                     | Shipping wt. [lbs (kg)] |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 595443         | Aquastat set, 1/2" (12.7 mm) clip-on mount for 5/8" (15.9 mm) outer diameter system piping size, 85-105 °F* (29.4 - 40.5 °C) (1/2" (12.7 mm) inner diameter copper tubing or 3/8" (9.7 mm) steel pipe) shielded wire with PVC jacketed cable.   | 1.0 (0.45)              |
| 595444         | Aquastat set, 3/4" (19.1 mm) clip-on mount for 7/8" (22.2 mm) outer diameter system piping size, 85-105 °F* (29.4 - 40.5 °C) (3/4" (19.1 mm) inner diameter copper tubing or 1/2" (12.7 mm) steel pipe) shielded wire with PVC jacketed cable.  | 1.0 (0.45)              |
| 595656         | Aquastat set, 1/2" (12.7 mm) clip-on mount for 5/8" (15.9 mm) outer diameter system piping size, 105-115 °F* (40.5 - 46.1 °C) (1/2" (12.7 mm) inner diameter copper tubing or 3/8" (9.7 mm) steel pipe) shielded wire with PVC jacketed cable   | 1.0 (0.45)              |
| 595657         | Aquastat set, 3/4" (19.1 mm) clip-on mount for 7/8" (22.2 mm) outer diameter system piping size, 105-115 °F* (40.5 - 46.1 °C) (3/4" (19.1 mm) inner diameter copper tubing or 1/2" (12.7 mm) steel pipe) shielded wire with PVC jacketed cable. | 1.0 (0.45)              |

**Note:** Dimensions in inches unless otherwise stated.

## Packaged dielectric isolating valve sets



TM04 9909 0311



TM05 7999 3507

| Pump connection | Pipe connection type and size |        | Product number | Approx. shipping weight (1 kit)<br>[lbs (kg)] | Face to face<br>[A] | Center of port to top<br>[B] | Flange diameter<br>[C] | Center of valve to handle end<br>[D] | Flange width<br>[E] | Overall height<br>[F] |
|-----------------|-------------------------------|--------|----------------|-----------------------------------------------|---------------------|------------------------------|------------------------|--------------------------------------|---------------------|-----------------------|
|                 | NPT                           | Sweat  |                |                                               |                     |                              |                        |                                      |                     |                       |
| GF 15/26 flange |                               |        |                |                                               |                     |                              |                        |                                      |                     |                       |
|                 |                               |        |                | [lbs (kg)]                                    |                     |                              | [inches (mm)]          |                                      |                     |                       |
|                 | 1/2"                          |        | 96806129       | 2.8 (1.3)                                     | 2.84 (72)           | 2.00 (51)                    | 4.19 (106)             | 3.45 (88)                            | 4.17 (106)          | 4.00 (102)            |
|                 | 3/4"                          |        | 96806130       | 6.9 (3.1)                                     | 3.05 (77)           | 2.25 (57)                    | 4.19 (106)             | 3.75 (95)                            | 4.17 (106)          | 4.00 (102)            |
|                 | 1"                            |        | 96806131       | 9.9 (4.5)                                     | 3.55 (90)           | 2.66 (67)                    | 4.19 (106)             | 4.53 (115)                           | 4.17 (106)          | 4.00 (102)            |
|                 | 1 1/4"                        |        | 96806132       | 10.6 (4.8)                                    | 4.03 (103)          | 2.97 (75)                    | 4.19 (106)             | 4.55 (116)                           | 4.17 (106)          | 4.00 (102)            |
|                 | 1 1/2"                        |        | 96806133       | 10.8 (4.9)                                    | 4.11 (181)          | 2.97 (75)                    | 4.19 (106)             | 4.63 (118)                           | 4.17 (106)          | 4.00 (102)            |
|                 |                               | 1/2"   | 96806134       | 2.9 (1.3)                                     | 2.77 (70)           | 2.00 (51)                    | 4.19 (106)             | 3.47 (88)                            | 4.17 (106)          | 4.00 (102)            |
|                 |                               | 3/4"   | 96806135       | 7.7 (3.3)                                     | 3.25 (83)           | 2.25 (57)                    | 4.19 (106)             | 3.73 (95)                            | 4.17 (106)          | 4.00 (102)            |
|                 |                               | 1"     | 96806136       | 9.9 (4.5)                                     | 3.86 (98)           | 2.66 (67)                    | 4.19 (106)             | 4.50 (114)                           | 4.17 (106)          | 4.00 (102)            |
| Bronze          |                               | 1 1/4" | 96806137       | 10.6 (4.8)                                    | 4.50 (114)          | 2.97 (75)                    | 4.19 (106)             | 4.55 (116)                           | 4.17 (106)          | 4.00 (102)            |
|                 |                               | 1 1/2" | 96806138       | 10.8 (4.9)                                    | 4.58 (116)          | 2.97 (75)                    | 4.19 (106)             | 4.56 (117)                           | 4.17 (106)          | 4.00 (102)            |

**Note:** Each set contains:

Two rotating flanges, lever-handled full-ported ball valve, EPDM gaskets, dielectric sleeves.

Qty. 4, 7/16" x 1 1/4" bolts with nuts.

Dimensions in inches unless otherwise stated.

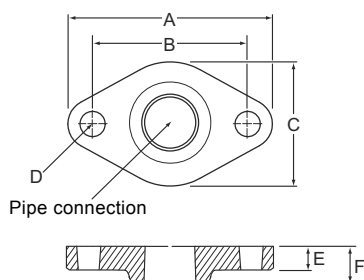
### Approvals



| Engineering materials |                     |
|-----------------------|---------------------|
| Flange                | Chrome-plated steel |
| Valve housing         | Brass               |
| Valve ball            | Chrome-plated brass |
| Valve seat            | PTFE                |
| Dielectric sleeve     | Composite           |
| Bolt                  | Chrome-plated steel |
| Nut                   | Chrome-plated steel |
| Gaskets               | EPDM                |
| Fluid data            |                     |
| Maximum temperature   | 230 °F (110 °C)     |
| Maximum pressure      | 150 psi (10 bar)    |

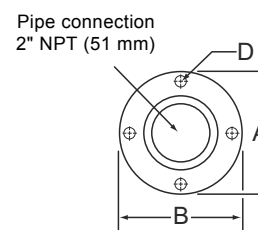
## Packaged fitting sets

GF 15/26/40/43



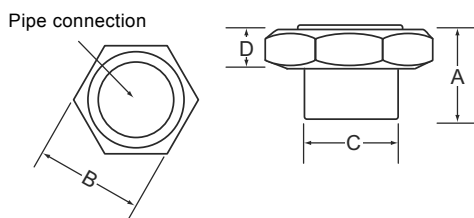
TM04 9808 0111

GF 50



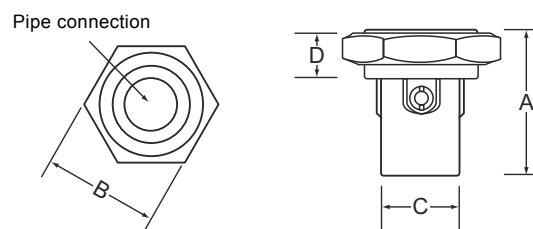
TM04 9810 0111

GU 125 union



TM04 9809 0111

Isolating valve GU 125 union



TM04 9811 0111

| Material                 | Pump connection | Pipe connection    |       |             | Product number | Dimensions (inches/mm) |            |           |           |           |           |
|--------------------------|-----------------|--------------------|-------|-------------|----------------|------------------------|------------|-----------|-----------|-----------|-----------|
|                          |                 | NPT                | Sweat | Compression |                | A                      | B          | C         | D         | E         | F         |
| Cast iron                | GF 15/26        | 3/4"               |       |             | 519601         | 4.25 (108)             | 3.13 (80)  | 2.75 (67) | 0.50 (13) | 0.50 (13) | 0.75 (20) |
|                          |                 | 1"                 |       |             | 519602         |                        |            |           |           |           |           |
|                          |                 | 1 1/4"             |       |             | 519603         |                        |            |           |           |           |           |
|                          |                 | 1 1/2"             |       |             | 519604         |                        |            |           |           |           |           |
|                          | GF 40/43        | 1 1/2"             |       |             | 539605         | 4.75 (121)             | 3.50 (89)  | 3.00 (76) | 0.50 (13) | 0.50 (13) | 0.75 (20) |
|                          | GF 50           | 2" (4-bolt flange) |       |             | 96409354       | 5.25 (133)             | 4.00 (102) | -         | 0.50 (13) | 0.50 (13) | 0.75 (20) |
| Bronze                   | GF 15/26        | 3/4"               |       |             | 519651         | 4.25 (108)             | 3.13 (80)  | 2.75 (67) | 0.50 (13) | 0.50 (13) | 0.75 (20) |
|                          |                 | 1"                 |       |             | 519652         |                        |            |           |           |           |           |
|                          |                 | 1 1/4"             |       |             | 96409356       |                        |            |           |           |           |           |
|                          | GF 40/43        | 1 1/2"             |       |             | 539615         | 4.75 (121)             | 3.50 (89)  | 3.00 (76) | 0.50 (13) | 0.50 (13) | 0.75 (20) |
|                          | GF 50           | 2" (4-bolt flange) |       |             | 96409355       | 5.25 (133)             | 4.00 (102) | -         | 0.50 (13) | 0.50 (13) | 0.75 (20) |
|                          | GU 125 union    | 3/4"               |       |             | 529912         | 1.00 (25)              | 1.88 (46)  | 1.25 (31) | 0.63 (16) | -         | -         |
|                          |                 | 1/2"               |       | 529913      | 0.75 (20)      | 1.88 (46)              | 0.75 (20)  | 0.63 (16) | -         | -         |           |
|                          |                 | 3/4"               |       | 529911      | 0.75 (20)      | 1.88 (46)              | 1.00 (25)  | 0.63 (16) | -         | -         |           |
| Isolating valves, bronze | GU 125 union    | 1/2"               |       |             | 519850         | 2.25 (57)              | 1.88 (46)  | 1.00 (25) | 0.63 (16) | -         | -         |
|                          |                 | 3/4"               |       |             | 519852         | 2.25 (57)              | 1.88 (46)  | 1.25 (31) | 0.63 (16) | -         | -         |
|                          |                 |                    |       | 3/4"        | 519851         | 2.00 (51)              | 1.88 (46)  | 1.25 (31) | 0.63 (16) | -         | -         |

### Notes:

GF 15/26/40/43 Flange sets to include two flanges, two gaskets, and four nuts and bolts.

GF 50 Flange sets to include two flanges, two gaskets, and eight nuts and bolts.

GU 125 union Union set to include two nuts, gaskets, and adapters.

Dimensions are in inches unless otherwise stated.

## Approvals (bronze sets)



## UP-ZV zone valves

### Specifications

Grundfos UP-ZV 24 V, 2-way motorized zone valves for hydronic heating or chilled water applications.

#### Standard features:

- In-line removable actuator for ease of installation and service
- manual open/close lever
- sealed end switch
- silent close-off technology
- high gear ratio
- forged brass housing
- removable service cap
- high Cv rating.

### Approvals



TM04 9803 0111

### Technical data

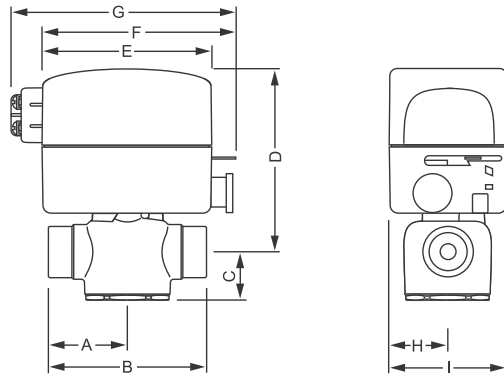
|                                      |                                 |
|--------------------------------------|---------------------------------|
| Max. percent glycol:                 | 50 %                            |
| Fluid temperature range:             | 32-240 °F (0-115 °C)            |
| Ambient temperature range:           | 32-104 °F (0-40 °C)             |
| Max. humidity:                       | 95 % non-condensing             |
| Max. static pressure:                | 15 psi (1 bar) steam            |
|                                      | 300 psi (20 bar)                |
| Stroke time                          | Open: approx. 45 sec.           |
|                                      | Closed: approx. 10 sec.         |
| <b>Actuator motor</b>                |                                 |
| Actuator motor:                      | Synchronous hysteresis          |
| Class:                               | Class A                         |
| Voltage:                             | 24 VAC + 10 %/- 10 %, Class 2   |
|                                      | 5 watts                         |
|                                      | 7 VA                            |
| Run amps:                            | 300 mA                          |
| In-rush:                             | 300 mA                          |
| <b>End (auxiliary) switch models</b> |                                 |
| Type:                                | Sealed                          |
| De-energized position:               | Normally closed                 |
| Rating:                              | 0.4 A (400 mA) @ 24 VAC (AC/DC) |
|                                      | Class 2                         |
| Isolated:                            | Yes                             |

| <b>Valves</b>                |                         |
|------------------------------|-------------------------|
| Valve operation:             | With power: opened      |
|                              | Without power: closed   |
|                              | Manually opened: opened |
| <b>Engineering materials</b> |                         |
| Valve housing:               | Brass                   |
| Seat:                        | Brass                   |
| Stem:                        | Stainless steel         |
| Paddle:                      | EPDM                    |
| O-rings:                     | EPDM                    |

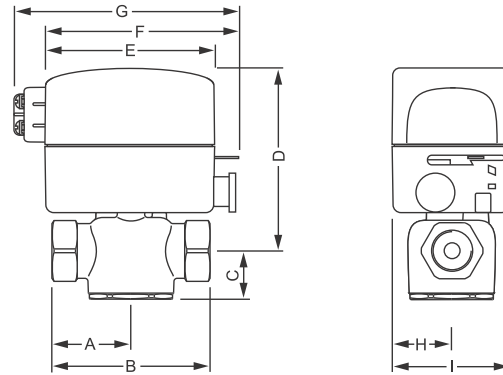
## UP-ZV flow characteristics

| Connection size | Flow coefficient | Max. close-off $\Delta P$ |
|-----------------|------------------|---------------------------|
| 1/2" sweat      | 3.5 Cv (3.0 Kv)  | 30 psi (2 bar)            |
| 3/4" sweat      | 7.5 Cv (6.5 Kv)  | 20 psi (1.4 bar)          |
| 1" sweat        | 7.5 Cv (6.5 Kv)  | 20 psi (1.4 bar)          |
| 3/4" NPT        | 3.5 Cv (3.0 Kv)  | 30 psi (2 bar)            |

SWEAT MODELS



NPT MODELS



TM04 9804 0111

| Connections | Dimensions [inches (mm)] |           |           |            |           |            |            |           |           |
|-------------|--------------------------|-----------|-----------|------------|-----------|------------|------------|-----------|-----------|
|             | A                        | B         | C         | D          | E         | F          | G          | H         | I         |
| 1/2" sweat  | 1.31 (33)                |           |           | 4.00 (102) |           |            |            |           |           |
| 3/4" sweat  | 1.38 (35)                | 2.63 (67) | 0.94 (24) |            | 3.44 (87) | 4.00 (102) | 4.53 (115) | 1.19 (30) | 2.38 (60) |
| 1" sweat    | 1.69 (43)                |           |           | 4.19 (106) |           |            |            |           |           |
| 3/4" NPT    | 1.81 (46)                |           |           |            |           |            |            |           |           |

**Note:** Dimensions for actuators with or without auxiliary switch.

| Product number | Description                                                                 |
|----------------|-----------------------------------------------------------------------------|
| 97627415       | 1/2" sweat, 2-way valve housing, normally closed, <b>with</b> end switch    |
| 97627416       | 1/2" sweat, 2-way valve housing, normally closed, <b>without</b> end switch |
| 97627419       | 3/4" sweat, 2-way valve housing, normally closed, <b>with</b> end switch    |
| 97627420       | 3/4" sweat, 2-way valve housing, normally closed, <b>without</b> end switch |
| 97627421       | 1" sweat, 2-way valve housing, normally closed, <b>with</b> end switch      |
| 97627422       | 1" sweat, 2-way valve housing, normally closed, <b>without</b> end switch   |
| 97627417       | 3/4" NPT, 2-way valve housing, normally closed, <b>with</b> end switch      |
| 97627418       | 3/4" NPT, 2-way valve housing, normally closed, <b>without</b> end switch   |

## Service

| Product number | Description                                                |
|----------------|------------------------------------------------------------|
| 97627423       | Actuator 24 VAC, normally closed <b>with</b> end switch    |
| 97627424       | Actuator 24 VAC, normally closed <b>without</b> end switch |

## Replacement flange gaskets

| For use with flange set | Product number | Description                     | Approx. shipping weight [lbs (kg)] |
|-------------------------|----------------|---------------------------------|------------------------------------|
| GF 15/26                | 510179         | Single gasket for 1 1/4" flange | 0.6 (0.25)                         |
| GF 40/43                | 530244         | Single gasket for 1 1/2" flange | 0.6 (0.25)                         |
| GF 50                   | 96409353       | Single gasket for 2" flange     | 0.6 (0.25)                         |
| GF 65                   | 550097         | Single gasket for 2 1/2" flange | 0.6 (0.25)                         |
| GF 80                   | 560185         | Single gasket for 3" flange     | 0.6 (0.25)                         |
| GF 100                  | 570008         | Single gasket for 4" flange     | 0.6 (0.25)                         |
| GU 125                  | 520089         | Single gasket for GU 125 union  | 0.6 (0.25)                         |

## 8. Grundfos Product Center

Online search and sizing tool to help you make the right choice.

<http://product-selection.grundfos.com>



"SIZING" enables you to size a pump based on entered data and selection choices.

"REPLACEMENT" enables you to find a replacement product. Search results will include information on

- the lowest purchase price
- the lowest energy consumption
- the lowest total life cycle cost.

The screenshot shows the Grundfos Product Center website. The header includes the Grundfos logo, 'PRODUCT CENTER', and navigation links: HOME, FIND PRODUCT, COMPARE, YOUR PROJECTS, SAVED ITEMS, TOOLS, HELP. It also shows 'Product range: USA | 60 Hz | Language: English (USA)' and a 'Change settings' link. The main section is titled 'Find products and solutions' and features a search bar with a dropdown menu for 'Products', 'Pumps', and 'Literature'. Below the search bar are four main tabs: 'Sizing' (Enter pump sizing), 'Catalog' (Product and services), 'Replacement' (Replace an old pump with a new), and 'Liquids' (Find liquid pump). The 'Sizing' tab is active, showing a 'Quick sizing' section with 'Enter duty point' fields for Flow (Q) and Head (H), and a 'Guided selection' section with radio buttons for 'Size by application', 'Size by pump design', and 'Size by pump family'. A 'START SIZING' button is visible at the bottom right of the sizing section.

"CATALOG" gives you access to the Grundfos product catalog.

"LIQUIDS" enables you to find pumps designed for aggressive, flammable or other special liquids.

### All the information you need in one place

Performance curves, technical specifications, pictures, dimensional drawings, motor curves, wiring diagrams, spare parts, service kits, 3D drawings, documents, system parts. The Product Center displays any recent and saved items — including complete projects — right on the main page.

### Downloads

On the product pages, you can download Installation and Operating Instructions, Data Booklets, Service Instructions, etc. in PDF format.



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| ECM: 1265481 |
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