

# 850 SERIES – Model 8X6-14T



## Model 8X6-14T – Frame-Mounted Configuration

### PERFORMANCE

**850FM/8X6-14T/4P**

**Max. Flow Rate:** 1,978 gpm

**Max. Head:** 201 ft.

**Max. Working Temperature:** 250° F

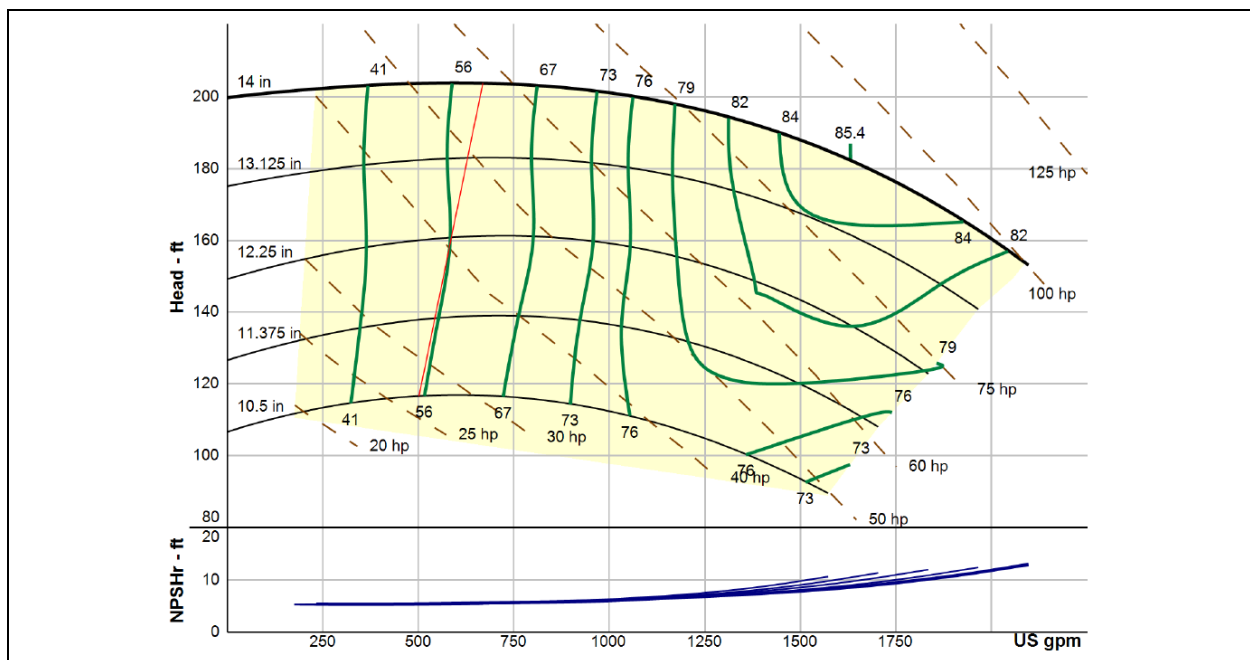
**Max. Working Pressure:** 175 psi

**Max. Rated Speed:** 1800 RPM

**Max. Particle Size:** 1.0" Diameter

**Hydrotest Pressure:** 263 psi

### PERFORMANCE CURVE – 850FM/8X6-14T/4P, 1750 RPM



**850 Series Model: 850FM/8X6-14T/4P**

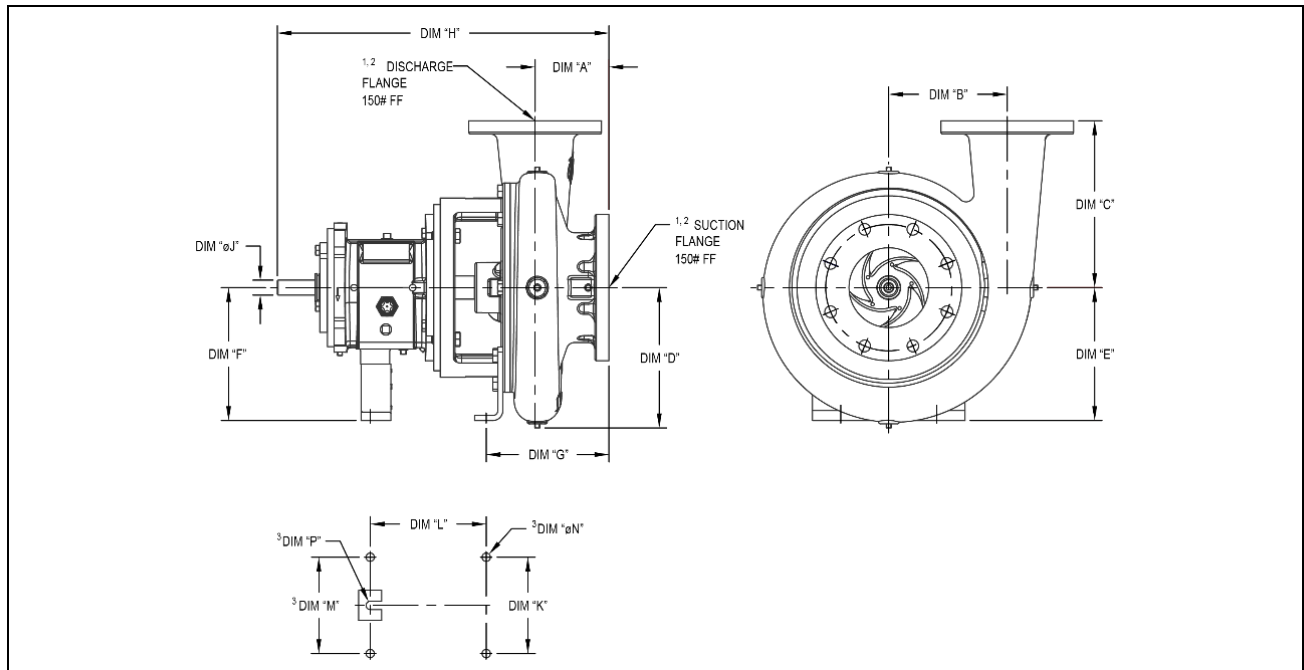
**PEI<sub>CL</sub> 0.95**

**Impeller Diameter: 14.000 in.**

# 850 SERIES – Model 8X6-14T



## DIMENSIONS (INCHES)



| Motor Frame | Suction | Discharge | DIM "A" | DIM "B" | DIM "C" | DIM "D" | DIM "E" | DIM "F" | DIM "G" | DIM "H" | Dim "J" | DIM "K" | DIM "L" | DIM "M" | Dim "N" | DIM "P" |
|-------------|---------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| PFM         | 8.00    | 6.00      | 8.00    | 10.00   | 14.25   | 12.37   | 10.00   | 10.00   | 12.31   | 27.82   | 1.13    | 7.25    | 8.51    | 7.25    | 0.63    | N/A     |
| PFL         | 8.00    | 6.00      | 8.00    | 10.00   | 14.25   | 12.37   | 10.00   | 10.00   | 12.31   | 27.82   | 1.88    | 7.25    | 8.51    | 7.25    | 0.63    | N/A     |

<sup>1</sup>150# Flange is dimensionally identical to a 125# Flange

<sup>2</sup>Bolt holes straddle pump centerlines

<sup>3</sup>Mounting bolt hold patterns vary with power frames used.

Pumps fitted with small power frames use 3 holes, while pumps fitted with medium or large power frames use 4 holes.

LG1848 REV. A

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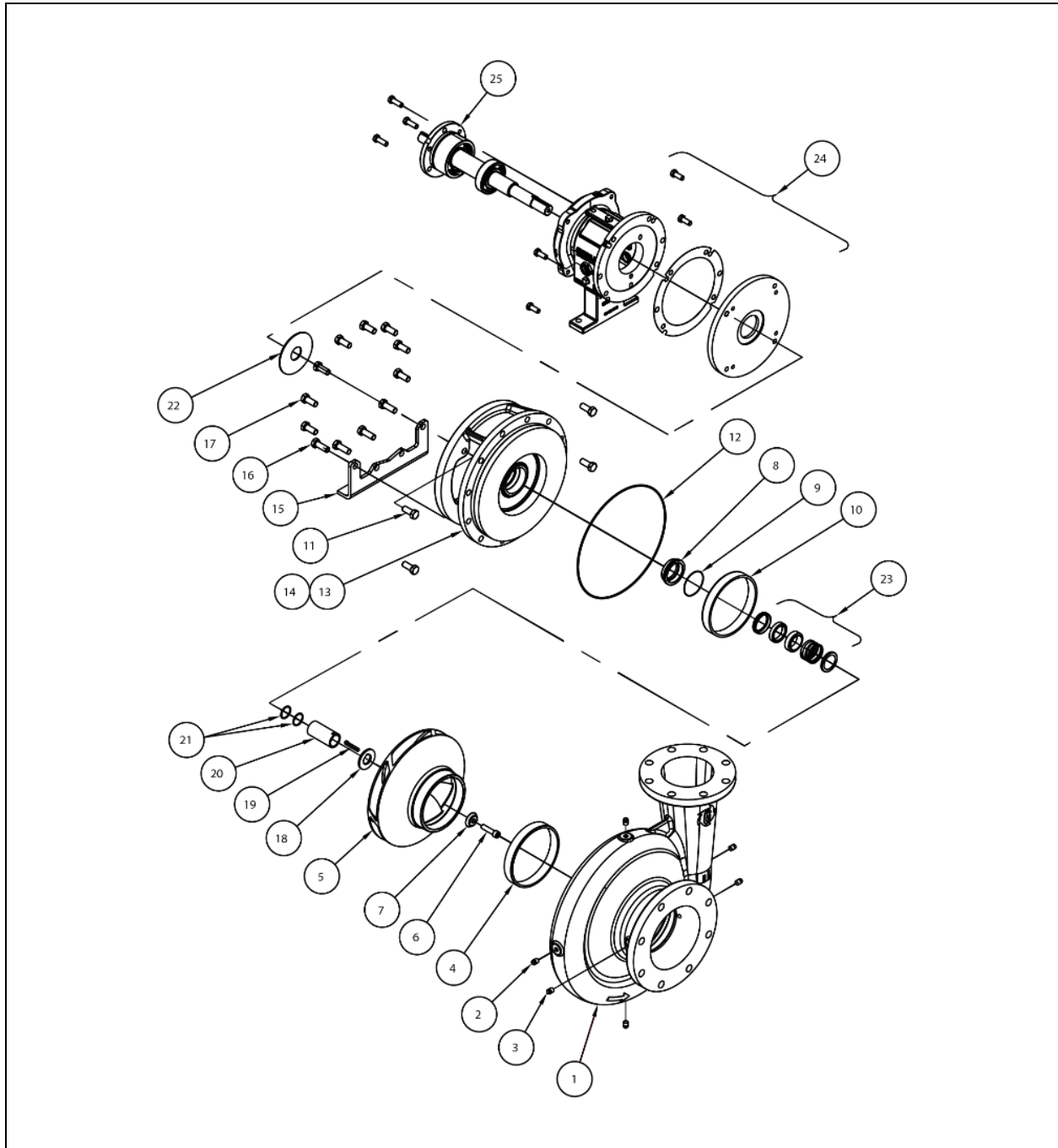
PEI<sub>CL</sub> 0.95

Impeller Diameter: 14.000 in.

# 850 SERIES – Model 8X6-14T



## EXPLODED VIEW



LG1819 REV. A

850 Series Model: 850FM/8X6-14T/4P

PEI<sub>CL</sub> 0.95

Impeller Diameter: 14.000 in.

# 850 SERIES – Model 8X6-14T



## PARTS LISTING

| Compatible Frame Family  |                                                     |      | PFM<br>(POWER FRAME MEDIUM)      | PFL<br>(POWER FRAME LARGE) | Material of<br>Construction    |
|--------------------------|-----------------------------------------------------|------|----------------------------------|----------------------------|--------------------------------|
| Item                     | Description                                         | Qty. | P/N                              | P/N                        |                                |
| <b>Case Kit</b>          |                                                     |      |                                  |                            |                                |
| 1                        | Case Kit <sup>1,3</sup>                             | 1    | 3550000K                         |                            | Ductile Iron, ASTM A395        |
| 2                        | Pipe Plugs<br>1/4" MNPT                             | 6    | 31005911                         |                            | Steel                          |
| 3                        | Pipe Plugs<br>1/2" MNPT                             |      |                                  |                            |                                |
| 4                        | Case Wear Ring                                      | 1    | 8055100                          |                            | Bismuth Tin Bronze (Lead Free) |
| <b>Impeller Kit</b>      |                                                     |      |                                  |                            |                                |
| 5                        | Impeller, Only <sup>4</sup>                         | 1    | 5555400                          | 5555600                    | Aluminum Bronze, ASTM B148     |
|                          | Impeller, Kit <sup>4,5</sup>                        | 1    | 5555400K                         | 5555600K                   | Aluminum Bronze, ASTM B148     |
| <b>Back Pull Out Kit</b> |                                                     |      |                                  |                            |                                |
| 6                        | Impeller Bolt<br>SHCS, 1/2-13 x 2.00 Lg             | 1    | ALLEN50013X200U                  |                            | Steel                          |
| 7                        | Impeller Washer                                     | 1    | 14417604                         | 14417610                   | 300 Series Stainless Steel     |
| 8                        | Seal Adapter Kit <sup>7</sup>                       | 1    | 7102002K                         |                            | 300 Series Stainless Steel     |
| 9                        | Seal Adapter O-Ring<br>-041 Buna                    | 1    | 041B                             |                            | Buna-N                         |
| 10                       | Bracket Wear Ring                                   | 1    | 8055100                          |                            | Aluminum Bronze, ASTM B148     |
| 11                       | Bracket/Power Frame Bolts<br>HHCS, 5/8-11 x 1.50 Lg | 4    | 14135008                         |                            | Steel – Grade 5                |
| 12                       | Case/Bracket O-Ring<br>-280 Buna                    | 1    | 280B                             |                            | Buna-N                         |
| 13                       | Bracket <sup>2,3</sup>                              | 1    | 2997800K                         |                            | Ductile Iron, ASTM A395        |
| 14                       | Bracket Plug<br>1/2" MNPT (Not Shown)               |      |                                  |                            |                                |
| 15                       | Foot, Bracket                                       | 1    | 2049620                          |                            | Steel                          |
| 16                       | Case/Bracket Bolts<br>HHCS, 5/8-11 x 1.75 Lg        | 4    | 3861-72                          |                            | Steel – Grade 5                |
| 17                       | Case/Bracket Bolts<br>HHCS, 5/8-11 x 1.50 Lg        | 8    | 14135008                         |                            | Steel – Grade 5                |
| 18                       | Impeller Spacer                                     | 1    | 14034607                         | 14040307                   | 300 Series Stainless Steel     |
| 19                       | Impeller Key                                        | 1    | 22056006                         | 14060800                   | Steel                          |
| 20                       | Sleeve, Kit <sup>6</sup>                            | 1    | 8243600K                         | 8263600K                   | Bismuth Tin Bronze (Lead Free) |
| 21                       | Sleeve O-Ring<br>-126 Buna                          | 2    | 47012604                         |                            | Buna-N                         |
|                          | Sleeve O-Ring<br>-132 Buna                          | 1    |                                  | 47013206                   | Buna-N                         |
| 22                       | Deflector                                           | 1    | 22020507                         | 22032205                   | Neoprene                       |
| 23                       | Mechanical Seal                                     | 1    | See mechanical seal list for P/N |                            |                                |
| 24                       | Power Frame                                         | 1    | PFMB-850-K                       | PFLB-850-K                 |                                |
| 25                       | Assembly, Rotating                                  | 1    | 24001-04-41A-RO                  | 24002-04-41A-RO            |                                |

LG1857 REV. B

<sup>1</sup>Case Kit includes item 2, 3, 4, 12, and 17

<sup>2</sup>Bracket Kit includes item 11, 14 and 22

<sup>3</sup>Part is available with epoxy coating of interior or interior + exterior. Specified part number is for uncoated part, contact factory for part numbers.

<sup>4</sup>Part is available with epoxy coating. Append 'PC' to the indicated part number when referring to the coated part

<sup>5</sup>Impeller Kit includes item 6, 7, 10, 18 and 19

<sup>6</sup>Sleeve Kit includes item 21

<sup>7</sup>Seal Adapter Kit includes item 9

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**Impeller Diameter: 14.000 in.**

GRS-17210-T-01

PAGE 4 OF 4



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