

850 SERIES – Model 3X2-8M



Model 3X2-8M – Frame-Mounted Configuration

PERFORMANCE

850FM/3X2-8M/2P

Max. Flow Rate: 230 gpm

Max. Head: 219 ft.

Max. Working Temperature: 120° F

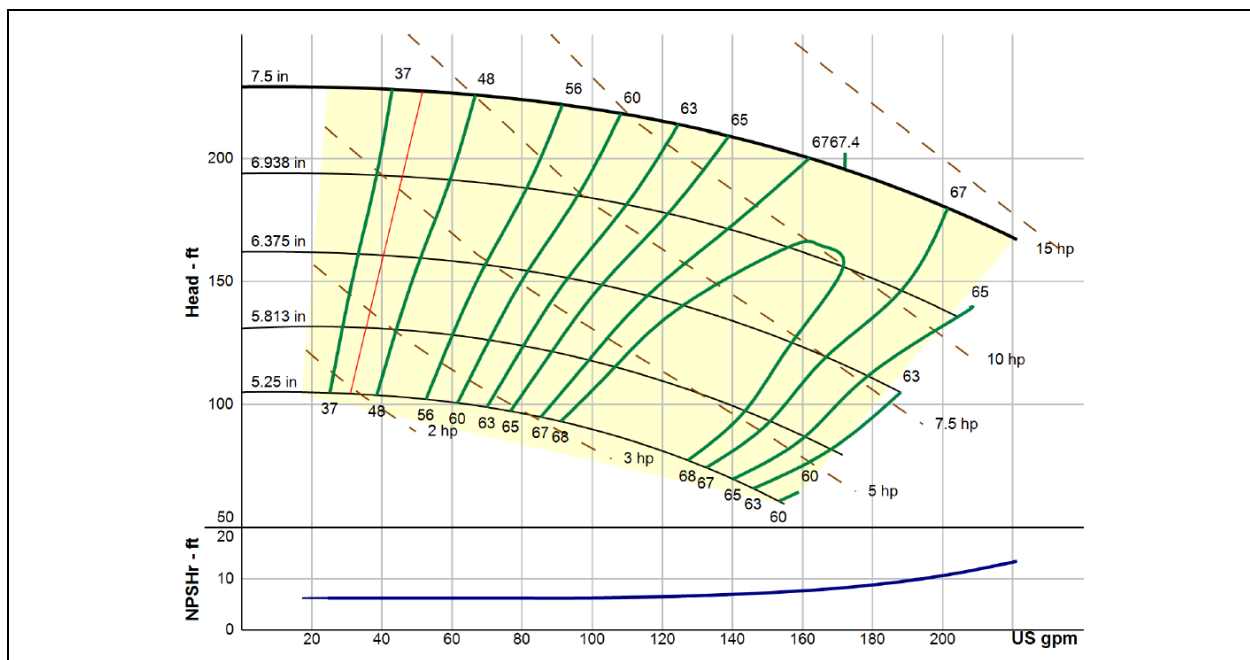
Max. Working Pressure: 175 psi

Max. Rated Speed: 3600 RPM

Max. Particle Size: 0.4" Diameter

Hydrotest Pressure: 263 psi

PERFORMANCE CURVE – 850FM/3X2-8M/2P, 3600 RPM



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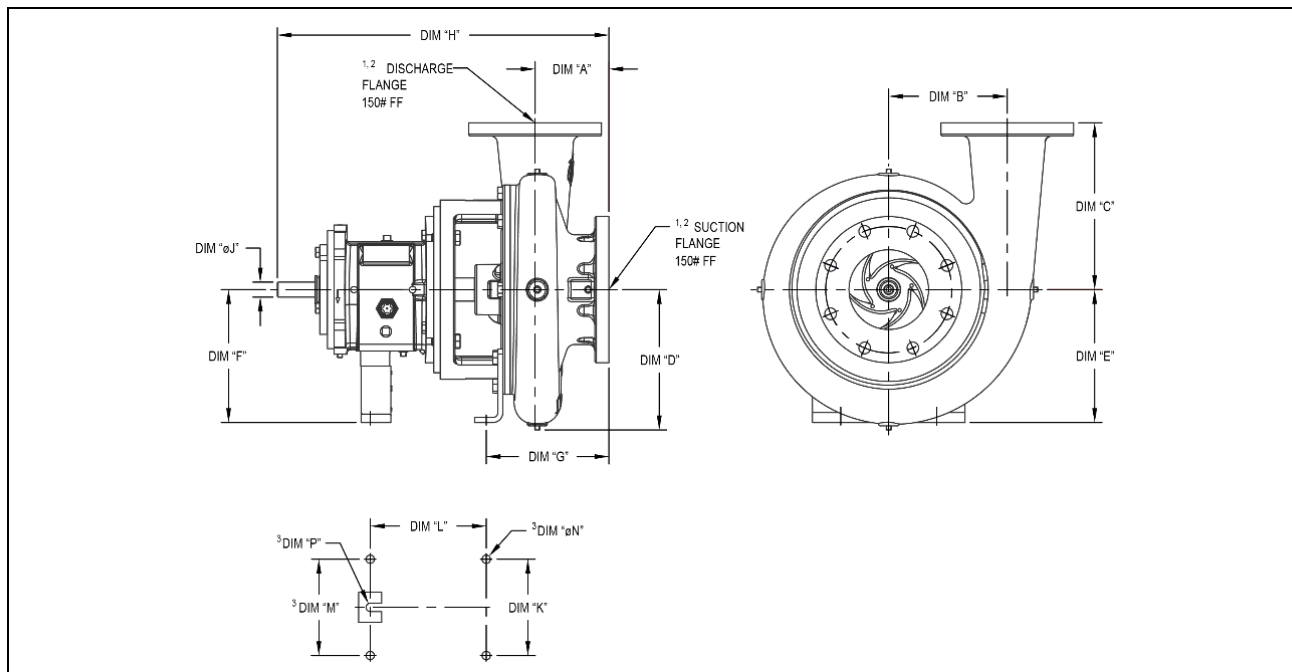
PEI_{CL} 0.92

Impeller Diameter: 7.500 in.

850 SERIES – Model 3X2-8M



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"
PFS	3.00	2.00	3.38	4.81	6.06	6.12	6.99	5.25	5.88	15.84	0.88	6.19	3.71	N/A	0.44	R.313

¹150# Flange is dimensionally identical to a 125# Flange

²Bolt holes straddle pump centerlines

³Mounting 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.

LG1842 REV. A

850 Series Model: 850FM/3X2-8M/2P

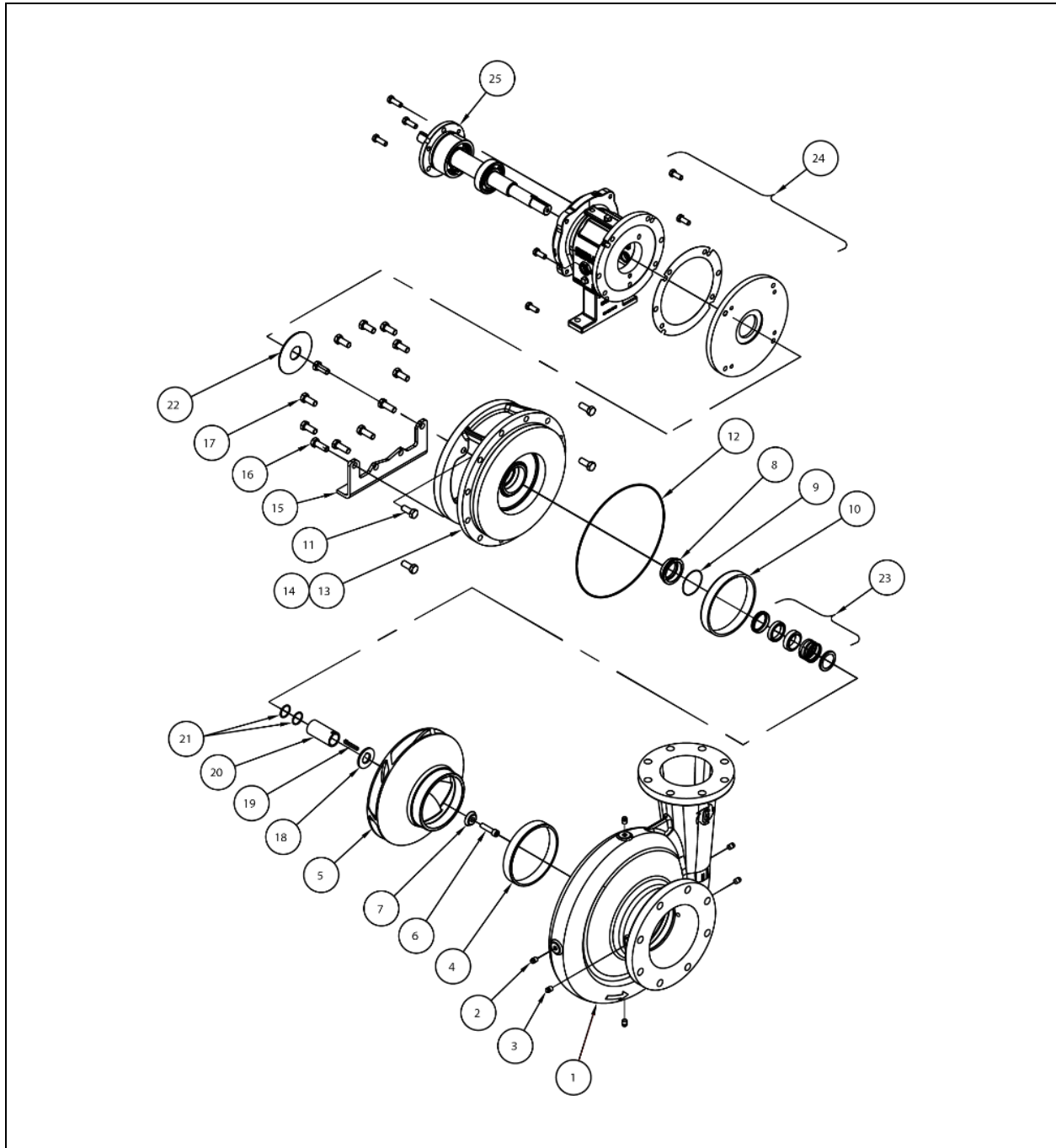
PEI_{CL} 0.92

Impeller Diameter: 7.500 in.

850 SERIES – Model 3X2-8M



EXPLODED VIEW



LG1819 REV. A

850 Series Model: 850FM/3X2-8M/2P

PEI_{CL} 0.92

Impeller Diameter: 7.500 in.

850 SERIES – Model 3X2-8M



PARTS LISTING

Compatible Frame Family			PFS (POWER FRAME SMALL)	Material of Construction
Item	Description	Qty.	P/N	
Case Kit				
1	Case Kit ^{1,3}	1	3079100K	Cast Iron, ASTM A48 Class 30
2	Pipe Plugs 1/4" MNPT	5	31005911	Steel
3	Pipe Plugs 1/2" MNPT			
4	Case Wear Ring	1	8015100	Bismuth Tin Bronze (Lead Free)
Impeller Kit				
5	Impeller, Only ⁴	1	5150200	Aluminum Bronze, ASTM B148
	Impeller, Kit ^{4,5}	1	5150200K	Aluminum Bronze, ASTM B148
Back Pull Out Kit				
6	Impeller Bolt SHCS, 3/8-16 x 1.25 Lg	1	ALLEN37516X125U	Steel
7	Impeller Washer	1	14412209	300 Series Stainless Steel
8	Seal Adapter Kit ⁷			
9	Seal Adapter O-Ring			
10	Bracket Wear Ring			
11	Bracket/Power Frame Bolts HHCS, 3/8-16 x .75 Lg	4	S01C375750WA2A2	Steel – Grade 5
12	Case/Bracket O-Ring -171 Buna	1	47017108	Buna-N
13	Bracket ^{2,3}	1	24341EFGK	Cast Iron, ASTM A48 Class 30
14	Bracket Plug 1/2" MNPT			
15	Foot, Bracket	1	2049616	Steel
16	Case/Bracket Bolts HHCS, 3/8-16 x 1.00 Lg	3	14129423	Steel – Grade 5
17	Case/Bracket Bolts HHCS, 3/8-16 x .75 Lg	5	S01C375750WA2A2	Steel – Grade 5
18	Impeller Spacer			
19	Impeller Key	1	14412407	Steel
20	Sleeve, Kit ⁶	1	8222400K	Bismuth Tin Bronze (Lead Free)
21	Sleeve O-Ring -022 Buna	1	47002209	Buna-N
22	Deflector	1	22020408	Neoprene
23	Mechanical Seal	1	See mechanical seal list for P/N	
24	Assembly, Power Frame	1	PFS-850-K	
25	Assembly, Rotating	1	24000-04-41A-RO	

LG1851 REV. B

¹Case Kit includes item 2, 3, 4, 12, and 17

²Bracket Kit includes item 11, 14 and 22

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

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

⁵Impeller Kit includes item 6, 7, 10, 18 and 19

⁶Sleeve Kit includes item 21

⁷Seal Adapter Kit includes item 9

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