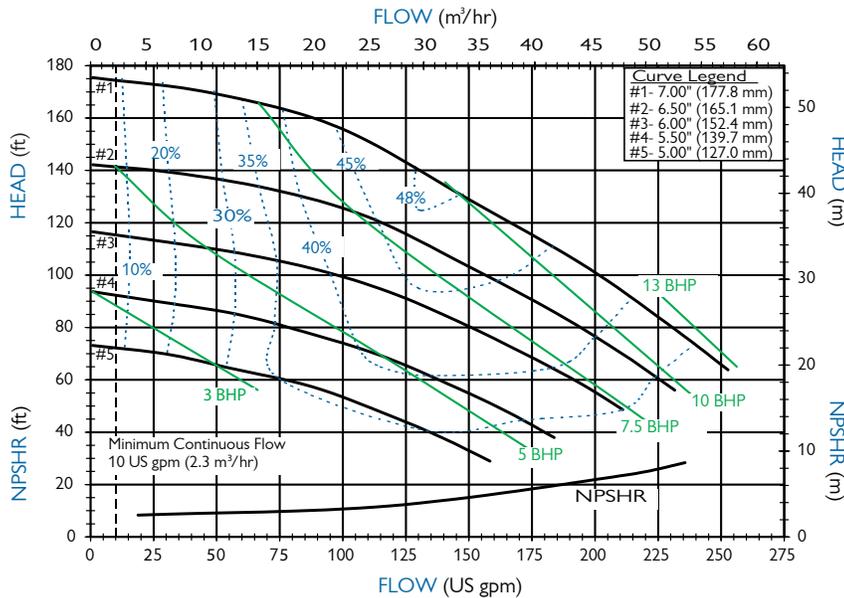




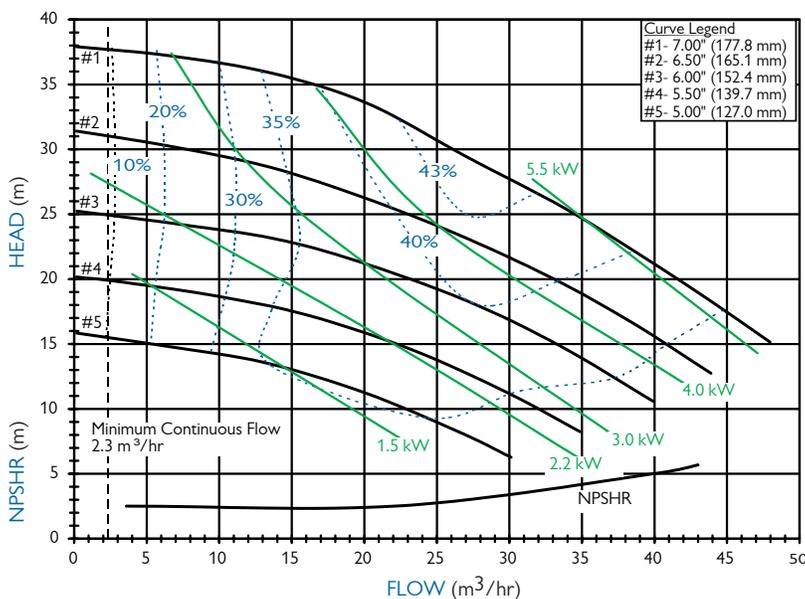
# SP SERIES MODEL SP22



## SP22 PERFORMANCE Flooded Suction 3450 RPM \*



## SP22 PERFORMANCE Flooded Suction 2900 RPM \*



Notes: Performance curves above are based on flooded suction.

\*Performance will vary with suction lift conditions. For performance at various suction lifts, see curve book on FTI web site ([www.finishthompson.com](http://www.finishthompson.com)) or contact factory.

Maximum power @ 3450 RPM is 13 hp (9.7 kW). [Consult factory for applications above 10 hp (7.5 kW)]. At 2900 RPM, maximum power is 7.5 kW (10 hp).

**Warning! SP Series not recommended for pumping flammables!**

## FEATURES & CAPABILITIES

- + Self-priming, magnetic drive
- + Five-year warranty
- + Provides up to 25 ft. (7.6 m) lift or equivalent
- + Primes 15 ft. (4.57 m) in 90 seconds with maximum diameter impeller at 60 Hz with 3" pipe
- + Retains fluid for re-priming when shut off without a check valve
- + Extended run dry ability (with carbon bushing)
- + High operating efficiency
- + Polypropylene or PVDF construction
- + Powerful neodymium magnets
- + Close-coupled design
- + Threaded (NPT or BSP), union or flange connections
- + Impeller trims available every 1/8" (.32 cm) between smallest and largest diameter
- + Back pullout design
- + Mounts to NEMA and IEC (B5 & B14) motor frames
- + Easy set measurement free drive
- + ISO 1940 G2.5 balancing
- + CE certified
- + High working pressure up to 90 psi (6.2 bar)
- + Specific gravity up to 1.8
- + Polypropylene—180° F (82° C)
- + PVDF—220° F (104° C)

## APPLICATIONS

- + Rail cars & tanker trucks
- + Tanks with an opening on top
- + Sumps and reservoirs
- + Below grade storage tanks
- + Over-the-wall applications
- + When run-dry protection is needed
- + and many more!

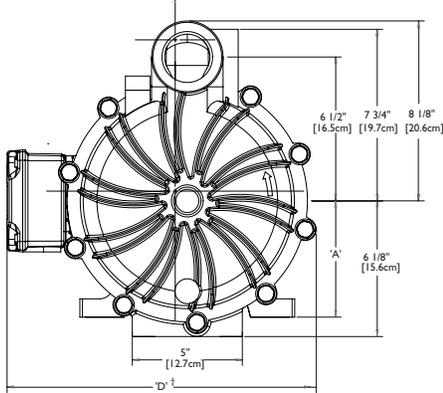
# SP SERIES

## Specifications

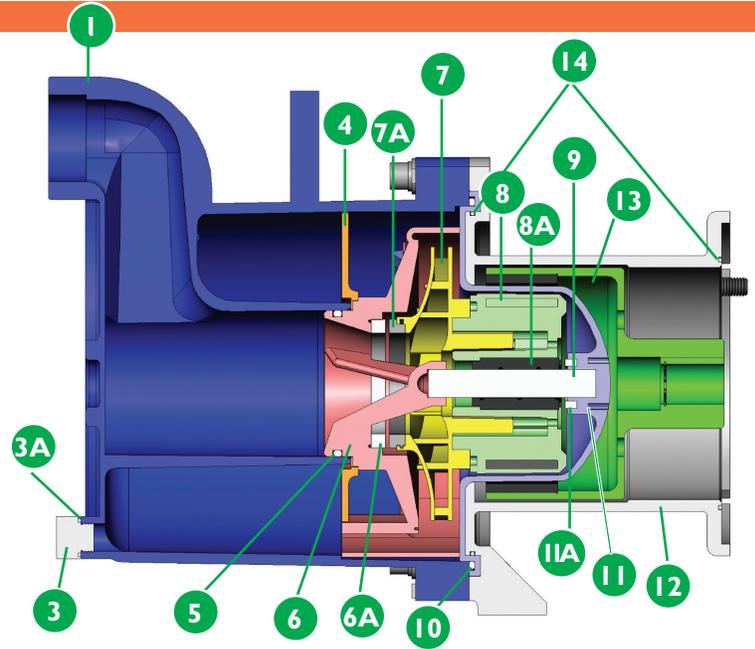
| Description                       | Polypropylene   | PVDF   |
|-----------------------------------|---|--|
| 1 Housing                         | Glass-fiber reinforced polypropylene (GF PP)                        | Carbon-fiber reinforced PVDF (CF PVDF)                     |
| 4 Separator plate                 |   |  |
| 6 Inner volute                    |   |  |
| 7 Impeller                        |   |  |
| 3A, 5, 10 O-ring options          | FKM, EPDM   |  |
| 3 Fill and drain plugs*           | Polypropylene   | PVDF   |
| 6A Inner volute thrust ring       | High purity alumina ceramic, or silicon carbide (SiC)               |  |
| 7A Impeller thrust ring           | GF molybdenum disulfide filled PTFE or SiC                          |  |
| 8 Inner drive                     | Neodymium iron boron magnets encapsulated in unfilled polypropylene | Neodymium iron boron magnets encapsulated in unfilled PVDF |
| 8A Bushing                        | Carbon, PTFE, high purity alumina ceramic, or SiC                   |  |
| 9 Shaft                           | High purity alumina ceramic, Hastelloy® C, or SiC                   |  |
| 11 Barrier                        | GF PP   | CF PVDF  |
| 11A Barrier thrust ring           | High purity alumina ceramic   |  |
| 12 Motor adapter                  | Ductile iron  |  |
| 13 Outer drive magnets            | Nickel-plated neodymium iron boron magnets/steel                    |  |
| 14 NEMA motor adapter sealing kit | Buna N, FKM, or EPDM  |  |

\*Fill plug not shown

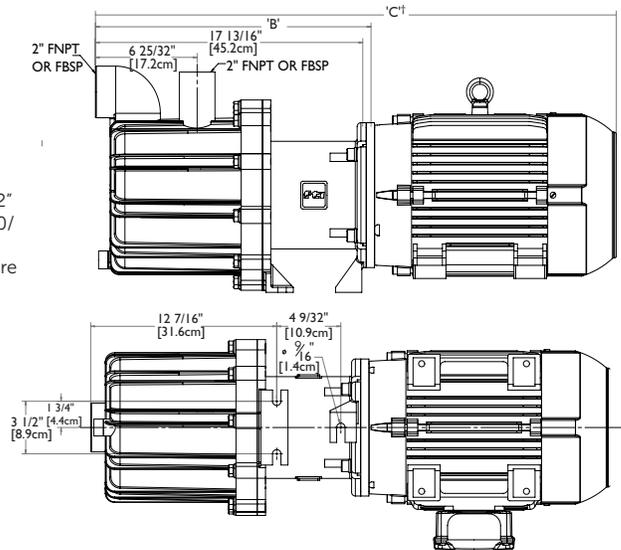
## Dimensions



Also available 2" x 2" or 3" x 2" 150 lb. ANSI/ISO PN20/PN40/ JIS 10K or 63mm x 63mm union connection. Flanges are in compliance with bolting dimensions only.



Hastelloy® C is a registered trademark of Haynes International, Inc.



| Motor Frame          | A                  | B                   | C <sup>†</sup>      | D <sup>†</sup>      | lbs. [kg] PP | lbs. [kg] PVDF |
|----------------------|--------------------|---------------------|---------------------|---------------------|--------------|----------------|
| NEMA 145TC           | 3-1/2" [8.8 cm]    | 18-11/16" [32.2 cm] | 29-29/32" [76.0 cm] | 11-11/16" [29.7 cm] | 54 [24.5]    | 45 [20.0]      |
| NEMA 184TC           | 4-1/2" [11.4 cm]   | 17-13/16" [45.2 cm] | 31-1/16" [78.9 cm]  | 12-15/32" [31.7 cm] | 46 [20.9]    | 52 [23.6]      |
| NEMA 213/215TC       | 5-1/4" [13.3 cm]   | 18-11/32" [46.6 cm] | 34-11/16" [88.1 cm] | 14-1/32" [35.7 cm]  | 51 [23.1]    | 57 [25.9]      |
| IEC 90 w/B14 or B5   | 3-17/32" [9.0 cm]  | 18-11/16" [47.5 cm] | 29-11/16" [75.4 cm] | 11-11/16" [29.7 cm] | 54 [29.7]    | 60 [27.2]      |
| IEC 100 w/B14 or B5  | 3-15/16" [10.0 cm] | 18-11/16" [47.5 cm] | 31-1/8" [79.1 cm]   | 12-1/8" [30.8 cm]   | 54 [24.5]    | 60 [27.2]      |
| IEC 112 w/B14 or B5  | 4-13/32" [11.2 cm] | 18-11/16" [47.5 cm] | 31-7/8" [81.0 cm]   | 12-1/8" [30.8 cm]   | 54 [24.5]    | 60 [27.2]      |
| IEC 132 w/ B14 or B5 | 5-3/16" [13.0 cm]  | 18-3/4" [47.6 cm]   | 34-27/32" [88.5 cm] | 14-3/16" [36.0 cm]  | 57 [25.9]    | 63 [28.6]      |

Dimensions and weights are for reference only. Weights listed are for pump only; motor not included.

<sup>†</sup>Varies with motor manufacturer.



**FINISH THOMPSON INC. - UNITED STATES**  
 921 Greengarden Road | Erie, PA 16501  
 800.934.9384 | ph 814.455.4478 | fx 814.455.8518  
 email fti@finishthompson.com

**FINISH THOMPSON INC. - GERMANY**  
 Otto-Hahn-Strasse 16 | Maintal, D-63477 Germany  
 49 (0)6181-90878-0 | fx 49 (0)6181-90878-18  
 email fti@finishthompson.com



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