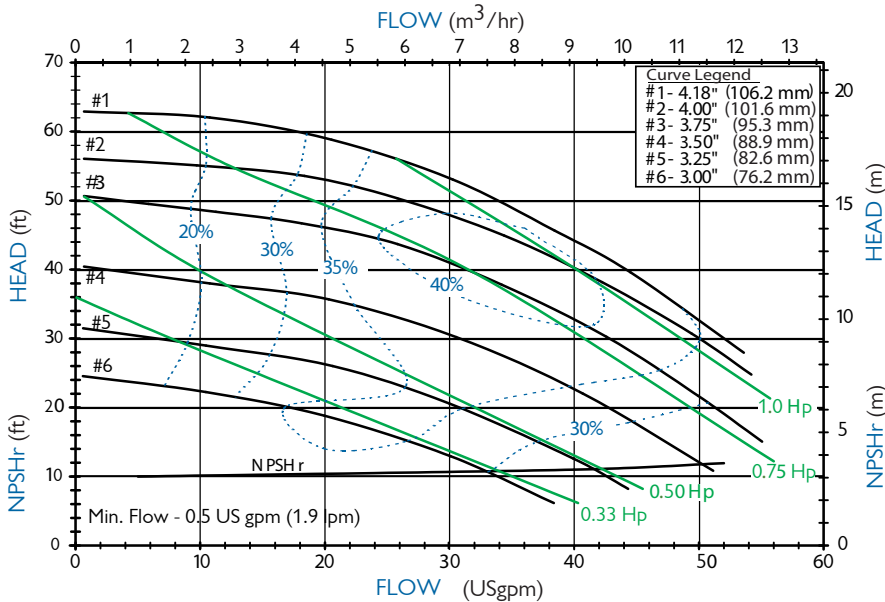




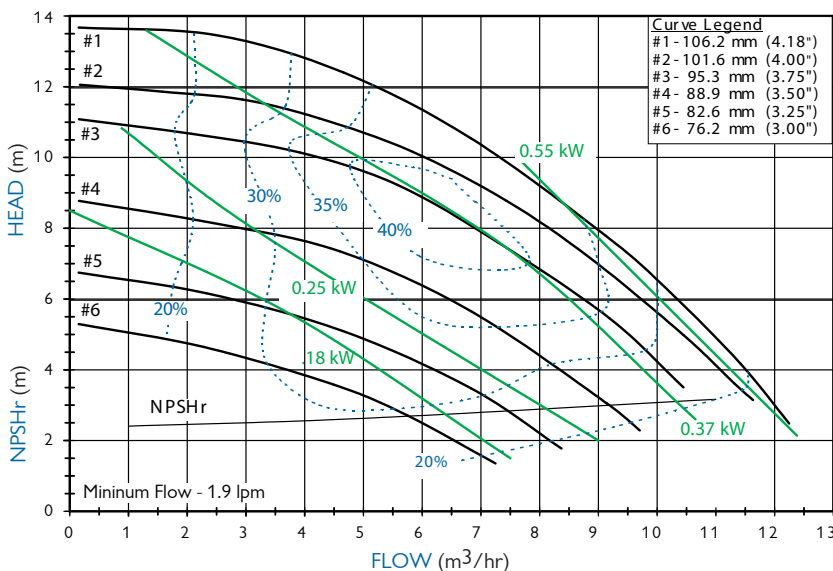
# SP SERIES MODEL SP10



## SP10 PERFORMANCE Flooded Suction 3450 RPM \*



## SP10 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.

**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
- 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
- Back pullout design
- Mounts to NEMA and IEC (B5 & B14) motor frames
- Easy set measurement free drive
- Pump outer drive shall conform to ISO 1940 G2.5 balancing
- CE certified
- High working pressure up to 80 psi (5.5 bar)
- Specific gravity over 1.8
- Polypropylene—180° F (82° C)
- PVDF—220° F (104° C)

## APPLICATIONS

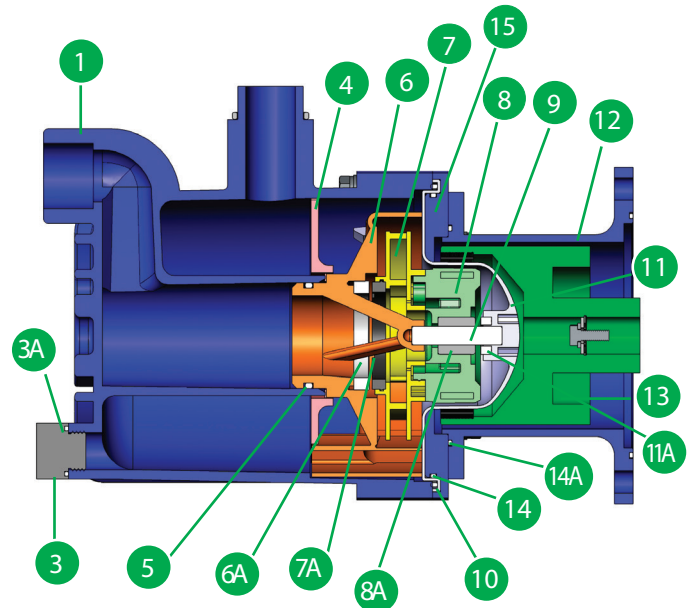
- Rail cars
- Tanker trucks
- Tanks with an opening on top
- Bulk storage to day or process tank transfer
- Sumps and reservoirs
- Below grade storage tanks
- Over-the-wall applications
- When run-dry protection is needed
- and many more!

# SP SERIES

## SPECIFICATIONS

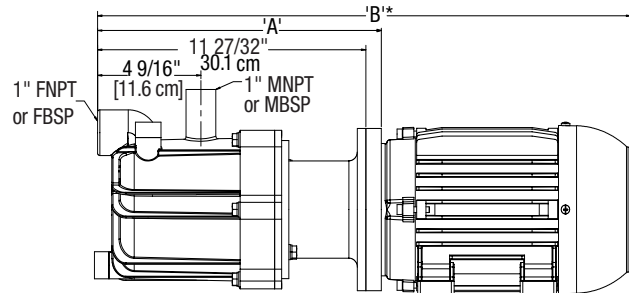
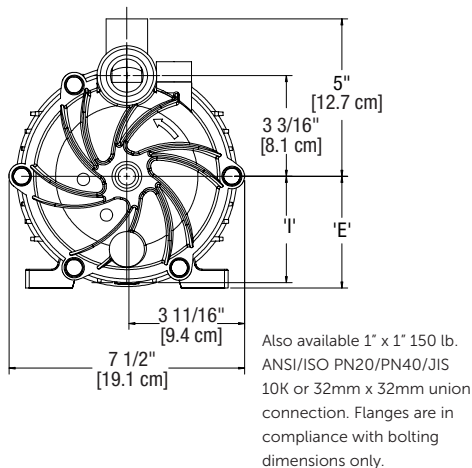
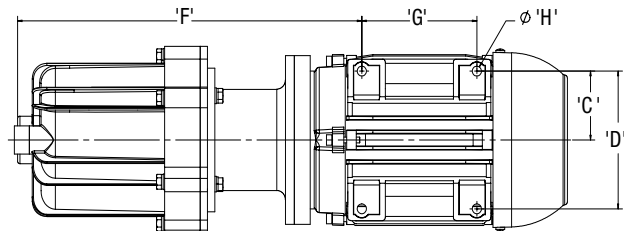
| Description                              | Polypropylene                                                       | PVDF                                                       |
|------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------|
| 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                  | Silicon carbide                                                     |                                                            |
| 12 Motor adapter                         | Ductile iron                                                        |                                                            |
| 13 Outer drive magnets                   | Nickel-plated neodymium iron boron magnets/ steel                   |                                                            |
| 14 Motor adapter sealing kit (NEMA only) | Buna N                                                              |                                                            |
| 15 Clamp ring                            | Carbon steel                                                        |                                                            |

\*Fill plug not shown



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

## DIMENSIONS



| Frame Size   | A                   | B*                  | C                 | D                  | E                 |
|--------------|---------------------|---------------------|-------------------|--------------------|-------------------|
| NEMA 56C     | 11-27/32" (30.1 cm) | 22-3/32" (56.1 cm)  | 2-7/16" (6.2 cm)  | 4-7/8" (12.4 cm)   | 3-1/2" (8.9 cm)   |
| NEMA 145TC   | 11-27/32" (30.1 cm) | 23-1/16" (58.6 cm)  | 2-3/4" (7.0 cm)   | 5-1/2" (14.0 cm)   | 3-1/2" (8.9 cm)   |
| IEC63 B14/B5 | 12-3/16" (31.0 cm)  | 18-31/32" (48.2 cm) | 1-31/32" (5.0 cm) | 3-15/16" (10.0 cm) | 2-15/32" (6.3 cm) |
| IEC71 B14/B5 | 12-3/16" (31.0 cm)  | 20-1/2" (52.0 cm)   | 2-7/32" (5.6 cm)  | 4-13/32" (11.2 cm) | 2-25/32" (7.1 cm) |
| IEC80 B14/B5 | 12-17/32" (31.8 cm) | 21-3/4" (55.2 cm)   | 2-15/32" (6.3 cm) | 4-29/32" (12.5 cm) | 3-5/32" (8.0 cm)  |
| IEC90 B14/B5 | 12-17/32" (31.8 cm) | 23-17/32" (59.8 cm) | 2-3/4" (7.0 cm)   | 5-1/2" (14.0 cm)   | 3-17/32" (9.0 cm) |

| Frame Size   | F                   | G                  | H               | I                  | Pump Wt. - lbs (kg) | Motor Wt. ** - lbs. (kg) |
|--------------|---------------------|--------------------|-----------------|--------------------|---------------------|--------------------------|
| NEMA 56C     | 14-19/32" (37.1 cm) | 3" (7.6 cm)        | 11/32" (0.9 cm) | 3-3/8" (8.6 cm)    | 13 (5.9)            | 28 (12.7)                |
| NEMA 145TC   | 14-7/32" (36.1 cm)  | 5" (12.7 cm)       | 11/32" (0.9 cm) | 3-3/8" (8.6 cm)    | 13 (5.9)            | 32 (14.5)                |
| IEC63 B14/B5 | 13-5/16" (33.8 cm)  | 3-5/32" (8.0 cm)   | 9/32" (0.7 cm)  | 3-3/8" (8.6 cm)    | 16.5 (7.5)          | 17 (7.7)                 |
| IEC71 B14/B5 | 14-1/16" (35.7 cm)  | 3-17/32" (9.0 cm)  | 9/32" (0.7 cm)  | 3-3/8" (8.6 cm)    | 16.5 (7.5)          | 22 (10.0)                |
| IEC80 B14/B5 | 14-7/16" (36.7 cm)  | 3-15/16" (10.0 cm) | 13/32" (1.0 cm) | 3-15/16" (10.0 cm) | 19 (8.6)            | 37.5 (17.0)              |
| IEC90 B14/B5 | 14-23/32" (37.4 cm) | 3-15/16" (10.0 cm) | 13/32" (1.0 cm) | 3-15/16" (10.0 cm) | 19 (8.6)            | 37.5 (17.0)              |

Dimensions and weights are for reference only.

\*Varies with motor manufacturer.

\*\*Depends upon motor manufacturer and style of motor chosen.



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