

SFX
Single-Stage
Flanged, End Suction
Centrifugal, Formed
Stainless Steel
Pumps

Applied in general industrial services where low to moderate flows are required with low to moderate heads



Formed Stainless Benefits

Flowserve's line of 304L stainless steel pumps is hydraulically formed rather than stamped. This results in true pump volutes with fewer welded parts, fewer rust points and fewer potential leak paths. Designed for dependable performance and rugged, continuous service, they offer superior quality, increased efficiencies and exceptional value.

When the service demands corrosion resistance, Flowserve formed stainless steel pumps provide the solution along with greater peace of mind.

SFX Features

- Flows to 380 gpm (86 m³/h) heads to 280 ft (85 m)
- 150 lb raised face ANSI flanges

- Close coupled design saves space and simplifies maintenance and installation
- Stainless steel liquid end components offer high quality and corrosion resistance
- Versatile mounting permits horizontal or vertical installation
- Back pullout construction allows assembly and overhaul of the impeller and seal without disturbing suction and discharge connections
- Top centerline discharge and foot support under casing ensure self-venting and reduce misalignment from pipe loads
- High operating efficiency reduces operating costs
- High quality mechanical shaft seals and o-rings are available for standard pumping requirements or optional:
 - high temperature duty
 - chemical duty
 - hard faced for solid particle duty

SFX Applications

- Plant services
- Water supply systems
- Washing systems
- Cooling water
- Car wash
- Scrubbers
- Ultrapure water systems
- Jockey pump services
- HVAC
- Sprinkler, flow irrigation
- OEM
- Pressure boosting
- Liquid transfer
- Spray systems
- Beverage processing
- Pharmaceutical services
- Water reclamation and treatment
- General pump applications

SFX Specifications



Flowserve's family of formed 304L stainless steel pumps includes:

- Horizontal, end suction centrifugal pumps with flows to 380 gpm (86 m³/h) and heads to 280 ft (85 m)
- Submersible sump, effluent or sewage pumps with power to 2 hp (1.5 kW) and solids handling to 2 in (50 mm) spherical
- Vertical multistage pumps with power to 25 hp (18.6 kW) and heads to 825 ft (251 m)

Size	
Suction (150 lb ANSI R.F. Equivalent)	SFX 1251 thru 1278 – 2 in (50 mm) ANSI Equivalent SFX 1549 thru 1578 – 2 in (50 mm) ANSI Equivalent SFX 2051 thru 2065 – 2-1/2 in (65 mm) ANSI Equivalent
Discharge (150 lb ANSI R.F. Equivalent)	SFX 1251 thru 1278 – 1-1/4 in (32 mm) ANSI Equivalent SFX 1549 thru 1578 – 1-1/2 in (40 mm) ANSI Equivalent SFX 2051 thru 2065 – 2 in (50 mm) ANSI Equivalent
Range of Power	
3 hp (2.2 kW) to 15 hp (11.2 kW)	
Range of Performance	
Capacity	13 gpm (3 m ³ /h) to 380 gpm (86 m ³ /h) at 3450 rpm
Head	33 ft (10 m) to 285 ft (87 m) at 3450 rpm
Liquid Handled	
Type of liquid	Clean Water
Temperature	212°F (100°C) (Optional: max. 250°F (121°C) with high temperature seal)
Maximum working pressure	125 psi (860 kPa)
Materials	
Casing	304L Stainless Steel
Impeller (closed type)	304L Stainless Steel
Shaft Sleeve	304L Stainless Steel
Bracket	Cast Iron
Shaft Seal	Mechanical Seal – Type 21 (Optional: High temperature version, mild chemical version and hard faced version)
Bearing	Ball Bearing
Direction of Rotation	
Clockwise when viewed from motor end	
Motor	
Type	NEMA JM Frame
Speed	60 Hz, 3450 rpm (2 poles)
Single Phase	TEFC – 3 hp (2.2 kW); ODP – 3 hp (2.2 kW) to 10 hp (7.5 kW)
Three Phase	TEFC – 3 hp (2.2 kW) to 15 hp (11.2 kW); ODP – 3 hp (2.2 kW) to 15 hp (11.2 kW), 208-230/460V (Optional: Explosion proof – consult factory for availability)
Motor Protection	Overload protection must be provided
Standard Accessories	
Suction and Discharge Flange Gasket Motor Support	

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Your local Flowserve representative:

Flowserve has numerous manufacturing, sales, and service operations throughout the world. Please contact one of the regional centers to determine the location of the nearest office.

SFX Selection Chart

