

**STX**  
**Single-Stage**  
**Threaded, End Suction**  
**Centrifugal, Formed**  
**Stainless Steel**  
**Pumps**

*Designed for low flow  
 and head applications*



**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.

**STX Features**

- Flows to 95 gpm (22 m<sup>3</sup>/h) heads to 144 ft (44 m)
- 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 and chemical duty operation

**STX 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
- Heat exchanger
- Spray systems
- Beverage processing
- Pharmaceutical services
- Water reclamation and treatment
- General pump applications

## STX Specifications



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

- Horizontal, end suction centrifugal pumps with flows to 380 gpm (86 m<sup>3</sup>/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)

|                                      |   |
|--------------------------------------|---|
| <b>Size</b>                          |   |
| Suction                              | STX 145, 151, 161 – 1-1/4 in (32 mm) NPT Thread<br>STX 245, 251, 261 – 1-1/4 in (32 mm) NPT Thread<br>STX 345, 351, 356 – 1-1/2 in (40 mm) NPT Thread               |
| Discharge                            | 1 in (50 mm) NPT Thread   |
| <b>Range of Power</b>                |   |
| 3/4 hp (0.56 kW) to 3 hp (2.2 kW)    |   |
| <b>Range of Performance</b>          |   |
| Capacity                             | 5.5 gpm (1.25 m <sup>3</sup> /h) to 95 gpm (22 m <sup>3</sup> /h) at 3450 rpm   |
| Head                                 | 26 ft (8 m) to 144 ft (44 m) at 3450 rpm  |
| <b>Liquid Handled</b>                |   |
| Type of liquid                       | Clean Water   |
| Temperature                          | 212°F (100°C)<br>(Optional: Maximum 250°F (121°C) with high temperature seal)   |
| Maximum working pressure             | 125 psi (860 kPa)   |
| <b>Materials</b>                     |   |
| Casing                               | 304L Stainless Steel  |
| Impeller (closed type)               | 304L Stainless Steel  |
| Shaft                                | Stainless Steel   |
| Bracket                              | Aluminum  |
| Shaft Seal                           | Mechanical Seal – Type 21<br>(Optional: High temperature version, mild chemical version)  |
| Bearing                              | Ball Bearing  |
| <b>Direction of Rotation</b>         |   |
| Clockwise when viewed from motor end |   |
| <b>Motor</b>                         |   |
| Type                                 | NEMA 56J Frame  |
| Speed                                | 60 Hz, 3450 rpm (2 poles)   |
| Single-Phase                         | TEFC – 3/4 hp (0.56 kW) to 3 hp (2.2 kW)<br>ODP – 3/4 hp (0.56 kW) to 3 hp (2.2 kW), 115/230V<br>(Optional: Explosion proof – consult factory for availability)     |
| Three-Phase                          | TEFC – 3/4 hp (0.56 kW) to 3 hp (2.2 kW)<br>ODP – 3/4 hp (0.56 kW) to 3 hp (2.2 kW), 208-230/460V<br>(Optional: Explosion proof – consult factory for availability) |
| Motor Protection                     | Overload protection must be provided  |

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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.

STX Selection Chart

