

# "STX / SVX / SFX" Series

## CENTRIFUGAL SEPARATORS

### Specification WRTNSEP

Written: January 2014



#### 1.0 DESCRIPTION

1.1 CENTIFUGAL SEPARATOR: Shall be manufactured by General Treatment Products, or approved equal and shall be complete with true tangential entry, extended purge chamber, vortex tube stabilizer and solids deflection hood.

#### 2.0 MATERIALS & FEATURES

2.1 BODY: Separator body shall be a minimum of 10 gauge mild steel and 2:1 semi-elliptical SA414 G heads.

2.2 CONNECTIONS: Separator "STX" connections shall be male national pipe thread end connections. Select from optional fittings to follow.

- "SVX" Victaulic grooved end pipe fittings
- "SFX" 150# Raised face pipe flange fittings

2.3 FLOW RATE: Separator shall be designed for flow rates as listed below and a pressure drop from 4-12 PSID. Using chart below select separator line size and pressure drop:

- |  |  |
|--|--|
| <input type="checkbox"/> "0038" 3/8" Line, 4-9 GPM       | <input type="checkbox"/> "0500" 5" Line, 550-960 GPM     |
| <input type="checkbox"/> "0050" 1/2" Line, 6-12 GPM      | <input type="checkbox"/> "0600" 6" Line, 800-1390 GPM    |
| <input type="checkbox"/> "0075" 3/4" Line, 12-23 GPM     | <input type="checkbox"/> "0800" 8" Line, 1380-2400 GPM   |
| <input type="checkbox"/> "0100" 1" Line, 22-38 GPM       | <input type="checkbox"/> "1000" 10" Line, 2175-3780 GPM  |
| <input type="checkbox"/> "0125" 1 1/4" Line, 34-54 GPM   | <input type="checkbox"/> "1200" 12" Line, 2910-5050 GPM  |
| <input type="checkbox"/> "0150" 1 1/2" Line, 52-86 GPM   | <input type="checkbox"/> "1400" 14" Line, 3810-6600 GPM  |
| <input type="checkbox"/> "0200" 2" Line, 76-118 GPM      | <input type="checkbox"/> "1600" 16" Line, 5050-8760 GPM  |
| <input type="checkbox"/> "0250" 2 1/2" Line, 118-186 GPM | <input type="checkbox"/> "1800" 18" Line, 6500-11200 GPM |
| <input type="checkbox"/> "0300" 3" Line, 185-320 GPM     | <input type="checkbox"/> "2000" 20" Line, 8050-13950 GPM |
| <input type="checkbox"/> "0400" 4" Line, 350-610 GPM     |  |

2.4 TANGENTIAL ENTRY: Separator shall be manufactured with true tangential entry. Non-Tangential entry or inlet flow diverters can cause forced pressure loss and can cause ineffective forced pressure loss.

2.5 SOLIDS DEFLECTION HOOD: Separator shall be equipped with General Treatment Products Proprietary solids deflection hood causing minimal 1.5 time velocity increase, similar to reduced body diameters to aid in heavier than water solids removal.

2.7 EXTENDED PURGE CHAMBER: Separator shall be have a extended purge chamber utilizing lower head and 2 inches of separator body. Allowing for less routine maintenance and averting system downtimes due to clogging.

2.8 PAINT: Separator shall be painted and primed with Alkyd enamel paint.

2.9 PRESSURE AND TEMPERATURE LIMITATIONS: Shall have maximum operating perimeters of 150PSI @ 200F.

2.10 OPTIONAL FEATURES: Select from the following.

- Code "CO2" 2" NPT clean out port
- Code "LP22" 22 1/2° Low Profile Mount
- Code "LP45" 45° Low Profile Mount
- Code "RD\_\_" Flanged removable dome for interior inspection
- Code "RPC\_\_" Victaulic groove removable purge chamber for purge inspection
- Code "ASME" Separator welded to ASME code
- Code "316S" Separator made from 316 stainless steel material

P.O. Box 8697, Brea, CA 92822-5697 ♦ Phone: 714) 257-9165  
113 Viking Ave., Brea, CA 92821 ♦ Fax: 741) 257-9215

**[www.gtpcompany.com](http://www.gtpcompany.com) ♦ [customerservice@gtpcompany.com](mailto:customerservice@gtpcompany.com)**

# "STX / SVX / SFX" Series

## CENTRIFUGAL SEPARATORS

### Specification WRTNSEP

Written: January 2014



#### 3.0 WARRANTY

General Treatment Products Separators are guaranteed for five years from date of shipment against manufacturing defects in material and workmanship which develop in the service for which they are designed. We will repair or replace a defective part of this system when returned to our factory with freight prepaid; providing that the part is found to be defective upon inspection. We assume no liability for labor and/or other expenses in making repairs or adjustments.

P.O. Box 8697, Brea, CA 92822-5697 ♦ Phone: 714) 257-9165  
113 Viking Ave., Brea, CA 92821 ♦ Fax: 741) 257-9215

**[www.gtpcompany.com](http://www.gtpcompany.com) ♦ [customerservice@gtpcompany.com](mailto:customerservice@gtpcompany.com)**