

# SEPARATOR SPECIFICATIONS

## (4" - 20" FLANGED)

WSS050002.A 12/17



### DESCRIPTION

1.0) **SOLIDS SEPARATOR:** Shall be constructed of carbon steel, ASME code semi-elliptical heads, raised face flanged tangential inlet, raised face flanged center top outlet fitting, black merchant FNPT purge port and solids purge chamber. Solids separators shall be painted with water based enamel and designed for 150 PSI at 200° F. The Separator shall have a pressure drop not less than 4 PSID or greater than 12 PSID. Separator design shall remove 98% of solids, which are 40 microns and 1.8 specific gravity or greater. Separator size shall be determined by flow rate and not line size. Use table below to determine separator model:

<input type="checkbox"/> 352-610 GPM, 4-12 PSID	Use model XFD-0400
<input type="checkbox"/> 554-959 GPM, 4-12 PSID	Use model XFD-0500
<input type="checkbox"/> 800-1,385 GPM, 4-12 PSID	Use model XFD-0600
<input type="checkbox"/> 1,385-2,398 GPM, 4-12 PSID	Use model XFD-0800
<input type="checkbox"/> 2,183-3,780 GPM, 4-12 PSID	Use model XFD-1000
<input type="checkbox"/> 2,915-5,049 GPM, 4-12 PSID	Use model XFD-1200
<input type="checkbox"/> 3,817-6,610 GPM, 4-12 PSID	Use model XFD-1400
<input type="checkbox"/> 5,056-8,757 GPM, 4-12 PSID	Use model XFD-1600
<input type="checkbox"/> 6,469-11,204 GPM, 4-12 PSID	Use model XFD-1800
<input type="checkbox"/> 8,056-13,953 GPM, 4-12 PSID	Use model XFD-2000

### MATERIALS

2.0) **BODY:** Separator body shall be sized according to connection fittings:

- 4" to 12" separator shall have a body that is a minimum of 3/16" thick.
- 14" to 20" separators shall have a body that is a minimum of 1/4" thick.

2.1) **HEADS:** All heads supplied will be ASME code semi-elliptical heads and be sized according to connection fittings:

- 4" to 16" separator shall have semi-elliptical heads that have a minimum of 3/16" thick.
- 18" to 20" separators shall have semi-elliptical heads that have a minimum of 1/4" thick.

2.2) **FEATURES:** Separators shall incorporate tangential inlet with internal vortex accelerator, vortex chamber, solids collection chamber and spin trap plate with vortex locator. Internal slots that may clog will not be accepted.

3.0) **SEPARATOR INSTALLATION:** Shall be by the following installations: (check one)

- FULL STREAM APPLICATION: Separator shall operate to maximum flow rate of the recirculation system.
- SIDE STREAM APPLICATION: Separator shall operate at 10 – 20% of the flow rate of the recirculation system.

4.0) **ACCESSORIES:** Separator shall be supplied with the following accessory items to complete installation: (check all that apply)

- REMOVABLE DOME: Separator shall be supplied with removable dome to facilitate servicing of separator interior (change model from "XFD" to "RFR").
- CLEAN OUT: Separator shall be supplied with 4" x 6" hand hole located at or near the separator spin trap plate. Clean out port will be accessed when cleaning solids collection chamber.
- GAUGE KITS: Separator shall be supplied with inlet and outlet gauge kit package to verify pressure loss. Gauge kit shall include 0-200 PSI gauges.

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- CONTINUAL PURGE PACKAGE: Shall be complete with epoxy coated solids removal vessel with optional inlet and outlet isolation valves, 3 GPM brass flow control valve, loss of flow detection switch, 25 micron NP filter and 304 stainless steel perforated support basket with easy remove handles.
  - TIMED PURGE PACKAGE: Shall be complete with NEMA 3R control panel, 0-100 hours purge cycle, 0-99 minutes purge duration, brass 8 second motorized purge valve, isolation ball valve, black iron street elbow, extension nipple and manual isolation 400 WOG ball valve.
  - MANUAL PURGE PACKAGE: Shall be complete with black iron street elbow, extension nipple and 400 WOG ball valve.
  - AIR RELEASE: 1/4" NPT air release valve located on the top dome of the separator.
- 5.0) **WARRANTY:** Wingert Separators are guaranteed for one year from the 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 defective material when returned to our factory with transportation prepaid: providing that the material is found to be defective upon inspection. We assume no liability for labor and/or other expenses in making repairs or adjustments. All replacements will be F.O.B. factory.