

BYPASS FEEDER SPECIFICATIONS

Form #035000.C

August 2004



DESCRIPTION

1.0) **CHEMICAL BYPASS FEEDER:** Shall consist of continuous electric welded tube body, code semi-elliptical heads, inlet/outlet/drain and fill port. Bypass Feeder will be installed as per manufacturer's recommended installations and be completed with valve package and noted accessories below. Feeder is rated for 200 PSI @ 200° F.

MATERIALS

2.0) **SHELL:** Body of bypass feeder shall be A513 tube and be a minimum of .104" thick for 6" diameter feeders and .134" thick for 10" diameter feeders.

2.1) **HEADS:** Tank heads shall be 2:1 semi-elliptical ASME code type SA-414G and a minimum of .134" thick for 6" diameter feeders and .109" thick for 10" diameter feeders.

2.2) **STYLE:** (check one)

- FLAT BOTTOM:** Feeder shall have side inlet and outlet 3/4" Phoenix #384 flange fittings with 3 1/2", 1/4 turn heavy duty cast closure.
- DOME BOTTOM:** Feeder shall have side inlet and outlet 3/4" Phoenix #384 flange fittings with 3 1/2", 1/4 turn heavy duty cast closure, bottom drain 3/4" Phoenix #384 flange fitting and three (3) welded steel legs.

2.3) **VALVE PACKAGES:** Shall be complete the installation as recommended by manufacturer: (check one)

- FLAT BOTTOM FEEDER VALVE PACKAGE:** Shall be complete with 3/4" brass inlet and outlet isolation valves, inlet and outlet unions and drain hose bib with installation tee and installation nipples.
- FLAT BOTTOM FEEDER VALVE PACKAGE AND FILL FUNNEL:** Shall be complete with 6" carbon steel fill funnel with spill guard, 3/4" brass inlet and outlet isolation valves, inlet and outlet unions and drain hose bib with installation tee and installation nipples.
- DOME BOTTOM FEEDER VALVE PACKAGE:** Shall be complete with 3/4" brass inlet and outlet isolation valves, inlet and outlet union and drain valve with carbon steel street elbow and installation nipples.
- DOME BOTTOM FEEDER VALVE PACKAGE AND FILL FUNNEL:** Shall be complete with 6" carbon steel fill funnel with spill guard, 3/4" brass inlet and outlet isolation valves, inlet and outlet union and drain valve with carbon steel street elbow and installation nipples.

2.4) **FEEDER SIZE:** Shall be of proportionate size as to not create strain to fill / recharge: (check one)

- 2 gallon vessel, 6" diameter, height not to exceed 32 inches
- 5 gallon vessel, 10" diameter, height not to exceed 32 inches
- 12 gallon vessel, 10" diameter, height not to exceed 53 inches
- 18 gallon vessel, 10" diameter, height not to exceed 71 inches

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

- INTERNAL EPOXY COATING:** 2.0 – 2.5mil black beauty shall be electrostatically sprayed cold to inside of feeder body. Epoxy shall be DuPont #ELB400P9.
- EXTERNAL EPOXY COATING:** 2.0 – 2.5mil black beauty shall be electrostatically sprayed cold to outside of feeder body. Epoxy shall be DuPont #ELB400P9.
- INTERNAL / EXTERNAL EPOXY COATING:** 2.0 – 2.5mil black beauty shall be electrostatically sprayed cold to inside and outside of feeder body. Epoxy shall be DuPont #ELB400P9.
- SIGHT LEVEL:** 1/2" NPT, 12" OC sight level valves with automatic ball checks shall be supplied for filling of chemical feeder. Sight level gauge shall include two (2) sample valves with composite handles, automatic ball checks (in case of gauge glass breakage), Borasilicate gauge glass and gauge glass protection rods. Sight level gauge is rated 125PSI @ 200° F (300PSI @ 200° F optional).
- AIR RELEASE:** 1/4" NPT lab cock style valve with relief discharge connection shall be supplied and installed in top dome to relieve trapped air that may cause system corrosion.
- PRESSURE GAUGE:** 1/4" NPT bottom tap gauge to indicate pressure at time of operation and servicing shall be supplied and installed in top dome, rated for 0-300PSI.
- FILTER BAG KIT:** Stainless steel support tube with carbon steel bag support wire, 30-50 micron nominal, brass fittings, assembly shall be supplied and installed to remove harmful scale, dirt and particles.

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SIGHT FLOW INDICATOR: Shall be furnished and installed on outlet side of feeder, to indicate flow through feeder, rated for 125PSI @ 200° F.

2.6) **INSTALLATION:** Feeder shall be installed: (check one)

PUMP DIFFERENTIAL: Using the system recirculation pump, the feeder shall plumb with inlet on the discharge side and the outlet on the suction side of pump. This flow shall be regulated to less than 5 gallons per minute and less than 10 pounds of pressure differential.

MAIN LINE VALVE: Using a system main line throttling valve, the feeder shall plumb with inlet on the inlet side of the throttle valve, and the outlet on the outlet side of the throttling valve. This flow shall be regulated to less than 5 gallons per minute and less than 10 pounds of pressure differential.

3.0) **WARRANTY:** Wingert Bypass Feeders 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.