

Bromine Feeder Operations & Maintenance Manual



This "QUICK START" manual is supplied as a guideline for installation; please visit www.gtpcompany.com for complete instruction manual, assembly drawings and installation drawings.

GENERAL INFORMATION

| | | | |
|---------------|--|----------------|-------|
| MODEL: | _____ | SERIAL: | _____ |
| POUNDS: | <input type="checkbox"/> 15 <input type="checkbox"/> 20 <input type="checkbox"/> 25 <input type="checkbox"/> 40 | | |
| FITTINGS: | <input type="checkbox"/> 3/4"NPT <input type="checkbox"/> 1"NPT <input type="checkbox"/> Other | | |
| ACCESSORIES: | <input type="checkbox"/> Flow Indicator <input type="checkbox"/> Flow Control Valve <input type="checkbox"/> Air Release | | |
| | <input type="checkbox"/> Valve Package | | |

*** WARNING – BEFORE YOU GET STARTED ***

- 1) All fasteners & fittings should be inspected and secured before operation as they may be loosened in transit
- 2) Personnel safety practices should apply at all times
- 3) Safety glasses or face shields and gloves should be worn
- 4) Do not service glycol feed package without disconnecting power
- 5) Close isolation valve and release pressure before servicing any components on the system
- 6) All liquids in system should be drained before servicing

2.0 WARRANTY: General Treatment Products Bromine Feeder are guaranteed for one year from date of shipment against manufacturing defects in material and workmanship that 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.

3.0 UNPACKING: Upon receipt of order, inspect package thoroughly. In the event there was damage incurred in transit you must notify the freight company within **3-5 days of receipt of order**. Once feeder is inspected for damage and received in good condition, store indoors until installing.

4.0 LOCATION AND ENVIROMENT: Although there is no power requirements, bromine feeders should not be exposed to direct elements. In the case there is no dry location that is convenient to install the bypass/filter feeder. A shelter, awning or shed should to be installed to extend product life.

5.0 INSTALLATION: Once location is decided on, feeder needs to be securely mounted. **Be sure that feeders are strapped to secure surface and comply with local building codes.** In accordance, outlet piping should be supported within 12 inches of feeder. System vibrations should be minimal.

5.1 CONNECTING TO THE SYSTEM: Bromine Feeder flow rate (In GPM) shall not exceed volume of feeder (In Gallons). Flow rates in excess of feeder volume, (1E: one gallon feeder flow rate should be 1GPM) dramatically reduces feeder life. Flow control valves should be installed on discharge side of feeder. All GTP feeder pressure and temperature limitations are designated on product label. Be sure the feeder meets or exceeds your systems requirements. GTP suggests the installation of air release valve, if not already supplied.

"BR" Bromine feeders come standard with 2 fittings. Lower side fitting is the inlet and the upper neck fitting is the discharge. For best results the bromine feeder should be stalled with isolation valve, drain valve, outlet strainer, inlet flow control or indicator valve and wall mount straps. See diagram:

5.2 LID REMOVAL/INSTALLATION (Bromine Feeder)

- 1) Inspect O-ring for wear / debris and proper alignment in groove on bottom of feeder lid.
- 2) Inspect sealing edge of bromine body; be sure that it is free from defects. A smooth surface will ensure a proper lid seal.
- 3) Screw lid down and turn until tight. Bromine lid seals at O-ring not at the threads.
- 4) Use U-Cuts in lid to tighten with light breaker bar or wrench. **Do Not Over Tighten!**

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6.0 PRESSURE AND TEMPERATURE LIMITATIONS: Bromine Feeders maximum operating perimeters are 100PSI @ 85F. Some optional fittings, as noted in descriptions, may change limitations, contact factory for assistance.

| MATERIAL | MAXIMUM SHORT TERM TEMPERATURE | MAXIMUM OPERATING TEMPERATURE | MAXIMUM OPERATING PRESSURE |
|--------------------------------------|--------------------------------|-------------------------------|----------------------------|
| Polyethylene (PE) | 160°F/69°C | 85°F/36°C | N/A |
| Polyvinylchloride (PVC) | 140°F/60°C | 85°F/36°C | 100PSI/6.9BAR |
| Chlorinated Polyvinylchloride (CPVC) | 180°F/77°C | 120°F/49°C | 100PSI/6.9BAR |
| Polypropylene (PP) | 180°F/77°C | 120°F/49°C | 100PSI/6.9BAR |
| Teflon (PTFE) | 200°F/93°C | 200°F/93°C | N/A |
| Carbon Steel (CS) | 200°F/93°C | 200°F/93°C | 150PSI/10.3BAR |
| Cast Iron (CI) | 200°F/93°C | 200°F/93°C | 150PSI/10.3BAR |
| Brass (BR) | 200°F/93°C | 200°F/93°C | 150PSI/10.3BAR |
| Stainless Steel (SS) | 200°F/93°C | 200°F/93°C | 150PSI/10.3BAR |

Note: Minimum Fluid Temperature is 50°F/10°C.

7.0 ROUTINE MAINTENANCE: Routine maintenance in this section is referred to as checking a feeder once a month until a maintenance schedule can be determined. **All fasteners should be check for proper alignment & operations.** Maintenance and care will depend upon the usage and environment in which the feeder is subject to.

9.0 TROUBLE SHOOTING

| PROBLEM | POSSIBLE CAUSE / ACTION |
|-----------------|--|
| Low flow rate | Filters or strainers are dirty or fouled |
| | Discharge piping is restricted or undersized |
| | Inlet piping is restricted or undersized |
| Lid is leaking | Closure is not aligned properly |
| | Hardware is not tight |
| | Gasket is fouled or needs to be replaced |
| Body is leaking | Chemical attack or crack, consult factory |
| | Damaged in shipment, consult factory |

If you are still having trouble, contact us at repairs@gtpcompany.com, or you can call us at the number on the front of the Instruction manual.

Manufacturing: Bypass & Filter Feeders, Glycol Feed Packages, Separators & Separator Systems, Tanks, Tank Stands, Chemical Batch Mixers, Corrosion Coupon Racks, Packaged Feed Systems and Custom Systems

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