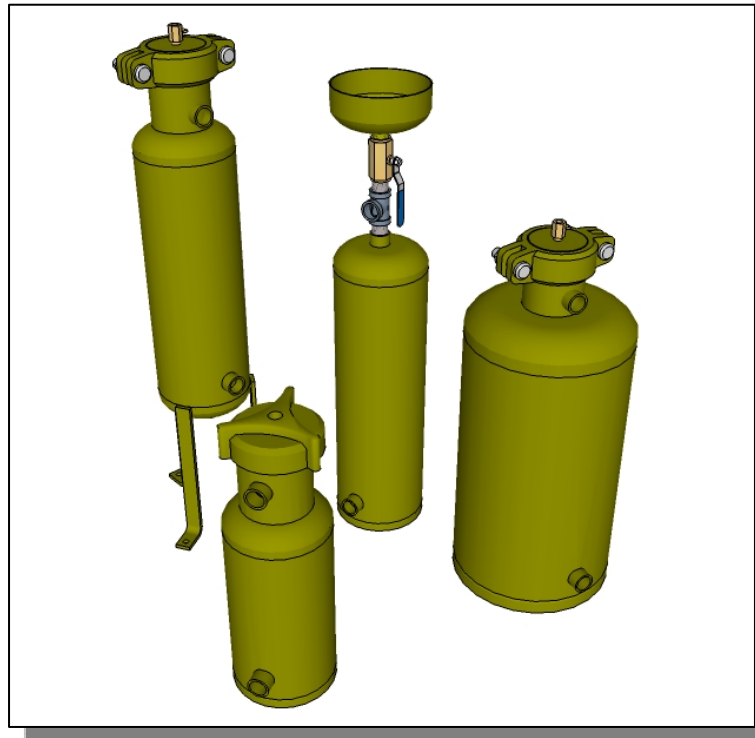




## Bypass/Filter & Bromine Feeder Operations & Maintenance Manual



**Record Your Model, Serial Number and  
Other Information on the back of this document.**

**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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**\*\*\* WARNING \*\*\***

- ✱ ALL FASTENERS SHOULD BE PROPERLY SECURED BEFORE OPERATION AS THEY MAY BE LOOSENED IN TRANSIT
  - ✱ PERSONNEL SAFETY PRACTICES SHOULD APPLY AT ALL TIMES
  - ✱ SAFETY GLASSES OR FACE SHIELDS AND GLOVES SHOULD BE WORN
- ✱ CLOSE ISOLATION VALVE AND RELEASE PRESSURE BEFORE SERVICING ANY COMPONENTS ON THE BYPASS OR FILTER FEEDER
  - ✱ ALL LIQUIDS IN SYSTEM SHOULD BE DRAINED BEFORE SERVICING

✱ **1.0 Introduction**

Thank you for choosing **General Treatment Products Bypass/Filter & Bromine Feeders**. In this document we explain the basics for locating, installing, adjusting and operating bypass/ filter and bromine feeders. For further information, please contact us at [customerservice@gtpcompany.com](mailto:customerservice@gtpcompany.com) or call us at the phone number on the cover.

✱ **2.0 Warranty**

**General Treatment Products Bypass/Filter Feeders** are guaranteed for two years and **GTP 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.

☆ **3.1 Order Verification**

In order to verify receipt of correct product, use the following table and model number to identify the contents.

**Bypass/Filter Model Numbering**

<b>FB</b>	<b>2</b>	<b>/PF20-VPFB</b>
<b>Options</b>		
<b>QC</b>	Quarter Turn Quick-Closure (200P/200F)	
<b>HP</b>	High Pressure feeder with fill valve and funnel	
<b>PF20</b>	20 Micron pleated filter, 180F and handle	
<b>SF25</b>	25 Micron sock filter, 180F and handle	
<b>EPC</b>	OD Green, epoxy coating, inside and out	
<b>VPFB</b>	Valve package, flat bottom feeder	
<b>VPDB</b>	Valve package, dome bottom feeder	
<b>EFFB</b>	Easy-Fit hose kit, flat bottom feeder	
<b>EFDB</b>	Easy-Fit hose kit, dome bottom feeder	
<b>FL06</b>	Fill funnel, 6" diameter (10" diameter optional)	
<b>S125</b>	Sight level gauge, 125PSI (300PSI optional)	
<b>PG300</b>	Pressure gauge, 0-300PSI	
<b>AR</b>	1/4" NPT Air release (-QC Models Only)	
<b>Gallons</b>		
<b>1</b>	1 gallon model (1.25GL max. capacity)	
<b>2</b>	2 gallon model (2.5GL max. capacity)	
<b>5</b>	5 gallon model (5.2GL max. capacity)	
<b>10</b>	10 gallon model (10.4GL max. capacity)	
<b>Base Model</b>		
<b>FB</b>	Flat bottom feeder	
<b>DB</b>	Dome bottom feeder	

**Note:** Not all options and sizes available on all feeders. See pricing for standard models.

**Bromine Model Numbering**

<b>BR</b>	<b>15</b>	<b>-CLR/VPBR</b>
<b>Options</b>		
<b>-CLR</b>	Clear Viewing Body	
<b>-VPBR</b>	Valve Package for flat bottom feeders	
<b>-ARP</b>	1/4" PVC air release package	
<b>-FCXXP</b>	PVC Flow Control Valve (XX = Flow Rate GPM)	
<b>-FI 10</b>	Flow Indicator, 0-10 GPM	
<b>-TS80M</b>	80 Mesh Polypropylene T-Strainer	
<b>Capacity</b>		
<b>15</b>	15# Feeder Body	
<b>25</b>	25# Feeder Body	
<b>Base Model</b>		
<b>BR</b>	Bromine Feeder	

☆ **4.0 LOCATION AND ENVIRONMENT**

Although there is no power requirements, bypass/filter & 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 flat bottom feeders are strapped to secure surface and dome bottom feeders (with legs included) are secured with local building codes.** In accordance and outlet piping should be supported within 12 inches of feeder. System vibrations should be minimal.

## ✧ 5.1 CONNECTING TO SYSTEM

**Feeder bypass flow rate (In GPM) shall not exceed volume of feeder (In Gallons)**

**Example: (1 GPM flow per 1 Gallon Volume)**

Flow rates in excess of feeder volume, (one gallon feeder flow rate should be 1GPM) dramatically reduces feeder and filter 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 meet's or exceeds your systems requirements. GTP suggests the installation of air release valve, if not already supplied.

**(Standard feeders and Pleated Filter Feeders)** "FB" Flat bottom feeders come standard with 2 fittings. Lower side fitting is the inlet and the upper neck fitting is the discharge. "DB" Dome bottom feeders come standard with 3 fittings. Lower side fitting is the inlet, upper neck fittings are the discharge and the bottom dome fitting is for the drain.

**(Sock Filter Feeders)** "FB" Flat bottom feeders come standard with 2 fittings. Lower side fitting is the outlet and the upper neck fitting is the inlet. "DB" Dome bottom feeders come standard with 3 fittings. Lower side fitting is the outlet, upper neck fittings are the inlet and the bottom dome fitting is for the drain.

**(Bromine Feeders)** "BR" Bromine feeders come standard with 2 fittings. Lower side fitting is the inlet and the upper neck fitting is the discharge.

Assembly drawings are available, visit us at [www.gtpcompany.com](http://www.gtpcompany.com) or contact the factory for assistance.

### ✧ 5.2a LID INSTALLATION (Victaulic or Bolted Closure)

- 1) Place gasket on pressure plate.
- 2) Place gasket/pressure plate on neck of feeder.
- 3) Lowest lip of lid coupling to be aligned with groove on feeder neck.
- 4) Install nut and bolt set loosely. As hardware is tightened, be sure that neck groove and coupling are aligned. **Be sure not to pinch gasket in coupling as tightened.**

**Note: Victaulic Caps will rise and seat, once pressure is applied.**

### ✧ 5.2b LID INSTALLATION (Quarter Turn Closure)

- 1) Inspect O-ring for wear and proper alignment in pressure plate groove.
- 2) Tighten lid screw through lid and in to back of pressure plate.
- 3) Fit lid and three prong tabs to neck ring grooves.
- 4) Press lid down and turn until tight. **Note: If lid does not fit, contact factory for assistance.**

### ✧ 5.2c LID INSTALLATION (Bromine Feeder)

- 1) Inspect O-ring for wear 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 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!**

### ✧ 5.2d HP INSTALLATION (Fill valve and funnel)

- 1) Install ¾" discharge tee and ¾" short nipple in to feeder top connection.
- 2) Install ¾" fill isolation valve and ¾" long nipple to discharge tee.
- 3) Install fill funnel and ¾" short nipple to valve.

## ✧ 5.3 PLEATED FILTER INSTALLATION / INSPECTION

- 1) Isolate feeder and release internal pressure with drain valve or other. When it is safe, remove lid assembly and remove pleated filter assembly. Disassemble pleated filter assembly and inspect for damage and rinse filter.
- 2) Align filter and Viton gasket with handle assembly.
- 3) Place stainless steel hex bolt down handle assembly and through filter.
- 4) Install keep nut and filter holder through bottom of filter.
- 5) Screw long keep nut assembly to end of hex bolt. Keep handle, filter and nut assembly aligned as you tighten.
- 6) Place filter assembly through neck opening in feeder and reinstall lid.

#### ✧ 5.4 SOCK FILTER INSTALLATION / INSPECTION

- 1) Isolate feeder and release internal pressure with drain valve or other. When it is safe, remove lid assembly and remove pleated filter assembly. Disassemble sock filter assembly and inspect for damage and rinse filter.
- 2) Collapse sock filter and insert through handle assembly until Ring is just above retaining washer..
- 3) While still collapsed, insert sock filter into perforated basket assembly.
- 4) Reinsert sock filter assembly into feeder opening.
- 5) Reinstall feeder closure and resume flow. Flow will expand filter sock to perforated basket.

#### ✧ 6.0 PRESSURE AND TEMPERATURE LIMITATIONS

Standard GTP Feeders are and HP feeders rated for 300PSI @ 200F. The "-QC" Quick closure is rated to 200PSI at 200F. Bromine Feeders are rated at 100PSI @ 85F. Pleated filter models de-rate the temperature to 180F. Some optional fittings, as noted in descriptions, may change feeder 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, filter models may need frequent cleaning on start-up of new closed loop systems. **All fasteners should be check for proper operations.** Maintenance and care will depend upon the usage and environment in which the feeder is subject to.

## ✦ 8.0 PARTS LISTING

The following tables itemize parts that may be replaced in the field. If further breakdown is needed, consult manufacturer's operations manual or call us for assistance.

Part	Description	Feeder Model
FC3.0	Feeder closure assembly, coupling, plate & air release	All STD Models
0160030	Feeder closure plate, 1/4"FNPT tap & air release	All STD Models
0160031	Feeder closure gasket, EPDM	All STD Models
QC3.5	Feeder Quick Closure Assembly	"-QC" Models
0160032	Feeder Quick Closure replacement O-ring	"-QC" Models
BC4.0	Bromine feeder, PVC Machined closure	"BR" Models
0160033	Bromine feeder replacement O-Ring	"BR" Models
HNG3.0	Pleated filter hanger assembly (standard closure)	All Filter Models
0160040	Pleated filter upper gasket, EPDM	All Filter Models
0160041	Pleated filter hanger tube and lower nut assembly	All Filter Models
HNG3.5	Pleated filter hanger assembly ("QC" closure)	All Filter Models
0160042	Pleated filter upper gasket, EPDM	All Filter Models
RPF20	20Micron replacement pleated filter (6 pack available)	All Filter Models
RSF25	25Micron replacement sock filter with ring (6 pack available)	All Filter Models
0160001	Air release valve, 300PSI, 1/4" MNPT, brass	All Models
0160002	Pressure gauge, 0-300PSI, back tap, brass	All Models
0160003	Plated steel replacement carriage bolts hardware for closure	All Models
VPFB	Valve package, flat bottom feeders	FB Models
VPDB	Valve package, dome bottom feeders	DB Models
EFFB	Easy-Fit hose kit valve package, flat bottom feeders	FB Models
EFDB	Easy-Fit hose kit valve package, dome bottom feeders	DB Models
FLO6	Fill funnel, 6" diameter	All Models
FL10	Fill funnel, 10" diameter (high capacity)	All Models

Note: Contact customer service for replacement parts not listed above.

## ✦ 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, consult factory
	Damaged in shipment, consult factory

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

## ✦ 10.0 PRODUCT LABEL

**Model:**

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**Serial Number:**

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