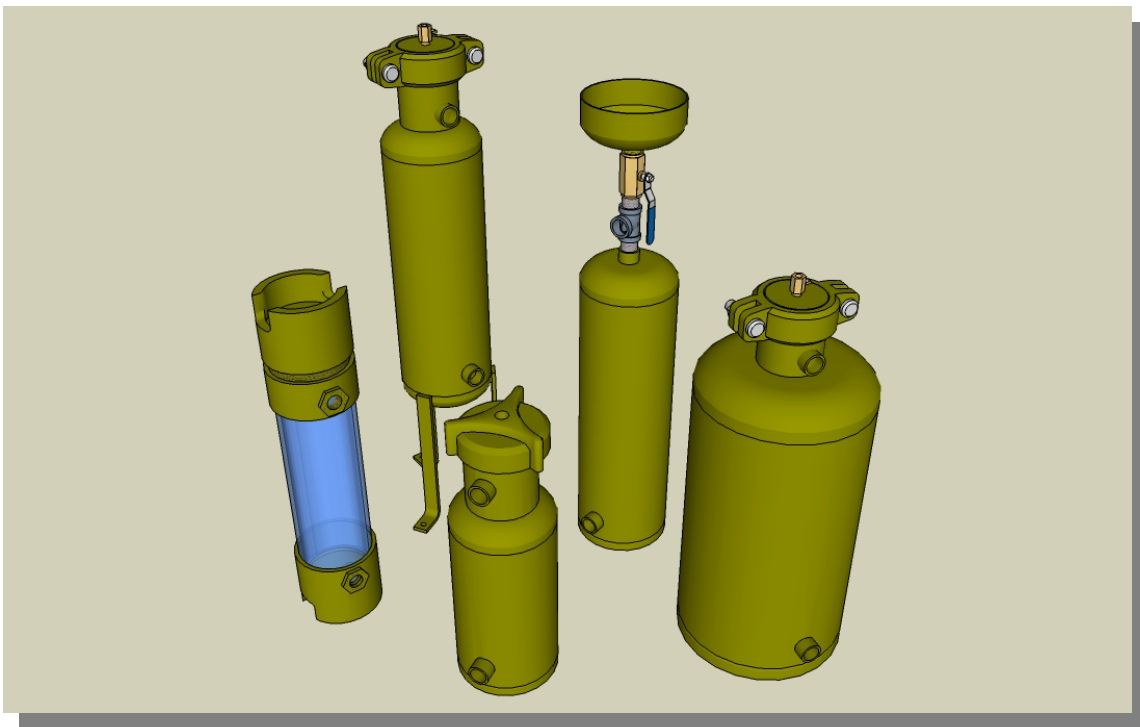




Bypass/Filter & Bromine Feeder Operations & Maintenance Manual



Model, Serial Number and Other Information
Needs to be recorded on the back of this document.

Manufacturing: Bypass & Filter Feeders, Glycol Feed Packages, Tanks, Tank
Stands, Chemical Batch Mixers, Corrosion Coupon Racks 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@gtppcompany.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

FB	2	/PF20-VPFB
Options		
QC	Quarter Turn Quick-Closure (200P/200F)	
HP	High Pressure feeder with fill valve and funnel	
PF20	20 Micron pleated filter, 180F and handle	
SF25	25 Micron sock filter, 180F and handle	
EPC	OD Green, epoxy coating, inside and out	
VPFB	Valve package, flat bottom feeder	
VPDB	Valve package, dome bottom feeder	
FLO6	Fill funnel, 6" diameter (10" diameter optional)	
S125	Sight level gauge, 125PSI (300PSI optional)	
PG300	Pressure gauge, 0-300PSI	
AR	1/4" NPT Air release (-QC Models Only)	
Gallons		
1	1 gallon model (1.25GL max. capacity)	
2	2 gallon model (2.5GL max. capacity)	
5	5 gallon model (5.2GL max. capacity)	
10	10 gallon model (10.4GL max. capacity)	
Base Model		
FB	Flat bottom feeder	
DB	Dome bottom feeder	

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

Bromine Model Numbering

BR	15	-CLR/VPBR
Options		
-CLR	Clear Viewing Body	
-VPBR	Valve Package for flat bottom feeders	
-ARP	1/4" PVC air release package	
-FCXXP	PVC Flow Control Valve (XX = Flow Rate GPM)	
-FI10	Flow Indicator, 0-10 GPM	
-TS80M	80 Mesh Polypropylene T-Strainer	
Capacity		
15	15# Feeder Body	
25	25# Feeder Body	
Base Model		
BR	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)
(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

★ 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.

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

★ 5.2b LID INSTALLATION (Quarter Turn Closure)

- 1) Check O-ring for proper alignment in Pressure Plate
- 2) Fit lid and three prong tabs to neck ring grooves
- 3) Press lid down and turn until tight

★ 5.2c LID INSTALLATION (Bromine Feeder)

- 1) Check O-ring for proper alignment
- 2) Press lid down and turn until tight

★ 5.2d HP INSTALLATION (Fill valve and funnel)

- 1) Install tee and nipple in to feeder
- 2) Install Fill valve and nipple to tee
- 3) Install funnel and nipple to valve

★ 5.3 FILTER INSTALLATION / INSPECTION

- 1) Align filter with handle assembly.
- 2) Install keep nut and filter holder through bottom or filter.
- 3) Screw keep nut to upper handle assembly.
- 4) Place filter assembly through neck opening in feeder.

★ 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.

✪ 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
FL06	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@gtpproducts.com, or you can call us at the number on the front of the Instruction manual.

✪ 10.0 PRODUCT LABEL

Model:

Serial Number:
