Bypass / Filter Feeders
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 – 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 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

1.0 INTRODUCTION Thank you for choosing General Treatment Products Industrial Bypass / Filter Feeders. In this document, we explain the basics for locating, installing and operating your bypass / filter feeder. For further information, please contact us at 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 from the 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.

Model Numbering

FB 2 /PF20-VPFB

Options	
QC	Quarter Turn Quick-Closure & Cor-Plate (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
EFFB	Easy-Fit hose kit, flat bottom feeder
EFDB	Easy-Fit hose kit, dome bottom feeder
FL06	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

4.0 LOCATION AND ENVIROMENT 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, outlet piping should be supported within 12 inches of feeder. System vibrations should be minimal.

5.1 CONNECTING TO THE SYSTEM Feeder bypass flow rate (In GPM) shall not exceed volume of feeder (In Gallons). 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 meets 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.

Assembly and installation drawings are available, visit us at **www.gtpcompany.com** or contact the factory for assistance.

5.2a LID REMOVAL/INSTALLATION (Standard Victaulic or Bolted Closure)

1) Close feeder isolation valves
2) Open pressure relief valve in lid
3) Loosen bolts and remove bolts (15/16" wrench)
4) Loosen and remove half couplings
5) Loosen and remove gasket/end cap.
6) Remove Filter (if any) and fill feeder.
7) When reassembling, it is easiest to put gasket on end cap before placing on neck of feeder.

8) Add half couplings, align with groove on neck and pinch together by hand. **Be sure not to pinch gasket in coupling as tightened.**
9) Add bolts and tighten till snug. Close pressure relief valve and slowly open isolation valves. **Victaulic Caps will rise and seat, once pressure is applied.**
10) Return valves to normal operating position.

5.2b LID REMOVAL / INSTALLATION ("QC" Quick Closure)
1) Close feeder isolation valves
2) Inspect O-ring for wear and proper alignment in pressure plate groove.
3) Tighten lid screw through lid and in to back of pressure plate.
4) Fit lid and three prong tabs to neck ring grooves.
5) Press lid down and turn until tight. **Note: If lid does not fit, contact factory for assistance.**

5.2c HP FILL / INSTALLATION (Fill Funnel and Valve)
1) Close feeder isolation valves
2) Install ¾" discharge tee and ¾" short nipple in to feeder top connection.
3) Install ¾" fill isolation valve and ¾" long nipple to discharge tee.
4) 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 or filter.
5) Screw long keep nut assembly to and 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 Bypass Feeders maximum operating perimeters are 300PSI @ 200F. "QC" designated feeders have a maximum rating of 200PSI @ 200F. "HP" designated feeders have a maximum rating of 300PSI @ 200F. "PF" designated feeders have a maximum rating of 180F. 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)	160ºF/69ºC	85ºF/36ºC	N/A
Polyvinylchloride (PVC)	140ºF/60ºC	85ºF/36ºC	100PSI/6.9BAR
Chlorinated Polyvinylchloride (CPVC)	180ºF/77ºC	120ºF/49ºC	100PSI/6.9BAR
Polypropylene (PP)	180ºF/77ºC	120ºF/49ºC	100PSI/6.9BAR
Teflon (PTFE)	200ºF/93ºC	200ºF/93ºC	N/A
Carbon Steel (CS)	200ºF/93ºC	200ºF/93ºC	150PSI/10.3BAR
Cast Iron (CI)	200ºF/93ºC	200ºF/93ºC	150PSI/10.3BAR
Brass (BR)	200ºF/93ºC	200ºF/93ºC	150PSI/10.3BAR
Stainless Steel (SS)	200ºF/93ºC	200ºF/93ºC	150PSI/10.3BAR

Note: Minimum Fluid Temperature is 50ºF/10ºC.

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 with NEW Cor-Plate	"-QC" Models
0160032	Feeder Quick Closure replacement O-ring	"-QC" 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
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@gtpcompany.com, or you can call us at the number on the front of the Instruction manual.

10.0 PRODUCT LABEL

Model:

Serial Number: