

# Bypass/Filter Feeder Operations & Maintenance Manual



This "QUICK START" manual is supplied as a guideline for installation; please visit [www.gtpcompany.com](http://www.gtpcompany.com) for complete instruction manual, assembly drawings and installation drawings.

## GENERAL INFORMATION

<b>MODEL:</b>	_____					<b>SERIAL:</b>	_____				
GALLONS:	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 5	<input type="checkbox"/> 10	<input type="checkbox"/>						
STYLE:	<input type="checkbox"/> Flat Bottom	<input type="checkbox"/> Dome Bottom									
CAP/FILL:	<input type="checkbox"/> Standard Cap	<input type="checkbox"/> Quick Closure	<input type="checkbox"/> High Pressure w/funnel								
FITTINGS:	<input type="checkbox"/> 3/4"NPT	<input type="checkbox"/> 1"NPT	<input type="checkbox"/> Other								
ACCESSORIES:	<input type="checkbox"/> Pleated Filter	<input type="checkbox"/> Sock Filter	<input type="checkbox"/> Air Release								
	<input type="checkbox"/> Valve Package	<input type="checkbox"/> Hose Kit	<input type="checkbox"/> Epoxy Coating								
	<input type="checkbox"/> Fill Funnel	<input type="checkbox"/> Pressure Gauge	<input type="checkbox"/> Sight Flow Indicator								
	<input type="checkbox"/> Mounting Tabs	<input type="checkbox"/> Wall Mount Straps	<input type="checkbox"/>								

### \*\*\* 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 with out 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 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.

**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.

#### 5.1A Inlet/Outlet and Drain Fittings: How do I plumb the feeder.

**(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](http://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

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- 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.**

**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)	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.

## 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.

**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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