



Bypass/Chemical Feeder Operations & Maintenance Manual



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

Manufacturing: Bypass & Chemical Feeder Tanks.

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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 **Elbi of America, Inc. Bypass/Chemical 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 elbi@elbi.net or call us.

★ 2.0 Warranty

Elbi of America, Inc. Bypass/Chemical Feeders 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 **immediately**. Once tank is inspected for damage and received in good condition, store indoors until installing.

☆ 3.1 Order Verification

Please verify receipt of correct product, check model number to identify the contents.

☆ 4.0 LOCATION AND ENVIRONMENT

Although there are 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 dry location should be utilized 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.**

Outlet piping should be supported within 12 inches of feeder. System vibrations should be minimal.

☆ 5.1 CONNECTING TO SYSTEM

INSTALLATION LOOP FLOW RATE (GPM) SHALL BE EQUAL TO FEEDER 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 Elbi of America, Inc. feeder pressure and temperature limitations are designated on product label. Be sure the feeder meets or exceeds your system requirements. Elbi of America, Inc. suggests the installation of air release valve, if not already supplied.

“FB” Flat bottom feeders come standard with 2 fittings. Lower side fitting is the inlet and the upper neck fitting is the discharge. See Elbi of America, Inc. flat bottom valve for typical installation. All FB feeders should have drain valve installed on inlet side.

“DB” Dome bottom feeders come standard with 3 fittings. Lower side fitting is the inlet, upper neck fitting is the discharge and the bottom dome fitting is for the drain.. See **Elbi of America, Inc.** flat bottom valve for typical installation.

☆ 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 HP INSTALLATION (Fill valve and funnel)

- 1) "HP" style feeders will come complete with an exit tee, fill valve and funnel.
- 2) Teflon tape or soft set all threaded connections
- 3) See drawings for details on installation – or – install in order to follow
- 4)
 - a. Install tee and nipple into feeder
 - b. Install Fill valve and nipple to tee
 - c. 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 **Elbi of America, Inc.** Feeders are rated for 300PSI @ 200F. The “-FB-200” Quick closure is rated to 200PSI at 200F.

★ 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	All Filter Models
0160040	Pleated filter upper gasket, EPDM	All Filter Models
0160041	Pleated filter hanger tube and lower nut assembly	All Filter Models
RPF20	20Micron replacement pleated filter (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
FF06	Fill funnel, 6" diameter	All Models
FF10	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 elbi@elbi.net or you can call us at the number on the front of the Instruction manual.

★ 10.0 PRODUCT LABEL

Elbi Model Model:

Serial Number:

Date of Purchase:

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