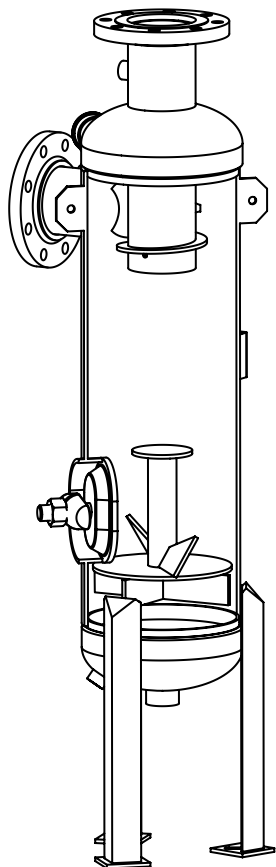
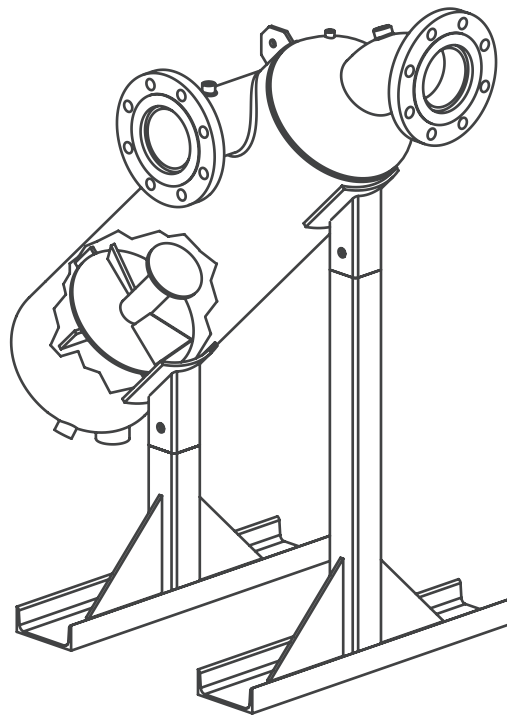


# SEPARATOR INSTALLATION & OPERATION MANUAL



**Cutaway Standard 4" Flanged Separator**



**Standard 4" Low Profile Flanged Separator**

## Record Information About Your Separator

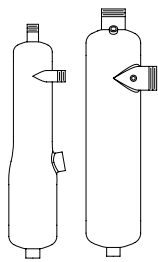
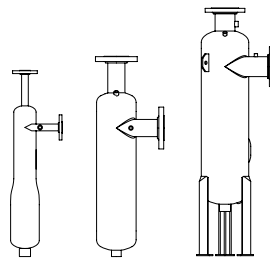
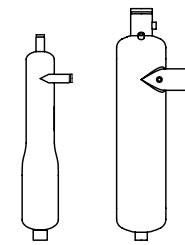
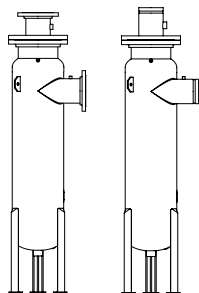
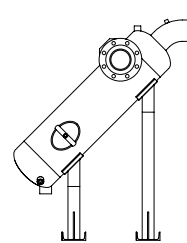
1. Date Purchased \_\_\_\_\_
2. Date Installed \_\_\_\_\_
3. Serial Number \_\_\_\_\_
4. Local Representative \_\_\_\_\_

For assistance, please call your Local Representative or the Factory Help Line:  
(951) 270-1776 Ext. 201 or 202

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**TYPES OF SEPARATORS****THREADED****FLANGED****GROOVED END****REMOVEABLE DOME****LOW PROFILE**

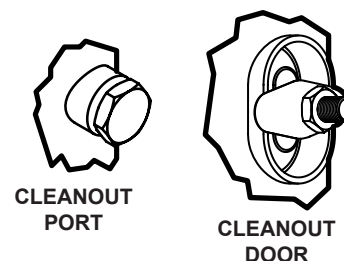
## LOCATION

Separator location should provide the following:

1. **Full flow separator installations MUST be on the discharge side of the system pump.**
2. Locate separator as close to the fluid source as possible.
3. Provide room for inspection and maintenance.
4. Griswold Filtration recommends the inlet/outlet pipe connections to the Separator should be a straight run of at least five pipe diameters to minimize turbulence and enhance performance.

## PIPING CONSIDERATIONS:

The inlet to the separator is on the side, near the top. The outlet to the separator is on the top. The purge connection is on the bottom. Cleanout threaded opening is located on the side near the bottom for 1/2" to 2-1/2" separators, and a cleanout door for 3" to 20" separators. The cleanout is used if something too large to pass the spin plate enters the separator. All piping leading to and out of the separator must be supported.



## MECHANICAL

1. Inspect and hydrotest all pipe connections for leaks.
2. All flanged connections must have gaskets, and all threaded connections must have Teflon tape or anti-seize coating.
3. Flush all new pipe construction before system operation. In the absence of a pump strainer basket, use a y-strainer with 1/4" perforated screen. The perforated screen must be at least the same size or one pipe size larger than the pump suction. The perforated screen will block out larger debris such as welding rods, tools, rags, gloves, etc.

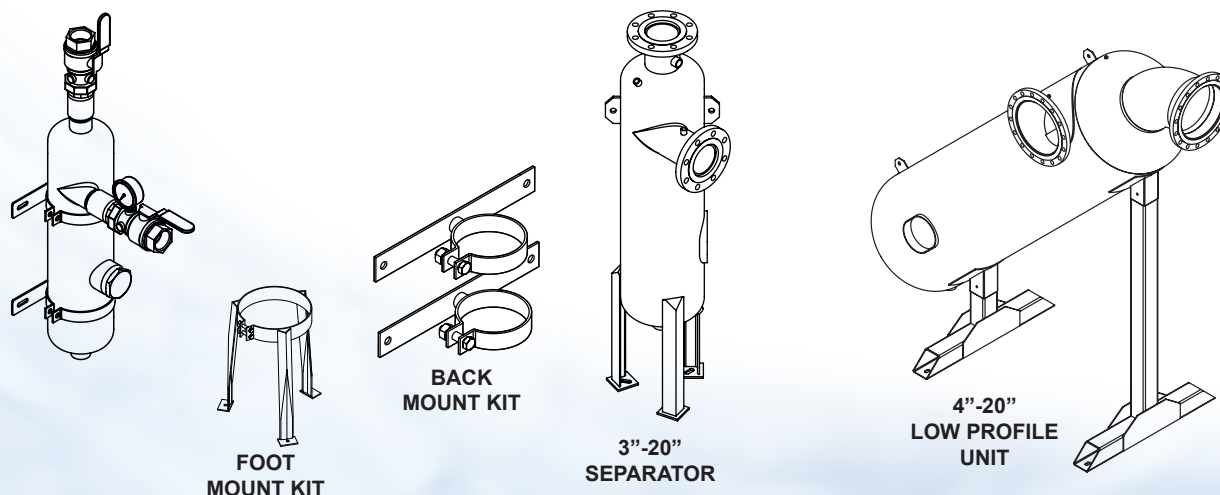
## INSTALLATION:

Mounting Options: Separators may be mounted in several different ways. Mounting methodology is controlled by the site required physical location of the separator. Separators from 1/2" to 3" threaded connection may be:

- Hung into existing piping with common pipe hanging materials
- Mounted to a wall with available Back mount Kits from Griswold
- Free standing, with available Foot mount Kits from Griswold

Flange separators 3" to 20 are supplied with leg assemblies welded to their body. These units are too heavy for mounting other than with leg mounts, and must be anchored to a leveled concrete floor. Separators should be mounted vertically, except for the "Low Profile" units designed with 45 degree mounting.

Verify that the mounting location, wall or concrete pad, is appropriate for the operating weight of the separator series chosen. Approximate shipping weights of the units are listed on the back of this sheet.



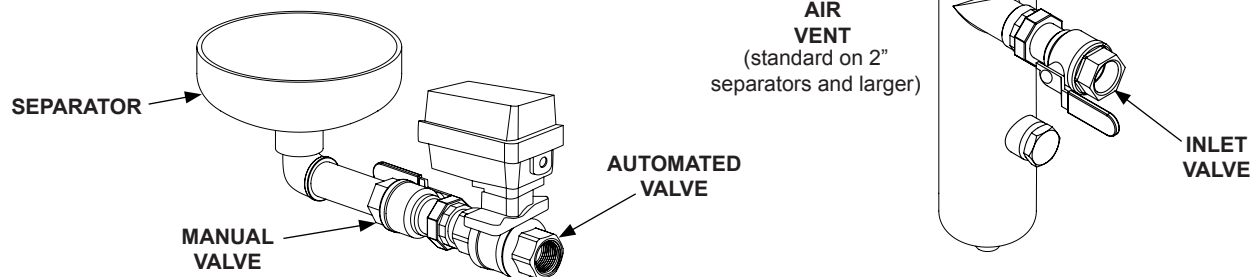
## SEPARATOR WEIGHT

MODEL									
WEIGHT (LBS.)	1/2in	3/4in	1in	1-1/4in	1-1/2in	2in	2-1/2in	3in	4in
DRY	20	24	28	43	43	95	99	122	280
WET	N/A								590

MODEL									
WEIGHT (LBS.)	5in	6in	8in	10in	12in	14in	16in	18in	20in
DRY	300	375	560	850	1200	1385	1720	2350	3100
WET	830	1100	2120	3750	6040	8730	12610	17570	23693

### STARTUP:

**Separator:** Open separator inlet valve 100% and outlet valve 50%. Valve supplied by others. Make sure pump suction valve is 100% open. Suction line must be flooded before startup. Open separator air vent located near the outlet (standard on 2" separators and larger). Purge all the air from the separator and piping. Open outlet valve until a 100% opening is achieved. If separator begins to vibrate, then close separator outlet until it stabilizes.



**Purging:** The purge connection must have a manual valve as well as an optional automated valve. Purge separator every 4 hours as follows:

SEPARATOR	PURGE CONNECTION	MBV*	MBVSR*	MBVFS*
.5"-3"	1"	8/4/8	55/0/15	7/7/7
4"-6"	1-1/2"			
8"-12"	2"	6/5/6	150/0/15	12/0/12
14"-20"	3"	25/0/25		30/0/30

\* OPEN/DURATION/CLOSE

**Winterization:** If the Separator is to remain idle in freezing temperatures, drain liquid as necessary to avoid frozen water expansion and related damages.