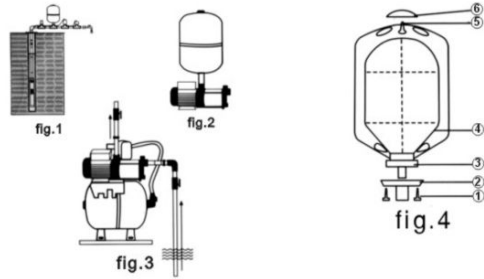




GRANDFAR

INSTALLATION ILLUSTRATION:



CAPTION

- 1.Counterflange bolts;
- 2.Counterflange;
- 3.Counterflange;
- 4.Membrane;
- 5.pre-loading valve;
- 6.Protection cap.

WORKING TEMPERATURE:
BUTYL: -20/99°C
EPDM: -20/99°C
NATURAL RUBBER :0/77°C

MODEL	MAX.PRESSURE (bar)	L (mm)	D (mm)	H (mm)	CONNECTOR	PRECHARGE PRESSURE (bar)
GFV2-150	3.5	195	104/116	195	1/2"	1.5
GFV2-160	3.5	222	110	222	1/2"	1.5
GFF6	3.5	105	325	105	3/4"	1.5
GFF8	3.5	130	325	130	3/4"	1.5
GFF10	3.5	150	325	150	3/4"	1.5
GFF12	3.5	170	325	170	3/4"	1.5
GFV3	6,8,10	235	170	235	1"	1.5
GFV4	6,8,10	302	155	302	1"	1.5
GFV5	6,8,10	275	170	275	1"	1.5
GFV8	6,8,10	328	200	328	1"	1.5
GFV12	6,8,10	305	270	305	1"	1.5
GFV19	6,8,10	395	270	395	1"	1.5
GFV24	6,8,10	460	270	460	1"	1.5
GFS24	6,8	350	350	350	1"	1.5
GFR24	6,8	390	350	390	1"	1.5
GFC19	6,8,10	395	292	292	1"	1.5



MODEL	MAX.PRESSURE (bar)	L (mm)	D (mm)	H (mm)	CONNECTOR	PRECHARGE PRESSURE (bar)
GFC24	6,8,10	460	292	292	1"	1.5
GFC36	6,8,10	435	375	375	1"	1.5
GFC50	6,8,10	545	375	375	1"	1.5
GFC60	6,8,10	645	408	408	1"	1.5
GFC80	6,8,10	600	470	470	1"	1.5
GFC100	6,8,10	685	470	470	1"	1.5
GFC150W	10	980	500	532	1"	2.5
GFV36T	6,8,10	550	350	550	1"	1.5
GFV50T	6,8,10	660	350	660	1"	1.5
GFV60T	6,8,10	785	380	785	1"	1.5
GFV80T	6,8,10	725	450	725	1"	1.5
GFV100T	6,8,10	810	450	810	1"	1.5
GFV80W	6,8,10	765	450	765	1"	1.5
GFV100W	6,8,10	850	450	850	1"	1.5
GFV 150W	10	1135	500	1135	1"	2.5
GFV200W	10,16	1080	628	1080	1 1/2"	2.5
GFV300W	10,16	1360	628	1360	1 1/2"	2.5
GFV500W	10,16	1465	790	1465	1 1/2"	2.5
GFV900W	10,16	1850	800	1850	1 1/2"	4

Reserves the right of making changes to its products and data shown in this manual without notices. All dimensions are subject to the tolerance.

INSTALLATION, USE AND MAINTENANCE INSTRUCTIONS FOR INTERCHANGEABLE PRESSURE TANKS

NOTICES

1. Please read this manual completely before installation.
2. Do not exceed the max. working pressure and temperature of the tank; provide suitable controls to avoid any damage.
3. In order to avoid leaks from the tanks, it could be necessary the use of a drainage system.
4. During installation, provide for appropriate discharging and vent valves.
5. During the design we have not considered any external stress like traffic, wind earthquake, these stress elements should be considered by the installer during the installation.
6. Observe local regulations for installation, qualified professional staff must check the system periodically,
7. The manufacturer does not accept any responsibility for material or personal damages due to wrong installation of the vessel.



8. If temperature and pressure limits it's exceeded, manufacturer will not accept any reasonability and warranty, claims will be refused.
9. Check the fluid compatibility for liquids different from water.
10. The place of installation should be protected, the installation is allowed to authorized staff only.
11. The device should be protected by suitable heating system, or insulated from the plant by means of a dielectric joint.

PROCEED AS FOLLOWS FOR PRESSURE TANK INSTALLATION.

1. If a tank in an existing system is being replaced, make sure that electrical input to the pump electrical control panel is disconnected.
2. Take the tank out of its package, remove the protection plug(Fig. 4 No.6) from the air valve and then check the preloading pressure, making sure that this pressure is slightly less than the pressure-switch triggering pressure and adding or removing air as required, and screw the protection plug back on.
3. Position the tank as close as possible to pressure-switch in order avoid pressure losses due to friction, figure 1.2 and 3 illustrate the most frequent types of installation.
4. Connect the tank to the pump outlet point, making sure to always respect all local installation regulations.
5. We recommend installing a safety valve set to the system maximum working pressure.
6. Restore the power supply to pump control panel only after completing the installation of the tank.
7. Fill the system again by starting up the pump until the pressure-switch shuts the pump off automatically.
8. Open and close the tap furthest from the tank repeatedly in order to eliminate all the air inside the tubing.
9. Open one or more taps in order empty tank, if a pause is observed between the emptying if the tank and starting of the pump, the pressure-switch triggering pressure must be slightly increased or the tank pre-loading pressure must be decreased by proceeding as described in Point 2.
10. Repeat point 7.8.9 until the pause is completely eliminated.
11. Check all the connections and make sure that there are on leakage of water.
12. If the operations in points above have been perfectly executed, the system should now be ready for operation.
13. Regularly check the tank re-loading pressure during the use of system and top up whenever required.



PROCEED AS FOLLOWS FOR THE REPLACEMENT OF THE BLADDER

1. Disconnect the power supply to the pump electrical control panel and either shut off the water supply or completely drain the system of water.
2. Remove the tank from the system and remove all the pre-loading air by using valve.
3. Remove the tank horizontally in order to facilitate the operations that follow.
4. Remove the bolts from the counter- flange and then remove the counter-flange.
5. Remove the old bladder from the tank.
6. Re-assemble the counter-flange.
7. Re-load the tank pre-loading pressure and check for leakages of air on the counter-flange.
8. Re-connect the tank to the system and follow the instructions prescribed above for the verification of correct system operation.

MAINTENANCE

Before starting any maintenance, disconnect all the electric devices and take care of the pressure and temperature of the system, all the heating system components should be periodically checked by professional people(at least once per year).