ASME Replaceable Bladder Hydro-pneumatic Tank for Booster Expansion Pressure Control

GRUNDFOS **GFXA**

The Grundfos GFXA pressure boosting expansion tanks are replaceable bladder type pre-charged hydro-pneumatic tanks that meet ASME code design regulations and comply with NSF/ANSI Standard 61. The GFXA expansion tanks are used in commercial and industrial water well, pressure boosting, or other non-heated potable water system applications — providing sufficient flow based on demand, by delivering water under pressure between pump cycles (e.g., required tank drawdown.) Water is stored in a replaceable butyl bladder, eliminating problems such as water-logging and tank corrosion.

All GFXA tanks can be installed both vertically or horizontally, and allow the bladder to be replaced without having to remove the tank from its mounting an be equipped with large service openings.

KEY FEATURES AND BENEFITS

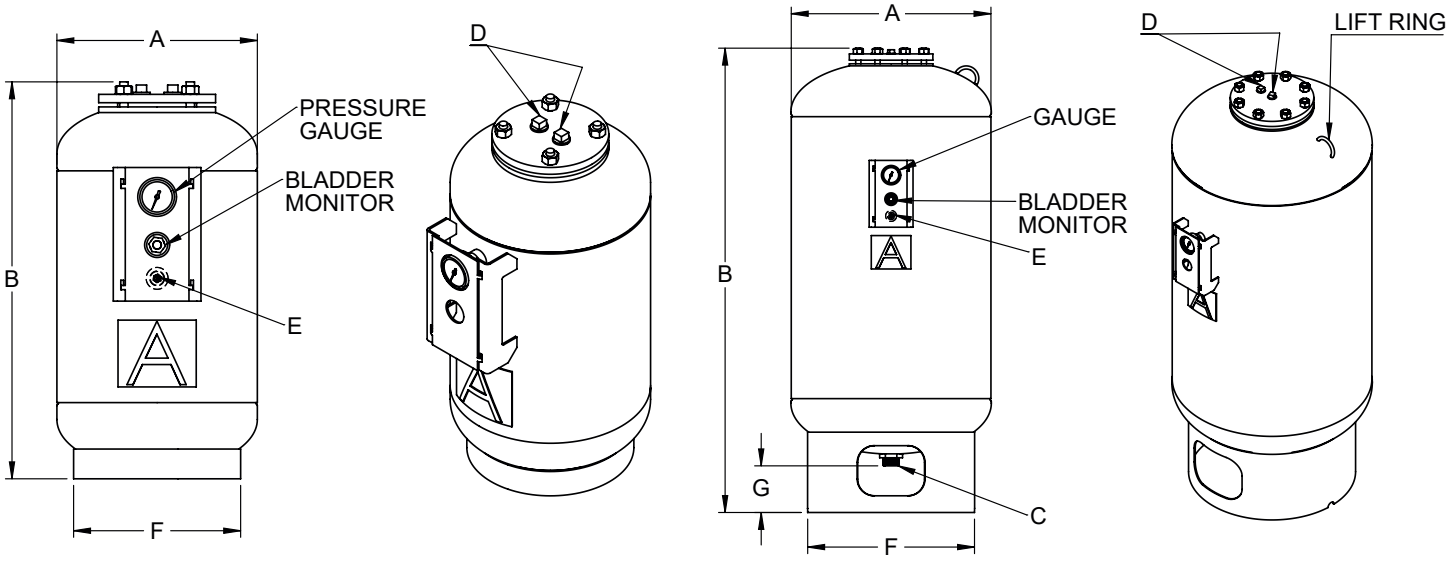
- Hydro-pneumatic tank helps protect the pump and pressure switches against short-cycling
- Reduction in surge pressures, dampening pressure spikes and minimized pump run times help extend pump motor service life and improve system operation
- Integrated pressure gauge
- Bladder integrity monitor included
- Easy-access air valve
- Tamper-resistant secure guard mount
- Eliminates water logging and corrosion issues found with diaphragm tanks since water is completely enclosed in a replaceable butyl bladder that separates water from air
- Full flow design compatible

CONSTRUCTION

- **Factory Pre-charged:** 40 psi (field adjustable)
- **Material:** Available in carbon steel, 304 or 316L stainless steel
- **System Connection:** Epoxy Coated
- **Replaceable Bladder:** Replaceable heavy-duty butyl bladder that are NSF 61/FDA approved (other materials available upon request)
- **Standard Design Pressure:** 125 psi (8.6 bar), with higher pressure ratings available
- **Temperature Range:** -20°F to 240°F
- Designed and fabricated in accordance with ASME Boiler & Pressure vessel code
- Products comply with NSF/ANSI Standard 61

APPLICATIONS

- Open-loop
- Potable water
- Pressure booster
- Well water



GFXA-35 through GFXA-800L

MODEL	DIMENSIONS (in.)							MAX WORKING PRESSURE	SHIPPING WEIGHT (lbs)
			SYSTEM CONNECTION		CHARGING VALVE				
	A	B	C	D	E	F	G		
GFXA-35	12	23 1/2	-	3/4 NPT	0.302" - 32NC	10	-	125	40
GFXA-50	14	24	-	3/4 NPT	0.302" - 32NC	10	-	125	50
GFXA-85	16	37	1 NPT	3/4 NPT	0.302" - 32NC	12	5 1/2	125	90
GFXA-130	20	37	1 NPT	3/4 NPT	0.302" - 32NC	16	5 1/2	125	125
GFXA-200	24	43	1 1/2 NPT	3/4 NPT	0.302" - 32NC	20	5 1/4	125	210
GFXA-300	24	55	1 1/2 NPT	3/4 NPT	0.302" - 32NC	20	5 1/4	125	225
GFXA-400	30	49	1 1/2 NPT	3/4 NPT	0.302" - 32NC	24	5 1/4	125	300
GFXA-500	30	57	1 1/2 NPT	3/4 NPT	0.302" - 32NC	24	5 1/4	125	335
GFXA-600	30	65	1 1/2 NPT	3/4 NPT	0.302" - 32NC	24	5 1/4	125	360
GFXA-800L	32	76	1 1/2 NPT	3/4 NPT	0.302" - 32NC	28	5 1/4	125	475

Note:

- **Tanks are factory pre-charged at 40 psi and field adjustable**
- **California code-sight glass is available upon request**
- **Both top and bottom connections (C and D) access the bladder**
- **Available with mounting clips**

TYPICAL SPECIFICATION

Furnish and install, as shown on plans, a _____ gallon _____" diameter X _____" (high) pre-charged steel hydro-pneumatic pressure tank with heavy-duty butyl bladder. The tank shall have multiple water-side connections to promote full-flow to eliminate stagnate water within the tank, a 0.302"-32 charging valve connection (standard tire valve) to facilitate the on-site charging of the tank to meet system requirements, a pressure gauge, and bladder integrity monitor. The tank must contain a port for proximity sensor monitor. The tank must be constructed in accordance with most recent addendum of Section VIII Division 1 of the ASME Boiler and Pressure Vessel Code, and rated for 125 psig. Each tank shall be Grundfos model number GFXA-_____ or approved equal.