



globalwater
solutions USA

Water Supply

ABOUT

Global Water Solutions USA LLC (GWS USA) is an affiliated company of Global Water Solutions (GWS), one of the world's largest pressure tank and water treatment component manufacturers. Headquartered in Bradenton, Florida, GWS USA was founded to distribute and supply high-quality, affordable products to North America, Central America, Mexico, and the Caribbean.

GWS USA's pressure tank range includes a full line of pressure vessels for different applications. They are available in sizes from 0.5 - 119 gal (2 - 450 L) to accommodate all your requirements.

GWS USA's unique product offering includes its line of single diaphragm tanks with a patented water connection and now includes a pressure tank series with a replaceable, intricate tiered membrane design and a higher maximum pressure rating than most. GWS offers customers flexibility in selecting products for a variety of applications. All of our products undergo a series of rigorous tests to ensure excellent quality. Beyond that, we offer our customers extensive warranties and superior customer support.

GWS has built a global reputation for creating comprehensive and durable solutions to help address the increasing demand for safe and abundant drinking water. The company continues to expand its operations and product range to meet customer needs worldwide.



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Product Applications

PressureWave™

PressureWave™ tanks are designed for a wide range of applications, including water well systems, irrigation systems, VFD-controlled systems, booster systems and water hammer arresting.

PumpWave™

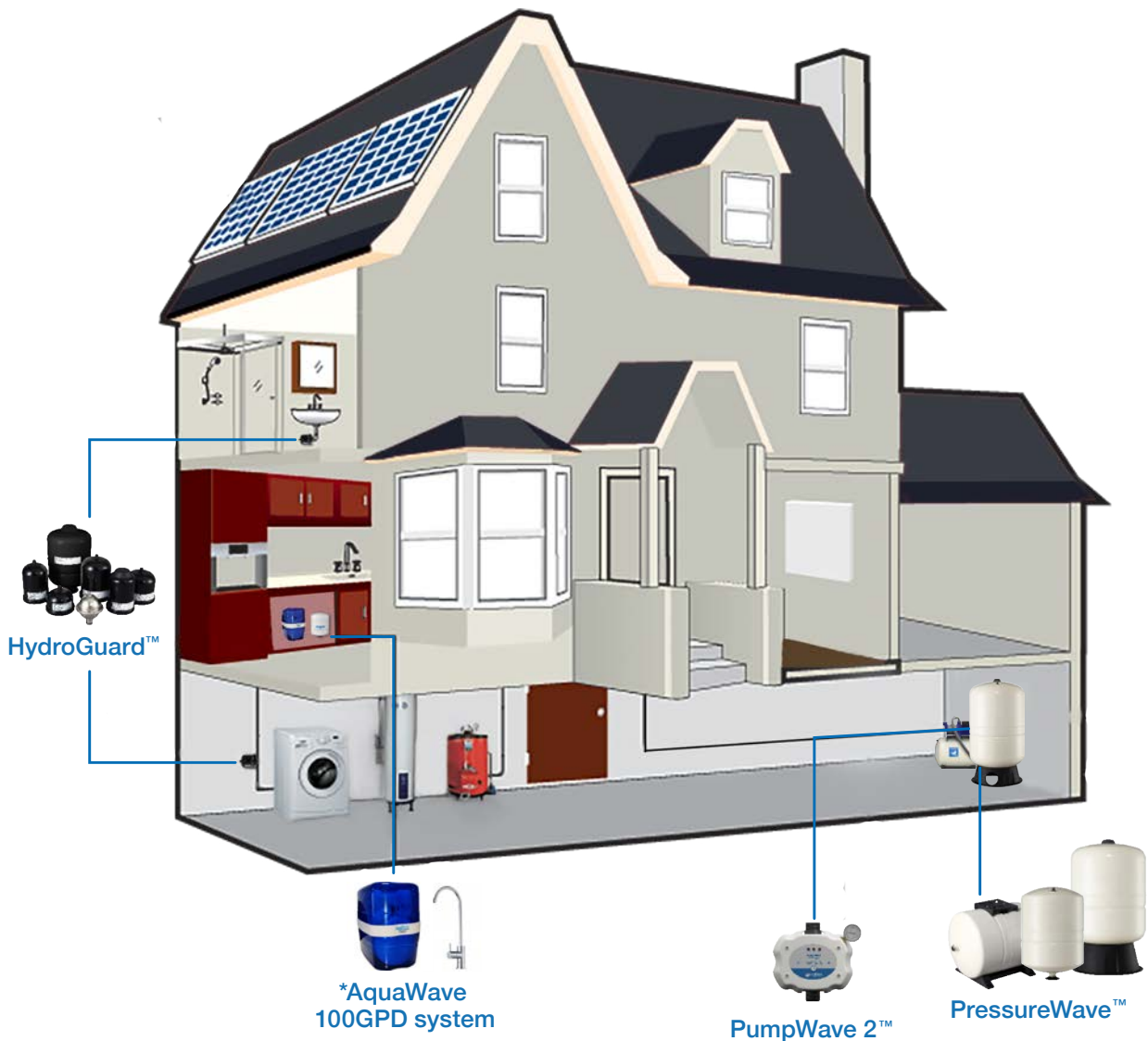
This superior quality pump controller's applications include pressure boosting for residential or small commercial spaces, pump control for gardening, and dry run protection.

Water Treatment Products

*Water treatment products are also available, such as reverse osmosis (RO) systems and RO storage tanks.

HydroGuard™

Shock arrestor tanks suitable for booster systems, plumbing installations, commercial bathrooms and sinks, and solenoid valve protection.



Energy Saving Solutions



Upgrade your pressure tank size and gain the following benefits:

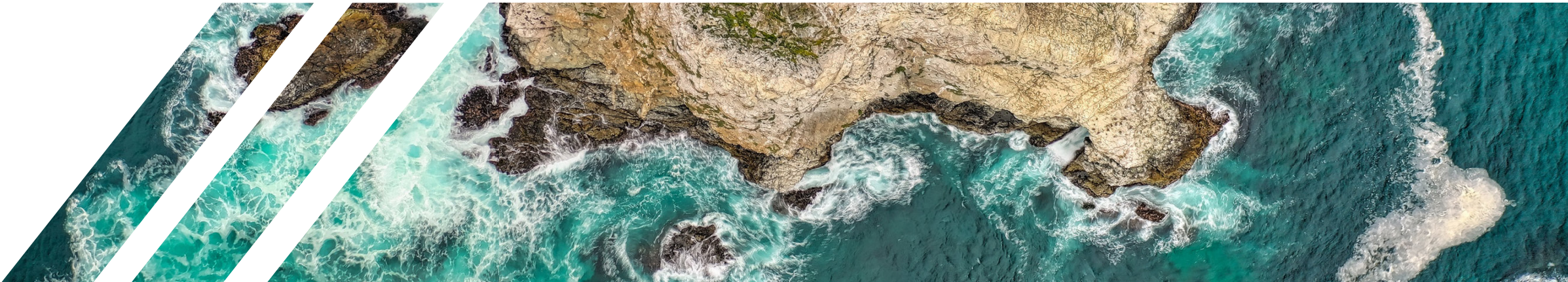
- Substantially reduce electric power consumption by reducing small draw off pump starts, i.e., toilet flushes, washing machine fill-ups, leaks, drip irrigation, etc.
- Extend pump life by dramatically reducing wear on moving parts
- Protect against overheating damage to the pump system
- Reduce disruptive noise from unnecessary pump starts
- Eliminate pump motor burnouts and low-flow cycling
- Eliminate water hammer damage to your system's pump

Minimize your environmental footprint!



Pump Applications

PressureWave™



Features

- Maintenance-free
- Contaminant-free Water Chamber
- Patented Stainless Steel Water Connection
- Leak-Resistant Air Valve
- Durable Rust-Resistant Exterior
- Robust Corrosion-Free Tank Base
- Extensive Application Ability with 150 psi Maximum Working Pressure
- Comprehensive Testing on Every Tank
- NSF/ANSI 61 and NSF/ANSI 372 Certified
- CE/PED, WRAS, ACS, ISO:9001 Approved
- 5-Year Warranty

PressureWave™ tanks are designed for a wide range of applications, including well water systems, irrigation systems, VFD-controlled systems, booster systems, and water hammer arresting. In these applications, the PressureWave™ series maintains contaminant-free pressurized water storage. The PressureWave™ series water storage vessel is constructed of a pure polypropylene liner combined with an FDA approved butyl diaphragm, contributing to the purity of the water storage environment. This FDA approved diaphragm is securely attached to the interior wall of the tank with a steel clench ring, and the diaphragm and liner are both reinforced in specific wear areas for longer life. Water enters the tank through a patented stainless-steel water connection, eliminating contamination and corrosion. This water connection provides a dual water/air seal, ensuring a complete leak-free and maintenance-free pressure vessel. The brass air valve is precision constructed, withstanding high pressures and temperatures, and is resistant to corrosion. All internal parts including the air valve are rounded to prevent piercing of the diaphragm in extreme conditions.

To provide enhanced exterior protection from UV rays and salt spray damage, our almond-colored exterior finish is a two-part polyurethane paint. PressureWave™ tanks are quality tested at several stages on the production line to ensure the structural integrity, performance, and certification compliance of every tank. PressureWave™ tanks represent excellence, the best value for the investment, and are the highest quality pressure vessels available worldwide!

Horizontal Model



Inline Model



Vertical Model

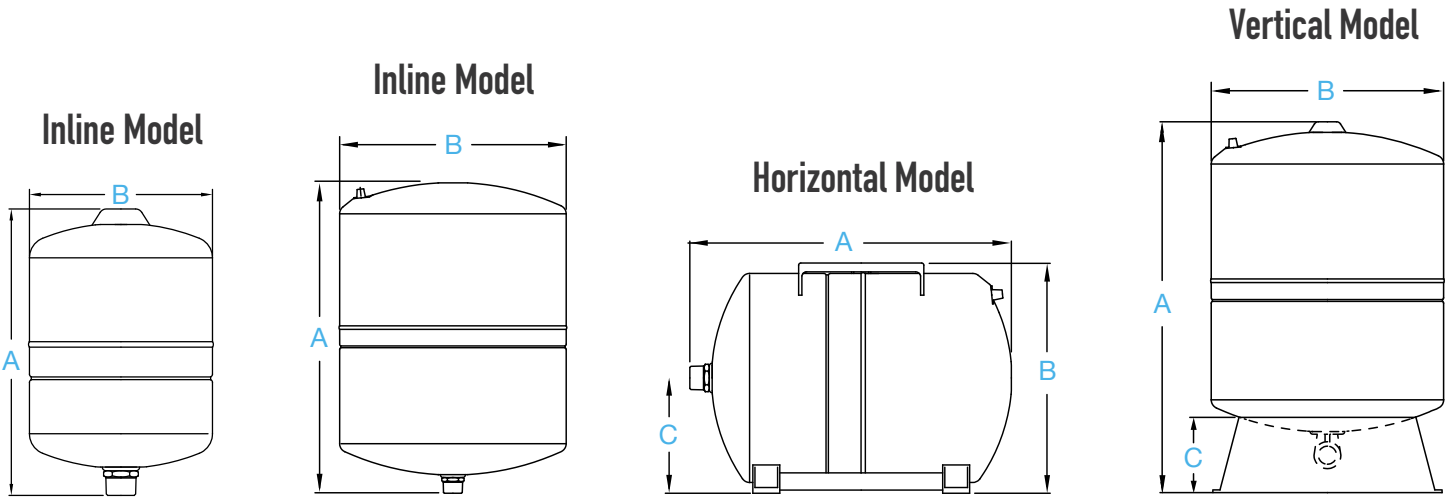


- ① FDA Approved Chlorobutyl Diaphragm
- ② 100% Virgin Polypropylene Liner
- ③ Robust Exterior Paint Finish
- ④ Polypropylene Pump Stand

- ⑤ Patented Stainless Steel Water Connection
- ⑥ Leak-Free Air Valve Cap
- ⑦ Corrosion-Free Stabilizing Base with Mounting Holes

Pump Applications

PressureWave™



Specifications

Materials	Carbon Steel Tank Exterior Polyurethane Paint Finish 100% Chlorobutyl Diaphragm Pure Polypropylene Liner
Volume	0.5 - 40 gal 2 - 150 L
Connection	Standard 1" NPT
Maximum working pressure	150 psi 10 bar
Maximum operating temperature	194°F 90°C
Factory pre-charge	38 psi 2.6 bar

Note: Minor dimensional variations may occur. All connections are stainless steel unless stated otherwise.

Model	Nominal Volume		Net weight		Gross Weight		Dimensions					
							A		B		C	
	gallon	liter	lb	kg	lb	kg	in	cm	in	cm	in	cm
Inline Models												
PWN-US-8LX	2.1	8	4.69	2.13	5.46	2.48	12.32	31.56	7.95	20.20		
PWN-US-12LX	3.2	12	6.01	2.73	7.07	3.21	14.45	36.70	9.06	23.00		
PWN-US-18LX	4.8	18	7.91	3.59	8.97	4.07	14.45	36.70	10.98	27.90		
PWN-US-35LX	9.3	35	14.15	6.42	15.87	7.20	18.90	48.10	12.52	31.80		
Horizontal Models												
PWN-US-20LH	5.3	20	9.56	4.34	11.00	4.99	17.60	44.70	11.57	29.20	5.79	14.50
PWN-US-24LH	6.3	24	11.59	5.26	13.22	6.00	17.60	44.70	12.64	32.10	6.34	16.10
PWN-US-60LH	15.9	60	22.77	10.33	25.37	11.51	20.87	53.00	16.69	42.40	8.46	21.50
PWN-US-80LH	21.1	80	31.83	14.44	35.69	16.19	28.58	72.60	16.69	42.40	8.46	21.50
PWN-US-100LH	26.4	100	38.62	17.52	43.71	19.83	28.35	72.00	18.70	47.50	9.65	24.50
Vertical Models												
PWN-US-60LV	15.9	60	22.95	10.41	24.86	11.28	24.41	62.00	15.31	38.90	5.00	12.70
PWN-US-80LV	21.1	80	32.18	14.60	35.80	16.24	32.09	81.50	15.31	38.90	5.00	12.70
PWN-US-100LV	26.4	100	38.66	17.54	39.50	19.72	31.65	80.40	16.93	43.00	5.08	12.90
PWN-US-130LV	34.3	130	52.77	23.94	58.92	26.73	42.28	107.40	16.93	43.00	5.08	12.90
PWN-US-160LV	42.3	160	67.2	30.47	76.3	34.63	36.38	93.8	16.93	43	5.08	12.90

Electronic Pump Controllers

PumpWave™



The PumpWave™ series is a range of electronic pump controllers ideally suited for domestic water supply in and around the home. PumpWave™ offers complete automatic management of most electric pumps up to 1HP. Both the PumpWave Plus™ and PumpWave 2™ offer efficient pump management, protect against pump dry running, and eliminate frequent small draw-off pump starts due to leaks and low flow pumping applications. It allows the pump to run continuously when water demand is over 0.5 GPM and eliminates the pressure variation typically seen with traditional pressure switch systems. Unlike other electronic pump controllers, the PumpWave Plus™ incorporates a small pressure tank which allows it to prevent short cycling of pumps, thereby extending pump life and saving energy. The process is simple. The PumpWave™ device draws water from the pressure tank until the adjustable start or cut-in pressure is achieved, at which point the pump is switched on and allowed to run until there is no longer any flow within the system.

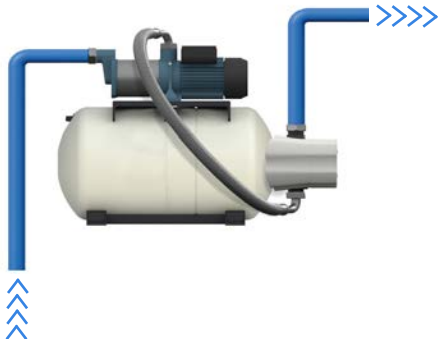
Features

- Eliminates Frequent Small Draw off Pump Starts
- Assures Constant Flow
- Protects Against Pump Dry Run
- Starting Pressure Adjustable from 14.5 to 36.3 PSI | 1 to 2.5 Bar
- LED Status Indicators: Power On, Pump On/Off, and Dry Run Control
- Can Reduce the Need for Larger Tank

PumpWave 2™

For those looking for a customizable system, look no further. The PumpWave 2™ is a standalone pump controller that can be installed in combination with a range of inline and horizontal tanks.

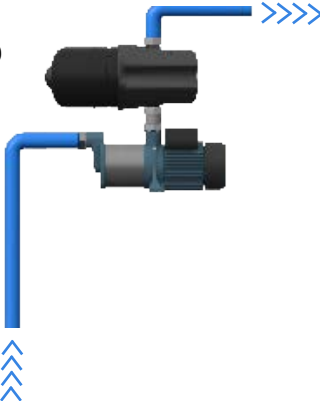
Horizontal	Inline
PWN-US-20LH	PWN-US-8LX
PWN-US-24LH	
PWN-US-60LH	
PWN-US-80LH	
PWN-US-100LH	



PumpWave Plus™

PumpWave Plus™ is a compact solution that combines a pump controller with an integrated 0.79 gallon (3L) pressure tank. It is ideal for applications where space is limited. The PumpWave Plus™ is easy to install as you simply connect it to the pump and the system is ready to go. The PumpWave Plus™ assures a constant flow and provides guaranteed pump dry run protection. Contact a sales representative for more information.

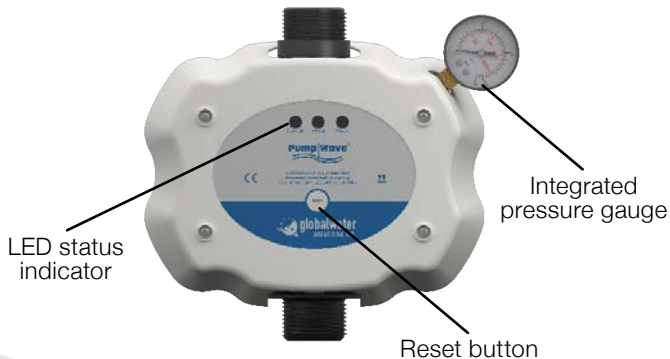
- All-in-one compact system
- Comes with integrated 0.79 gallon (3L) pressure tank



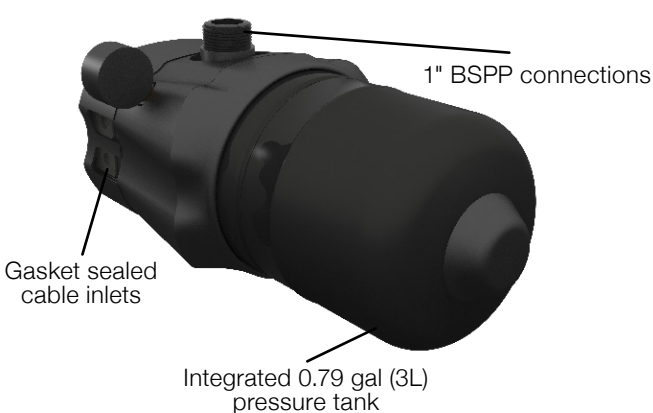
Specifications

	PWP-110B & PWS-110B	PWP-220B & PWS-220B
Supply Voltage	110 V AC	220-240 V AC
Frequency	60 Hz	50/60 Hz
Maximum operating power	0.74 kW (1hp) 10(8)A	1.47 kW (2hp) 10(8)A
Connection	1" BSPP (compatible with NPT)	
Protection level	IP 55	
Maximum pressure	116 psi 8 bar	
Maximum flow rate	26.4 gal/min 100 L/min	
Minimum flow rate	0.4 gal/min 1.5 L/min	
Maximum water temperature	95°F 35°C	
Ambient temperature	32-104°F 0-40°C	
Factory reset cut-in pressure	29 psi 2 bar	

PumpWave 2™



PumpWave Plus™



Hydraulic Shock Arrestors

HydroGuard™



Features

- Maintenance-Free
- FDA Approved Chlorobutyl Diaphragm Design
- Patented Stainless-Steel, Nylon, or Noryl® Water Connection
- Exterior Polyurethane Primed Paint Finish
- Leak-Free, O-Ring Sealed Air Valve Cap
- Comprehensive Testing on Every Arrestor

Model	Connection	Nominal Volume		Net Weight		Gross Weight		Dimensions			
		gallon	liter	lb	kg	lb	kg	A		B	
								in	cm	in	cm
HGNSA-0.16LX	1/2" SS	0.04	0.16	0.66	0.30	0.72	0.33	4.44	11.30	3.34	8.50
HGBSC-0.3LX	1/2" Noryl®	0.08	0.30	0.79	0.36	0.85	0.39	4.05	10.30	3.81	9.70
HGBSC-0.5LX	1/2" Noryl®	0.13	0.50	0.81	0.37	0.88	0.40	5.31	13.50	4.44	11.30
HGBSF-0.6LX	1/2" Noryl®	0.16	0.60	1.14	0.52	1.25	0.57	6.41	16.30	3.81	9.70
HGPSO-1LX	1/2" Nylon	0.26	1.00	1.49	0.68	1.69	0.77	5.62	14.30	5.35	13.60
HGPSR-1LX	1/2" SS	0.26	1.00	1.76	0.80	1.94	0.88	7.75	19.70	4.72	12.00
HGPSO-2LX	3/4" Nylon	0.52	2.00	2.68	1.22	2.91	1.32	6.22	15.80	6.69	17.00
HGNPA-2LX*	1" NPT SS	0.52	2.00	2.29	1.04	2.49	1.13	8.22	20.90	4.96	12.60
HGNPA-4LX*	1" NPT SS	1.05	4.00	3.28	1.49	3.83	1.74	10.27	26.10	6.37	16.20

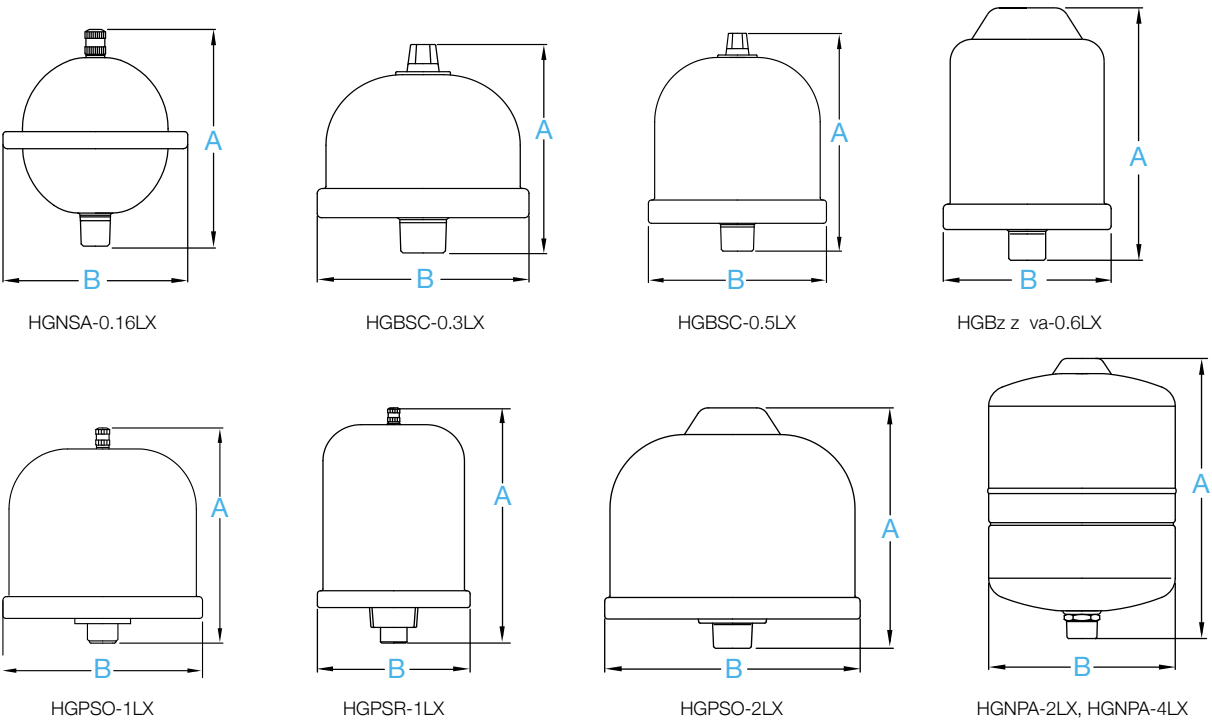
Note: Minor dimensional variation may occur. Maximum working pressure: 150 psi | 10 bar. Maximum operating temperature: 194°F | 90°C.
Factory pre-charge: 15 or 58 psi | 1 or 4 bar.
*Factory pre-charge: 28 psi | 1.9 bar

HydroGuard™ shock arrestors are specially designed for hydraulic hammer arresting applications.

They are built to reduce or eliminate hydraulic shock, otherwise known as water hammer. They do this by absorbing pressure surges within the water or other fluids that are suddenly stopped or forced in other directions by fast closing valves. HydroGuard™ shock arrestors are best used at the point of shock and should be installed as close to the valve or piping where the shock originates.

HydroGuard™ shock arrestors are designed with the latest diaphragm technology. A high-grade butyl diaphragm is sealed inside the vessel creating a barrier between fluid and air chambers. The air chamber acts as a cushion which compresses when system pressure suddenly increases or surges as a result of hydraulic shock. HydroGuard™ shock arrestors are quality tested at several stages along the production line to ensure overall structural integrity.

HydroGuard™ shock arrestors represent the best value for your investment and are the highest quality shock arrestors available in the market!



A wide, horizontal landscape photograph of a serene lake. The lake's surface is calm, reflecting the surrounding greenery and the distant mountains. On the left, a rocky shoreline is partially covered with trees, some of which have bright yellow autumn foliage. The right side of the lake is bordered by a dense forest of tall evergreen trees. In the background, a thick forest of evergreens covers the slopes of mountains, with rugged, rocky peaks visible in the far distance under a clear sky. The image is presented in a wide, horizontal format with diagonal white borders on the left side.



A close-up photograph of a brass T-junction fitting. It has three threaded ports: a large one on the left, a smaller one on the top, and another on the right. The fitting is made of polished brass and is shown against a white background.

5-Way Connector

Pressure Gauges

Pressure Switches

Stainless Steel Flex Connector

Stainless Steel Flex Connector with Elbow



Universal Bracket

Pump Stands

Compatible with
horizontal PressureWave™
series tanks

This image shows a single page of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page, providing a guide for handwriting practice. There are no margins, text, or other markings on the paper.

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Where Water Gets Better



Have questions or need assistance?
Contact us today



www.gwsusa.com



info@gwsusa.com



Toll Free: (833) 261-5461

