Challenger™ SERIES



FEATURES

- Patented CAD-2 diaphragm technology
- NSF Standard 61, CE/PED, WRAS, ACS, ISO-9001, Gost, Evrazes approved
- Stainless steel water connection
- Condensation reducing design
- Two part polyurethane, epoxy primed paint finish
- Leak free air valve cap sealed with closed cell foam
- Comprehensive testing
- No maintenance

Challenger™ tanks are ideally suited for a wide range of applications, including booster systems, thermal expansion, heating expansion, irrigation systems, and hydraulic hammer arresting.

Water Chamber, Patented Controlled Action Design:
Efficient and cost effective, Challenger™ tanks are designed with a patented controlled action CAD-2 diaphragm assembly. It features a chlorine resistant 100% butyl diaphragm with a precision molded copolymer polypropylene liner for superior air and water separation. The CAD-2 diaphragm assembly is clenched together with a positive lock internal clench ring which contains drawdown water in a pre-charged air atmosphere, thus providing separation between the diaphragm and tank wall. This “air buffer” design means few problems with condensation. Constructed with an FDA approved high grade butyl, the diaphragm assembly seals water in a true non-corrosive chamber.

On the exterior, the almond colored two part polyurethane paint finish over an epoxy undercoating provides hundreds of hours of UV and salt spray protection.

The air chamber is sealed with a fixed o-ring and closed cell foam and will provide many years of leak free and service free life. Challenger™ tanks are quality tested at several stages on the production line to insure the structural integrity of every tank. Challenger™ tanks are the best steel pressure vessels in the market today and represent the best value for the investment.

SPECIFICATIONS

Challenger™ Series Models

BSP		NPT		Nominal Volume		Shipping (box) Volume		Shipping (box) Weight		Dimensions							
										A		B		C		D	
Old Part Number	New Part Number	Old Part Number	New Part Number	liter	gal	m³	ft³	kg	lbs	cm	inches	cm	inches	cm	inches	cm	inches
GC60	GCB-60LV	GWI15	GCN-15GV	60	15	0.10	3.65	12.25	27.0	56.52	22.25	40.68	16.02	4.71	1.85	36.22	14.26
GC80	GCB-80LV	GWI20	GCN-20GV	80	20	0.13	4.74	15.20	33.5	74.54	29.35	40.68	16.02	4.71	1.85	36.22	14.26
GC100	GCB-100LV	GWI25	GCN-25GV	100	25	0.16	5.68	19.52	43.0	88.83	34.97	40.68	16.02	4.71	1.85	36.22	14.26
GC130	GCB-130LV	GWI35	GCN-35GV	130	35	0.20	7.08	24.74	54.5	110.09	43.34	40.68	16.02	4.71	1.85	36.22	14.26
GC200	GCB-200LV	GWI50	GCN-50GV	200	50	0.31	10.88	38.10	84.0	104.14	41.00	53.42	21.03	5.70	2.24	44.63	17.57
GC240	GCB-250LV	GWI60	GCN-60GV	240	60	0.37	13.18	43.81	96.5	122.37	48.18	53.42	21.03	5.70	2.24	44.63	17.57
GC310	GCB-300LV	GWI80	GCN-80GV	310	80	0.46	16.25	52.89	116.5	151.07	59.48	53.41	21.03	5.70	2.24	44.63	17.57
GC450	GCB-450LV	GWI120	GCN-120GV	450	120	0.74	26.14	80.81	178.0	153.90	60.59	66.06	26.01	5.70	2.24	54.23	21.35

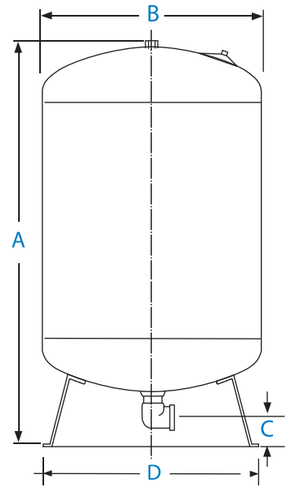
* Minor dimensional variation may occur

System Connection:
Models GCB-60LV - GCB-130LV: 1” BSP stainless steel elbow
Models GCB-200LV – GCB-450LV: 1 1/4” BSP stainless steel elbow
Models GCN-15GV - GCN-35GV: 1” NPT stainless steel elbow
Models GCN-50GV - GCN-120GV: 1 1/4” NPT stainless steel elbow

Please refer to tank packaging for correct factory set pre-charge information.

Maximum working temperature 90°C / 194°F
Maximum working pressure 10 bar / 150 psi





① Leak-Free, O-ring sealed air valve cap
② Two-part polyurethane / epoxy primed paint finish
③ Patented CAD-2 diaphragm design
④ Stainless steel water connection
⑤ Condensation reducing design

ISO:9001 CE ACS Approved WRAS APPROVED PRODUCT PG ГС03 NSF ЕврАзЭС