

Challenger™ SERIES



FEATURES

- Patented CAD2 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 CAD2 diaphragm assembly. It features a chlorine resistant 100% butyl diaphragm with a precision molded copolymer polypropylene liner for superior air and water separation. The CAD2 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.

The stainless steel port diffuser and system connection directs water into the tank agitating it as it enters, in order to suspend debris and solids to prevent clogging the port.

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

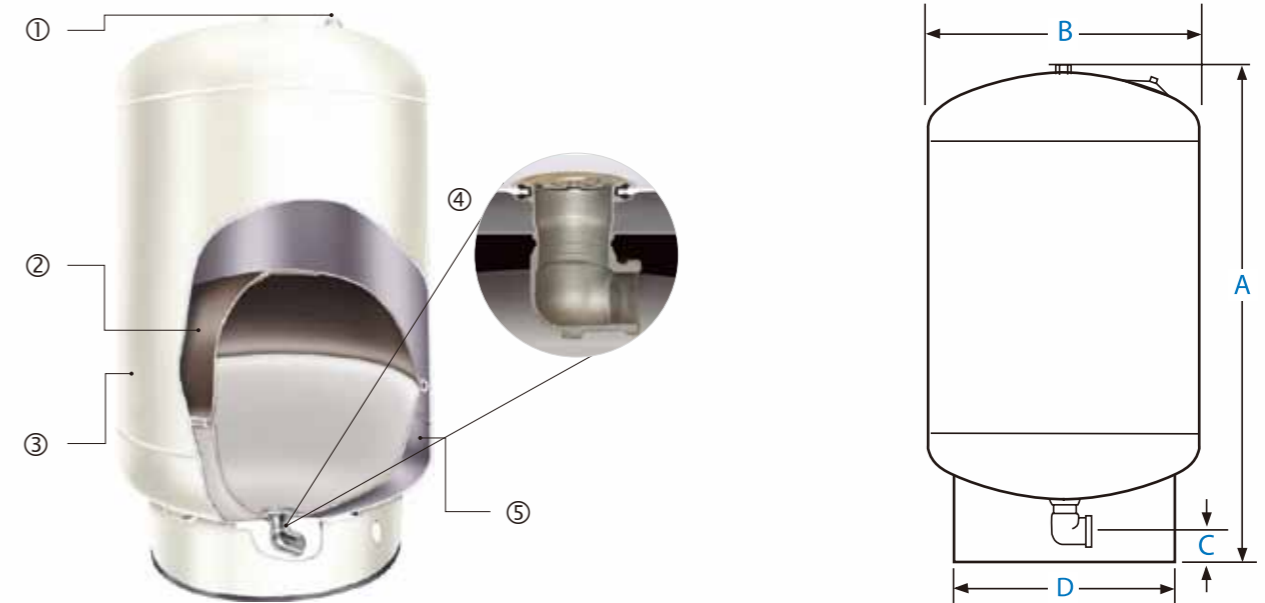
BSP		NPT		Nominal Volume		Shipping (box) Volume		Shipping (box) Weight		Dimensions							
Old Part Number	New Part Number	Old Part Number	New Part Number	liter	gal	cu. M	cu. ft	kilos	lbs	A		B		C		D	
										cm	inches	cm	inches	cm	inches	cm	inches
GC60	GCB-60LV	GW15	GCN-15GV	60	15	0.1	3.65	12.46	27.5	57.1	22.5	40.6	16	4.8	1.9	32.4	12.75
GC80	GCB-80LV	GW120	GCN-20GV	80	20	0.14	4.74	15.4	34	74.9	29.5	40.6	16	4.8	1.9	32.4	12.75
GC100	GCB-100LV	GW125	GCN-25GV	100	25	0.16	5.68	18.57	41	88.9	35	40.6	16	4.8	1.9	32.4	12.75
GC130	GCB-130LV	GW135	GCN-35GV	130	35	0.2	7.08	23.1	51	110.5	43.5	40.6	16	4.8	1.9	32.4	12.75
GC200	GCB-200LV	GW150	GCN-50GV	200	50	0.32	11.21	34.28	75.4	103.3	40.7	53.3	21	6.6	2.6	43.1	17
GC240	GCB-250LV	GW160	GCN-60GV	240	60	0.37	13.18	36.47	80.5	121.2	47.8	53.3	21	5.59	2.2	43.1	17
GC310	GCB-300LV	GW180	GCN-80GV	310	80	0.46	16.25	45.4	100	150	59.1	53.3	21	5.59	2.2	43.1	17
GC450	GCB-450LV	GW120	GCN-120GV	450	120	0.7	26.14	69.31	153	152.9	60.2	66	26	5.59	2.2	54	21.25

System Connection:

- Models GCB-60LV - GCB-130LV: 1" B.S.P. stainless steel elbow
- Models GCB-200LV - GCB-450LV: 1 1/4" B.S.P. stainless steel elbow
- Models GCN-15GV - GCN-35GV: 1" N.P.T. stainless steel elbow
- Models GCN-50GV - GCN-120GV: 1 1/4" N.P.T. stainless steel elbow

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

Maximum working temperature 200° F/90° C
Maximum working pressure 150 psi/10bar



- ① Leak-free, o-ring sealed air valve cap
- ② Patented CAD2 diaphragm design
- ③ Two-part polyurethane/epoxy primed paint finish
- ④ Stainless steel water connection
- ⑤ Condensation reducing design

ISO:9001



ACS Approved

