

Description

Efficient and cost effective, Challenger™ tanks are designed with a patented controlled action double diaphragm assembly. The double diaphragm assembly is clenched together with a positive lock internal clench ring which contains draw down 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 of 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 a closed cell form 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 ensure the structural integrity of every tank.

Design Features

- Patented CAD2 diaphragm technology
- NSF Standard 61, CE/PED, WRAS, ACS, Evrazes, ISO:9001 & Govt. approved
- Stainless steel water connection
- Condensation reducing design
- Two part polyurethane, epoxy primed paint finish
- Leak free air valve cap sealed with closed cell form
- Comprehensive testing
- Low on maintenance

Applications

Challenger™ tanks are ideally suited for a wide range of applications, including:

- Booster systems
- Thermal expansion
- Heating expansion
- Irrigation systems
- Hydraulic hammer arresting
- Fire Fighting



Technical Specifications



System Connection	1/4" BSP Stainless steel elbow
Maximum Working Pressure	150 psi/ 10bar
Maximum Working Temperature	194°F/90°C
Standard Precharge	1.4 bar

Product Details

Old Part Number	BSP New Part Number	Nominal Volume		Shipping (Box) Volume		Shipping (Box) Weight		Dimensions							
								A		B		C		D	
		liters	gal	m1	ft3	kg	lbs	cm	inches	cm	inches	cm	Inches	cms	inch
GC-60	GCB-60LV	60	15	0.10	3.65	12.25	27.00	56.52	22.25	40.68	16.02	4.71	1.85	36.22	14.26
GC-80	GCB-80LV	80	20	0.13	4.74	15.20	33.50	74.54	29.35	40.68	16.02	4.71	1.85	36.22	14.26
GC-100	GCB-100LV	100	25	0.16	5.68	19.52	43.00	88.83	34.97	40.68	16.02	4.71	1.85	36.22	14.26
GC-130	GCB-130LV	130	35	0.20	7.08	24.74	54.50	110.09	43.34	40.68	16.02	4.71	1.85	36.22	14.26
GC-200	GCB-200LV	200	50	0.31	10.88	38.10	84.00	104.14	41.00	53.42	21.03	5.70	2.24	44.63	17.57
GC-250	GCB-250LV	240	60	0.37	13.18	43.81	96.50	122.37	48.18	53.42	21.03	5.70	2.24	44.63	17.57
GC-300	GCB-300LV	310	80	0.46	16.25	52.89	116.50	151.07	59.48	53.41	21.03	5.70	2.24	44.63	17.57
GC-450	GCB-450LV	450	120	0.74	26.14	80.81	178.00	153.90	60.59	66.06	26.01	5.70	2.24	54.23	21.35

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