

1 General description

The KCA bladder tank together with KCA ratio controllers, form a balanced pressure proportioning system used to mix water and firefighting foam concentrate together to produce an effective extinguishing medium. The bladder tank technology is a dependable and precise mixing method that is widespread in the fixed fire protection market.

This method gives a stable water/foam ratio by adjusting automatically to the variable flow rate and pressure conditions that occur during system operation. This feature makes bladder tanks particularly suitable to fit multiple hazard systems, sprinkler systems and any other systems operating under variable, non-predictable flow and pressure conditions.

The KCA bladder tank is a carbon steel pressure vessel containing an elastomeric bladder between the water and foam concentrate. The bladder permits water pressure to be transferred to the foam concentrate without the two fluids mixing together.

This Technical Data is intended for trained experts. It contains basic information needed to use the product described. Legally binding is the product operation and maintenance manual which must be observed.

Technical Data may be found on the KCA website <http://www.kcantincendi.com> and may include a more recent edition of this Technical Data.

For further information, please contact KCA or refer to the technical documentation. The contents of this publication are subject to modifications without notice.

2 Listings and approvals

The KCA bladder tank is FM Approved and/or UL Listed as part of a fire extinguishing system combining designated foam concentrates, Model KFP ratio controllers, Model KBP ILBP's and discharge devices. Approved and Listed system components can be found at www.approvalguide.com and www.database.UL.com.

- FM Approved – Low Expansion Foam Systems (FM5130)
- UL Listed – Guide GFGV and GHXV (UL162)
- Manufactured according to ASME Sec. VIII Div.1 or EN13445
- CE marked according to the PED Directive 97/23/EC (Europe Only)
- Fire Safety Certified for Russian Federation territory CTP (formally GOST)
- ASME "U" Stamp available on request with additional charge



NOTICE

Other International approval certificates may be available upon request

3 Technical data

3.1 Construction features

- Vertical tanks on legs or horizontal tanks on saddles
- Legs and saddles are provided with ground fixing holes
- Approved system design pressure of 175 PSI (12.1 bar) or 232 PSI (16.0 bar)
- 100% pressure tested according to the applied design code
- Shell and heads in ASTM A516 Gr. 70 or EN10028-3 P275NH/P355NH
- Lockable corrosion resistant nickel covered brass tank trim/service ball valves (UL Listed / FM Approved)
- Inspection flange available on left or right side of horizontal tanks (left as standard)
- Machine welded circumferential and longitudinal seams for maximum quality and durability
- Welded lifting lugs to facilitate safe handling operations
- Earth lug for electrical safety
- Safety thermal valve on water side of bladder to prevent slow overpressure and relieve thermal fluctuations
- Bladder equipped with cast rubber caps to ensure water & foam integrity under constant pressure
- Bladder specifically tested for compatibility with foams shown in FM Approval and UL Listing
- Oversized to permit concentrate thermal expansion (volume expansion allowance)
- Tank equipped with inside protection at any opening to ensure no damage to the bladder
- Internal PVC foam concentrate distribution pipe ensures optimal foam concentrate usage
- Internal water distribution channel to equalize the water pressure everywhere avoiding damage to the bladder and to drain the tank during service and maintenance
- Nameplate holder to avoid undetected corrosion on the tank's shell behind the plate
- Analog level indicator or classic sight tube (specify at point of order)
- External epoxy zinc rich primer with aliphatic polyurethane finish tested by FM and UL for corrosive atmosphere (salt fog).

3.2 Standard materials

Tank shell and heads:	ASTM A516 Gr. 70 or P275NH to EN10028-3 or P355NH to EN10028-3
Bladder:	polyester reinforced hypalon-neoprene polymers
Trim valves:	nickel coated brass
Safety thermal relief valve:	brass
Pressure gauges:	stainless steel
Level indicator:	Hydrometer: Stainless Steel or Sight Tube: PVC
Paint:	epoxy zinc rich primer with aliphatic polyurethane finish
Standard colour:	RAL3000 Red
Flange material:	ASTM A105
Flange Connection:	ANSI B16.5 Class 150

Table 3.2.1 - Standard materials

3.3 Standard design specifications

Design pressure:	175 PSI / 12.1 bar (1.2MPa) or 232 PSI / 16.0 bar (1.6MPa)
Operating temperature range:	35F to 120F (1.7C to 49C)
Capacity:	see tables
Empty weight:	see tables
Proportioning range:	see ratio controller data sheet
(*) Further temperature limitations come from foam concentrate and water.	

Table 3.3.1 - Standard design specifications

3.4 Ordering information

The following information is provided to ensure that the correct design requirements are given to KCA during the order and manufacturing process. Mandatory information is required in every case. Optional information is required in case of special project or specification requirements. Pre-assembled Bladder Tank information is required when the bladder tank will be supplied pre-piped including the Model KFP Ratio Controller.

	Ref	Criteria	Option
Mandatory Information (required for quote order processing)	1a	Configuration	a) Vertical b) Horizontal c) Twin Vertical
	1b	Capacity	a) 25 to 4000 US Gallons Vertical b) 50 to 5250 US Gallons Horizontal (see tables for available sizes)
	1c	Design Code	a) EN13445, b) ASME Sec. VIII Div.1 c) ASME Sec. VIII Div.1 with "U" Stamp (*)
	1d	Standby Pressure Rating	a) 175 PSI / 12.1 bar (1.2MPa) b) 232 PSI / 16.0 bar (1.6MPa)
	1e	Inspection Flange	a) Left b) Right (required for Horizontal Tanks only)
	1f	Level Indicator	a) Sight Tube b) Level gauge
Optional	2a	Design Temperature	Contact technical department
	2b	Corrosion Allowance	Contact technical department
	2c	Radiographic test report (*)	Contact technical department
	2d	Liquid penetrant test report (*)	Contact technical department
Pre-Assembled with Ratio Controller (*)	3a	Ratio Controller Size(s)	2", 2.5", 3", 4", 6", 8"
	3b	Direction of flow	a) Left to right b) Right to left (direction of flow as you face the tank)
	3c	Water Line Piping	a) Carbon Steel
	3d	Foam Line Piping	a) Carbon Steel b) Stainless Steel
	3e	Foam Concentrate Type	a) AFFF 1% Ultra LT C6 b) AFFF 3% S C6 c) ARC 3X3S C6
	3f	Concentrate Control Valve	Viking Halar CCV (FM UL) or Hydraulic Ball Valve
(*) With additional cost			

Table 3.4.1 - Ordering information

INFORMATION

Some of the available options may be not covered by the UL Listing or FM Approval. Please always make reference to the appropriate approval directory or guides or contact KCA for further assistance.

4 Scope of delivery

Ensure that all components are complete and in good condition.

The Bladder Tank is supplied in or on a suitable wooden pallet skid or shipping crate in the horizontal position.

All Bladder Tanks have lifting lugs to allow safe maneuverability on site.

Tank is supplied empty with pre-installed bladder.

Small trim valves and contents level device are supplied pre-assembled to the tank as standard.

Safety thermal relief valve supplied as standard according to design code selected.

Anchor fixing bolts are not part of our supply scope.

Standard Documentation	Optional Documentation *
Warranty Certificate	Dimensional Drawings
PED Declaration or Conformity	Material Certificates Type 3.1 to EN10204
Safety Thermal Relief Valve Declaration of Conformity	Certificate of Conformity Type 2.1 to EN10204
Hydrostatic Pressure Test Certificate	Design Structural Calculations
Bladder Pneumatic Test Certificate	Spot or Full Radiographic Examination with Report (when not mandatorily required by design parameters)
Painting Inspection Certificate	Spare Parts List
Final Inspection Certificate	Copy of Procedure Qualification Record (PQR) and Welding Procedure Specification (WPS) according to tank construction code
Operating, Filling and Maintenance Manual (English)	Operating, Filling and Maintenance Manual (Language)
(*) Contact KCA for further information and price.	

Table 4.1.1 - Documentation

5 Availability

Please contact KCA for further information.

The product is available directly from KCA and official distributors only.

6 Product variants

6.1 Options

- Pre-Assembled with Ratio Controller and water/foam pipe work
- Twin tank configurations
- Special coatings for salt-water applications or harsh environmental conditions
- Nameplate in corrosion resistant material
- Increased wall thickness for corrosion allowance
- 233 PSI /16.1 bar (1.6MPa) design pressure rating with UL Listing and FM Approval
- Other design pressure and seismic ratings
- Ladders | Work Platform | Sunshield
- Full bladder tank stainless steel construction
- Heat tracing and/or insulation
- Bladder tank pre-installed on base frame or containerized to customer requirements
- Various colors and painting cycles with UL Listing and FM Approval (120-300 microns).
- Nondestructive examinations
- Factory acceptance test, notified body or third party inspections
- Special sea freight and fumigated packaging

Please contact KCA for further details, pricing and availability

INFORMATION

Note that some product options may not be covered by the FM Approval or UL Listing. Please contact KCA for clarification.

Vertical & Horizontal Bladder Tank

Foam Storage Devices | Model MXC

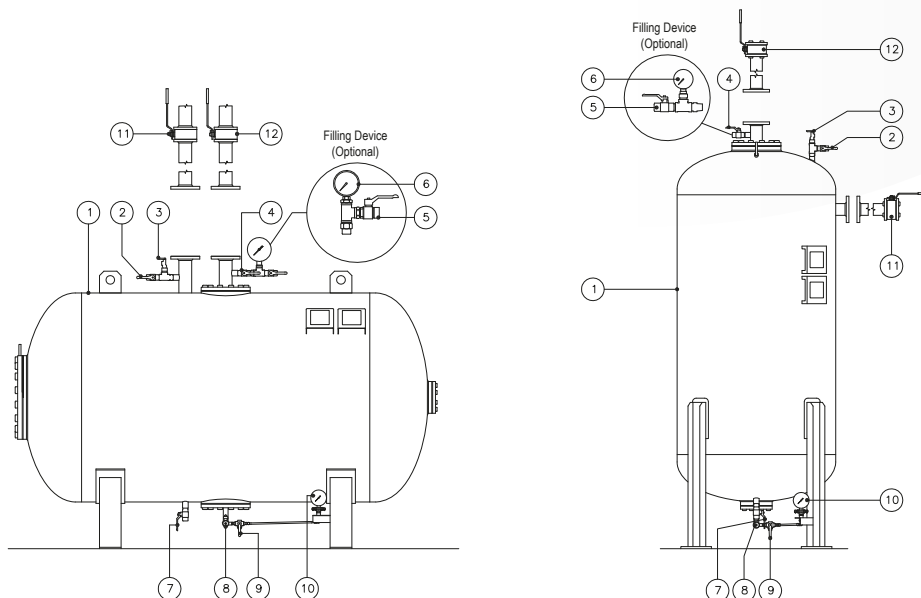


Figure 6.2.1 - General bladder tank layout and P&ID

Item	Description	Item	Description
1	Bladder Tank	7	Water Filling/Drain Valve (NPT)
2	Water Vent Valve (NPT)	8	Foam Concentrate Filling/Drain Valve (NPT)
3	Safety Thermal Relief Valve	9	Concentrate Level Indicator Drain Valve
4	Foam Concentrate Vent Valve (NPT)	10	Concentrate Level Indicator (alternative: sight tube)
5	Filling Vent Valve (Optional)	11	Water Shut Off Valve (to be ordered separately)
6	Filling Pressure Gauge 1-10 kpa (Optional)	12	Foam Concentrate Shut Off Valve (to be ordered separately)

Note: Item 10 shown with Level Gauge. Sight Tube also available and connected at position 10.

Table 6.2.2 - General bladder tank layout and P&ID

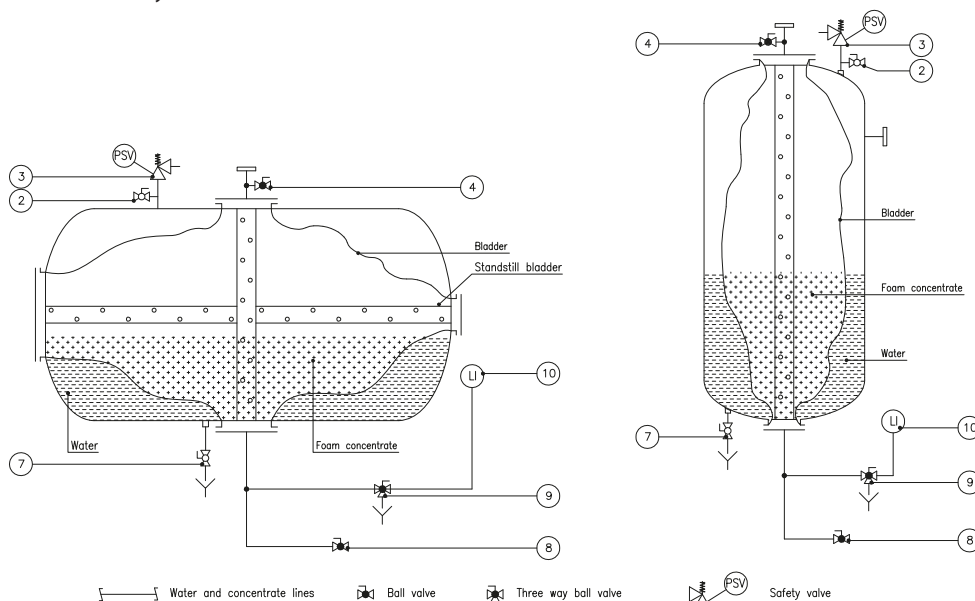


Table 6.2.3 - General bladder tank layout and P&ID

6.2 General bladder tank layout and P&ID

Vertical & Horizontal Bladder Tank

Foam Storage Devices | Model MXC

6.3 Dimensions

Figure 6.3.1 - Vertical Bladder Tank:
25 to 200 US gallons

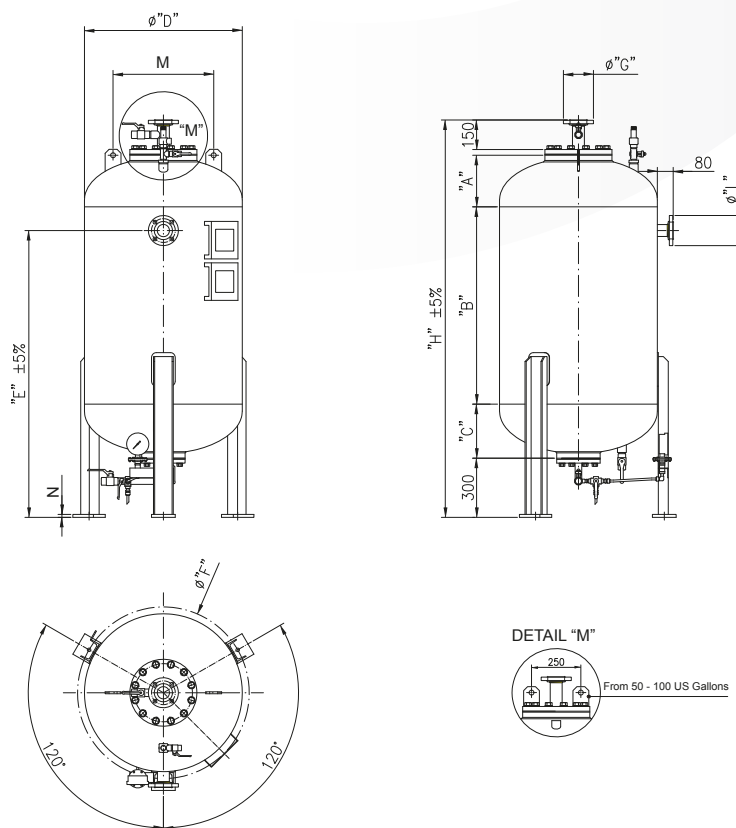
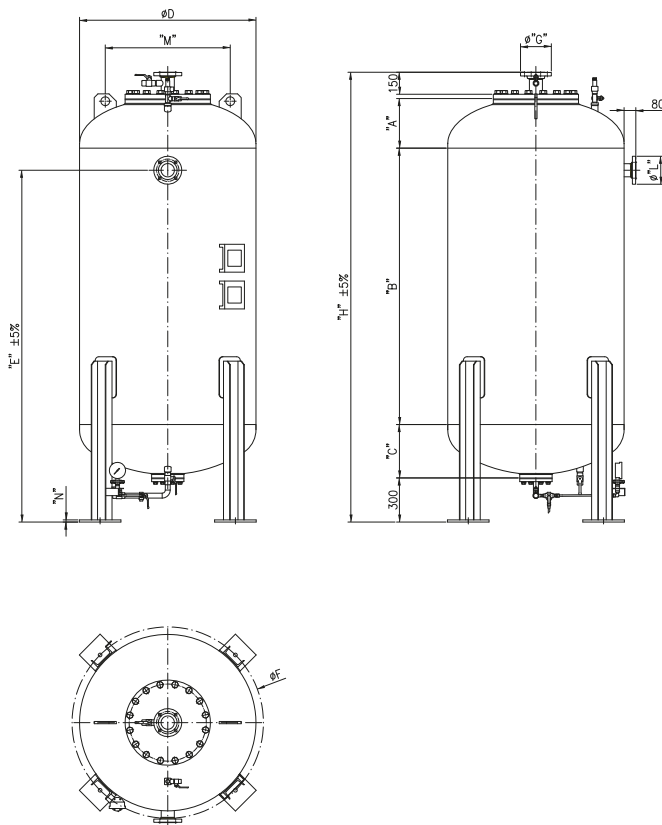


Figure 6.3.2 - Vertical Bladder Tank:
250 to 4000 US gallons



Vertical & Horizontal Bladder Tank

Foam Storage Devices | Model MXC

Part Number EN13445 Design Code		Capacity		Weight		A	B	C	ØD	E	ØF	ØG	H	ØL	M	N
175 PSI / 12.1 bar	232 PSI / 16.0 bar	USG	Litres	LBS	KG	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm
MXCV0025GF	MXCV0025GF-16	25	100	199	90	6.4	15.7	7.0	19.7	30.2	22.4	2	48.1	2	9.8	0.6
						163	400	178	500	768	570	50	1221	50	250	15
MXCV0036GF	MXCV0036GF-16	36	150	287	130	6.4	23.6	7.0	19.7	38.1	22.4	2	55.9	2	9.8	0.6
						163	600	178	500	968	570	50	1421	50	250	15
MXCV0050GF	MXCV0050GF-16	50	200	375	170	7.4	27.6	8.0	23.6	44.5	26.4	2	61.8	2	9.8	0.6
						187	700	203	600	1130	670	50	1570	50	250	15
MXCV0075GF	MXCV0075GF-16	75	300	408	185	7.4	35.4	8.0	23.6	44.5	26.4	2	69.7	2	9.8	0.6
						187	900	203	600	1130	670	50	1770	50	250	15
MXCV0100GF	MXCV0100GF-16	100	400	475	215	7.4	49.2	8.0	23.6	64.6	26.4	2	83.4	2	9.8	0.59
						187	1250	203	600	1640	670	50	2120	50	250	15
MXCV0150GF	MXCV0150GF-16	150	600	784	355	10.3	39.4	10.8	31.5	57.1	34.3	2	79.4	2	9.8	0.6
						262	1000	274	800	1450	870	50	2016	50	510	15
MXCV0200GF	MXCV0200GF-16	200	775	861	390	10.3	51.2	10.8	31.5	57.1	34.3	2	91.2	2	9.8	0.6
						262	1300	274	800	1450	870	50	2316	50	510	15
MXCV0250GF	MXCV0250GF-16	250	1000	905	410	12.9	39.4	13.2	39.4	59.7	42.6	2.5	84.3	2.5	24.0	0.6
						327	1000	336	1000	1516	1082	65	2142	65	610	15
MXCV0300GF	MXCV0300GF-16	300	1250	1033	468	12.9	51.2	13.2	39.4	71.5	42.6	2.5	96.1	2.5	24.0	0.6
						327	1300	336	1000	1816	1082	65	2442	65	610	15
MXCV0350GF	MXCV0350GF-16	350	1350	1077	488	12.9	55.1	13.2	39.4	75.4	42.6	2.5	100.1	2.5	24.0	0.6
						327	1400	336	1000	1916	1082	65	2542	65	610	15
MXCV0400GF	MXCV0400GF-16	400	1500	1115	505	12.9	65.0	13.2	39.4	85.3	42.6	2.5	109.9	2.5	24.0	0.6
						327	1650	336	1000	2166	1082	65	2792	65	610	15
MXCV0450GF	MXCV0450GF-16	450	1750	1435	650	13.0	59.1	13.3	43.3	79.4	46.5	2.5	104.1	2.5	24.0	0.6
						329	1500	337	1100	2017	1181	65	2645	65	610	15
MXCV0500GF	MXCV0500GF-16	500	2000	1578	715	13.0	70.9	13.3	43.3	91.2	46.5	2.5	115.9	2.5	24.0	0.6
						329	1800	337	1100	2317	1181	65	2945	65	610	15
MXCV0600GF	MXCV0600GF-16	600	2250	1943	880	13.0	65.0	14.5	47.2	84.6	51.2	3	110.5	3	33.5	0.6
						330	1650	368	1200	2148	1300	80	2807	80	850	15
MXCV0700GF	MXCV0700GF-16	700	2600	2141	970	14.1	65.0	15.5	51.2	86.4	55.3	3	113.4	3	33.5	0.6
						358	1650	394	1300	2194	1405	80	2881	80	850	15
MXCV0800GF	MXCV0800GF-16	800	3000	2274	1030	14.1	78.7	15.5	51.2	100.2	55.3	3	127.2	3	33.5	0.6
						358	2000	394	1300	2544	1405	80	3231	80	850	15
MXCV0900GF	MXCV0900GF-16	900	3500	2947	1335	15.3	78.7	16.5	55.1	100.0	59.3	3	129.4	3	36.6	0.6
						388	2000	420	1400	2540	1505	80	3287	80	930	15
MXCV1000GF	MXCV1000GF-16	1000	3750	2837	1285	15.8	74.8	17.1	57.1	96.6	61.2	3	126.6	3	36.6	0.6
						402	1900	434	1450	2454	1555	80	3215	80	930	15
MXCV1100GF	MXCV1100GF-16	1100	4000	2991	1355	15.8	82.7	17.1	57.1	104.5	61.2	3	134.4	3	36.6	0.6
						402	2100	434	1450	2654	1555	80	3415	80	930	15
MXCV1200GF	MXCV1200GF-16	1200	4500	3223	1460	16.4	82.7	17.6	59.1	105.0	63.2	3	135.5	3	37.4	0.6
						416	2100	447	1500	2667	1605	80	3442	80	950	15
MXCV1300GF	MXCV1300GF-16	1300	5000	3709	1680	17.4	78.7	18.5	63.0	102.0	67.1	3	133.6	3	41.3	0.6
						443	2000	471	1600	2591	1705	80	3393	80	1050	15
MXCV1400GF	MXCV1400GF-16	1400	5500	3929	1780	17.4	88.6	18.5	63.0	111.9	67.1	3	143.4	3	41.3	0.6
						443	2250	471	1600	2841	1705	80	3643	80	1050	15
MXCV1500GF	MXCV1500GF-16	1500	5750	4437	2010	19.6	74.8	20.6	68.9	100.1	73.2	3	133.8	3	45.3	0.6
						497	1900	522	1750	2542	1860	80	3398	80	1150	15
MXCV1600GF	MXCV1600GF-16	1600	6000	4547	2060	19.6	78.7	20.6	68.9	104.0	73.2	3	137.7	3	45.3	0.6
						497	2000	522	1750	2642	1860	80	3498	80	1150	15
MXCV1700GF	MXCV1700GF-16	1700	6500	4614	2090	20.5	78.7	21.5	70.9	103.4	75.2	3	139.6	3	45.3	0.6
						521	2000	547	1800	2627	1910	80	3547	80	1150	15
MXCV1800GF	MXCV1800GF-16	1800	6750	4669	2115	22.6	59.1	23.5	78.7	88.5	83.5	3	121.3	3	51.2	0.8
						575	1500	598	2000	2248	2120	80	3082	80	1300	20
MXCV1900GF	MXCV1900GF-16	1900	7000	4801	2175	22.6	63.0	23.5	78.7	92.4	83.5	3	125.3	3	51.2	0.8
						575	1600	598	2000	2348	2120	80	3182	80	1300	20
MXCV2000GF	MXCV2000GF-16	2000	7500	4989	2260	22.6	68.9	23.5	78.7	98.3	83.5	3	131.2	3	51.2	0.8
						575	1750	598	2000	2498	2120	80	3332	80	1300	20
MXCV2200GF	MXCV2200GF-16	2200	8500	5651	2560	22.6	82.7	23.5	78.7	112.1	83.5	3	145.0	3	51.2	0.8
						575	2100	598	2000	2848	2120	80	3682	80	1300	20
MXCV2400GF	MXCV2400GF-16	2400	9000	5850	2650	22.6	88.6	23.5	78.7	119.2	83.5	3	150.9	3	51.2	0.8
						575	2250	598	2000	3028	2120	80	3832	80	1300	20
MXCV2600GF	MXCV2600GF-16	2600	10000	6038	2735	22.6	102.4	23.5	78.7	131.8	83.5	3	164.6	3	51.2	0.8
						575	2600	598	2000	3348	2120	80	4182	80	1300	20
MXCV2800GF	MXCV2800GF-16	2800	11000	6623	3000	22.6	114.2	23.5	78.7	143.6	83.5	3	176.5	3	51.2	0.8
						575	2900	598	2000	3648	2120	80	4482	80	1300	20
MXCV3000GF	MXCV3000GF-16	3000	11500	6876	3115	22.6	122.0	23.5	78.7	151.5	83.5	3	184.3	3	51.2	0.8
						575	3100	598	2000	3848	2120	80	4682	80	1300	20
MXCV3200GF	MXCV3200GF-16	3200	12250	7351	3330	22.6	133.9	23.5	78.7	163.3	83.5	3	196.1	3	51.2	0.8
						575	3400	598	2000	4148	2120	80	4982	80	1300	20
MXCV3400GF	MXCV3400GF-16	3400	13000	7726	3500	22.6	145.7	23.5	78.7	175.1	83.5	3	208.0	3	51.2	0.8
						575	3700	598	2000	4448	2120	80	5282	80	1300	20
MXCV3600GF	MXCV3600GF-16	3600	13750	7925	3590	22.6	151.6	23.5	78.7	181.0	83.5	3	213.9	3	51.2	0.8
						575	3850	598	2000	4598	2120	80	5432	80	1300	20
MXCV3800GF	MXCV3800GF-16	3800	14000	8366	3790	22.6	165.4	23.5	78.7	194.8	83.5	3	227.6	3	51.2	0.8
						575	4200	598	2000	4948	2120	80	5782	80	1300	20
MXCV4000GF	MXCV4000GF-16	4000	15000	8609	3900	22.6	173.2	23.5	78.7	202.7	83.5	3	235.5	3	51.2	0.8
						575	4400	598	2000	5148	2120	80	5982	80	1300	20

Table 6.3.3 - Dimensions of Vertical Bladder Tanks (EN13445 Design Code)

Vertical & Horizontal Bladder Tank

Foam Storage Devices | Model MXC

Bladder Tank : ASME Sec VIII Design Code		Capacity		Weight		A	B	C	ØD	E	ØF	ØG	H	ØL	M	N
175 PSI / 12.1 bar	232 PSI / 16.0 bar	USG	Litres	LBS	KG	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm
MXCV0025GAF	MXCV0025GAF-16	25	100	221	100	6.4 163	15.7 400	7.0 178	19.7 500	30.2 768	22.4 570	2 50	48.1 1221	2 50	9.8 250	0.6 15
MXCV0036GAF	MXCV0036GAF-16	36	150	309	140	6.4 163	23.6 600	7.0 178	19.7 500	38.1 968	22.4 570	2 50	55.9 1421	2 50	9.8 250	0.6 15
MXCV0050GAF	MXCV0050GAF-16	50	200	411	186	7.4 187	27.6 700	8.0 203	23.6 600	44.5 1130	26.4 670	2 50	61.8 1570	2 50	9.8 250	0.6 15
MXCV0075GAF	MXCV0075GAF-16	75	300	450	204	7.4 187	35.4 900	8.0 203	23.6 600	44.5 1130	26.4 670	2 50	69.7 1770	2 50	9.8 250	0.6 15
MXCV0100GAF	MXCV0100GAF-16	100	400	528	239	7.4 187	49.2 1250	8.0 203	23.6 600	64.6 1640	26.4 670	2 50	83.4 2120	2 50	9.8 250	0.59 15
MXCV0150GAF	MXCV0150GAF-16	150	600	850	385	10.3 262	39.4 1000	10.8 274	31.5 800	57.1 1450	34.3 870	2 50	79.4 2016	2 50	9.8 510	0.6 15
MXCV0200GAF	MXCV0200GAF-16	200	775	938	425	10.3 262	51.2 1300	10.8 274	31.5 800	57.1 1450	34.3 870	2 50	91.2 2316	2 50	9.8 510	0.6 15
MXCV0250GAF	MXCV0250GAF-16	250	1000	940	426	12.9 327	39.4 1000	13.2 336	39.4 1000	59.7 1516	42.6 1082	2.5 65	84.3 2142	2.5 65	24.0 610	0.6 15
MXCV0300GAF	MXCV0300GAF-16	300	1250	1091	494	12.9 327	51.2 1300	13.2 336	39.4 1000	71.5 1816	42.6 1082	2.5 65	96.1 2442	2.5 65	24.0 610	0.6 15
MXCV0350GAF	MXCV0350GAF-16	350	1350	1113	504	12.9 327	55.1 1400	13.2 336	39.4 1000	75.4 1916	42.6 1082	2.5 65	100.1 2542	2.5 65	24.0 610	0.6 15
MXCV0400GAF	MXCV0400GAF-16	400	1500	1150	521	12.9 327	65.0 1650	13.2 336	39.4 1000	85.3 2166	42.6 1082	2.5 65	109.9 2792	2.5 65	24.0 610	0.6 15
MXCV0450GAF	MXCV0450GAF-16	450	1750	1823	826	13.0 329	59.1 1500	13.3 337	43.3 1100	79.4 2017	46.5 1181	2.5 65	104.1 2645	2.5 65	24.0 610	0.6 15
MXCV0500GAF	MXCV0500GAF-16	500	2000	2004	908	13.0 329	70.9 1800	13.3 337	43.3 1100	91.2 2317	46.5 1181	2.5 65	115.9 2945	2.5 65	24.0 610	0.6 15
MXCV0600GAF	MXCV0600GAF-16	600	2250	2267	1027	13.0 330	65.0 1650	14.5 368	47.2 1200	84.6 2148	51.2 1300	3 80	110.5 2807	3 80	33.5 850	0.6 15
MXCV0700GAF	MXCV0700GAF-16	700	2600	2514	1139	14.1 358	65.0 1650	15.5 394	51.2 1300	86.4 2194	55.3 1405	3 80	113.4 2881	3 80	33.5 850	0.6 15
MXCV0800GAF	MXCV0800GAF-16	800	3000	2695	1221	14.1 358	78.7 2000	15.5 394	51.2 1300	100.2 2544	55.3 1405	3 80	127.2 3231	3 80	33.5 850	0.6 15
MXCV0900GAF	MXCV0900GAF-16	900	3500	3907	1770	15.3 388	78.7 2000	16.5 420	55.1 1400	100.0 2540	59.3 1505	3 80	129.4 3287	3 80	36.6 930	0.6 15
MXCV1000GAF	MXCV1000GAF-16	1000	3750	3583	1623	15.8 402	74.8 1900	17.1 434	57.1 1450	96.6 2454	61.2 1555	3 80	126.6 3215	3 80	36.6 930	0.6 15
MXCV1100GAF	MXCV1100GAF-16	1100	4000	3764	1705	15.8 402	82.7 2100	17.1 434	57.1 1450	104.5 2654	61.2 1555	3 80	134.4 3415	3 80	36.6 930	0.6 15
MXCV1200GAF	MXCV1200GAF-16	1200	4500	3817	1729	16.4 416	82.7 2100	17.6 447	59.1 1500	105.0 2667	63.2 1605	3 80	135.5 3442	3 80	37.4 950	0.6 15
MXCV1300GAF	MXCV1300GAF-16	1300	5000	4276	1937	17.4 443	78.7 2000	18.5 471	63.0 1600	102.0 2591	67.1 1705	3 80	133.6 3393	3 80	41.3 1050	0.6 15
MXCV1400GAF	MXCV1400GAF-16	1400	5500	4358	1974	17.4 443	88.6 2250	18.5 471	63.0 1600	111.9 2841	67.1 1705	3 80	143.4 3643	3 80	41.3 1050	0.6 15
MXCV1500GAF	MXCV1500GAF-16	1500	5750	4525	2050	19.6 497	74.8 1900	20.6 522	68.9 1750	100.1 2542	73.2 1860	3 80	133.8 3398	3 80	45.3 1150	0.6 15
MXCV1600GAF	MXCV1600GAF-16	1600	6000	4636	2100	19.6 497	78.7 2000	20.6 522	68.9 1750	104.0 2642	73.2 1860	3 80	137.7 3498	3 80	45.3 1150	0.6 15
MXCV1700GAF	MXCV1700GAF-16	1700	6500	4724	2140	20.5 521	78.7 2000	21.5 547	70.9 1800	103.4 2627	75.2 1910	3 80	139.6 3547	3 80	45.3 1150	0.6 15
MXCV1800GAF	MXCV1800GAF-16	1800	6750	5347	2422	22.6 575	59.1 1500	23.5 598	78.7 2000	88.5 2248	83.5 2120	3 80	121.3 3082	3 80	51.2 1300	0.8 20
MXCV1900GAF	MXCV1900GAF-16	1900	7000	5501	2492	22.6 575	63.0 1600	23.5 598	78.7 2000	92.4 2348	83.5 2120	3 80	125.3 3182	3 80	51.2 1300	0.8 20
MXCV2000GAF	MXCV2000GAF-16	2000	7500	5722	2592	22.6 575	68.9 1750	23.5 598	78.7 2000	98.3 2498	83.5 2120	3 80	131.2 3332	3 80	51.2 1300	0.8 20
MXCV2200GAF	MXCV2200GAF-16	2200	8500	6459	2926	22.6 575	82.7 2100	23.5 598	78.7 2000	112.1 2848	83.5 2120	3 80	145.0 3682	3 80	51.2 1300	0.8 20
MXCV2400GAF	MXCV2400GAF-16	2400	9000	6691	3031	22.6 575	88.6 2250	23.5 598	78.7 2000	119.2 3028	83.5 2120	3 80	150.9 3832	3 80	51.2 1300	0.8 20
MXCV2600GAF	MXCV2600GAF-16	2600	10000	6954	3150	22.6 575	102.4 2600	23.5 598	78.7 2000	131.8 3348	83.5 2120	3 80	164.6 4182	3 80	51.2 1300	0.8 20
MXCV2800GAF	MXCV2800GAF-16	2800	11000	7605	3445	22.6 575	114.2 2900	23.5 598	78.7 2000	143.6 3648	83.5 2120	3 80	176.5 4482	3 80	51.2 1300	0.8 20
MXCV3000GAF	MXCV3000GAF-16	3000	11500	7901	3579	22.6 575	122.0 3100	23.5 598	78.7 2000	151.5 3848	83.5 2120	3 80	184.3 4682	3 80	51.2 1300	0.8 20
MXCV3200GAF	MXCV3200GAF-16	3200	12250	8442	3824	22.6 575	133.9 3400	23.5 598	78.7 2000	163.3 4148	83.5 2120	3 80	196.1 4982	3 80	51.2 1300	0.8 20
MXCV3400GAF	MXCV3400GAF-16	3400	13000	8881	4023	22.6 575	145.7 3700	23.5 598	78.7 2000	175.1 4448	83.5 2120	3 80	208.0 5282	3 80	51.2 1300	0.8 20
MXCV3600GAF	MXCV3600GAF-16	3600	13750	9113	4128	22.6 575	151.6 3850	23.5 598	78.7 2000	181.0 4598	83.5 2120	3 80	213.9 5432	3 80	51.2 1300	0.8 20
MXCV3800GAF	MXCV3800GAF-16	3800	14000	9629	4362	22.6 575	165.4 4200	23.5 598	78.7 2000	194.8 4948	83.5 2120	3 80	227.6 5782	3 80	51.2 1300	0.8 20
MXCV4000GAF	MXCV4000GAF-16	4000	15000	9916	4492	22.6 575	173.2 4400	23.5 598	78.7 2000	202.7 5148	83.5 2120	3 80	235.5 5982	3 80	51.2 1300	0.8 20

Table 6.3.4 - Dimensions of Horizontal Bladder Tanks (ASME Sec VIII Design Code)

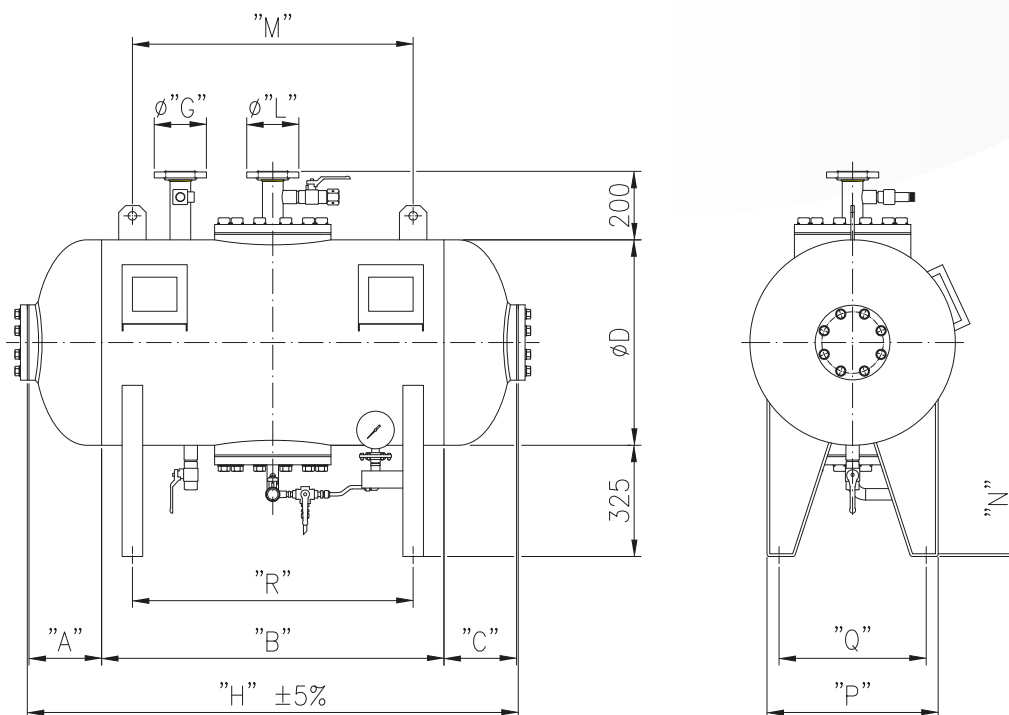


Figure 6.3.5 - Horizontal Bladder Tank: 50 to 100 US Gallons

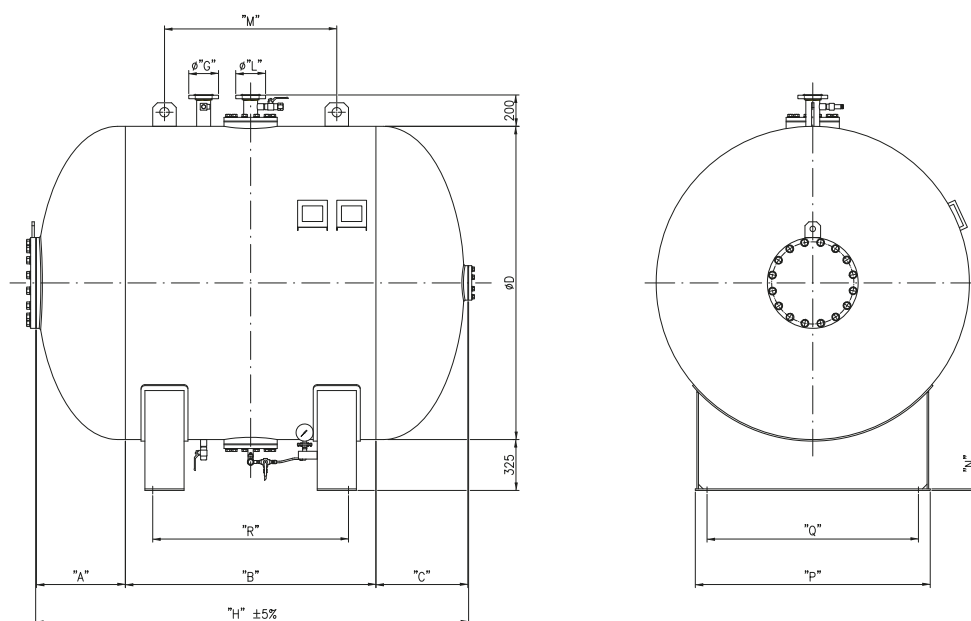


Figure 6.3.6 - Horizontal Bladder Tank: 150 to 5250 US Gallons

Vertical & Horizontal Bladder Tank

Foam Storage Devices | Model MXC

Bladder Tank Part Number EN13445 Design Code		Capacity		Weight		A	B	C	ØD	ØG	H	ØL	M	N	O	P	Q	R
175 PSI / 12.1 bar	232 PSI / 16.0 bar	USG	Litres	LBS	KG	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm
MXCH0050GF	MXCH0050GF-16	50	200	541	245	8.0 203	39.4 1000	8.0 203	19.7 500	2 50	55.4 1406	2 50	32.3 820	0.3 8	7.9 200	15.7 400	13.8 350	32.3 820
MXCH0075GF	MXCH0075GF-16	75	300	607	275	9.0 228	39.4 1000	9.0 228	23.6 600	2 50	57.3 1456	2 50	32.3 820	0.3 8	7.9 200	19.7 500	16.9 430	32.3 820
MXCH0100GF	MXCH0100GF-16	100	400	651	295	9.0 228	49.2 1250	9.0 228	23.6 600	2 50	67.2 1706	2 50	42.1 1070	0.3 8	7.9 200	19.7 500	16.9 430	40.2 1020
MXCH0150GF	MXCH0150GF-16	150	600	784	355	10.3 262	39.4 1000	10.8 274	31.5 800	2 50	60.5 1536	2 50	32.3 820	0.3 8	7.9 200	19.7 500	15.7 400	32.3 820
MXCH0200GF	MXCH0200GF-16	200	775	838	380	10.3 262	51.2 1300	10.8 274	31.5 800	2 50	72.3 1836	2 50	44.1 1120	0.3 8	7.9 200	19.7 500	15.7 400	42.1 1070
MXCH0250GF	MXCH0250GF-16	250	1000	1214	550	11.3 288	39.4 1000	13.2 336	39.4 1000	2.5 65	63.9 1624	2.5 65	31.5 800	0.3 8	7.9 200	27.6 700	23.6 600	32.3 820
MXCH0300GF	MXCH0300GF-16	300	1250	1347	610	11.3 288	51.2 1300	13.2 336	39.4 1000	2.5 65	75.7 1924	2.5 65	39.4 1000	0.3 8	7.9 200	27.6 700	23.6 600	42.1 1070
MXCH0350GF	MXCH0350GF-16	350	1350	1369	620	11.3 288	55.1 1400	13.2 336	39.4 1000	2.5 65	79.7 2024	2.5 65	39.4 1000	0.3 8	7.9 200	27.6 700	23.6 600	42.1 1070
MXCH0400GF	MXCH0400GF-16	400	1500	1435	650	11.3 288	65.0 1650	13.2 336	39.4 1000	2.5 65	89.5 2274	2.5 65	51.2 1300	0.3 8	5.9 150	27.6 700	23.6 600	53.5 1360
MXCH0450GF	MXCH0450GF-16	450	1750	1854	840	11.6 294	59.1 1500	13.2 336	43.3 1100	2.5 65	83.9 2130	2.5 65	45.3 1150	0.3 8	5.9 150	31.5 800	27.6 700	48.0 1220
MXCH0500GF	MXCH0500GF-16	500	2000	1998	905	11.6 294	70.9 1800	13.2 336	43.3 1100	2.5 65	95.7 2430	2.5 65	57.1 1450	0.3 8	5.9 150	31.5 800	27.6 700	59.8 1520
MXCH0600GF	MXCH0600GF-16	600	2250	2053	930	12.7 322	65.0 1650	14.2 361	47.2 1200	3 80	91.9 2333	3 80	58.3 1480	0.3 8	5.9 150	35.4 900	31.5 800	56.3 1430
MXCH0700GF	MXCH0700GF-16	700	2600	2274	1030	13.8 351	65.0 1650	15.2 386	51.2 1300	3 80	94.0 2387	3 80	63.0 1600	0.3 8	5.9 150	35.4 900	31.5 800	56.3 1430
MXCH0800GF	MXCH0800GF-16	800	3000	2472	1120	13.8 351	78.7 2000	15.2 386	51.2 1300	3 80	107.8 2737	3 80	63.0 1600	0.3 8	5.9 150	35.4 900	31.5 800	66.1 1680
MXCH0900GF	MXCH0900GF-16	900	3500	3210	1450	15.3 389	78.7 2000	16.3 413	55.1 1400	3 80	110.3 2801	3 80	63.0 1600	0.3 8	5.9 150	39.4 1000	33.5 850	66.1 1680
MXCH1000GF	MXCH1000GF-16	1000	3750	3091	1400	15.8 402	74.8 1900	16.8 426	57.1 1450	3 80	107.4 2728	3 80	63.0 1600	0.4 10	5.9 150	39.4 1000	33.5 850	62.2 1580
MXCH1100GF	MXCH1100GF-16	1100	4000	3245	1470	15.8 402	82.7 2100	16.8 426	57.1 1450	3 80	115.3 2928	3 80	63.0 1600	0.4 10	5.9 150	39.4 1000	33.5 850	66.1 1680
MXCH1200GF	MXCH1200GF-16	1200	4500	3642	1650	16.5 418	82.7 2100	17.3 439	59.1 1500	3 80	116.4 2957	3 80	66.9 1700	0.4 10	5.9 150	39.4 1000	33.5 850	70.1 1780
MXCH1300GF	MXCH1300GF-16	1300	5000	3797	1720	17.5 445	78.7 2000	18.3 465	63.0 1600	3 80	114.6 2910	3 80	63.0 1600	0.4 10	5.9 150	43.3 1100	37.4 950	66.1 1680
MXCH1400GF	MXCH1400GF-16	1400	5500	4029	1825	17.5 445	88.6 2250	18.3 465	63.0 1600	3 80	124.4 3160	3 80	70.9 1800	0.4 10	5.9 150	43.3 1100	37.4 950	75.2 1910
MXCH1500GF	MXCH1500GF-16	1500	5750	4415	2000	19.6 498	74.8 1900	20.6 522	68.9 1750	3 80	115.0 2920	3 80	61.0 1550	0.4 10	5.9 150	47.2 1200	41.3 1050	64.2 1630
MXCH1600GF	MXCH1600GF-16	1600	6000	4636	2100	19.6 498	78.7 2000	20.6 522	68.9 1750	3 80	118.9 3020	3 80	61.0 1550	0.4 10	5.9 150	47.2 1200	41.3 1050	66.1 1680
MXCH1700GF	MXCH1700GF-16	1700	6500	4857	2200	20.2 513	78.7 2000	21.1 535	70.9 1800	3 80	120.0 3047	3 80	61.0 1550	0.4 10	5.9 150	47.2 1200	41.3 1050	66.1 1680
MXCH1800GF	MXCH1800GF-16	1800	6750	5199	2355	22.3 566	59.1 1500	23.1 586	78.7 2000	3 80	104.4 2652	3 80	52.4 1330	0.4 10	5.9 150	59.1 1500	53.1 1350	49.2 1250
MXCH1900GF	MXCH1900GF-16	1900	7000	5331	2415	22.3 566	63.0 1600	23.1 586	78.7 2000	3 80	108.3 2752	3 80	52.4 1330	0.4 10	5.9 150	59.1 1500	53.1 1350	49.2 1250
MXCH2000GF	MXCH2000GF-16	2000	7500	5503	2505	22.3 566	68.9 1750	23.1 586	78.7 2000	3 80	114.3 2902	3 80	52.4 1330	0.4 10	5.9 150	59.1 1500	53.1 1350	55.1 1400
MXCH2200GF	MXCH2200GF-16	2200	8500	5982	2710	22.3 566	82.7 2100	23.1 586	78.7 2000	3 80	128.0 3252	3 80	63.0 1600	0.4 10	5.9 150	59.1 1500	53.1 1350	68.9 1750
MXCH2400GF	MXCH2400GF-16	2400	9000	6159	2790	22.3 566	88.6 2250	23.1 586	78.7 2000	3 80	133.9 3402	3 80	68.9 1750	0.4 10	5.9 150	59.1 1500	53.1 1350	74.8 1900
MXCH2600GF	MXCH2600GF-16	2600	10000	6623	3000	22.3 566	102.4 2600	23.1 586	78.7 2000	3 80	147.7 3752	3 80	82.7 2100	0.4 10	5.9 150	59.1 1500	53.1 1350	88.6 2250
MXCH2800GF	MXCH2800GF-16	2800	11000	7064	3200	22.3 566	114.2 2900	23.1 586	78.7 2000	3 80	159.5 4052	3 80	94.5 2400	0.4 10	5.9 150	59.1 1500	53.1 1350	100.4 2550
MXCH3000GF	MXCH3000GF-16	3000	11500	7329	3320	22.3 566	122.0 3100	23.1 586	78.7 2000	3 80	167.4 4252	3 80	102.4 2600	0.4 10	5.9 150	59.1 1500	53.1 1350	108.3 2750
MXCH3200GF	MXCH3200GF-16	3200	12250	7704	3490	22.3 566	133.9 3400	23.1 586	78.7 2000	3 80	179.2 4552	3 80	114.2 2900	0.4 10	5.9 150	59.1 1500	53.1 1350	120.1 3050
MXCH3400GF	MXCH3400GF-16	3400	13000	7969	3610	22.3 566	141.7 3600	23.1 586	78.7 2000	3 80	187.1 4752	3 80	126.0 3200	0.4 10	5.9 150	59.1 1500	53.1 1350	131.9 3350

Table 6.3.7 - Dimensions of Horizontal Bladder Tanks (EN13445 Design Code)

Vertical & Horizontal Bladder Tank

Foam Storage Devices | Model MXC

Bladder Tank Part Number EN13445 Design Code		Capacity		Weight		A	B	C	ØD	ØG	H	ØL	M	N	O	P	Q	R
175 PSI / 12.1 bar	232 PSI / 16.0 bar	USG	Litres	LBS	KG	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm
MXCH3600GF	MXCH3600GF-16	3600	13750	8300	3760	22.3	151.6	23.1	78.7	3	196.9	3	139.8	0.4	5.9	59.1	53.1	145.7
						566	3850	586	2000	80	5002	80	3550	10	150	1500	1350	3700
MXCH3800GF	MXCH3800GF-16	3800	14000	8576	3885	22.3	159.4	23.1	78.7	3	204.8	3	139.8	0.4	5.9	59.1	53.1	145.7
						566	4050	586	2000	80	5202	80	3550	10	150	1500	1350	3700
MXCH4000GF	MXCH4000GF-16	4000	15000	9040	4095	22.3	173.2	23.1	78.7	3	218.6	3	139.8	0.4	5.9	59.1	53.1	159.4
						566	4400	586	2000	80	5552	80	3550	10	150	1500	1350	4050
MXCH4250GF	MXCH4250GF-16	4250	16000	9437	4275	22.3	185.0	23.1	78.7	3	230.4	3	139.8	0.4	5.9	59.1	53.1	159.4
						566	4700	586	2000	80	5852	80	3550	10	150	1500	1350	4050
MXCH4500GF	MXCH4500GF-16	4500	17000	9834	4455	22.3	196.9	23.1	78.7	3	242.2	3	139.8	0.4	5.9	59.1	53.1	159.4
						566	5000	586	2000	80	6152	80	3550	10	150	1500	1350	4050
MXCH4750GF	MXCH4750GF-16	4750	18000	10298	4665	22.3	210.6	23.1	78.7	3	256.0	3	139.8	0.4	5.9	59.1	53.1	159.4
						566	5350	586	2000	80	6502	80	3550	10	150	1500	1350	4050
MXCH5000GF	MXCH5000GF-16	5000	19000	10695	4845	22.3	222.4	23.1	78.7	3	267.8	3	139.8	0.4	5.9	59.1	53.1	159.4
						566	5650	586	2000	80	6802	80	3550	10	150	1500	1350	4050
MXCH5250GF	MXCH5250GF-16	5250	20000	11159	5055	22.3	236.2	23.1	78.7	3	281.6	3	139.8	0.4	5.9	59.1	53.1	159.4
						566	6000	586	2000	80	7152	80	3550	10	150	1500	1350	4050

Table 6.3.7 - Dimensions of Horizontal Bladder Tanks (EN13445 Design Code) (cont.)

Bladder Tank : ASME Sec VIII Design Code		Capacity		Weight		A	B	C	ØD	ØG	H	ØL	M	N	O	P	Q	R
175 PSI / 12.1 bar	232 PSI / 16.0 bar	USG	Litres	LBS	KG	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm
MXCH0050GAF	MXCH0050GAF-16	50	200	574	260	8.0	39.4	8.0	19.7	2	55.4	2	32.3	0.3	7.9	15.7	13.8	32.3
						203	1000	203	500	50	1406	50	820	8	200	400	350	820
MXCH0075GAF	MXCH0075GAF-16	75	300	640	290	9.0	39.4	9.0	23.6	2	57.3	2	32.3	0.3	7.9	19.7	16.9	32.3
						228	1000	228	600	50	1456	50	820	8	200	500	430	820
MXCH0100GAF	MXCH0100GAF-16	100	400	684	310	9.0	49.2	9.0	23.6	2	67.2	2	42.1	0.3	7.9	19.7	16.9	40.2
						228	1250	228	600	50	1706	50	1070	8	200	500	430	1020
MXCH0150GAF	MXCH0150GAF-16	150	600	828	375	10.3	39.4	10.8	31.5	2	60.5	2	32.3	0.3	7.9	19.7	15.7	32.3
						262	1000	274	800	50	1536	50	820	8	200	500	400	820
MXCH0200GAF	MXCH0200GAF-16	200	775	883	400	10.3	51.2	10.8	31.5	2	72.3	2	44.1	0.3	7.9	19.7	15.7	42.1
						262	1300	274	800	50	1836	50	1120	8	200	500	400	1070
MXCH0250GAF	MXCH0250GAF-16	250	1000	1258	570	11.3	39.4	13.2	39.4	2.5	63.9	2.5	31.5	0.3	7.9	27.6	23.6	32.3
						288	1000	336	1000	65	1624	65	800	8	200	700	600	820
MXCH0300GAF	MXCH0300GAF-16	300	1250	1391	630	11.3	51.2	13.2	39.4	2.5	75.7	2.5	39.4	0.3	7.9	27.6	23.6	42.1
						288	1300	336	1000	65	1924	65	1000	8	200	700	600	1070
MXCH0350GAF	MXCH0350GAF-16	350	1350	1435	650	11.3	55.1	13.2	39.4	2.5	79.7	2.5	39.4	0.3	7.9	27.6	23.6	42.1
						288	1400	336	1000	65	2024	65	1000	8	200	700	600	1070
MXCH0400GAF	MXCH0400GAF-16	400	1500	1479	670	11.3	65.0	13.2	39.4	2.5	89.5	2.5	51.2	0.3	5.9	27.6	23.6	53.5
						288	1650	336	1000	65	2274	65	1300	8	150	700	600	1360
MXCH0450GAF	MXCH0450GAF-16	450	1750	2137	968	11.6	59.1	13.2	43.3	2.5	83.9	2.5	45.3	0.3	5.9	31.5	27.6	48.0
						294	1500	336	1100	65	2130	65	1150	8	150	800	700	1220
MXCH0500GAF	MXCH0500GAF-16	500	2000	2318	1050	11.6	70.9	13.2	43.3	2.5	95.7	2.5	57.1	0.3	5.9	31.5	27.6	59.8
						294	1800	336	1100	65	2430	65	1450	8	150	800	700	1520
MXCH0600GAF	MXCH0600GAFF-16	600	2250	2377	1077	12.7	65.0	14.2	47.2	3	91.9	3	58.3	0.3	5.9	35.4	31.5	56.3
						322	1650	361	1200	80	2333	80	1480	8	150	900	800	1430
MXCH0700GAF	MXCH0700GAF-16	700	2600	2651	1201	13.8	65.0	15.2	51.2	3	94.0	3	63.0	0.3	5.9	35.4	31.5	56.3
						351	1650	386	1300	80	2387	80	1600	8	150	900	800	1430
MXCH0800GAF	MXCH0800GAF-16	800	3000	2898	1313	13.8	78.7	15.2	51.2	3	107.8	3	63.0	0.3	5.9	35.4	31.5	66.1
						351	2000	386	1300	80	2737	80	1600	8	150	900	800	1680
MXCH0900GAF	MXCH0900GAF-16	900	3500	3680	1667	15.3	78.7	16.3	55.1	3	110.3	3	63.0	0.3	5.9	39.4	33.5	66.1
						389	2000	413	1400	80	2801	80	1600	8	150	1000	850	1680
MXCH1000GAF	MXCH1000GAF-16	1000	3750	3592	1627	15.8	74.8	16.8	57.1	3	107.4	3	63.0	0.4	5.9	39.4	33.5	62.2
						402	1900	426	1450	80	2728	80	1600	10	150	1000	850	1580
MXCH1100GAF	MXCH1100GAF-16	1100	4000	3777	1711	15.8	82.7	16.8	57.1	3	115.3	3	63.0	0.4	5.9	39.4	33.5	66.1
						402	2100	426	1450	80	2928	80	1600	10	150	1000	850	1680
MXCH1200GAF	MXCH1200GAF-16	1200	4500	4159	1884	16.5	82.7	17.3	59.1	3	116.4	3	66.9	0.4	5.9	39.4	33.5	70.1
						418	2100	439	1500	80	2957	80	1700	10	150	1000	850	1780
MXCH1300GAF	MXCH1300GAF-16	1300	5000	4355	1973	17.5	78.7	18.3	63.0	3	114.6	3	63.0	0.4	5.9	43.3	37.4	66.1
						445	2000	465	1600	80	2910	80	1600	10	150	1100	950	1680
MXCH1400GAF	MXCH1400GAF-16	1400	5500	4629	2097	17.5	88.6	18.3	63.0	3	124.4	3	70.9	0.4	5.9	43.3	37.4	75.2
						445	2250	465	1600	80	3160	80	1800	10	150	1100	950	1910
MXCH1500GAF	MXCH1500GAF-16	1500	5750	4525	2050	19.6	74.8	20.6	68.9	3	115.0	3	61.0	0.4	5.9	47.2	41.3	64.2
						498	1900	522	1750	80	2920	80	1550	10	150	1200	1050	1630

Bladder Tank : ASME Sec VIII Design Code		Capacity		Weight		A	B	C	ØD	ØG	H	ØL	M	N	O	P	Q	R
175 PSI / 12.1 bar	232 PSI / 16.0 bar	USG	Litres	LBS	KG	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm	inch mm
MXCH1600GAF	MXCH1600GAF-16	1600	6000	4646	2150	19.6	78.7	20.6	68.9	3	118.9	3	61.0	0.4	5.9	47.2	41.3	66.1
						498	2000	522	1750	80	3020	80	1550	10	150	1200	1050	1680
MXCH1700GAF	MXCH1700GAF-16	1700	6500	4967	2250	20.2	78.7	21.1	70.9	3	120.0	3	61.0	0.4	5.9	47.2	41.3	66.1
						513	2000	535	1800	80	3047	80	1550	10	150	1200	1050	1680
MXCH1800GAF	MXCH1800GAF-16	1800	6750	5700	2582	22.3	59.1	23.1	78.7	3	104.4	3	52.4	0.4	5.9	59.1	53.1	49.2
						566	1500	586	2000	80	2652	80	1330	10	150	1500	1350	1250
MXCH1900GAF	MXCH1900GAF-16	1900	7000	5854	2652	22.3	63.0	23.1	78.7	3	108.3	3	52.4	0.4	5.9	59.1	53.1	49.2
						566	1600	586	2000	80	2752	80	1330	10	150	1500	1350	1250
MXCH2000GAF	MXCH2000GAF-16	2000	7500	6086	2757	22.3	68.9	23.1	78.7	3	114.3	3	52.4	0.4	5.9	59.1	53.1	55.1
						566	1750	586	2000	80	2902	80	1330	10	150	1500	1350	1400
MXCH2200GAF	MXCH2200GAF-16	2200	8500	6581	2981	22.3	82.7	23.1	78.7	3	128.0	3	63.0	0.4	5.9	59.1	53.1	68.9
						566	2100	586	2000	80	3252	80	1600	10	150	1500	1350	1750
MXCH2400GAF	MXCH2400GAF-16	2400	9000	6823	3091	22.3	88.6	23.1	78.7	3	133.9	3	68.9	0.4	5.9	59.1	53.1	74.8
						566	2250	586	2000	80	3402	80	1750	10	150	1500	1350	1900
MXCH2600GAF	MXCH2600GAF-16	2600	10000	7362	3335	22.3	102.4	23.1	78.7	3	147.7	3	82.7	0.4	5.9	59.1	53.1	88.6
						566	2600	586	2000	80	3752	80	2100	10	150	1500	1350	2250
MXCH2800GAF	MXCH2800GAF-16	2800	11000	7870	3565	22.3	114.2	23.1	78.7	3	159.5	3	94.5	0.4	5.9	59.1	53.1	100.4
						566	2900	586	2000	80	4052	80	2400	10	150	1500	1350	2550
MXCH3000GAF	MXCH3000GAF-16	3000	11500	8177	3704	22.3	122.0	23.1	78.7	3	167.4	3	102.4	0.4	5.9	59.1	53.1	108.3
						566	3100	586	2000	80	4252	80	2600	10	150	1500	1350	2750
MXCH3200GAF	MXCH3200GAF-16	3200	12250	8618	3904	22.3	133.9	23.1	78.7	3	179.2	3	114.2	0.4	5.9	59.1	53.1	120.1
						566	3400	586	2000	80	4552	80	2900	10	150	1500	1350	3050
MXCH3400GAF	MXCH3400GAF-16	3400	13000	8925	4043	22.3	141.7	23.1	78.7	3	187.1	3	126.0	0.4	5.9	59.1	53.1	131.9
						566	3600	586	2000	80	4752	80	3200	10	150	1500	1350	3350
MXCH3600GAF	MXCH3600GAF-16	3600	13750	9311	4218	22.3	151.6	23.1	78.7	3	196.9	3	139.8	0.4	5.9	59.1	53.1	145.7
						566	3850	586	2000	80	5002	80	3550	10	150	1500	1350	3700
MXCH3800GAF	MXCH3800GAF-16	3800	14000	9631	4636	22.3	159.4	23.1	78.7	3	204.8	3	139.8	0.4	5.9	59.1	53.1	145.7
						566	4050	586	2000	80	5202	80	3550	10	150	1500	1350	3700
MXCH4000GAF	MXCH4000GAF-16	4000	15000	10170	4607	22.3	173.2	23.1	78.7	3	218.6	3	139.8	0.4	5.9	59.1	53.1	159.4
						566	4400	586	2000	80	5552	80	3550	10	150	1500	1350	4050
MXCH4250GAF	MXCH4250GAF-16	4250	16000	10631	4816	22.3	185.0	23.1	78.7	3	230.4	3	139.8	0.4	5.9	59.1	53.1	159.4
						566	4700	586	2000	80	5852	80	3550	10	150	1500	1350	4050
MXCH4500GAF	MXCH4500GAF-16	4500	17000	11095	5026	22.3	196.9	23.1	78.7	3	242.2	3	139.8	0.4	5.9	59.1	53.1	159.4
						566	5000	586	2000	80	6152	80	3550	10	150	1500	1350	4050
MXCH4750GAF	MXCH4750GAF-16	4750	18000	11634	5270	22.3	210.6	23.1	78.7	3	256.0	3	139.8	0.4	5.9	59.1	53.1	159.4
						566	5350	586	2000	80	6502	80	3550	10	150	1500	1350	4050
MXCH5000GAF	MXCH5000GAF-16	5000	19000	12097	5480	22.3	222.4	23.1	78.7	3	267.8	3	139.8	0.4	5.9	59.1	53.1	159.4
						566	5650	586	2000	80	6802	80	3550	10	150	1500	1350	4050
MXCH5250GAF	MXCH5250GAF-16	5250	20000	12636	5724	22.3	236.2	23.1	78.7	3	281.6	3	139.8	0.4	5.9	59.1	53.1	159.4
						566	6000	586	2000	80	7152	80	3550	10	150	1500	1350	4050

Table 6.3.8 - Dimensions of Horizontal Bladder Tanks (ASME Sec VIII Design Code) (cont.)

Vertical & Horizontal Bladder Tank

Foam Storage Devices | Model MXC

7 Installation

Refer to appropriate Installation Standards (i.e. NFPA, VdS, LPCB, etc.) and / or applicable FM Global Property Loss Prevention Data Sheets such as 4-12, Foam-Water Sprinkler Systems.

The KCA Installation, Operation and Maintenance Bladder Tank Manual shall also be referenced.

NOTICE

When designing a bladder tank into your fire protection system, please give consideration to future maintenance activities. Ensure that adequate clearance above a vertical bladder tank or at the inspection flange end of a horizontal tank is allowed. For further guidance contact KCA.

8 Operation

The KCA bladder tank stores foam concentrate inside the bladder. When used in conjunction with the KCA Ratio Controller it proportions the foam concentrate accurately into the water stream. The outer shell of the bladder tank is pressurized by the system water supply then during activation; foam concentrate is squeezed out to the ratio controller. Simultaneously, as water flows through the venturi area of the ratio controller, a metered pressure drop also draws foam concentrate into the system water creating a foam solution mixed to the appropriate ratios. This solution then flows through the system pipework and out of the open sprinklers, nozzles or other discharge devices.

9 Guarantee

For details of warranty, refer to KCA's current list price schedule or contact KCA directly.

10 Inspections, tests and maintenance

Please refer to KCA Installation, Operation and Maintenance manual for MXC Bladder Tanks.

Refer to respective requirements, according to the relevant standards for Inspection, Testing and Maintenance.

If applicable, refer to FM Global Property Loss Prevention Datasheet 4-12 for specific test and commissioning criteria.

In addition, the "Authority Having Jurisdiction" (AHJ) may have additional maintenance, testing and inspection requirements that must be followed.



WARNING

Any system maintenance or testing that involves placing a control valve or detection system out of service may eliminate the fire protection of that system. Prior to proceeding, notify all Authorities Having Jurisdiction. Consideration should be given to employment of a fire patrol in the affected area.

11 Disposal



At end of use the product described here should be disposed of via the national recycling system.

Upon request the manufacturer can take back and properly dispose of the electrical equipment and electronic devices

12 Accessories and spares

Safety Thermal Relief Valve

Foam Level Gauge

Replacement Bladder

Manual Filling Pump

Electric Filling Pump

Filling Device

Tank Trim Ball Valves

Flange Bolts & Nuts

Contact KCA for further information and availability.

13 Declaration of conformity

If required. Contact KCA for further information