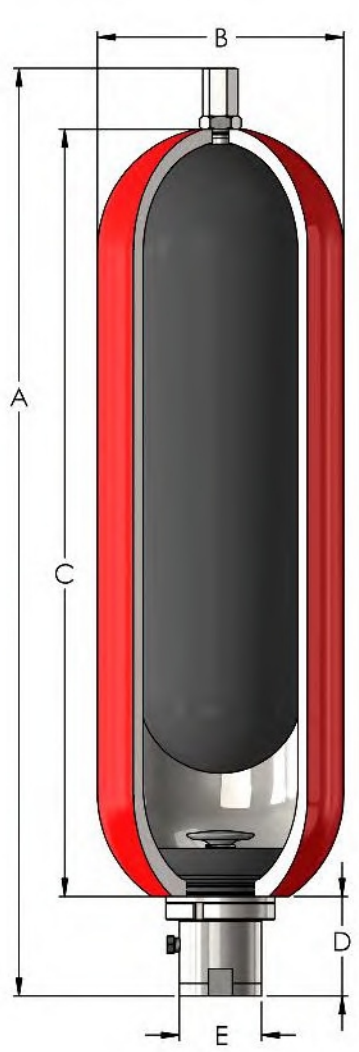
BLADDER ACCUMULATORS

1 PT - 40 GAL 3000 | 6000 | 10000 PSI



Carbon steel standard. Also available in stainless steel, carbon fiber, and with a wide variety of protective coatings. Contact us for more information.

TOP REPAIRABLE (TR) OPTION

For standard options, see our ordering table on page 5.

3000 PSI MODELS

PART	PART (TR)	NOMINAL SIZE (GAL)	GAS VOLUME (IN^3)	DIMENSIONS (IN.)					WEIGHT (LBS.)	WEIGHT (TR)
				A	B	C	D	E		
A1PT3100	-	0.12	28	9.9	3.5	6.5	1.9	1.4	6	-
A1QT3100	-	0.25	49	12.0	4.5	7.6	2.1	1.4	10	-
A13100	-	1	214	17.0	6.7	11.0	3.5	2.4	32	-
A1.53100	-	1.5	328	21.5	6.6	15.8	3.5	2.4	41	-
A2.53100	A2.5TR3100	2.5	536	21.0	9.0	15.5	3.5	3.0	76	78
A53100	A5TR3100	5	1106	33.0	9.0	27.5	3.5	3.0	116	118
A103100	A10TR3100	10	2101	54.0	9.0	48.5	3.5	3.0	212	214
A113100	A11TR3100	11	2359	60.0	9.0	54.0	3.5	3.0	230	232
A153100	A15TR3100	15	3165	78.0	9.0	72.0	3.5	3.0	296	298
-	A40TR3100	40	9240	93.0	14	87.8	5.1	4.3	-	780

5000 & 6000 PSI MODELS

PART	PART (TR)	NOMINAL SIZE (GAL)	GAS VOLUME (IN^3)	DIMENSIONS (IN.)					WEIGHT (LBS.)	WEIGHT (TR)
				A	B	C	D	E		
A1QT5100	-	0.25	49	12.0	4.7	7.6	2.1	1.4	12	-
A16100	-	1	214	18.0	7.2	11.4	3.5	2.4	36	-
A2.56100	A2.5TR6100	2.5	536	22.0	9.6	15.5	3.9	3.0	118	120
A56100	A5TR6100	5	1106	34.0	9.6	27.5	3.9	3.0	198	200
A106100	A10TR6100	10	2101	55.0	9.6	48.5	3.9	3.0	308	310
A156100	A15TR6100	15	3165	79.0	9.6	72.0	3.9	3.0	468	470

10000 PSI MODELS

PART	NOMINAL SIZE (GAL)	GAS VOLUME (IN^3)	DIMENSIONS (IN.)					WEIGHT (LBS.)
			A	B	C	D	E	
A2.510100XS	2.5	496	25.0	11.75	17.0	3.5	3.0	325
A510100XS	5	1065	37.0	11.75	29.0	3.5	3.0	515
A1010100XS	10	2060	58.0	11.75	50.0	3.5	3.0	850
A1510100XS	15	3165	81.0	11.75	73.5	3.5	3.0	1225

BLADDER MATERIAL SPECIFICATIONS

The following chart is for typical applications at moderate cycles and is based on a combination of laboratory results and field testing. System fluid selection and contamination can significantly affect performance. Since real world usage can vary widely, ACC INC cannot guarantee the acceptability of any particular system or the expected life of an elastomer product.

The use of compatible clean fluids is highly recommended. Proper filtration is necessary. High temperature applications should use oil coolers. Low temperature applications require fluid that is in a liquid state.

BLADDER MATERIAL SPECIFICATIONS

RUBBER COMPOUND	CODE	PEAK RANGE (F)	OPTIMAL RANGE (F)	PERMEABILITY	HARDNESS SHORE (A)	TENSILE (PSI)	ELONGATION (%)
BUNA-NITRILE	N/A	-10 TO 220	35 TO 160	.39	60	2000	400
LOW TEMP BUNA-NITRILE	L	-60 TO 200	-25 TO 145	2.05	50	1500	400
EXTREME LOW TEMP NITRILE	X	-80 TO 200	-25 TO 145	2.10	60	1500	400
BUTYL	B	-45 TO 200	35 TO 160	.22	60	1500	400
ETHYLENE-PROPYLENE (EPR)	E	-55 TO 330	35 TO 250	2.25	60	1500	400
FLUORO-ELASTOMER (FKM)	V	0 TO 350	35 TO 350	1.72	65	1300	400
HYDRIN/ECO	H	-40 TO 275	-	.23	60	1300	400

PEAK: Upper value is based on elastomer vendor data. Lower value is based on ASTM D-1053.

OPTIMAL: Based on good hydraulic practices. Extended operation beyond these temperatures may shorten the life of the bladder.

PERMEABILITY: Based on ASTM D-1434 at 73° F. Units x 10^{-8} cm^2/sec • atm.

OTHER PHYSICAL PROPERTIES: Values are nominal and are based on laboratory results.

BLADDER ELASTOMER CAPABILITY

There are thousands of chemical compounds that have been tested with bladder elastomers. An up to date compatibility chart of the most popular fluids can be found on our website at www.accumulators.com/rubber-compatibility.html.

Please contact our sales department for additional assistance in determining the proper elastomer for your application.