



Siken ASME Bladder accumulator

Siken Hydraulics has been providing customers bladder accumulators for many applications. A bladder accumulator consists of a pressure vessel or shell typically made of steel. Inside the accumulator, there are two main compartments separated by a flexible bladder. One compartment contains hydraulic fluid, while the other compartment contains compressed gas, usually nitrogen.

We are providing the bladder accumulator from 1 Pint to 16.5 Gallon and operating pressures up to 10,000 PSI (690 Bar).

As for the rubber bladder materials, we could design and produce all products accumulator with diverse seals such as NBR, HNBR, EPDM (EPR), FPM (Viton), Butyl, Low-temperature NBR etc.

For non-ASME bladder accumulator, more larger volume is available.

Parameters:

- Volumes: 1 Pint ... 16.5 Gallon
- max. operating pressure: up to 690 bar (10000 PSI)
- Service temperature: -40°C ... +200°C
- Rubber materials: NBR, HNBR, EPDM (EPR), FPM (Viton), Butyl, Low-temperature NBR etc.
- Housing materials: Carbon steel, Stainless Steel, plastic materials etc...
- Coatings: Primer, offshore, plastic.

Model Code

SB **A** **S** **30** - **15** - **S** - **B** - **F**
1 **2** **3** **4** **5** **6** **7** **8**

1: SB-----Bladder accumulator

2: A-----ASME standard

3: Structure:

S---Standard bottom repairable (22mm gas port) ;

SB---Standard type B bottom repairable (50 mm gas port) ;

T---Top repairable

L---Large flow rate

4: Maximum pressure

30---3000PSI

50---5000PSI

66---6600PSI

5:Volume (Gallon)

6: Shell materials:

C--- Carbon steel

S---Stainless Steel

7: Bladder materials:

N--- NBR

B---Butyl

E---EPDM

V---Viton (FPM)

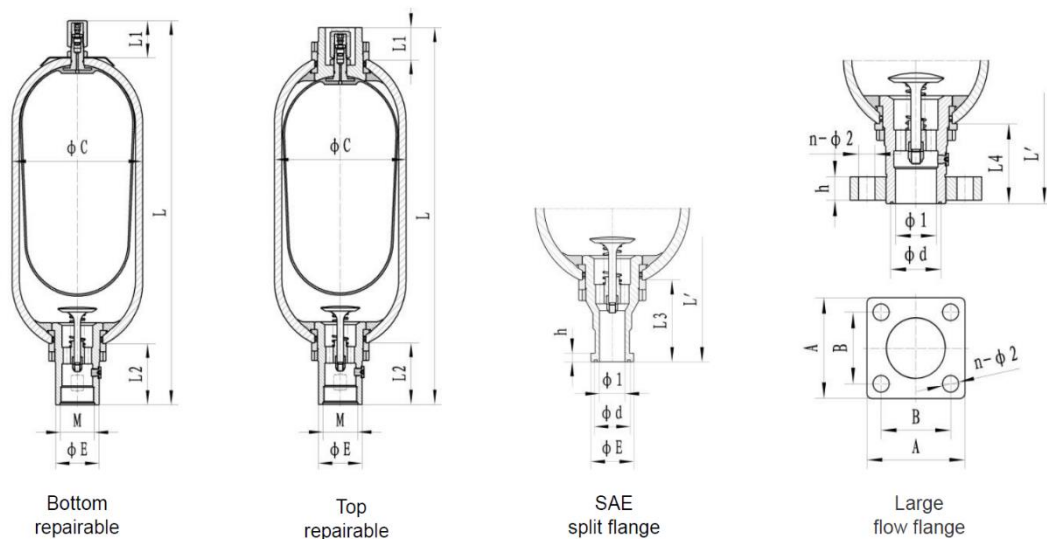
HN--- Hydrogenated NBR

LN---Low temperature NBR

8: Fluid port

L---Thread

F---Flange



Bottom repairable

Pressure	Volume		Flow rate	DIMENSIONS (mm)						Weight						
PSI	Gal	L	L/min	L	L2	ΦC	L1	E	M	Kg						
3000	1 PT	0.47	170	268	52	89	50	37	G3/4" SAE#12 3/4"NPT	3.6						
3000	1 QT	0.95	227	291	49	114	48	42		4.5						
	1.5QT	1.5		368						6.9						
	150 CI	2.5		493						9.1						
3000	1	3.8	605	435	89	168	57	60	G1 1/4"	15						
	1.5	5.7		544					SAE#20	19.5						
5000	1	3.8	605	425	83	180	52	60	1-1/4"NPT	23						
	1.5	5.7		535						30						
3000/3500 Appendix2 2	2.5	10		567	92	219	65	76	G2"	28						
	5	20		877					2"NPT	44						
	10	37		1397					SAE#24	71						
	11	42		1532					M60×2	80						
	14	54		1922					M50×1.5	100						
	15	57		2002					1-1/2"SAE split flange 2"SAE split flange	104						
	3000/4000 Appendix2 2	2.5		9.5					908	554	92	229	65	76		34
		5		18.9						865					2"NPT	
10		37	1392	SAE#24	55											
11		41	1532	M60×2	94											
1500PSI/St ainless Steel	12.5	47	1834	M50×1.5	105											
	14	53	1922	1-1/2"SAE split flange 2"SAE split flange	124											
	15	57	1988		130											
					136											
5000/6600 Appendix2 2	2.5	9.5	908	566	86	245	74	76		55						
	5	18.9		872					2"NPT							
	10	37		1405					SAE#24	92						
	11	41		1545					M60×2	156						
	12.5	47		1848					M50×1.5	174						
	14	53		1935					1-1/2"SAE split flange 2"SAE split flange	209						
	15	57		2005						220						
										230						

Top repairable

Pressure	Volume		Flow rate	DIMENSIONS (mm)						Weight
PSI	Gal	L	L/min	L	L2	ΦC	L1	E	M	Kg
3000/3500PSI Appendix 22	2.5	9.5	908	557	92	219	55	76	G2"	28
	5	18.9		867					2"NPT	44
	10	37		1387					SAE#24	71
	11	41		1522					M60×2	80
	12.5	47		1822					M50×1.5	85
	14	53		1912					1-1/2"SAE split flange	100
	15	57		1992					2"SAE split flange	104
3000/4000PSI Appendix 22	2.5	9.5	908	544	92	219	55	76	G2"	34
	5	18.9		855					2"NPT	55
	10	37		1382					SAE#24	94
	11	41		1522					M60×2	105
1500PSI Stainless Steel	12.5	47	908	1824	92	219	55	76	M50×1.5	124
	14	53		1912					1-1/2"SAE split flange	130
	15	57		1978					2"SAE split flange	136
5000/6600PSI Appendix 22	2.5	9.5	908	542	86	245	50	76	G2"	55
	5	18.9		848					2"NPT	92
	10	37		1381					SAE#24	156
	11	41		1521					M60×2	174
	12.5	47		1822					M50×1.5	209
	14	53		1910					1-1/2"SAE split flange	220
	15	57		1978					2"SAE split flange	230
3000/3600PSI Appendix 22	6.5	25	1500	770	114	299	86	96		86
	10	40		1050						118
	13	50		1230					M72×2	139
	16	63		1470					Large flow rateFlange	166
	20	80		1810						205
	25	100		2190						249
	32	125		2600						274
3000/3600PSI Appendix 22	16	63	2000	1180	140	351	90	114		170
	20	80		1405					G3"	206
	25	100		1670					M85×2	250
	32	125		2000					3"NPT	304
	40	160		2460					SAE-48	378
	45	180		2710						420

SAE split Flange

Product Range	Pressure grade	SAE split Flange	Q	d	E	h	F	L3	L'
		Size	L/min						
10-54L	3000PSI	1-12/16"	650	38	60.3	9.6	100	L2+27mm	L+27mm
		2"	900	45	71.5	9.6			
	6000PSI	1-12/16"	650	38	63.5	12.6			
		1-12/16"	900	45	79.4	12.6			

Large flow rate flange

Volume		Pressure	Dimension (mm)												Weight
Gal	Litre	Bar	ΦC	M	d	Φ1	A	B	n-Φ2	h	L2	L4	L	L'	Kg
2.5	9.5	3000	229	M72×2	80	65	155	110	4-Φ26	36	113	123	570	580	42
5	18.9												880	890	64
10	37												1418	1428	102
11	41												1548	1558	115
12.5	47												1850	1860	133
14	53												1938	1948	139
15	57												2003	2013	145
2.5	9.5	6000	245	M72×2	80	65	155	110	4-Φ26	36	105	115	586	596	63
5	18.9												892	902	100
10	37												1425	1435	164
11	41												1565	1575	182
12.5	47												1860	1870	217
14	53												1950	1960	228
15	57												2022	2032	238
Note:	L---Thread connection; Q=1500L/MIN								Above is the weight of flange type products, the weight of thread typeis 8Kg.						