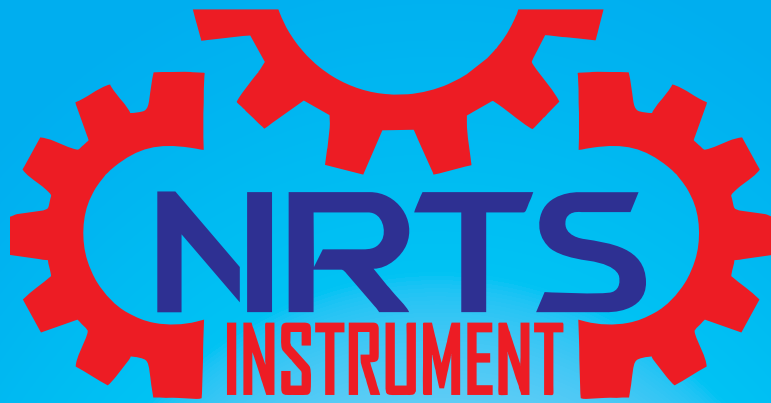




AND ENGINEERING PVT LTD

GSTIN : 07AAGCN5705Q1ZY
CIN : U24110DL2019PTC351420

NRTS

Instrument And Engineering Pvt. Ltd.
Team of Experts

.....
We Specialize in Servicing / Super High Pressure
Nitrogen Charging of Accumulator at our works as
well as customer site, with the most
sophisticated equipment.



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BLADDER ACCUMULATORS INTRODUCTION

- Bottom Repairable
- Top Repairable
- Medium Flow
- High Flow
- Transfer Barrier
- Gas Bottle

FEATURES

- ◆ Operating Pressures to 5000 PSI.
- ◆ Capacities - from 36 Cu.in. to 40 gallons.
- ◆ Highest Quality Imported Bladders.
- ◆ ASME Certified Standard Shells, also available with CE marking.
- ◆ Water/Chemical Service Available, with Stainless Steel Shell &
- ◆ Different Bladder Compounds to Suit a Variety of Fluids & Temperatures.

APPLICATION

- ◆ Energy Storage
- ◆ Pulsation Damper
- ◆ Volume Compensator
- ◆ Pressure Compensator
- ◆ Emergency Energy Reserve
- ◆ Counter Balance
- ◆ Hydraulic Line Shock Damper
- ◆ Shock Absorber
- ◆ Hydraulic spring
- ◆ Fluid Separator

MODEL CODE FOR ACCUMULATORS

		NRTS	32	P	345	C	G	0	-
Accumulator Type	Capacity Litres	Bladder Material	Max. Operating Pr.bar	Shell Material	Fluid Port Connection	Testing	Special		
NRTS : Bladder Accumulator Bottom Repairable (Standard)	0.6	P : Buna Nitrile (Standard)	207	C : Alloyed Carbon Steel	G : Female BSP : Thread :	0 : Factory Testing	- = NA SP: Special (To specify)		
	1	B : Butyl		N : Nickel Coated Carbon Steel	R : With Adaptor (Specify the thread)	1 : ASME Standard			
	6	N : Neoprene	345			2 : TUV			
	4	E : Ethylene- Propylene	X : Stainless Steel		F : With Flange (Specify Type)	3 : Lloyds			
	10	H : Nitrile For Hydro - Carbons		S : Special (on Request)		4 : Special			
	20								
	32								
	50	V : Viton							



BLADDER ACCUMULATORS- BOTTOM REPAIRABLE

Maximum Working Pressure : 345 bar (5000 PSI)*

Test Pressure : Maximum Working Pressure * 1.5

Temperature Range : - 10 to+ 80° C

Nominal Capacities : 0.6 - 150 ltrs.
36 Cu.in.- 40 Gallons

SHELL

Bladder Accumulator Shells are manufactured in accordance with ASME code rules, Section VIII, Division 1 SA372 with forfend ends for maximum strength providing a minimum of 4:1 design factr at normal operating pressures. One gallon & larger size supplied with ASME certification as standard.

BLADDER

Bladder is a important component of the Accumulator, normally manufactured from Nitrile. But Bladders are also manufactured in different standard compounds to suit a wide variety of fluids and operating temperatures.

BLADDER STEM

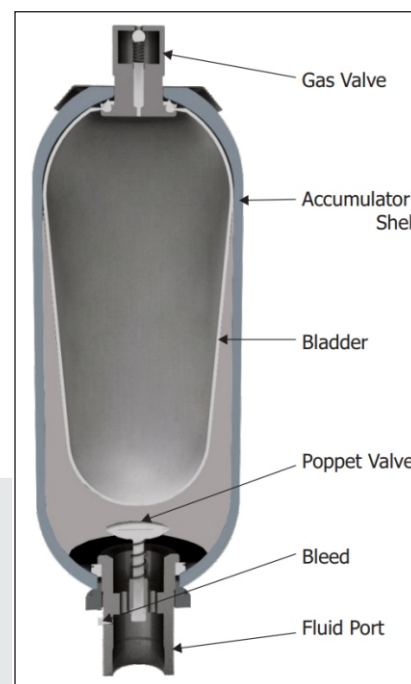
All Bladder Accumulators, sizes 1 gallon and larger, are fitted as standard with two-piece bladder stens with replaceable gas valve for ease of serviceability. Also, the two-piece stem will accept high pressure military gas valves and permanent mount gauge adaptors.

FLUID PORT ASSEMBLY

Standard oil service ports are made from high strength alloy steel for maximum durability. Chemical and water service port assemblies are made from stainless steel for maximum corrosion resistance.

INSPECTION

Shells are inspected as per ASME Code Rules, Section-VIII, Division and witness testing by Independent Authorities.



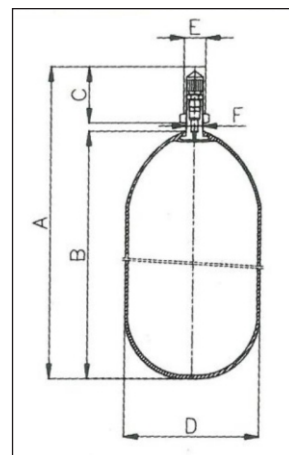
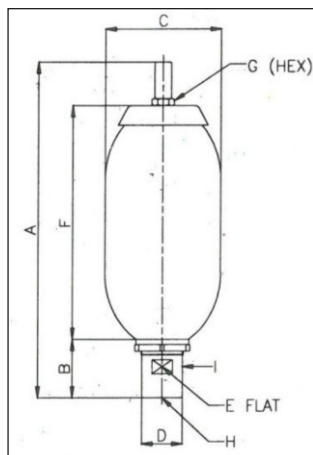
FINISH

One coat of epoxy based primer. Special paints are available on request.

- Accumulator parts are interchangeable with Accumulators produced by other manufacturers.
- Accumulator can not be disassembled under pressure.
- Meets ASME Specifications with 4:1 factor of safety.
- Specially formulated bladder compounds provide very low permeability for longer intervals between charging.



Bladder Accumulator - Bottom Repairable Models, Capacities and Dimensions



ACCUMULATOR DIMENSIONS

Models	Nominal Size Liters	Gas Volume Liters	Dimensions. (mm)							Hydraulic Ports		Weight (Kgs)
Oil Service Water Service			A	B	C	D	E	F	G	H	I	
NRTS : 0.6	0.6	0.6	315	52	89	35	33	174	32	3/4" BSP	N/A	3.6
NRTS : 1.0	1.0	1.0	285	50	114	41	38	195	32	3/4" BSP	N/A	4.5
NRTS : 4	4	3.8	435	65	168	60	54	290	32	1¼" BSP	¼" BSP	15
NRTS : 6	6	5.5	710	66	152	60	54	584	32	1¼" BSP	¼" BSP	20
NRTS 10	10	9.5	555	100	229	76	70	395	32	2 " BSP	¼" BSP	36
NRTS 20	20	18.5	860	100	229	76	70	700	32	2" BSP	¼" BSP	55
NRTS 32	32	34.5	1385	100	229	76	70	1225	32	2" BSP	¼" BSP	100
NRTS 50	50	53.5	1915	100	229	76	70	1755	32	2" BSP	¼" BSP	139

BLADDER MODEL CODE AND DIMENSIONS

NRTS 32 P 2 S				
Bladder Type	Capacity Liters	Bladder Material	Gas valve	Gas valve Material
NRTS : Standard Bladder	0.6	P : Buna Nitrile Standard	1 : M50	C : Alloyed Carbon Steel
	1.0 1.5	B : Butyl		
	2.5 3	N : Neoprene	2: 7/8" UNF	N : Nickel Coated Carbon Steel
	4 6	E : Ethylene-Propylene		
	10 20	H : Nitrile For Hydro-Carbons	3: 5/8 UNF	X : Stainless Steel
	32 50	V : Viton		

Models	Dimensions. (mm)					
	A	B	C	D	E	F
NRTS : 0.6	210	132	74	73	26	7/8"UNF
NRTS : 1	230	143	74	95	26	7/8"UNF
NRTS : 4	322	205	74	142	26	7/8"UNF
NRTS : 6	380	300	74	198	26	7/8"UNF
NRTS : 10	380	300	74	198	26	7/8"UNF
NRTS : 20	670	590	74	198	26	7/8"UNF
NRTS : 32	1200	1120	74	198	26	7/8"UNF
NRTS : 50	1705	1610	74	198	60	M50

* **CAUTION:** Standard manufacturing tolerances should be taken into account when designing systems