



## Specification

### Shell

Oil Service - seamless shell, designed and manufactured to PED 97/23/EEC and CE marked. Material - Chromium-molybdenum steel. Working pressure 207, 310, 345, 420 and 480 bar. Water service as above with shell interior epoxy resin lined.

### Label

With assembly specification and installation details

### Witness hydro-pneumatic pressure tests

These can be carried out on complete accumulators and can be undertaken for a specific inspection authority and/or customer requirement as an optional extra.

### Material Certification

Available on request for all major pressure loaded parts to EN 10204 3.1

### Finish

One coat primer paint as standard. Special paints available.

### Bladder

Totally enclosed construction with an extensive range of elastomers available. See Bladder information for further details.

### Fluid Port Assembly

Integral high-flow port and poppet valve assembly with an anti-extrusion ring. For options see overleaf.

### Safety

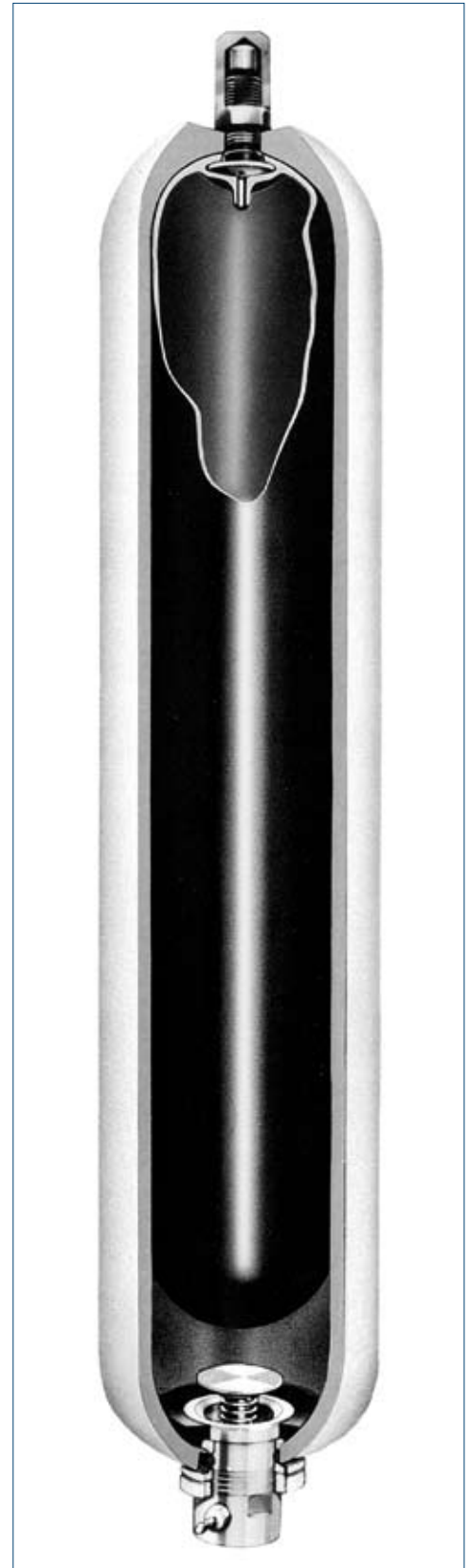
All gas-loaded accumulators are pressurised vessels and it is recommended that safety consideration be given to the application in which they are used. A relief valve should always be fitted to the hydraulic system with the option of a burst disc to protect the accumulator. If there is a fire risk in the vicinity of the accumulator, then a fusible/eutectic plug should be fitted. See Installation and Servicing data sheet for information regarding installation of accumulators.

### Accessories

A complete range of accumulator accessories are available from Fawcett Christie Hydraulics.

### Spare Parts

Available on request.



# Model Numbers for Oil & Gas Bladder Accumulators

54 0 SA CZ 20 1 Ex

## Nominal Volume - Litres

## Bladder Material

- 0 = Nitrile Standard
- 2 = Low Temperature Nitrile
- 3 = Low permeability Nitrile (23E-10cm<sup>3</sup>/s/cm/Hg)
- 6 = Viton
- K= Special low temperature Nitrile

## Bladder Stem/ Gas Valve

- SA = 1/4" BSP Gas Valve, Stainless Steel Trim
- 3F = 1/4" BSP St. Steel Gas Valve, Stainless Steel Trim
- 3L = As 'SA' but fitted with additional seals

## Shell and Fluid Port Options (J)

- CZ = Unlined Shell, St.Steel Externals, 1/2" NPTF Port
- DL = Unlined Shell, St.Steel Externals, 1/2" BSPF Port
- DR = Unlined Shell, St.Steel Externals, 1/2" NPTF Double Seal Locking Ring
- DU = Unlined Shell, St.Steel Externals, 1" NPTF Port
- DW = Unlined Shell, St.Steel Externals, 3/4" NPTF Port
- EZ = Unlined Shell, St.Steel Externals, 3/4" BSPF Port
- W6 = Unlined Shell, St.Steel Externals, 2" BSPF Port

## Maximum Working Pressure

- |              |              |  |
|--------------|--------------|--|
| 20 = 207 bar | 31 = 310 bar | Higher pressure units available on request |
| 34 = 345 bar | 35 = 350 bar |  |
| 42 = 420 bar | 48 = 480 bar |  |

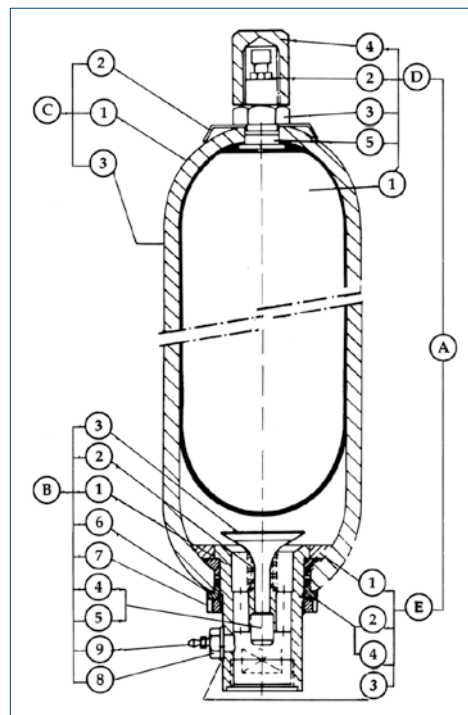
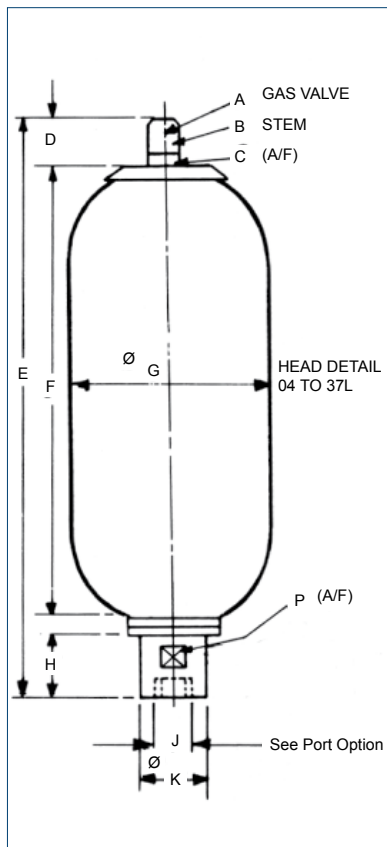
## Design Standard/ Authority Approval

- 1 = Lloyds/CE

## Special Approvals

- Ex = ATEX Approval to 94/9/EC

ATEX - Accumulator conforms to ATEX DIRECTIVE 94/9/EC (non electrical equipment) Equipment Group II, category 2, atmosphere type GD. The equipment can be used in zone 1 & zone 2 above ground.



Note: Models 1/54 litres detailed above. Models 0.6 litres and below have Gas Valve assembly integral with bladder stem without protective cap fitted.

<b>A</b>	<b>Bladder Kit comprising:</b>
<b>D</b>	<b>Bladder assembly</b>
D1	Bladder
D2	Gas valve assembly
D3	Locknut
D4	Protective cap
D5	'O' ring stem
<b>E</b>	<b>Anti extrusion ring assembly</b>
E1	Anti extrusion ring
E2	'O' ring fluid port
E3	Bonded seal
E4	Back-up ring
<b>B</b>	<b>Fluid port assembly comprising</b>
B1	Fluid port body
B2	Spring
B3	Poppet valve
B4	Collett
B5	Piston
B6	Flanged washer
B7	Locking ring
B8	Bleed adaptor
B9	Bleed valve
<b>C</b>	<b>Shell assembly comprising:</b>
C1	Shell
C2	Label
C3	Label warning

Nominal Capacity Litres	Effective Gas vol. Litres	Work press. bar	Max Flow Rate lt/min	Weight Dry Kilo	Dimensions in mm unless stated otherwise and subject to manufacturer's tolerances									
					A Inches	B Inches	C	D	E	F	G	H	K	P
10	9.4	207	749	27.00	¼ BSP	⅞ UNF	28	78	575	407	221	50	76	69
10	9.4	310	749	27.00	¼ BSP	⅞ UNF	28	78	575	407	221	50	76	69
10	9.4	345	749	30.00	¼ BSP	⅞ UNF	28	78	575	407	221	50	76	69
10	9.4	390/420	749	40.00	¼ BSP	⅞ UNF	28	78	575	407	228	50	76	69
20	18.8	207	749	42.00	¼ BSP	⅞ UNF	28	78	886	718	221	50	76	69
20	18.8	310	749	42.00	¼ BSP	⅞ UNF	28	78	886	718	221	50	76	69
20	18.8	345	749	46.00	¼ BSP	⅞ UNF	28	78	886	718	221	50	76	69
20	18.8	390/420	749	54.00	¼ BSP	⅞ UNF	28	78	886	718	228	50	76	69
28	25.8	207	749	55.00	¼ BSP	⅞ UNF	28	78	1158	990	221	50	76	69
28	25.8	310	749	55.00	¼ BSP	⅞ UNF	28	78	1158	990	221	50	76	69
28	25.8	345	749	61.00	¼ BSP	⅞ UNF	28	78	1158	990	221	50	76	69
28	25.8	390/420	749	70.00	¼ BSP	⅞ UNF	28	78	1158	990	228	50	76	69
37	35.2	207	749	66.00	¼ BSP	⅞ UNF	28	78	1407	1239	221	50	76	69
37	35.2	310	749	66.00	¼ BSP	⅞ UNF	28	78	1407	1239	221	50	76	69
37	35.2	345	749	74.00	¼ BSP	⅞ UNF	28	78	1407	1239	221	50	76	69
37	35.2	390/420	749	86.00	¼ BSP	⅞ UNF	28	78	1407	1239	228	50	76	69
54	49.2	207	749	92.00	¼ BSP	M50x 1.5	69	66	1922	1766	221	50	76	69
54	49.2	310	749	92.00	¼ BSP	M50x 1.5	69	66	1922	1766	221	50	76	69
54	49.2	345	749	102.00	¼ BSP	M50x 1.5	69	66	1922	1766	221	50	76	69
54	49.2	390/420/480	749	119.00	¼ BSP	M50x 1.5	69	66	1922	1766	228	50	76	69



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