



# ACCUMULATORS

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The product information and specifications within this catalogue should be viewed as a guide only and are subject to change without notice. Please refer to inside front cover for further details.



## **ACCUMULATOR ASSEMBLIES**

### **HIGH PRESSURE BLADDER TYPE ACCUMULATORS**



#### **FEATURES for the AC and NG Range:**

- Heavy duty range designed for use in industrial applications
- Increased production rates due to large instantaneous flow rates
- Constant availability of spare power
- The accumulator's ability to run independently moderates its installation cost while reducing the equipment running cost
- Meets AS1210 specifications
- Improved corrosion protection for fluid port and protective cap
- Stronger gas valve for durability
- Standard connection
- SAE connection available on request



#### **Medium Pressure Standard AC Range**

#### **FEATURES:**

- Small diameter, ideal for space saving
- More economical in application
- Medium pressure for a wide range of applications

**Note:** Please refer to the above information for standard features

#### **SPECIFICATIONS:**

- |                         |                 |
|-------------------------|-----------------|
| ● Max. Working Pressure | 210 bar         |
| ● Max. Flow Rate        | 1176 l/m        |
| ● Nominal Gas Volume    | 10 to 50 Litres |



**Continuous growth, for more than 40 years, has made the Olaer Group one of the worldwide leaders in research, design, manufacturing and marketing of processing and packaging of fluid components in any complex system.**

Olaer was founded in 1938 by Mr Mercier, the inventor of the bladder accumulator. Since then they have developed solutions to master the fluids in some twenty different business segments: aeronautical, chemicals, defence/weapons, mining, railroad construction, Formula 1 racing, machine tools, shipbuilding, farm equipment, oil and petrochemicals, steel mills, transportation and heavy construction, offshore oil production and exploration.

The Olaer products are manufactured according to quality standards certified by various organisations: ISO 9001 and 9002 (Lloyds, Bureau Veritas), JAR 145 (for aeronautics) and RAQ 2 (for military forces).



Part Number	Nominal Weight		A		Conn. Ø F	B	C	Ø d	Ø H	SW on Flats	G Bleed Plug	O'Ring Ø int x Ø tore
	Gas Vol. in Ltr.	in Kg	Ø D Max	Max. Height								
AC10-21A	9.4	27	222	585	2" BSPF O'Ring Seal	103	80	22.5	101	70	Hex 19 af	54x3
AC20-21A	18.8	42	222	891		103	80	22.5	101	70	Hex 19 af	54x3
AC25-21A	24.5	55	222	1041		103	80	22.5	101	70	Hex 19 af	54x3
AC37-21A	35.2	66	222	1428		103	80	22.5	101	70	Hex 19 af	54x3
AC50-21A	49.2	92	222	1933		103	80	51	101	70	Hex 19 af	54x3

Note: Please refer to page 34 for ordering information

## OLAER<sup>®</sup> FAWCETT CHRISTIE High Pressure AC Range

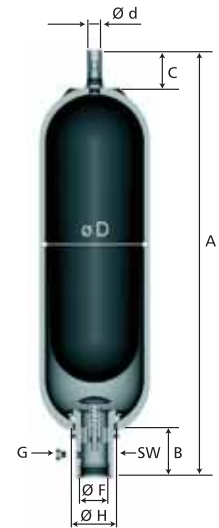
### FEATURES:

- High pressure and heavy duty applications

Note: Please refer to page 32 for standard features

### SPECIFICATIONS: For the Standard High Pressure AC Range

- Max. Working Pressure 345 bar
- Max. Flow Rate 1176 l/m
- Nominal Gas Volume 10 to 50 Litres



Part Number	Nominal Weight		A		Conn. Ø F	B	C	Ø d	Ø H	SW on Flats	G Bleed Plug	O'Ring Ø int x Ø tore
	Gas Vol. in Ltr.	in Kg	Ø D Max	Max. Height								
AC10-34A	9.4	30	229	585	2" BSPF O'Ring Seal	103	80	22.5	101	70	Hex 19 af	54x3
AC20-34A	18.8	46	229	891		103	80	22.5	101	70	Hex 19 af	54x3
AC25-34A	24.5	53	229	1041		103	80	22.5	101	70	Hex 19 af	54x3
AC37-34A	35.2	74	229	1428		103	80	22.5	101	70	Hex 19 af	54x3
AC50-34A	49.2	102	229	1933		103	80	51	101	70	Hex 19 af	54x3

Note: Please refer to page 34 for ordering information

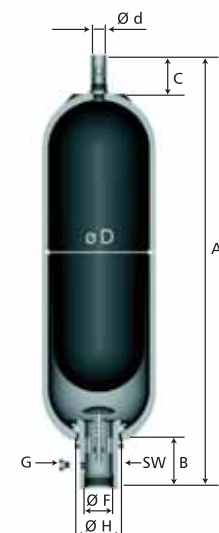
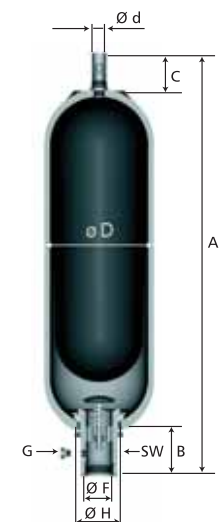
### SPECIFICATIONS: For the Small Volume AC High Pressure Range

- Max. Working Pressure 345 - 400 bar
- Max. Flow Rate 27 - 564 l/m
- Nominal Gas Volume 0.16 to 3.87 Litres

Part Number	Max. Press. in bars	Nom. Gas Vol. in Ltr	Max. Fl. Rate in l/min	Max. Wght in Kg	A		Conn. Ø F*	B	C	Ø d	Ø H	SW on Flats	O'Ring Ø int x Ø tore
					in	Max. Height							
OB-341	345	0.16	27	2	56	292	3/4" BSPM	36	40	16	26	23	21.3x2.4
OF-341	345	0.6	109	2.7	92	266	3/4" BSPF	37	40	16	35	32	21.3x2.4
O11-40A	400	1	336	5.7	118	321	3/4" BSPF	54	80	22.5	50	32	21.3x2.4
O25-40A	400	2.4	336	10	118	522	3/4" BSPF	54	80	22.5	50	32	21.3x2.4
O4-34A	345	3.8	564	14	170	446	1 1/4" BSPF	65	80	22.5	68	50	36.2x3

Note: Please refer to page 34 for ordering information

\* Bonded seal





## OLAER<sup>®</sup> FAWCETT CHRISTIE High Pressure NG Range



### FEATURES:

- High pressure and heavy duty application
- Repairable in situ

**Note:** Please refer to page 32 for standard features

### SPECIFICATIONS:

- Max. Working Pressure 345 bar
- Max. Flow Rate 1176 l/m
- Nominal Gas Volume 10 to 57 Litres
- Top Repairable

**Note:** Please refer below for ordering information



Part Number	Nominal Weight		Ø D Max	A Max. Height	Conn. Ø F	B	C	Ø d	Ø H	SW on Flats	G Bleed Plug	O'Ring Ø int x Ø tore
	Gas Vol. in Ltr.	in Kg										
NG10-34A	9.4	33	229	581	2" BSPF O'Ring Seal	103	80	22.5	101	70	Hex 19 a/f	54x3
NG20-34A	18.8	49	229	892		103	80	22.5	101	70	Hex 19 a/f	54x3
NG37-34A	35.2	77	229	1413		103	80	22.5	101	70	Hex 19 a/f	54x3
NG50-34A	49.2	105	229	1911		103	80	22.5	101	70	Hex 19 a/f	54x3
NG57-34A	52.2	125	229	2003		103	80	22.5	101	70	Hex 19 a/f	54x3

### ORDERING INFORMATION: High Pressure AC/NG Range

AC10 00A-10 - 21 A  
(1) (2) (3) (4)

#### (1) ACCUMULATOR CODE

SMALL VOLUME AC		STANDARD AC		TOP REPAIRABLE NG	
Code	Volume	Code	Volume	Code	Volume
0B	0.16	AC10	10	NG10	10
0F	0.6	AC20	20	NG20	20
011	1.15	AC25	25	NG37	37
025	2.5	AC37	37	NG50	50
04	4	AC50	50	NG57	57

#### (2) ACCUMULATOR CONSTRUCTION

Construction Code	Fluid	Working Temp.
00A-10* (Std BSP female)	Mineral Oils	-20°C + 80°C
00A-40 (SAE Code 62)	Mineral Oils	-20°C + 80°C
00A-02	Water	0°C + 50°C
00A-P1	Water	0°C + 80°C
ASA-10	Esther Phosphate	-20°C + 80°C
33F-T2 (Off shore spec.)**	Mineral Oils	-20°C + 80°C

\* Except for 0B & 0F models, construction code: 00A-00  
 \*\* All external stainless steel except for shell & name plate - low permeability bladder  
 Other fluids and other temperatures available.

#### (3) MAXIMUM WORKING PRESSURE

21 = 210 bar AC  
 34 = 345 bar 0B - 0F - 04 - AC - NG  
 40 = 400 bar 011 - 025  
 Other maximum working pressure available on request

#### (4) DESIGN STANDARD

1 = British Standard (only available for 0B & 0F accumulators)  
 A = Australian Standard  
 Other approval available on request

#### NITROGEN PRECHARGE (in bar at 20°C)

To be specified when placing your order.



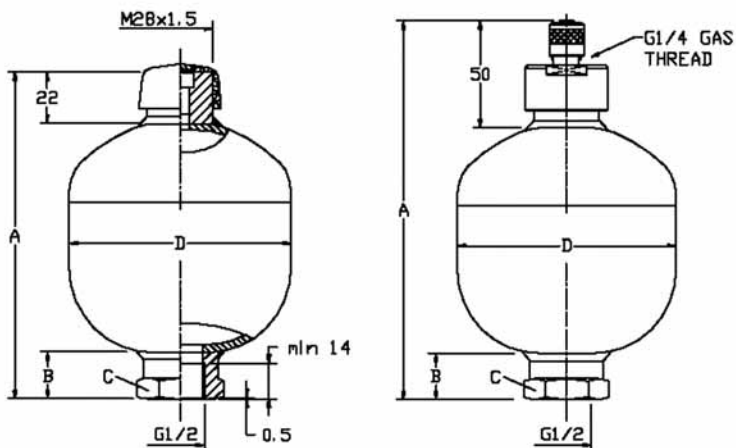
## HIGH PRESSURE DIAPHRAGM ACCUMULATORS



### FEATURES:

- Non-repairable diaphragm accumulator
- Compression ratio of 6:1
- Electron beam welded steel shell
- Standard nitrile rubber high strength diaphragm
- CE European certification
- Option G1/4" gas connection

### DIMENSIONS:



Part Number	Volume in Litres	Max. Press in bar	Charging Thread	Connection	Length/Diameter in mm		Weight in Kg
					Length A	Diameter D	
ELM 0.32-210/AF	0.32	210	M28x1.5	G1/2"	140	95	1.7
ELM 0.32-210/AF G1/4	0.32	210	G1/4"	G1/2"	168	95	1.8
ELM 0.50-210/AF	0.5	210	M28x1.5	G1/2"	163	106	2
ELM 0.50-210/AF G1/4	0.5	210	G1/4"	G1/2"	191	106	2.1
ELM 0.75-210/AF	0.75	210	M28x1.5	G1/2"	169	124	2.9
ELM 0.75-210/AF G1/4	0.75	210	G1/4"	G1/2"	197	124	3
ELM 0.75-330/AF	0.75	330	M28x1.5	G1/2"	169	131	3.9
ELM 1-200/AF	1	200	M28x1.5	G1/2"	180	136	3.5
ELM 1-200/AF G1/4	1	200	G1/4"	G1/2"	208	136	3.6





## CHARGING KITS



### Universal Charging Kit

#### FEATURES:

- The universal charging kit allows the charging of a wide variety of accumulators. Adaptors supplied in the kit suit US or European style gas valves as well as the OFC standard ranges
- The charging kit includes a bull nose adaptor for connecting directly to high pressure nitrogen cylinders. However, please note that OLAER recommend the use of a nitrogen regulator (readily available from your gas supplier) to prevent damage to the bladder during charging
- The 105CK unit incorporates a gauge and charging head which allows precharge pressure monitoring (when the accumulator is isolated from system pressure & bled). This unit is required for initial precharging as well as precharge maintenance.



Part Number	Pressure
<b>105CK-03</b>	0 to 1000 kPa gauge
<b>105CK-04</b>	0 to 2500 kPa gauge
<b>105CK-05</b>	0 to 4000 kPa gauge
<b>105CK-06</b>	0 to 6000 kPa gauge
<b>105CK-07</b>	0 to 10000 kPa gauge
<b>105CK-08</b>	0 to 16000 kPa gauge
<b>105CK-10</b>	0 to 25000 kPa gauge
<b>105CK-12</b>	0 to 40000 kPa gauge