aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding

EBV Series
Bladder Accumulators

EBV Series, up to 80 bar

Parker OLAER

ENGINEERING YOUR SUCCESS.

Description

Designed for LOW pressure fluid systems, Parker EBV/ IBV bladder accumulators are ideally suited for the Energy, Process & Marine Markets. Available in volumes 0.5 to 575 Litres, in carbon steel (20 to 80 bar), and in stainless steel (20 to 40 bar).

The EBV bladder accumulator offers a reliable and efficient solution for water hammer arrestor, thermal expansion, energy storage and pulsation dampening . Utilizing comprehensive tools and resources including an applications database, CAD/CAM, finite element analysis, reliability studies and simulation we have optimized the design and performance of the accumulator.

A high volume solution (up to 4000 litres) has been specially developed for energy storage and thermal expansion. Parker Olaer bladder accumulators are suitable for use in more than 35 countries (all hydraulic accumulators for Europe are CE marked) and they can meet an extensive range of international and industry approvals.

The standard EBV bladder accumulator has a female threaded fluid port or optional flange fluid port with different flange design standards.

Rigorous product testing and continuous product development help to ensure our hydro-pneumatic accumulators operate at optimum efficiency and can perform in the most demanding environments.

Parker accumulator accessories such as safety blocks, charging sets, brackets & clamps, adaptors and flanges, lifting eyes, bladder kits, can aid the safe installation and operation of the accumulators in any hydraulic system.

Parker Olaer have developed very sophisticated simulation software to optimize sizing recommendations for hydraulic accumulators. You can download the accumulator sizing software from www.Parker.com/acde.

Features/Benefits

- **Extensive range of international and industry approvals/standards (PED 2014/68/EU, ATEX 2014/34/EU, ASME VIII div 1, SELO, CRN, AS1210, NR13, CUTR, DNV, BV Marine, ABS and GL).**
- **Suitable for Fluid Groups 1 & 2.**
- **Available in carbon and stainless steel (304, 316, 316L).**
- **Rigorous product testing and continuous product development.**
- **Parker Olaer offers a wealth of product knowledge and experience thus enabling us to provide first class technical support and customer service.**
- **A large selection of materials and fittings enable us to provide complete low pressure systems to suit every application.**
- **The EBV bladder accumulator can provide an instantaneous response.**

Markets

- **Industrial**
- **Defence**
- **Energy**
- **Marine**
- **Mining**
- **Oil and Gas**
- **Processing**
- **HVAC**
- **Industrial Chemical Processing**

Applications

- **Hydraulic Power Units**
- **Lubrication Systems**
- **Power Generation**
- **Energy Transmission & Distribution**
- **Defence**
- **Plumbing**
- **Refrigeration**
- **Heating**

Technical Specifications

The accumulator comprises a forged or welded steel shell, a rubber bladder and anti-extrusion system.

Pressure: Maximum working pressure: (PS) = 40 bar. Operating pressure (OP): 14 to 80 bar.

Volume: from 0.5 to 575 Litres

Shell Material: Options include; alloyed steel, stainless steel, aluminium, titanium and composites.

Bladder Materials: Various bladder materials available which are compatible with a wide range of fluids and temperatures.

Anti-extrusion System: perforated bushing.

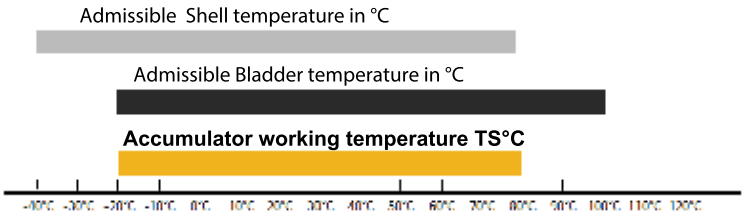
Approvals: PED 2014/68/EU, ATEX, ASME VIII div 1, SELO, CUTR, DNV, BUREAU VERITAS MARINE, ABS, Germanischer Lloyd's.

Specials: - For special constructions please consult Parker.

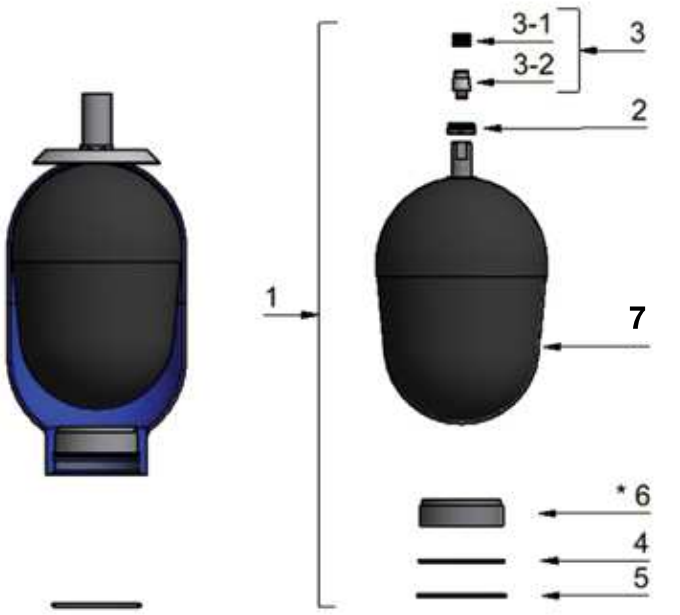
Maximum pressure differential (P2/P0): 4:1

Nitrogen gas pressure : Never precharge accumulators at a pressure exceeding 20 bar at maximum working temperature with nitrogen purity > 99,8% N2 class 2.8

Accumulator working temperature determination example :



Spare Parts



Item	Spare parts
1	Spare Parts Kit
2	Valve nut
3	Gas valve Assembly
3.1	Gas valve
3.2	Gas valve plug
4	Snap ring
5	Sealing ring
6*	Bushing assembly
7	Bladder

* These parts are not delivered in the spare parts kit (complete repair kit)

Installation

Position: Preferably vertical (liquid connection downwards) to horizontal, depending upon application. If the accumulator is installed in any position other that vertical with fluid port down, contact Parker. The accumulator could have reduced volumetric efficiency and Parker can help you to take these factors into account.

Mounting: A 200mm clearance is required above the accumulator to allow for gas charging. Each accumulator is delivered with a user instructions manual.
Nitrogen gas pressure: If not specified, the accumulator will be deliver with a storage pressure between 2 and 5 bar.

Safety instruction : Never precharge accumulator at a precharge pressure exceeding 20 bar at maximum working temperature or limited to the pressure of the shell if under 20 bar.

EBV Series: How to order a low pressure accumulator

EBV 10- **40** /90-**A**25**G**A-**2**00/**020**

Product Type
EBV: Low pressure bladder
ETBV: Low pressure transfer bladder

Volume in L (up to 3 Characters)
0,5 - for 0,5 Liter
20 - for 20 Liters
100 - for 100 Liters

Maximum Working Pressure
20 - for 20 bar max working pressure
40 - for 40 bar max working pressure
80 - for 80 bar max working pressure
* - If the product is not CE, use highest MWP according to regulation relevant to the product (see Approvals PAGES 82&83)

Approvals*
00 According to PED2014/68/EU, article 4.3
11 According to PED2014/68/EU + BV Marine
13 According to PED2014/68/EU, article 4.3 + BV Marine
15 According to ASME VIII div 1
23 According to PED2014/68/EU, article 4.3 + ABS
24 According to PED2014/68/EU + DNVGL
41 According to PED2014/68/EU + ABS
43 According to PED2014/68/EU, article 4.3 + ABS
71 According to CUTR 032/2013
83 According to PED2014/68/EU + AS1210
85 According to PED2014/68/EU, article 4.3 + SELO
88 According to PED2014/68/EU + SELO
90 According to PED2014/68/EU
AA According to PED2014/68/EU + NR13
AE According to ASME VIII div 1 + NR13
AU According to ASME VIII div 1 + CUTR 032/2013
* - (Please refer to Approvals PAGES 82&83)

Material (Shell and Fluid Port)
A - All parts in carbon steel with Epoxy paint for shell only [-20°C;+130°C]
B - Carbon Steel shell + Internal Protection Epoxy 80 µm + stainless steel fluid port and valve
C - Carbon Steel shell + Int- Ext Protection Kanigen 50 µm + stainless steel fluid port and valve
D - Carbon Steel shell + Int- Ext Protection Blue Rilsan 200-300 µm + carbon steel fluid port and valve
E - Carbon Steel shell + stainless steel fluid port and valve
F - Carbon steel shell + Internal Protection Teflon 40-50 µm
I - All parts in stainless steel [-40°C;+80°C]
R - Carbon Steel shell + Int- Ext Protection Blue Rilsan 200-300 µ + stainless steel fluid port and valve
Z - Special

Bladder Mix
02 - For Mix 02 [-32°C;+115°C] Hydrin C
10 - For Mix 10 [-30°C;+80°C] Nitrile Low Temperature
20 - For Mix 20 [-6°C;+100°C] Nitrile Heavy Duty
25 - For Mix 25 [-20°C;+100°C] Nitrile standard
30 - For Mix 30 [-5°C;+115°C] Nitrile Low Permeability
35 - For Mix 35 [0°C;+130°C] Nitrile high temperature
37 - For Mix 37 [-59°C;+110°C] Nitrile Extreme Low Temp
40 - For Mix 40 [-15°C;+120°C] Butyl
47 - For Mix 47 [-40°C;+120°C] EPDM
80 - For Mix 80 [-20°C;+140°C] Viton

Fluid Port Configuration
G - Gas cyl. 2" (max flow rate: 900L/min)
K - Gas cyl. 2"(max flow rate : 450L/min)
L - Gas cyl. 3"1/2 (max.flow rate : 300L/min)
P - Metric M 205x3 (3000L/min)
Z - Special

Gas Valve Configuration
0 - No gas valve
A - Gas Valve Type - 5/8"- 18 UNF
B - Gas Valve Type - 7/8"- 14 UNF
C - Gas Valve Type- 7/8" -14 UNF integrated
D - Gas Valve Type - 5/8"- 18 UNF integrated
Z - Special

Fluid Type
0 - Not applicable
1 - Fluid Type 1 CE Fluid Group 1
2 - Fluid Type 2 - CE Fluid Group 2

Special
00 - No Special features or configuration
EX - ATEX
EZ - ATEX with other special configuration
SP - Special painting
D1 - Standard documentation + Leak test report
D2 - Standard documentation + Descriptive statement + Design calculation note
ZZ - Special configuration or several options

Precharge @ 20°C in Bar
When at storage pressure (Keep empty)*
20 - From 0 to 20 Bar precharge MAXI example
*Parker precharge accumulator with 2 Bar for storage

EBV Series 40, 50 & 80 bar, 0.5 to 200 Litres

Standard version (**Carbon Steel** shell/NBR mix) compatible with mineral oils (2). According to PED 2014/68/EU, Fluid Group 2 (3)

Part numbers, Accessories, Dimensions

Type Part number	Valve see drawing	Adaptor Threaded	Flange Model	 Model	Clamps Model (quantity) Part number	Support Bracket Model Part number	Lifting Eye on gas side Model Part number	Complete Repair KIT Model Part number
EBV 0.5-50/00-A25KD-200* 10383101125	D	G 1" cyl 04557000223	1½" ANSI 150 lbs 04542000123		E95 (1) 20250803648			KIT EBV 0.5-50/00-A25GD 19002900225
EBV 1-80/00-A25KC-200* 10909801125	C	G 1" cyl 04557000223	1½" ANSI 150 lbs 04542000123	1½" ANSI 300 lbs 04524100123	E114 (1) 20251003648	CE 89 20151903620		KIT EBV 1-80/00-A25GC 19044300225
EBV 2.5-80/90-A25KC-200 10909901125	C	G 1" cyl 04557000223	1½" ANSI 150 lbs 04542000123	1½" ANSI 300 lbs 19050600225	E114 (2) 20251003648	CE 89 20151903620		KIT EBV 2.5-80/90-A25GC 19044400225
EBV 5-80/90-A25KC-200 10910001125	C	G 1" cyl 04557000223	1½" ANSI 150 lbs 04542000123	1½" ANSI 300 lbs 19050700225	E114 (2) 20251003648	CE 89 20151903620		KIT EBV 5-80/90-A25GC 19044500225
EBV 10-40/90-A25LA-200 10910401125	A	G 2" cyl 04570300223	4" ANSI 150 lbs 04500300123	4" ANSI 300 lbs 04520800123	D215 (2) 20251403648	CE 159A 20109003620	10912700200	KIT EBV 10-40/90-A25LA 19043900225
EBV 20-40/90-A25LA-200 10910501125	A	G 2" cyl 04570300223	4" ANSI 150 lbs 04500300123	4" ANSI 300 lbs 04520800123	D215 (2) 20251403648	CE 159A 20109003620	10912700200	KIT EBV 20-40/90-A25LA 19044000225
EBV 32-40/90-A25LA-200 10910601125	A	G 2" cyl 04570300223	4" ANSI 150 lbs 04500300123	4" ANSI 300 lbs 04520800123	D215 (2) 20251403648	CE 159A 20109003620	10912700200	KIT EBV 32-40/90-A25LA 19044100225
EBV 50-40/90-A25LA-200 11077501125	A	G 2" cyl 04570300223	4" ANSI 150 lbs 04500300123	4" ANSI 300 lbs 19051100225	D215 (2) 20251403648	CE 159A 20109003620	10912700200	KIT EBV 50-40/90-A25LA 19054700225
EBV 100-40/90-A20PA-200 (4) 10918001120	A	G 2" cyl 04565600223	8" ANSI 150 lbs 04500800123	8" ANSI 300 lbs 04500900123	D368 (2) 20127403625	CE 300 20150800100		KIT EBV 100-40/90-A20PA 19044600220
EBV 200-40/90-A20PA-200 (4) 10918101120	A	G 2" cyl 04565600223	8" ANSI 150 lbs 04500800123	8" ANSI 300 lbs 04500900123	D368 (2) 20127403625	CE 300 20150800100		KIT EBV 200-40/90-A20PA 19044700220

* According PED 2014/68/EU Article 4.3

(2) For other fluids consult Parker

(3) For Fluid group 1 consideration : consult Parker

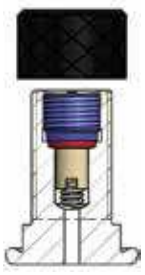
(4) Accumulators 100&200 Litres standar Nitrile Mix 20

Accumulators are delivered with the nitrogen pre-charge 3 bar.

The charging pressure for low pressure accumulators must never exceed **20 bar** at the maximum operating temperature.

Model of valve stem
5/8" 18 UNF
(A)

Model of valve stem
integrated
7/8"14 UNF
(C)



Model of valve stem
integrated
5/8" 18 UNF
(D)

Type	Effective Gas vol. Litres	Max. Working pressure (PS) bar	Max. Flow Rate l/min	Admissible accumulator Temp. min/max °C (1)	Max. Weight kg	Gas Connection	Dimensions in mm							
							A max height	B	C	øD max	ød	Øe	F on flats	G connection BSP
EBV 0.5-50/00-A25KD-200*	0.5	50	450	-20/100	3	5/8" 18 UNF	245	52	28	90	16	68	-	G2"
EBV 1-80/00-A25KC-200*	1	80	450	- 20/100	5	7/8"14 UNF	310	47	66	116	22.5	68	-	G2"
EBV 2.5-80/90-A25KC-200	2.3	80	450	- 20/100	10	7/8"14 UNF	484	47	66	116	22.5	68	-	G2"
EBV 5-80/90-A25KC-200	5	80	450	- 20/100	17	7/8"14 UNF	867	47	66	116	22.5	68	-	G2"
EBV 10-40/90-A25LA-200	10	40	900	- 20/100	13	5/8" 18 UNF	454	51	75	212	22.5	120	112	G3½"
EBV 20-40/90-A25LA-200	18	40	900	- 20/100	22	5/8" 18 UNF	776	51	75	212	22.5	120	112	G3½"
EBV 32-40/90-A25LA-200	34	40	900	- 20/100	37	5/8" 18 UNF	1309	51	75	212	22.5	120	112	G3½"
EBV 50-40/90-A25LA-200	50	40	900	- 20/100	51	5/8" 18 UNF	1824	51	75	212	22.5	120	112	G3½"
EBV 100-40/90-A**20**PA-200	90	40	3000	- 6/110	124	5/8" 18 UNF	1318	158	93	371	80	224	-	M205x3
EBV 200-40/90-A**20**PA-200	202	40	3000	- 6/110	215	5/8" 18 UNF	2529	158	93	371	80	224	-	M205x3

(1)Temperature range can change depending on shell and elastomer material. Please see bladder materials and Type (page 87)

Above dimensions are in mm and are subject to manufacturing tolerances.

EBV Series 20 bar, 100 to 575 Litres

Standard version (**Carbon Steel** shell/NBR mix) compatible with mineral oils (2). According to PED 2014/68/EU, Fluid Group 2 (3)

Part numbers, Accessories, Dimensions

Type Part number	Adaptor Threaded Part number	Flange Model Part number	 Model Part number	Complete Repair Kit Model Part number
EBV 100-20/90-A25PA-200 10962101125	G 2" cyl 04565600223	8" ANSI 150 lbs 04500800123	8" ANSI 300 lbs 04500900123	KiT EBV 100-20/90-A20LA 19050400225
EBV 150-20/90-A25PA-200 10962201125	G 2" cyl 04565600223	8" ANSI 150 lbs 04500800123	8" ANSI 300 lbs 04500900123	KiT EBV 150-20/90-B20LA 19050500225
EBV 200-20/90-A25PA-200 10962301125	G 2" cyl 04565600223	8" ANSI 150 lbs 04500800123	8" ANSI 300 lbs 04500900123	KiT EBV 200-20/90-B20LA 19050600225
EBV 300-20/90-A25PA-200 10962401125	G 2" cyl 04565600223	8" ANSI 150 lbs 04500800123	8" ANSI 300 lbs 04500900123	KiT EBV 300-20/90-B30LA 19050700225
EBV 375-20/90-A25PA-200 10962501125	G 2" cyl 04565600223	8" ANSI 150 lbs 04500800123	8" ANSI 300 lbs 04500900123	KiT EBV 375-20/900-A25LA 19050800225
EBV 475-20/90-A25PA-200 10962601125	G 2" cyl 04565600223	8" ANSI 150 lbs 04500800123	8" ANSI 300 lbs 04500900123	KiT EBV 475-20/90-A25LA 19050900225
EBV 530-20/90-A25PA-200 10962701125	G 2" cyl 04565600223	8" ANSI 150 lbs 04500800123	8" ANSI 300 lbs 04500900123	KiT EBV 500-20/90-A25LA 19051000225
EBV 575-20/90-A25PA-200 10962801125	G 2" cyl 04565600223	8" ANSI 150 lbs 04500800123	8" ANSI 300 lbs 04500900123	KiT EBV 575-20/90-A25LA 19051100225

(2) For other fluids consult Parker

(3) For Fluid group 1 considération : consult Parker

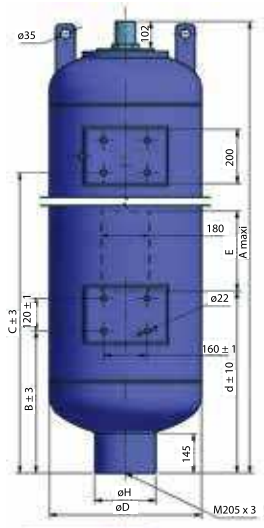
Accumulators are delivered with the nitrogen pre-charge 3 bar.

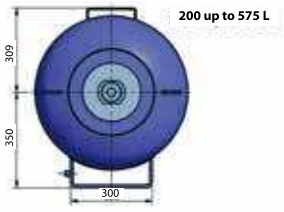
The charging pressure for low pressure accumulators must never exceed **20 bar** at the maximum operating temperature.

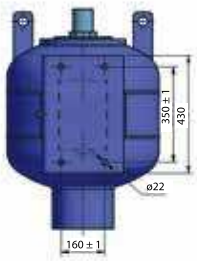
Model of valve stem
5/8" 18 UNF
(A)

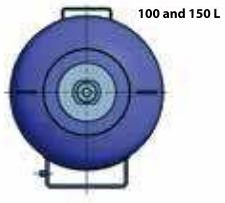
Type	Effective Gas vol. Litres	Max. Working pressure (PS) bar	Max. Flow rate (l/mn)	Admissible accumulator Temp. min/ max °C (1)	Max Weight kg	Gas connection	Dimensions in mm							
							A max height	B	C	øD max	ød	øE	G connection	øH
EBV 100-20/90-A25PA-200	93	20	3000	- 20/80	145	5/8" 18 UNF	824	244	-	561	291.5	255	M205x3	224
EBV 150-20/90-A25PA-200	139	20	3000	- 20/80	170	5/8" 18 UNF	1027	345.5	-	561	373	295	M205x3	224
EBV 200-20/90-A25PA-200	207	20	3000	- 20/80	208	5/8" 18 UNF	1326	465	752	561	600	295	M205x3	224
EBV 300-20/90-A25PA-200	293	20	3000	- 20/80	253	5/8" 18 UNF	1702	522	1128	561	668	295	M205x3	224
EBV 375-20/90-A25PA-200	379	20	3000	- 20/80	300	5/8" 18 UNF	2083	522	1509	561	1049	295	M205x3	224
EBV 475-20/90-A25PA-200	473	20	3000	- 20/80	350	5/8" 18 UNF	2497	522	1923	561	1463	295	M205x3	224
EBV 530-20/90-A25PA-200	532	20	3000	- 20/80	380	5/8" 18 UNF	2756	522	2182	561	1722	295	M205x3	224
EBV 575-20/90-A25PA-200	565	20	3000	- 20/80	400	5/8" 18 UNF	2905	522	2231	561	1871	295	M205x3	224

(1)Temperature range can change depending on shell and elastomer material. Please see bladder materials and Type (page 87)









IBV Series 35 bar, 100 to 575 Litres

Standard version (**Carbon Steel** shell/NBR mix) compatible with mineral oils (2).

According to ASME VIII Division I U STAMPED

Part numbers, Accessories, Dimensions

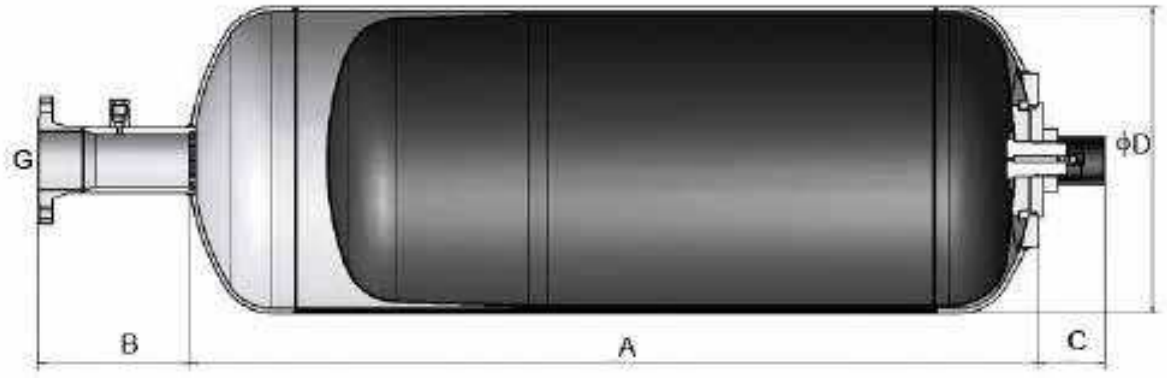
Type Part Number	Flange	Complete Repair Kit
		Part number
IBV 100.35/90 J41000355419R25	Welded flange 4"#150RF other available upon request.	8590009-xxyy
IBV 150.35/90 J41500355419R25		8590010-xxyy
IBV 200.41/90 U22000415A25920		8590011-xxyy
IBV 300.35/90 J43000355419R25		8590013-xxyy
IBV 375.35/90 J43750355419R25		8590014-xxyy
IBV 475.35/90 J44750355419R25		8590015-xxyy
IBV 575.35/90 J45750355419R25		8590017-xxyy

Available in PED 2014/68/EU version Fluid Group 1 or 2

Available in stainless steel, Duplex and Superduplex

(2) For other fluids consult Parker

Type	Effective Gas vol. Litres	Max.Working pressure (PS) bar	Admissible accumulator Temp. min/max °C	Max Weight kg	Dimensions in mm				
					A max height	B	C	øD max	G connection
IBV 100.35/90	103	35	- 20°C +100°C	188	556	260	175	560	4"
IBV 150.35/90	154	35	- 20°C +100°C	220	759	260	175	560	4"
IBV 200.41/90	205	41	- 20°C +100°C	271	1058	260	175	560	4"
IBV 300.35/90	303	35	- 20°C +100°C	339	1448	260	175	560	4"
IBV 375.35/90	377	35	- 20°C +100°C	397	1815	260	175	560	4"
IBV 475.35/90	478	35	- 20°C +100°C	463	2230	260	175	560	4"
IBV 575.35/90	579	35	- 20°C +100°C	525	2638	260	175	560	4"



IBV Series 14 bar, 10 to 50 Litres

Standard version (**Stainless Steel** shell/compatible with mineral oils) (2).

According to ASME VIII Division I U STAMPED

Part numbers, Accessories, Dimensions

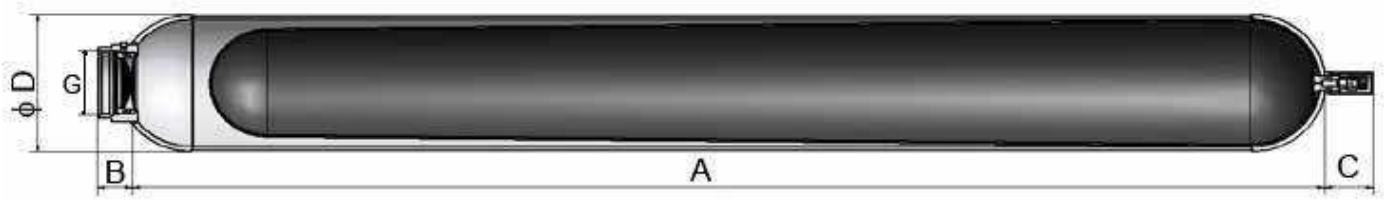
Type **Part number**	**Adaptor**	**Flange**	**Clamps**	**Support Bracket**	**Complete Repair Kit**
			Model (quantity) **Unit** Part number	Model Part number	Part number
IBV 10.14 J4010014500XR25	Various adaptors and flanges available Consult Division		D215 (2) 20251403648	CE 159A 20109003620	8590001-xxyy
IBV 12.14 J4012014500XR25			D215 (2) 20251403648	CE 159A 20109003620	8590002-xxyy
IBV 20.14 J4020014500XR25			D215 (2) 20251403648	CE 159A 20109003620	
IBV 24,5.14 J4245014500XR25			20251403648	20109003620	8590004-xxyy
IBV 32.14 J4032014500XR25			D215 (2) 20251403648	CE 159A 20109003620	8590005-xxyy
IBV 50.14 J4050014500XR25			D215 (2) 20251403648	CE 159A 20109003620	8590006-xxyy

Available in PED 2014/68/EU version Fluid Group 1 or 2

Available in carbon steel, Duplex and Superduplex

(2) For other fluids consult Parker

Type	Effective Gas vol. Litres	Max.Working pressure (PS) bar	Admissible accumulator Temp. min/max °C	Max Weight kg	Dimensions in mm					
					A max height	B	C	øD max	G connection	Or fluid size
IBV 10.14	9	14	- 20/100	16	324	215	57	66	3"1/2	96x3
IBV 12.14	11	14	- 20/100	20	435	215	57	66	3"1/2	96x3
IBV 20.14	18	14	- 20/100	27	645	215	57	66	3"1/2	96x3
IBV 24,5.14	22.5	14	- 20/100	32	815	215	57	66	3"1/2	96x3
IBV 32.14	32	14	- 20/100	44	1180	215	57	66	3"1/2	96x3
IBV 50.14	48.5	14	- 20/100	62	1695	215	57	66	3"1/2	96x3



IBV Series 14 bar, 100 and 200 Litres

Standard version (**Stainless Steel** shell/compatible with mineral oils) (2).

According to ASME VIII Division I U STAMPED

Part numbers, Accessories, Dimensions

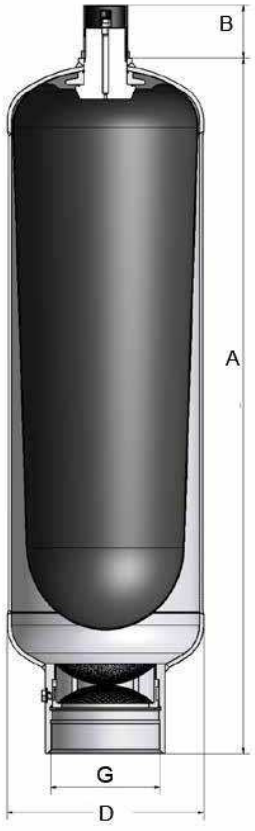
Type Part number	**Adaptor**	**Flange**	**Clamps**	**Support Bracket**	**Complete Repair Kit**
			Model (quantity) Part number	Model Part number	Part number
IBV 100.14 J41000146419H20	Various adaptors and flanges available		D368 (2) 20127403625	CE 300 20150800100	8590007-xxyy
IBV 200.14 J62000145419R25			D368 (2) 20127403625	CE 300 20150800100	8590008-xxyy

Available in PED 2014/68/EU version Fluid Group 1 or 2

Available in carbon steel, Duplex and Superduplex

(2) For other fluids consult Parker

Type	Effective Gas vol. Litres	Max. Working pressure (PS) bar	Admissible accumulator Temp. min/max °C	Max Weight kg	Dimensions in mm				
					A max height	B	øD max	G connection	Or fluid size
IBV 100.14	97	14	-6/100	85	1215	95	368	M205x3	196 x 3
IBV 200.14	196.5	14	-6/100	154	2427	95	368	M205x3	196 x 3



IBV Series 14 bar, 100 to 575 Litres

Standard version (**Stainless Steel** shell/compatible with mineral oils (2)).

According to ASME VIII Division I U STAMPED

Part numbers, Accessories, Dimensions

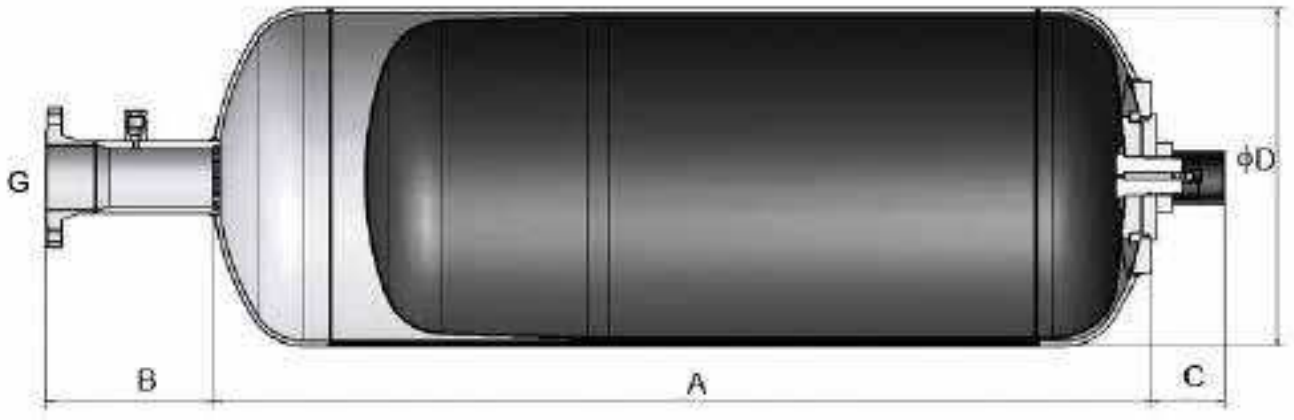
Type Part number	**Flange**	**Complete Repair Kit** Part number
IBV 100.14 J41000145419R25	Welded flange 4"#150RF other available upon request. Consult Division	8590009-xxyy
IBV 150.14 J41500145419R25		8590010-xxyy
IBV 200.14 J42000145419R25		8590011-xxyy
IBV 300.14 J43000145419R25		8590013-xxyy
IBV 375.14 J43750145419R25		8590014-xxyy
IBV 475.14 J44750145419R25		8590015-xxyy
IBV 575.14 J45750145419R25		8590017-xxyy

Accumulators shall be provided with Welded brackets or legs.

Available in PED 2014/68/EU version Fluid Group 1 or 2

(2) For other fluids consult Parker

Type	Effective Gas vol. Litres	Max. Working pressure (PS) bar	Admissible accumulator Temp. min/max °C	Max Weight kg	Dimensions in mm				
					A max height	B	C	øD max	G connection
IBV 100.14	103	14	-20/100	129	556	260	175	560	4"
IBV 150.14	154	14	-20/100	153	759	260	175	560	4"
IBV 200.14	205	14	-20/100	187	1058	260	175	560	4"
IBV 300.14	303	14	-20/100	234	1448	260	175	560	4"
IBV 375.14	377	14	-20/100	274	1815	260	175	560	4"
IBV 475.14	478	14	-20/100	320	2230	260	175	560	4"
IBV 575.14	579	14	-20/100	365	2638	260	175	560	4"



EBV Series 20 & 40 bar, 0.5 to 200 Litres

Standard version (**Stainless Steel** shell/NBR mix) compatible with mineral oils (2). According to PED 2014/68/EU, Fluid Group 2 (3)

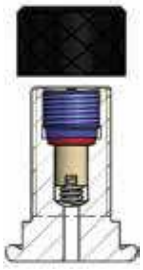
Part numbers, Accessories, Dimensions

Type Part number	**Valve** see drawing	**Adaptor** Threaded Part number	**Flange** Model Part number	**Flange** Model Part number	**Clamps** Model Part number	**Support Bracket** Model Part number	**Lifting Eye** on gas side Model Part number	**Complete Repair Kit** Model Part number
EBV0,5-40/00-I25KD-200* 10929001925	D	G 1" cyl 04557001423	-	-	10957	-	-	KIT EBV 0.5-40/00-I25GD 19010401725
EBV 1-40/00-I25KC-200* 10929101925	C	G 1" cyl 04557001423	1½" ANSI 150 lbs 04542001423	1½" ANSI 300 lbs 04524101423	10981	CE 89 20151901220		KIT EBV 1-40/00-I20GC 19044301720
EBV 2,5-40/90-I25KC-200 10929201925	C	G 1" cyl 04557001423	1½" ANSI 150 lbs 04542001423	1½" ANSI 300 lbs 04524101423	10981	CE 89 20151901220	-	KIT EBV 2.5-40/90-I20GC 19044401720
EBV 5-40/90-I25KC-200 10929301925	C	G 1" cyl 04557001423	1½" ANSI 150 lbs 04542001423	1½" ANSI 300 lbs 04524101423	10981	CE 89 20151901220		KIT EBV 5-40/90-I25GC 19044501725
EBV 10-40/90-I25LA-200 10910401925	A	G 2" cyl 04570301423	4" ANSI 150 lbs 04500301423	4" ANSI 300 lbs 04520801423		CE 159A 20109001220	10912701200	KIT EBV 10-40/90-I25LA 19043901725
EBV 20-40/90-I25LA-200 10910501925	A	G 2" cyl 04570301423	4" ANSI 150 lbs 04500301423	4" ANSI 300 lbs 04520801423		CE 159A 20109001220	10912701200	KIT EBV 20-40/90-I25LA 19044001725
EBV 32-40/90-I25LA-200 10910601925	A	G 2" cyl 04570301423	4" ANSI 150 lbs 04500301423	4" ANSI 300 lbs 04520801423		CE 159A 20109001220	10912701200	KIT EBV 32-40/90-I25LA 19044101725
EBV 50-40/90-I25LA-200 11077501925	A	G 2" cyl 04570301423	4" ANSI 150 lbs 04500301423	4" ANSI 300 lbs 04520801423		CE 159A 20109001220	10912701200	KIT EBV 50-40/90-I25LA 19054701725
EBV 100-20/90-I**20**PA-200 (1) 10951901920	A		8" ANSI 150 lbs 04500801423	8" ANSI 300 lbs 04500901423		CE 300	-	KIT EBV 100-40/90-I20PA 19044601220
EBV 200-20/90-I**20**PA-200 (1) 10952001920	A		8" ANSI 150 lbs 04500801423	8" ANSI 300 lbs 04500901423		CE 300	-	KIT EBV 200-40/90-I20PA 19044701220

* According to PED 2014/68/EU Article 4.3
(2) For other fluids consult Parker
(3) For Fluid group 1 consideration : consult Parker
(4) Accumulators 100&200 Litres standar Nitrile Mix 20

Model of valve stem 5/8" 18 UNF (A)

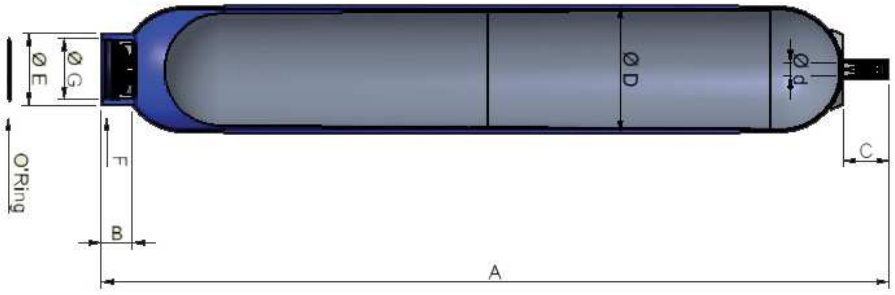
Model of valve stem integrated 7/8"14 UNF (C)



Model of valve stem integrated 5/8" 18 UNF (D)

Type	Effective Gas volume Litres	Max. Working pressure (PS) bar	Max. Flow rate (l/mn)	Admissible Accumulator Temp. min/max °C (1)	Max Weight kg	Gas connection	Dimensions in mm							
							A max height	B	C	øD max	ød	ØE	F on flats	G connection
EBV0,5-40/00-I25KD-200*	0.5	40	450	- 20/100	1.2	5/8" 18 UNF	246	52	30	91	16	70	-	G2"
EBV 1-40/00-I25KC-200*	1	40	450	- 20/100	1.7	7/8" 14 UNF	312	52	75	110	22.5	70	-	G2"
EBV 2,5-40/90-I25KC-200	2.5	40	450	- 20/100	3.5	7/8" 14 UNF	486	51	75	110	22.5	70	-	G2"
EBV 5-40/90-I25GC-200	5	40	450	- 20/100	6.5	7/8" 14 UNF	869	51	75	110	22.5	70	-	G2"
EBV 10-40/90-I25LA-200	10	40	900	- 20/100	13	5/8" 18 UNF	454	51	75	212	22.5	120	112	G3½"
EBV 20-40/90-I25LA-200	18	40	900	- 20/100	22	5/8" 18 UNF	776	51	75	212	22.5	120	112	G3½"
EBV 32-40/90-I25LA-200	34	40	900	- 20/100	37	5/8" 18 UNF	1309	51	75	212	22.5	120	112	G3½"
EBV 50-40/90-I25LA-200	50	40	900	- 20/100	51	5/8" 18 UNF	1829	51	75	212	22.5	120	112	G3½"
EBV 100-20/90-I20PA-200	90	20	3000	- 6/80	92	5/8" 18 UNF	1317	158	93	371	80	224	-	M205 x 3
EBV 200-20/90-I20PA-200	202	20	3000	- 6/80	171	5/8" 18 UNF	2528	158	93	371	80	224	-	M205 x 3

(1)Temperature range can change depending on shell and elastomer material. Please see bladder materials and Type (page 87)
Above dimensions are in mm and are subject to manufacturing tolerances.



Adaptors EBV Carbon Steel

Part numbers, Dimensions

Accumulator model	Connection of accumulator ø F	Connection ø I	Part Number
EBV 0,5 to 5 Litres 50 & 80 Bar	G 2”	G1"	04557000223
		Blind	04502400223
EBV 10 to 50 Litres 40 Bar	G 3 1/2”	G2"	04570300223
		Blind	04500500223
EBV 100 to 200 Litres 40 Bar	M205 x 3	G2"	04565600223
		Blind	04500600123

Adaptors EBV Stainless Steel

Accumulator model	Connection of accumulator ø F	Connection ø I	Part Number
EBV 0,5 to 5 Litres 40 Bar	G 2”	G1"	04557001423
		Blind	04502401423
EBV 10 to 50 Litres 40 Bar	G 3 1/2”	G2"	04570301423
		Blind	04500501423
EBV 100 to 200 Litres 20 Bar	M205 x 3	G2"	Consult Division
		Blind	Consult Division

(1) 2 holes dia 8,5 x 10

Flanges EBV Carbon Steel

Accumulator model	Connection of accumulator ø G	Flange Model	Part Number	K
EBV 1 to 5 Litres 40 Bar	G 2”	1 1/2" ANSI 150 lbs	04542000123	21.5
		1 1/2" ANSI 300 lbs	04524100123	25
EBV 10 to 50 Litres 40 Bar	G 3 1/2”	4" ANSI 150 lbs	04500300123	28
		4" ANSI 300 lbs	04520800123	36.5
EBV 100 to 575 Litres 40 Bar	M205 x 3	8" ANSI 150 lbs	04500800123	142
		8" ANSI 300 lbs	04500900123	151

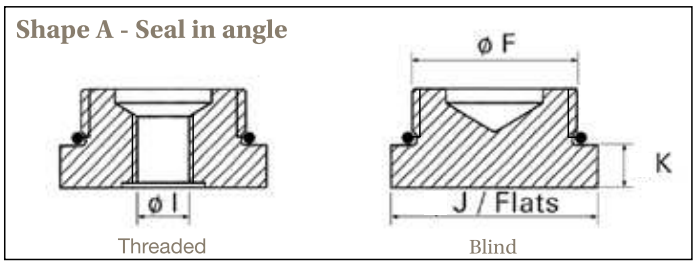
Flanges EBV Stainless Steel

Accumulator model	Connection of accumulator ø G	Flange Model	Part Number	K
EBV 1 to 5 Litres 40 Bar	G 2”	1 1/2" ANSI 150 lbs	04542001423	21.5
		1 1/2" ANSI 300 lbs	04524101423	25
EBV 10 to 50 Litres 40 Bar	G 3 1/2”	4" ANSI 150 lbs	04500301423	28
		4" ANSI 300 lbs	04520801423	36.5
EBV 100 to 575 Litres 40 Bar	M205 x 3	8" ANSI 150 lbs	04500801223	142
		8" ANSI 300 lbs	04500901223	151

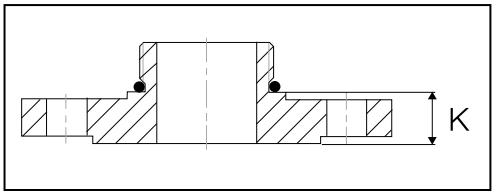
Shape	J/Flats	K	O-ring
A	65	13	A. O-Ring 54 x 3
A	65	13	O-Ring 54 x 3
A	112	20	O-Ring 96 x 4
A	112	20	O-Ring 96 x 4
A	2x Ø8,5x10	20	O-Ring 196,21 x 5,33
A	2x Ø8,5x10	20	O-Ring 196,21 x 5,33

Shape	J/Flats	K	O-ring
A	-	13	A. O-Ring 54 x 3
A	65	13	O-Ring 54 x 3
A	112	20	O-Ring 96 x 4
A	112	20	O-Ring 96 x 4
A	-	20	O-Ring 196,21 x 5,33
A	-	20	O-Ring 196,21 x 5,33

Adaptors EBV



Flanges EBV



These accessories are designed to perfectly fit Parker ACDE accumulators. They meet the latest regulations and are compliant with the CETOP standard.

Notes

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding

EHV Series
Bladder Accumulators

High Pressure, 250 to 690 bar

Parker OLAER

ENGINEERING YOUR SUCCESS.

Description

Designed for high pressure hydraulic systems the EHV bladder accumulator is available in carbon & stainless steel, (70 to 690 bar, 0.2 to 57 Litres). Options with a flanged SAE fluid port and for high flow rates are also available.

The EHV bladder accumulator offers a reliable and efficient solution for storing energy under pressure. Utilizing comprehensive tools and resources including an applications database, CAD/CAM, finite element analysis, reliability studies and simulation we have optimized the design and performance of the accumulator. Parker Olaer bladder accumulators are suitable for use in more than 35 countries (all hydraulic accumulators for Europe are CE marked) and they can meet an extensive range of international and industry approvals.

The EHV Series bladder accumulator comes with an O-ring seal fluid port and 7/8" UNF gas connection as standard however other options are available.

Rigorous product testing and continuous product development help to ensure our hydraulic accumulators operate at optimum efficiency and can perform in the most demanding environments. Parker accumulator accessories such as Safety Blocks, Burst Discs and Permanent Charging Sets, can aid the safe installation and operation of the accumulators in any hydraulic system.

Parker Olaer have developed very sophisticated simulation software to optimize sizing recommendations for hydraulic accumulators. You can download the accumulator sizing software from www.Parker.com/acde.

Features/Benefits

- **Extensive range of international and industry approvals (PED 2014/68/EU, EN 14359, ATEX, ASME VIII div 1, SELO, CRN, AS1210, NR13, CUTR, DNV, BV Marine, ABS and GL)**
- **Rigorous product testing and continuous product development**
- **Large selection of materials and fittings to suit every hydraulic system.**
- **Parker Olaer offers a wealth of product knowledge and experience thus enabling us to provide first class technical support and customer service.**

Markets

- **Industrial**
- **Defense**
- **Renewable Energy**
- **Marine**
- **Mining**
- **Mobile**
- **Oil and Gas**
- **Processing**
- **Rail**

Applications

- **Hydraulic Power Units**
- **Ship Cranes**
- **Wind Turbines**
- **Plastic Presses**
- **Tooling Machines**
- **Construction/Mobile Vehicles**
- **Machine Tools**

Technical Specifications

The accumulator comprises a forged or welded steel shell, a rubber bladder and anti-extrusion system.

Volume: 0.2 to 200 Litres

Pressure: 70 to 690 bar

Shell Material: Options include; alloyed steel, stainless steel, aluminium, titanium and composites.

Bladder Materials: Various bladder materials available which are compatible with a wide range of fluids and temperatures.

Anti-extrusion System: Fluid port

Approvals: PED 2014/68/EU, ATEX, ASME VIII div 1, SELO, CUTR, DNV, BUREAU VERITAS MARINE, ABS, Germanischer Lloyd's.

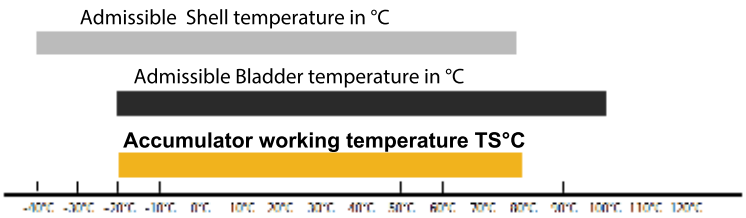
Specials: - For special constructions please consult Parker.

Maximum pressure differential (P2/P0): 4:1

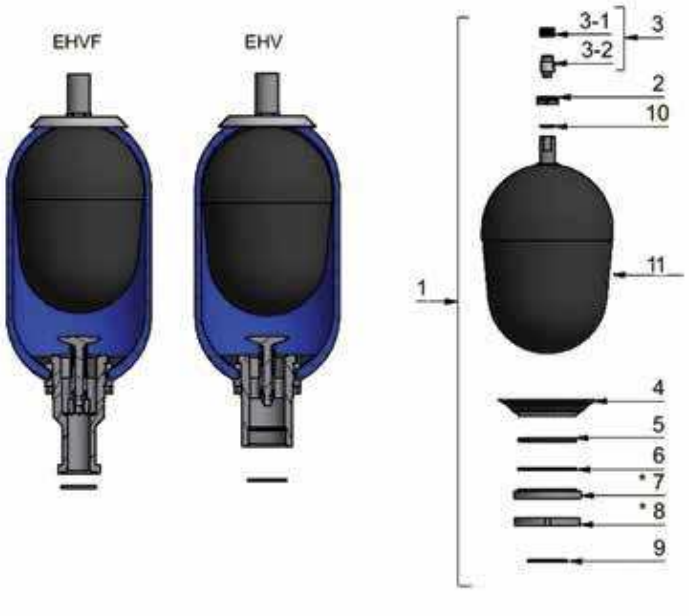
Nitrogen gas pressure : The maximum pressure (PS) with nitrogen purity > 99.8% N2 class 2.8, is indicated on the accumulator.

Check that the maximum allowable pressure is greater than that of the hydraulic

Accumulator working temperature determination example :



Spare Parts



Item	Spare parts
1	Spare Parts Kit
2	Valve nut
3	Gas valve Assembly
3.1	Gas valve
3.2	Gas valve plug
4	Anti-extrusion ring
5	Fluid port seal
6	Back up seal ring
7*	Spacer
8*	Locking nut
9	O-ring fluid port
10	Back up ring (depending on the model)
11	Bladder

* These parts are not delivered in the spare parts kit (complete repair kit)

EHV Series: How to order a high pressure accumulator

EHV 24,5- **330** /90-**A**25**G**A-**2**00/**100**

Product Type

EHV High pressure bladder
ETHV High pressure transfer bladder
EHVF High pressure bladder flange

Volume in L (up to 4 Characters)

0,2 for 0,2 Liter
20 for 20 Liters
24,5 for 24.5 Liters

Maximum Working Pressure

120 for 120 bar max working pressure (stainless steel range)
330 for 330 bar max working pressure
350 for 350 bar max working pressure
690 for 690 bar max working pressure

*If the product is not CE, use highest MWP according to regulation relevant to the product (see Approvals PAGES 84&85)

Approvals* According to:-

00 PED2014/68/EU, article 4.3
11 PED2014/68/EU + BV Marine
13 PED2014/68/EU, article 4.3 + BV Marine
23 PED2014/68/EU, article 4.3 + ABS
24 PED2014/68/EU + DNVGL
41 PED2014/68/EU + ABS
43 PED2014/68/EU, article 4.3 + ABS
48 ASME VIII div 1 app 22
71 CUTR 032/2013
83 PED2014/68/EU + AS1210
85 PED2014/68/EU, article 4.3 + SELO
86 PED2014/68/EU + ASME VIII div 1 app 22 + SELO
88 PED2014/68/EU + SELO
90 PED2014/68/EU
91 ASME VIII div 1 app 22 + AS1210
92 ASME VIII div 1 app 22 + CRN
94 PED2014/68/EU + ASME VIII div 1 app 22
AA PED2014/68/EU + NR13
AE ASME VIII div 1 + NR13
AU ASME VIII div 1 + CUTR 032/2013

Material (Shell and Fluid Port)

A All parts in carbon steel with Epoxy paint for shell only [-40°C;+80°C]
B Carbon Steel shell + Internal Protection Epoxy 80 µm + stainless steel fluid port and valve
C Carbon Steel shell + Int- Ext Protection Kanigen 50 µm + stainless steel fluid port and valve
D Carbon Steel shell + Int- Ext Protection Blue Rilsan 200-300 µm + carbon steel fluid port and valve
E Carbon Steel shell + stainless steel fluid port and valve
F Carbon steel shell + Internal Protection Teflon 40-50 µm
I All parts in stainless steel [-40°C;+80°C]
R Carbon Steel shell + Int- Ext Protection Blue Rilsan 200-300 µ + stainless steel fluid port and valve
Z Special

Bladder Mix

02 Mix 02 [-32°C;+115°C] Hydrin C
10 Mix 10 [-30°C;+80°C] Nitrile Low Temperature
20 Mix 20 [-6°C;+100°C] Nitrile Heavy Duty
25 Mix 25 [-20°C;+100°C] Nitrile standard
30 Mix 30 [-5°C;+115°C] Nitrile Low Permeability
35 Mix 35 [0°C;+130°C] Nitrile high temperature
37 For Mix 37 [-59°C;+110°C] Nitrile Extreme Low Temp
40 For Mix 40 [-15°C;+120°C] Butyl
47 For Mix 47 [-40°C;+120°C] EPDM
80 For Mix 80 [-20°C;+140°C] Viton
E2 For Mix E2 [-15°C;+100°C] Nitrile
XL For Mix XL [-10°C;+100°C] Nitrile very low permeation

Fluid Port Configuration

A Gas cyl. 1/2" (max flow rate: 120L/min
B Gas cyl. 3/4" (max flow rate: 240L/min
C Gas cyl. 1" (max flow rate: 360L/min
D Gas cyl. 1"1/4" (max flow rate: 450L/min
E Gas cyl. 1"1/4" DA (max flow rate: 570L/min
G Gas cyl. 2" (max flow rate: 900L/min)
H Gas cyl.2" DA (max flow rate: 1200L/min)
J Gas cyl.2"1/2 GD (max flow rate 1800 L/min)
M Metric M40 x1.5
N Metric M50 x1.5
R Flange BR 400-38 (max flow rate: 900L/min, EHV 10L to 57L)
S Flange BR 400-25 (max flow rate: 450L/min, EHV 2,5L to 10L)
Z Special

Gas Valve Configuration

0 No gas valve
A Gas Valve Type - 5/8"- 18 UNF
B Gas Valve Type - 7/8"- 14 UNF
C Gas Valve Type- 7/8" -14 UNF integrated
D Gas Valve Type - 5/8"- 18 UNF integrated
E Gas Valve Type- 7/8" -14 UNF high pressure
F Gas Valve Type - 5/8"- 18 UNF + Burst disc
G Gas Valve Type - 7/8"- 14 UNF + Burst disc
H Gas Valve Type- 7/8" -14 UNF integrated + Burst disc
I Gas Valve Type - 5/8"- 18 UNF integrated + Burst disc
J Gas Valve Type- 7/8" -14 UNF high pressure + Burst disc
Z Special

Fluid Type

0 Not applicable
1 Fluid Type 1 CE Fluid Group 1
2 Fluid Type 2 - CE Fluid Group 2

Special

00 No Special features or configuration
EX ATEX
EZ ATEX with other special configuration
EU All components sourced in EU
SP Special painting
D1 Standard documentation + Leak test report
D2 Standard documentation + Descriptive statement + Design calculation note
ZZ Special configuration or several options

ASME certified accumulator according to ASME VIII Div.1 :
30 MWP = 3000 psi (207 bar)
36 MWP = 3600 psi (248 bar)
40 MWP = 4000 psi (276 bar)
50 MWP = 5000 psi (345 bar)

Precharge @ 20°C in Bar

When at storage pressure (Keep empty)*

*Parker precharge accumulator with 2 Bar for storage

100 When at storage (keep empty) example for 100 Bar precharge

EHV Series 330 bar, 10 to 57 Litres

Standard version (Carbon Steel shell/NBR mix) compatible with mineral oils (2).
According to PED 2014/68/EU, EN 14359, Fluid Group 2 (3).

Product Prices, Part numbers, Accessories

Type Part number	Valve	Adaptor*	Clamps	Support Bracket	Mounting Frame	Lifting Eye on gas side	Complete Repair Kit
	see drawing	Threaded Part number	Model (quantity) Part number	Model Part number	Model Part number	Model Part number	Model Part number
EHV 10-330/90-A25GA-200 10837001125	A	G 1" cyl	D226 (2)	CE159A	EF2		KIT EHV 10-330/90-A25GA 19028900225
EHV 10-330/90-A25GB-200 10865401125	B	04557000223	20251503648	20109003620	20217600125	10912700200	KIT EHV 10-330/90-A25GB 19035800225
EHV 12-330/90-A25GA-200 10867101125	A	G 1" cyl	D226 (2)	CE159A	EF2		KIT EHV 12-330/90-A25GA 19032100225
EHV 12-330/90-A25GB-200 10867401125	B	04557000223	20251503648	20109003620	20217600125	10912700200	KIT EHV 12-330/90-A25GB 19035900225
EHV 20-330/90-A25GA-200 10837101125	A	G 1" cyl	D226 (2)	CE159A	EF2		KIT EHV 20-330/90-A25GA 19029000225
EHV 20-330/90-A25GB-200 10865501125	B	04557000223	20251503648	20109003620	20217600125	10912700200	KIT EHV 20-330/90-A25GB 19036000225
EHV 24,5-330/90-A25GA-200 10837201125	A	G 1" cyl	D226 (2)	CE159A	EF2		KIT EHV 24.5-330/90-A25GA 19029400225
EHV 24,5-330/90-A25GB-200 10865601125	B	04557000223	20251503648	20109003620	20217600125	10912700200	KIT EHV 24.5-330/90-A25GB 19036300225
EHV 32-330/90-A25GA-200 10837301125	A	G 1" cyl	D226 (2)	CE159A	EF3		KIT EHV 32-330/90-A25GA 19029100225
EHV 32-330/90-A25GB-200 10865701125	B	04557000223	20251503648	20109003620	20217700125	10912700200	KIT EHV 32-330/90-A25GB 19036100225
EHV 42-330/90-A25GA-200 11112301125	A	G 1" cyl	D226 (2)	CE159A	EF3		KIT EHV 42-330/90-A25GA 19060800225
EHV 42-330/90-A25GB-200 11123601125	B	04557000223	20251503648	20109003620	20217700125	10912700200	KIT EHV 42-330/90-A25GB 19061100225
EHV 50-330/90-A25GA-200 11076701125	A	G 1" cyl	D226 (2)	CE159A	EF3		KIT EHV 50-330/90-A25GA 19054100225
EHV 50-330/90-A25GB-200 11076801125	B	04557000223	20251503648	20109003620	20217700125	10912700200	KIT EHV 50-330/90-A25GB 19054200225
EHV 57-330/90-A25GA-200 11112401125	A	G 1" cyl	D226 (2)	CE159A	EF3		KIT EHV 57-330/90-A25GA 19060900225
EHV 57-330/90-A25GB-200 11123801125	B	04557000223	20251503648	20109003620	20217700125	10912700200	KIT EHV 57-330/90-A25GB 19061200225

(2) For other fluids consult Parker

(3) For Fluid group 1 consideration : consult Parker

*For more adaptor options see pages 74 & 75

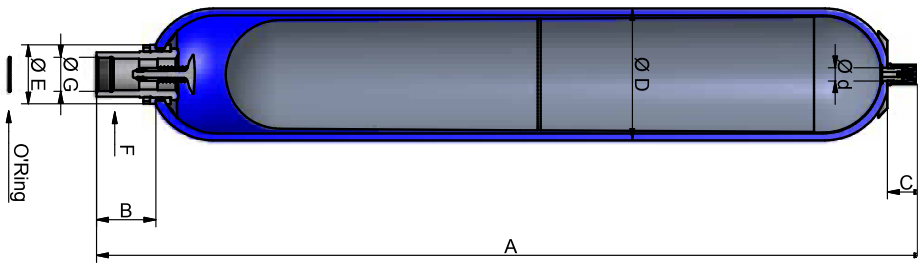
Model of valve stem
5/8" 18 UNF
(A)

Model of valve stem
7/8" 14 UNF
(B)

Type	Effective Gas vol. Litres	Max. Working pressure (PS) bar	Max Flow Rate l/min	Admissible Accumulator Temperature min/max (°C) (1)	Weight kg	Gas connection	Dimensions in mm							
							A max Height	B	C	øD	ød	øE	F on flats	G connection
EHV 10-330/90-A25GA	9.2	330	900	-20/+80	31	5/8” 18 UNF	587	103	66	226	22.5	101	70	G2"
EHV 10-330/90-A25GB						7/8” 14 UNF								
EHV 12-330/90-A25GA	11	330	900	-20/+80	36	5/8” 18 UNF	687	103	66	226	22.5	101	70	G2"
EHV 12-330/90-A25GB						7/8” 14 UNF								
EHV 20-330/90-A25GA	17.8	330	900	-20/+80	49	5/8” 18 UNF	897	103	66	226	22.5	101	70	G2"
EHV 20-330/90-A25GB						7/8” 14 UNF								
EHV 24.5-330/90-A25GA	22.5	330	900	-20/+80	56	5/8” 18 UNF	1032	103	66	226	22.5	101	70	G2"
EHV 24.5-330/90-A25GB						7/8” 14 UNF								
EHV 32-330/90-A25GA	32	330	900	-20/+80	81	5/8” 18 UNF	1420	103	66	226	22.5	101	70	G2"
EHV 32-330/90-A25GB						7/8” 14 UNF								
EHV 42-330/90-A25GA	42	330	900	-20/+80	87	5/8” 18 UNF	1562	103	66	226	22.5	101	70	G2"
EHV 42-330/90-A25GB						7/8” 14 UNF								
EHV 50-330/90-A25GA	48.5	330	900	-20/+80	110	5/8” 18 UNF	1936	103	66	226	22.5	101	70	G2"
EHV 50-330/90-A25GB						7/8” 14 UNF								
EHV 57-330/90-A25GA	51	330	900	-20/+80	116	5/8” 18 UNF	2032	103	66	226	22.5	101	70	G2"
EHV 57-330/90-A25GB						7/8” 14 UNF								

(1)Temperature range can change depending on shell and elastomer material. Please see bladder materials and Type (page 87)

Above dimensions are in mm and are subject to manufacturing tolerances.



EHV Series 330 bar, 10 to 50 Litres, Marine

Standard version (Carbon Steel shell/NBR mix) compatible with mineral oils (2).
According to PED 2014/68/EU, EN 14359, Fluid Group 2 (3).

Product, Part numbers, Accessories

/43 /24	/13 /11	/23 /41	Valve model see drawing	Adaptor*	Clamps	Support Bracket	Mounting Frame	Lifting Eye on gas side	Complete Repair Kit
/24 : PED & DNV GL	/11 : PED & BV MARINE	/41 : PED & ABS		Threaded Part number	Model (quantity) Part number	Model Part number	Model Part number	Model Part number	Model Part number
EHV 10-330/24-A25GB-200	EHV 10-330/11-A25GB-200	EHV 10-330/41-A25GB-200	B	G 1" cyl	D226 (2)	CE159A	EF2	10912700200	KIT EHV 10-330/XX-A25GB
11168801125	10999501125	11165501125		04557000223	20251503648	20109003620	20217600125		19035800225
EHV 12-330/24-A25GB-200	EHV 12-330/11-A25GB-200	EHV 12-330/41-A25GB-200	B	G 1" cyl	D226 (2)	CE159A	EF2	10912700200	KIT EHV 12-330/XX-A25GB
11168901125	10999601125	11166501125		04557000223	20251503648	20109003620	20217600125		19035900225
EHV 20-330/24-A25GB-200	EHV 20-330/11-A25GB-200	EHV 20-330/41-A25GB-200	B	G 1" cyl	D226 (2)	CE159A	EF2	10912700200	KIT EHV 20-330/XX-A25GB
11169001125	10999701125	11166601125		04557000223	20251503648	20109003620	20217600125		19036000225
EHV 24,5-330/24-A25GB-200	EHV 24,5-330/11-A25GB-200	EHV 24,5-330/41-A25GB-200	B	G 1" cyl	D226 (2)	CE159A	EF2	10912700200	KIT EHV 24.5-330/XX-A25GB
11169101125	10999801125	11166701125		04557000223	20251503648	20109003620	20217600125		19036300225
EHV 32-330/24-A25GB-200	EHV 32-330/11-A25GB-200	EHV 32-330/41-A25GB-200	B	G 1" cyl	D226 (2)	CE159A	EF3	10912700200	KIT EHV 32-330/XX-A25GB
11169201125	10999901125	11166801125		04557000223	20251503648	20109003620	20217700125		19036100225
EHV 50-330/24-A25GB-200	EHV 50-330/11-A25GB-200	EHV 50-330/41-A25GB-200	B	G 1" cyl	D226 (2)	CE159A	EF3		KIT EHV 50-330/XX-A25GB
11169401125	11127901125	11167001125		04557000223	20251503648	20109003620	20217700125	10912700200	19054200225

(2) For other fluids consult Parker

(3) For Fluid group 1 consideration : consult Parker

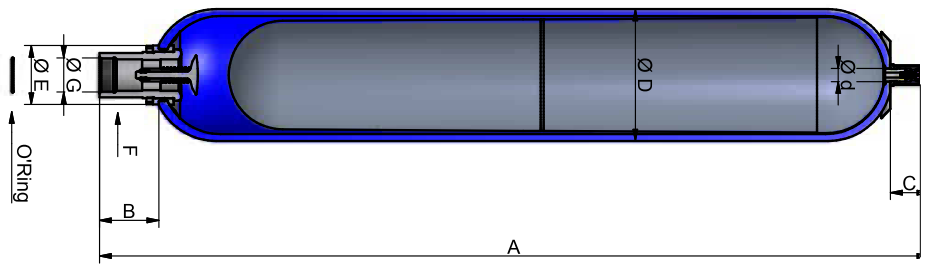
*For more adaptor options see pages 74&75

Model of valve stem
7/8" 14 UNF
(B)

Volume in Litres	Max. Working Pressure (bar)	Effective Gas vol. Litres	Max. Working pressure (PS) bar	Max Flow Rate l/min	Admissible Accumulator Temperature min/max (°C) (1)	Weight kg	Gas connection	Dimensions in mm							
								A max Height	B	C	øD	ød	øE	F on flats	G connection
EHV 10L	330	9.2	330	900	-20/+80	31	7/8" 14 UNF	587	103	66	226	23	101	70	G2"
EHV 12L	330	11.0	330	900	-20/+80	36	7/8" 14 UNF	687	103	66	226	23	101	70	G2"
EHV 20L	330	17.8	330	900	-20/+80	49	7/8" 14 UNF	897	103	66	226	23	101	70	G2"
EHV 24.5L	330	22.5	330	900	-20/+80	56	7/8" 14 UNF	1032	103	66	226	23	101	70	G2"
EHV 32L	330	32	330	900	-20/+80	81	7/8" 14 UNF	1420	103	66	226	22.5	101	70	G2"
EHV 50L	330	49	330	900	-20/+80	110	7/8" 14 UNF	1936	103	66	226	22.5	101	70	G2"

(1)Temperature range can change depending on shell and elastomer material. Please see bladder materials and Type (page 87)

Above dimensions are in mm and are subject to manufacturing tolerances.



EHV Series 480 bar, 10 to 50 Litres, Marine

Standard version (Carbon Steel shell/NBR mix) compatible with mineral oils (2).
According to PED 2014/68/EU, EN 14359, Fluid Group 2 (3).

Product, Part numbers, Accessories

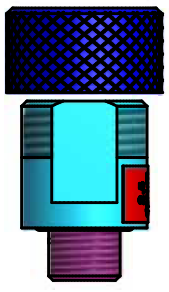
/24	Valve model see drawing	Adaptor*	Clamps	Support Bracket	Mounting Frame	Complete Repair Kit
/24 : PED&DNV GL		Threaded Part number	Model (quantity) Part number	Model Part number	Model Part number	Model Part number
EHV 10-480/24-A25GE-200 11175801125	E	G 1" cyl 04557000223	D226 (2) 20251503648	CE159A 20109003620	EF2 20217600125	KIT EHV 10-480/XX-A25GE 19055702525
EHV 12-480/24-A25GE-200 11266801125	E	G 1" cyl 04557000223	D226 (2) 20251503648	CE159A 20109003620	EF2 20217600125	KIT EHV 12-480/BE-A25GE 19063002525
EHV 20-480/24-A25GE-200 11266901125	E	G 1" cyl 04557000223	D226 (2) 20251503648	CE159A 20109003620	EF2 20217600125	KIT EHV 20-480/XX-A25GE 19050002525
EHV 32-480/24-A25GE-200 11209601125	E	G 1" cyl 04557000223	D226 (2) 20251503648	CE159A 20109003620	EF3 20217700125	KIT EHV 32-480/XX-A25GE 19051302525
EHV 50-480/24-A25GE-200 11267001125	E	G 1" cyl 04557000223	D226 (2) 20251503648	CE159A 20109003620	EF3 20217700125	KIT EHV 50-480/XX-A25GE 19050302525

(2) For other fluids consult Parker

(3) For Fluid group 1 consideration : consult Parker

*For more adaptor options see pages 74&75

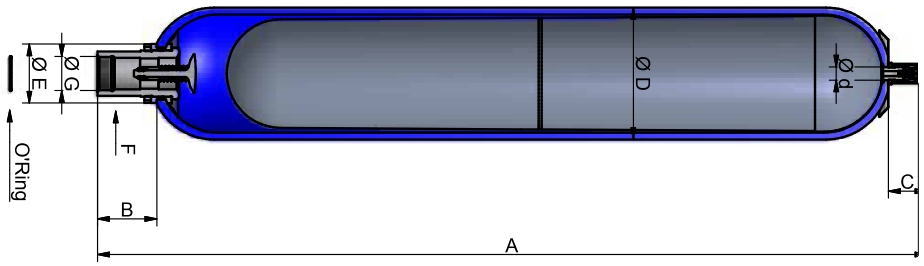
Model of valve stem
7/8" 14 UNF
(E)



Volume in Litres	Max. Working Pressure (bar)	Effective Gas vol. Litres	Max. Working pressure (PS) bar	Max Flow Rate l/min	Admissible Accumu-lator Tempera-ture min/max (°C) (1)	Weight kg	Gas connec-tion	Dimensions in mm							
								A max Height	B	C	øD	ød	øE	F on flats	G con-nec-tion
EHV 10L	480	9	480	900	- 20/+80	33	7/8" 14 UNF	593	103	74	228	22.5	101	70	G 2"
EHV12L	480	11	480	900	- 20/+80	43	7/8" 14 UNF	693	103	74	228	22.5	101	70	G 2"
EHV 20L	480	18	480	900	- 20/+80	63	7/8" 14 UNF	903	103	74	228	22.5	101	70	G 2"
EHV 32L	480	32.0	480	900	- 20/+80	97	7/8" 14 UNF	1428	103	74	228	23	101	70	G 2"
EHV 50L	480	48.5	480	900	- 20/+80	132	7/8" 14 UNF	1968	103	99	228	23	101	70	G 2"

(1)Temperature range can change depending on shell and elastomer material. Please see bladder materials and Type (page 87)

Above dimensions are in mm and are subject to manufacturing tolerances.



EHV Series 350 bar, 0.2 to 10 Litres

Standard version (Carbon Steel shell/NBR mix) compatible with mineral oils (2).
According to PED 2014/68/EU, EN 14359, Fluid Group 2 (3).

Product, Part numbers, Accessories

Type Part number	**Valve** see drawing	**Adaptor**** Threaded Part number	**Clamps** Model (quantity) Part number	**Support Bracket** Model Part number	**Mounting Frame** Model Part number	**Lifting Eye on gas side** Model Part number	**Complete Repair Kit** Model Part number
EHV 0.2-350/00-A20AD-200* 10876301120	D	G 1/4" cyl 4556500223	A56 (1) 20149203625				KIT EHV 0.2-350/00-A20AD 19001000220
EHV 0.5-350/00-A25BD-200* 10876401125	D	G 3/8" cyl 4556400223	E95 (1) 20250803648				KIT EHV 0.5-350/000-A25BD 19001100225
EHV 1-350/00-A25BC-200* 10845601125	C	G 3/8" cyl	E114 (1)	CE 89			KIT EHV 1-350/00-A25BC 19029700225
EHV 1-350/00-A25BB-200* 10866901125	B	04556400223	20251003648	20151903620			KIT EHV 1-350/00-A25BB 19036400225
EHV 1.6-350/90-A25BC-200 10998301125	C	G 3/8" cyl	E114 (1)	CE 89			KIT EHV 1.6-350/900-A25BC 19060700225
EHV 1.6-350/90-A25BB-200 11123501125	B	04556400223	20251003648	20151903620			KIT EHV 1.6-350/900-A25BB 19061000225
EHV 2.5-350/90-A25DC-200 10854701125	C	G 3/4" cyl	E114 (2)	CE 89			KIT EHV 2.5-350/90-A25DC 19029800225
EHV 2.5-350/90-A25DB-200 10866601125	B	04555200223	20251003648	20151903620		10912700200	KIT EHV 2.5-350/90-A25DB 19036500225
EHV 4-350/90-A25DC-200 10845401125	C	G 3/4" cyl	E168 (1)	CE108	EF1		KIT EHV 4-350/90-A25DC 19029900225
EHV 4-350/90-A25DB-200 10866101125	B	04555200223	20251303648	20118703620	20217500125	10912700200	KIT EHV 4-350/90-A25DB 19036600225
EHV 5-350/90-A25DC-200 10861201125	C	G 3/4" cyl	E114 (2)	CE 89			KIT EHV 5-350/90-A25DC 19030000225
EHV 5-350/90-A25DB-200 10866701125	B	04555200223	20251003648	20151903620		10912700200	KIT EHV 5-350/90-A25DB 19036700225
EHV 6-350/90-A25DC-200 10857401125	C	G 3/4" cyl	E168 (2)	CE108	EF1		KIT EHV 6-350/90-A25DC 19030100225
EHV 6-350/90-A25DB-200 10866201125	B	04555200223	20251303648	20118703620	20217500125	10912700200	KIT EHV 6-350/90-A25DB 19036800225
EHV 10-350/90-A25DC-200 10859701125	C	G 3/4" cyl	E168 (2)	CE108	EF1		KIT EHV 10-350/90-A25DC 19030200225
EHV 10-350/90-A25DB-200 10866301125	B	04555200223	20251303648	20118703620	20217500125	10912700200	KIT EHV 10-350/90-A25DB 19036900225

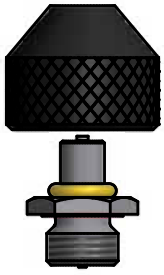
(2) For other fluids consult Parker

(3) For Fluid group 1 consideration : consult Parker

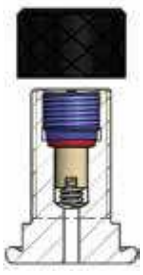
* According to Article 4.3 PED 2014/68/EU

** For more adaptor options see pages 74/75.

Model of valve stem
7/8" 14 UNF
(B)



Model of valve stem
integrated
7/8"14 UNF
(C)

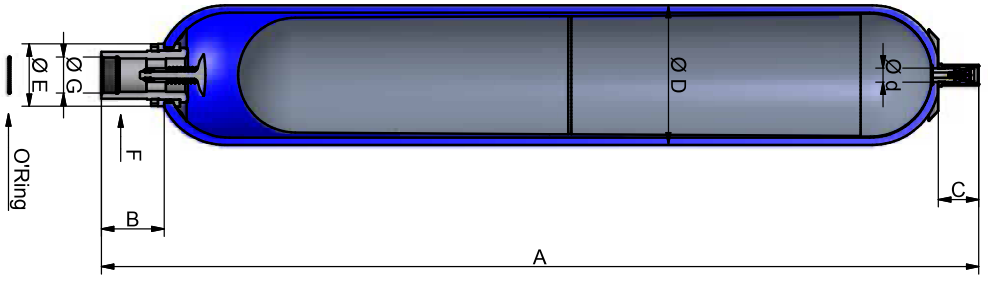


Model of valve stem
integrated
5/8" 18 UNF
(D)

Type Part number	Effective Gas vol. Litres	Max. Working pressure (PS) bar	Max Flow Rate l/min	Admissible Accumulator Temperature min/max (°C) (1)	Weight kg	Gas connection	Dimensions in mm							
							A max Height	B	C	øD	ød	øE	F on flats	G connection
EHV 0.2-350/00-A20AD-200* 10876301120	0.17	350	120	- 6/+80	2.5	5/8" 18 UNF	268	38	27	58	16	39	24	G ½"
EHV 0.5-350/00-A25BD-200* 10876401125	0.6	350	240	- 20/+80	3	5/8" 18 UNF	260	54	27	91	16	50	32	G ¾"
EHV 1-350/00-A25BC-200* 10845601125	1	350	240	- 20/+80	6	7/8" 14 UNF	330	54	66	116	22.5	50	32	G ¾"
EHV 1-350/00-A25BB-200* 10866901125						7/8" 14 UNF								
EHV 1.6-350/90-A25BC-200 10998301125	1.6	350	240	- 20/+80	8	7/8" 14 UNF	442	54	66	116	22.5	50	32	G ¾"
EHV 1.6-350/90-A25BB-200 11123501125						7/8" 14 UNF								
EHV 2.5-350/90-A25DC-200 10854701125	2	350	450	- 20/+80	11	7/8" 14 UNF	549	66	66	116	22.5	68	50	G 1 ¼"
EHV 2.5-350/90-A25DB-200 10866601125						7/8" 14 UNF								
EHV 4-350/90-A25DC-200 10845401125	3.7	350	450	- 20/+80	15	7/8" 14 UNF	434	65	66	170	22.5	68	50	G 1 ¼"
EHV 4-350/90-A25DB-200 10866101125						7/8" 14 UNF								
EHV 5-350/90-A25DC-200 10861201125	5	350	450	- 20/+80	17	7/8" 14 UNF	898	66	66	116	22.5	68	50	G 1 ¼"
EHV 5-350/90-A25DB-200 10866701125						7/8" 14 UNF								
EHV 6-350/90-A25DC-200 10857401125	6.0	350	450	- 20/+80	20	7/8" 14 UNF	560	65	66	170	22.5	68	50	G 1 ¼"
EHV 6-350/90-A25DB-200 10866201125						7/8" 14 UNF								
EHV 10-350/90-A25DC-200 10859701125	10	350	450	- 20/+80	31	7/8" 14 UNF	825	65	66	170	22.5	68	50	G 1 ¼"
EHV 10-350/90-A25DB-200 10866301125						7/8" 14 UNF								

(1)Temperature range can change depending on shell and elastomer material. Please see bladder materials and Type (page 87)

Above dimensions are in mm and are subject to manufacturing tolerances.



EHV Series 350 bar, 0,5 to 10 Litres, Marine

Standard version (Carbon Steel shell/NBR mix) compatible with mineral oils (2).
According to PED 2014/68/EU, EN 14359, Fluid Group 2 (3).

Product , Part numbers, Accessories

/43 /24	/13 /11	/23 /41	Valve model	Adaptor*	Clamps	Support Bracket	Mounting Frame	Lifting Eye on gas side	Complete Repair Kit
/24 : PED&DNV GL /43 : PED Article 4.3& DNV GL	**/11 : PED&BV MARINE /13 : PED Article 4.3& BV MARINE**	**/41 : PED&ABS /23 : PED Article 4.3&ABS**	see drawing	Threaded Part number	Model (quantity) Part number	Model Part number	Model Part number	Model Part number	Model Part number
EHV 0,5-350/43-A25BD-200		EHV 0,5-350/23-A25BD-200	D	G 3/8" cyl	E95 (1)				KIT EHV 0.5-350/XX-A25BD
11151101125		11151001125		04556400223	20250803648				19001100225
EHV 1-350/43-A25BB-200	EHV 1-350/13-A25BB-200	EHV 1-350/23-A25BB-200	B	G 3/8" cyl	E114 (1)	CE 89			KIT EHV 1-350/XX-A25BB
11168101125	11149501125	11165801125		04556400223	20251003648	20151903620			19036400225
EHV 1,6-350/24-A25BB-200	EHV 1,6-350/11-A25BB-200	EHV 1,6-350/41-A25BB-200	B	G 3/8" cyl	E114 (1)	CE 89			KIT EHV 1.6-350/XX-A25BB
11168201125	11163301125	11165901125		04556400223	20251003648	20151903620			19061000225
EHV 2,5-350/24-A25DB-200	EHV 2,5-350/11-A25DB-200	EHV 2,5-350/41-A25DB-200	B	G 3/4" cyl	E114 (2)	CE 89			KIT EHV 2.5-350/XX-A25DB
11168301125	11163401125	11166001125		04555200223	20251003648	20151903620		19036500225	19036500225
EHV 4-350/24-A25DB-200	EHV 4-350/11-A25DB-200	EHV 4-350/41-A25DB-200	B	G 3/4" cyl	E168 (1)	CE108	EF1		KIT EHV 4-350/XX-A25DB
11168501125	10998101125	11166201125		04555200223	20251303648	20118703620	20217500125	10912700200	19036600225
EHV 5-350/24-A25DB-200	EHV 5-350/11-A25DB-200	EHV 5-350/41-A25DB-200	B	G 3/4" cyl	E114 (2)	CE 89			KIT EHV 5-350/XX-A25DB
11168401125	11163501125	11166101125		04555200223	20251003648	20151903620		10912700200	19036700225
EHV 6-350/24-A25DB-200	EHV 6-350/11-A25DB-200	EHV 6-350/41-A25DB-200	B	G 3/4" cyl	E168 (2)	CE108	EF1		KIT EHV 6-350/XX-A25DB
11168601125	11163601125	11166301125		04555200223	20251303648	20118703620	20217500125	10912700200	19036800225
EHV 10-350/24-A25DB-200	EHV 10-350/11-A25DB-200	EHV 10-350/41-A25DB-200	B	G 3/4" cyl	E168 (2)	CE108	EF1		KIT EHV 10-350/XX-A25DB
11168701125	11163701125	11166401125		04555200223	20251303648	20118703620	20217500125	10912700200	19036900225

(2) For other fluids consult Parker

(3) For Fluid group 1 consideration : consult Parker

* For more adaptor options see pages 74&75.

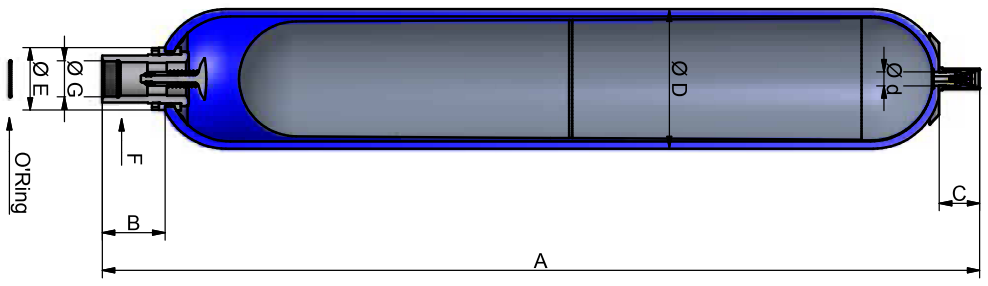
Model of valve stem
7/8" 14 UNF
(B)

Model of valve stem
integrated
5/8" 18 UNF
(D)

Volume in Litres	Max. Working Pressure (bar)	Effective Gas vol. Litres	Max. Working pressure (PS) bar	Max Flow Rate l/min	Admissible Accumulator Temperature min/max (°C) (1)	Weight (kg)	Gas connection	Dimensions in mm							
								A max Height	B	C	øD	ød	øE	F on flats	G connection
EHV 0,5L	330	0.6	350	240	- 20/+80	3	5/8" 18 UNF	260	54	27	91	16	50	32	G ¾"
EHV 1L	350	1	350	240	- 20/+80	6	7/8" 14 UNF	330	54	66	116	22.5	50	32	G ¾"
EHV 1.6L	350	1.6	350	240	- 20/+80	8	7/8" 14 UNF	442	54	66	116	22.5	50	32	G ¾"
EHV 2.5L	350	2.4	350	450	- 20/+80	11	7/8" 14 UNF	549	66	66	116	22.5	68	50	G 1 ¼"
EHV 4L	350	3.7	350	450	- 20/+80	15	7/8" 14 UNF	434	65	66	170	22.5	68	50	G 1 ¼"
EHV 5L	350	5	350	450	- 20/+80	17	7/8" 14 UNF	898	66	66	116	22.5	68	50	G 1 ¼"
EHV 6L	350	6	350	450	- 20/+80	20	7/8" 14 UNF	560	65	66	170	22.5	68	50	G 1 ¼"
EHV 10L	350	10	350	450	- 20/+80	31	7/8" 14 UNF	825	65	66	170	22.5	68	50	G 1 ¼"

(1)Temperature range can change depending on shell and elastomer material. Please see bladder materials and Type (page 87)

Above dimensions are in mm and are subject to manufacturing tolerances.



EHV Series 480 bar, 10 to 50 Litres

Standard version (Carbon Steel shell/NBR mix) compatible with mineral oils (2).
According to PED 2014/68/EU, EN 14359, Fluid Group 2 (3).

Product Prices, Part numbers, Accessories

Type Part number	**Adaptor***	**Clamps**	**Support Bracket**	**Mounting Frame**	**Complete Repair Kit**
	Threaded Part number	Model (quantity) Part number	Model Part number	Model Part number	Model Part number
EHV 10-480/90-A25GE-200 11218201125	G 1" cyl 04557000223	D226 (2) 20251503648	CE159A 20109003620	EF2 20217600125	KIT EHV 10-480/90-A25GE 19055702525
EHV 12-480/90-A25GE-200 11218301125	G 1" cyl 04557000223	D226 (2) 20251503648	CE159A 20109003620	EF2 20217600125	KIT EHV 12-480/90 19063002525
EHV 20-480/90-A25GE-200 11218401125	G 1" cyl 04557000223	D226 (2) 20251503648	CE159A 20109003620	EF2 20217600125	KIT EHV 20-480/90-A25GE 19050002525
EHV 32-480/90-A25GE-200 11218501125	G 1" cyl 04557000223	D226 (2) 20251503648	CE159A 20109003620	EF3 20217700125	KIT EHV 32-480/90-A25GE 19051302525
EHV 50-480/90-A25GE-200 11218601125	G 1" cyl 04557000223	D226 (2) 20251503648	CE159A 20109003620	EF3 20217700125	KIT EHV 50-480/90-A25GE 19068102525

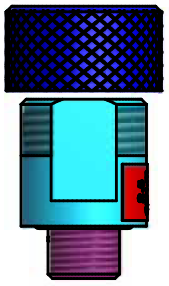
(2) For other fluids consult Parker

(3) For Fluid group 1 consideration : consult Parker

For pre-charge over 300 bar please consult Division

* For more adaptor options see pages 74&75.

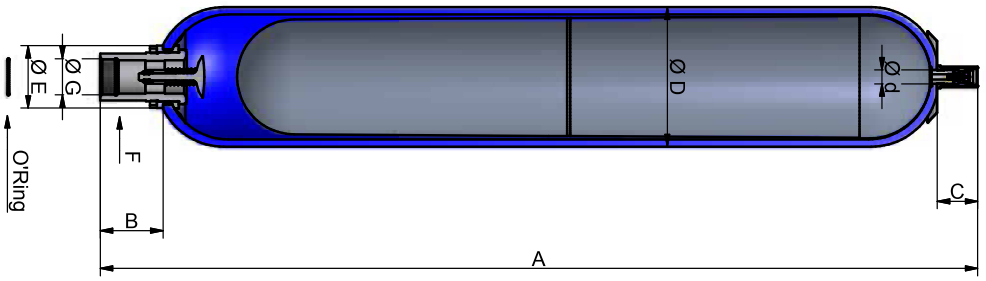
Model of valve stem
7/8" 14 UNF
(E)



Type	Effective Gas vol. Litres	Max. Working pressure (PS) bar	Max Flow Rate l/min	Admissible Accumulator Temperature min/max (°C) (1)	Weight kg	Gas connection	Dimensions in mm							
							A max Height	B	C	øD	ød	øE	F on flats	G connection
EHV 10-480/90-A25GE-200	9.2	480	900	- 20/+80	33	7/8" 14 UNF	593	103	74	228	22.5	101	70	G 2"
EHV 12-480/90-A25GE-200	11	480	900	- 20/+80	43	7/8" 14 UNF	693	103	74	228	22.5	101	70	G 2"
EHV 20-480/90-A25GE-200	17.8	480	900	- 20/+80	63	7/8" 14 UNF	903	103	74	228	22.5	101	70	G 2"
EHV 32-480/90-A25GE-200	32	480	900	- 20/+80	97	7/8" 14 UNF	1428	103	74	228	22.5	101	70	G 2"
EHV 50-480/90-A25GE-200	48.5	480	900	- 20/+80	132	7/8" 14 UNF	1943	103	74	228	22.5	101	70	G 2"

(1)Temperature range can change depending on shell and elastomer material. Please see bladder materials and Type (page 87)

Above dimensions are in mm and are subject to manufacturing tolerances.



EHV Series 690 bar, 1 to 54 Litres

Standard version (Carbon Steel shell/NBR mix) compatible with mineral oils (2).
According to PED 2014/68/EU, Fluid Group 2 (3).

Products, Part numbers, Accessories

Type Part number	**Adaptor****	**Clamps**	**Support Bracket**	**Lifting Eye on gas side**	**Complete Repair Kit**
	Threaded Part number	Model (quantity) Part number	Model Part number	Model Part number	Model Part number
EHV 1-690/00-A25CE-200* 10910101125	04579500223	20251003648	20151903620	10912700200	KIT EHV 1-690/00-A25CE 19043500225
EHV 2.5-690/90-A25CE-200 10910201125	04579500223	20251003648	20151903620	10912700200	KIT EHV 2,5-690/00-A25CE 19043600225
EHV 5-690/90-A25CE-200 10910301125	04579500223	20251003648	20151903620	10912700200	KIT EHV 5-690/00-A25CE 19043700225

Type Part number	**Adaptor****	**Clamps**	**Support Bracket**	**Lifting Eye on gas side**	**Complete Repair Kit**
	Threaded Part number	Model (quantity) Part number	Model Part number	Model Part number	Model Part number
EHV 12-690/90-A25GE-200 1203V-DC-691	Consult Parker	11060-DEE	Consult Parker	Consult Parker	KIT EHV 12-690/90-A25GE 19048200225
EHV 20-690/90-A25GE-200 2003V-DC-691		11060-DEE			KIT EHV 20-690/90-A25GE 19048300225
EHV 37-690/90-A25GE-200 3703V-DC-691		11060-DEE			KIT EHV 32-690/90-A25GE 19048400225
EHV 54-690/90-A25GE-200 5403V-DC-691		11060-DEE			KIT EHV 50-690/90-A25GE 19048500225

For pre-charge over 300 bar please consult Division

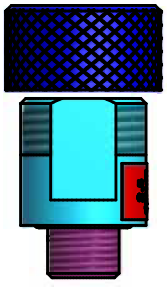
(2) For other fluids consult Parker

(3) For Fluid group 1 consideration : consult Parker

* According to Article 4.3 PED 2014/68/EU

**For more adaptor options see pages 74&75.

Model of valve stem
7/8" 14 UNF
(E)

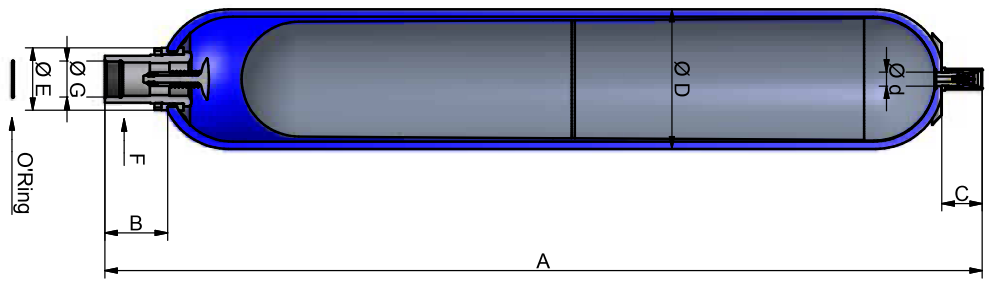


Type	Effective Gas vol. Litres	Max. Working pressure (PS) bar	Max Flow Rate l/min	Admissible Accumulator Temperature min/max (°C) (1)	Weight kg	Gas connec-tion	Dimensions in mm							
							A max Height	B	C	øD	ød	øE	F on flats	G connec-tion
EHV 1-690/00-A25CE-200*	1.1	690	360	- 20/+80	9	7/8" 14 UNF	376	68	69	122	22.5	68	45	G 1"
EHV 2.5-690/90-A25CE-200	2.4	690	360	- 20/+80	15	7/8" 14 UNF	551	68	69	122	22.5	68	45	G 1"
EHV 5-690/90-A25CE-200	5	690	360	- 20/+80	29	7/8" 14 UNF	900	68	69	122	22.5	68	45	G 1"

Type	Effective Gas vol. Litres	Max. Working pressure (PS) bar	Max Flow Rate l/min	Admissible Accumulator Temperature min/max (°C) (1)	Weight kg	Gas connec-tion	Dimensions in mm							
							A max Height	B	C	øD	ød	øE	F on flats	G connec-tion**
EHV 12-690/90-A25GE-200	11	690	900	- 20/+80	97	7/8" 14 UNF	682	84	166	267	50	110	77	G 2"
EHV 20-690/90-A25GE-200	16.5	690	900	- 20/+80	134	7/8" 14 UNF	892	84	166	267	50	110	77	G 2"
EHV 37-690/90-A25GE-200	33.4	690	900	- 20/+80	227	7/8" 14 UNF	1417	84	166	267	50	110	77	G 2"
EHV 54-690/90-A25GE-200	48	690	900	- 20/+80	318	7/8" 14 UNF	1932	84	166	267	50	110	77	G 2"

(1)Temperature range can change depending on shell and elastomer material. Please see bladder materials and Type (page 87)

Above dimensions are in mm and are subject to manufacturing tolerances.



EHVF Series 330 bar, 10 to 57 Litres
Flanged Fluid Port

Standard version (Carbon Steel shell/NBR mix) compatible with mineral oils (2).
According to PED 2014/68/EU, EN 14359, Fluid Group 2 (3).

Product , Part numbers, Accessories

Type Part number	**Kit Flange***	**Clamps**	**Support Bracket**	**Mounting Frame**	**Lifting Eye on gas side**	**Complete Repair Kit**
	Type Part number	Model (quantity) Part number	Model Part number	Model Part number	Model Part number	Model Part number
EHVF 10-330/90-A25RA-200 10844901125	BR 400-38 35132400123	D226 (2) 20251503648	CE 159A 20109003620	EF2 20217600125	10912700200	KIT EHVF 10-330/90-A25RA 19034600225
EHVF 12-330/90-A25RA-200 10867301125	BR 400-38 35132400123	D226 (2) 20251503648	CE 159A 20109003620	EF2 20217600125	10912700200	KIT EHVF 12-330/90-A25RA 19034700225
EHVF 20-330/90-A25RA-200 10845001125	BR 400-38 35132400123	D226 (2) 20251503648	CE 159A 20109003620	EF2 20217600125	10912700200	KIT EHVF 20-330/90-A25RA 19034800225
EHVF 24,5-330/90-A25RA-200 10845101125	BR 400-38 35132400123	D226 (2) 20251503648	CE 159A 20109003620	EF2 20217600125	10912700200	KIT EHVF 24.5-330/90-A25RA 19035100225
EHVF 32-330/90-A25RA-200 10845201125	BR 400-38 35132400123	D226 (2) 20251503648	CE 159A 20109003620	EF3 20217700125	10912700200	KIT EHVF 32-330/90-A25RA 19034900225
EHVF 42-330/90-A25RA-200 11132501125	BR 400-38 35132400123	D226 (2) 20251503648	CE 159A 20109003620	EF3 20217700125	10912700200	KIT EHVF 50-330/90-A25RA 19062200225
EHVF 50-330/90-A25RA-200 11077001125	BR 400-38 35132400123	D226 (2) 20251503648	CE 159A 20109003620	EF3 20217700125	10912700200	KIT EHVF 50-330/90-A25RA 19054400225
EHVF 57-330/90-A25RA-200 11132601125	BR 400-38 35132400123	D226 (2) 20251503648	CE 159A 20109003620	EF3 20217700125	10912700200	KIT EHVF 57-330/90-A25RA 19062300225

* see page 76

(2) For other fluids consult Parker

(3) For Fluid group 1 consideration : consult Parker

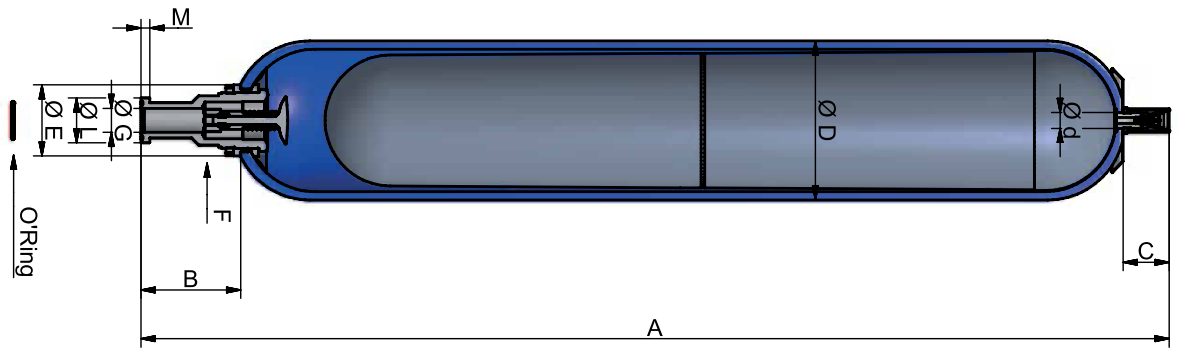
Model of valve stem
5/8” 18 UNF
(A)

Type	Effective Gas vol. Litres	Max. Working pressure (PS) bar	Max Flow Rate l/min	Admissible Accumu-lator Temperature min/max (°C) (1)	Weight kg	Gas connec-tion	Dimensions in mm									
							A max Height	B	C	øD	ød	øE	F on flats	G con-nec-tion**	ØL	M
EHVF 10-330/90-A25RA-200	9.2	330	900	- 20/80	31	5/8”18 UNF	627	143	66	226	22.5	101	70	34	63.8	12.5
EHVF 12-330/90-A25RA-200	11	330	900	- 20/80	36	5/8”18 UNF	727	143	66	226	22.5	101	70	34	63.8	12.5
EHVF 20-330/90-A25RA-200	17.8	330	900	- 20/80	49	5/8”18 UNF	937	143	66	226	22.5	101	70	34	63.8	12.5
EHVF 24,5-330/90-A25RA-200	22.5	330	900	- 20/80	56	5/8”18 UNF	1072	143	66	226	22.5	101	70	34	63.8	12.5
EHVF 32-330/90-A25RA-200	32	330	900	- 20/80	81	5/8”18 UNF	1460	143	66	226	22.5	101	70	34	63.8	12.5
EHVF 42-330/90-A25RA-200	42	330	900	- 20/80	87	5/8”18 UNF	1602	143	66	226	22.5	101	70	34	63.8	12.5
EHVF 50-330/90-A25RA-200	48.5	330	900	- 20/80	110	5/8”18 UNF	1976	143	66	226	22.5	101	70	34	63.8	12.5
EHVF 57-330/90-A25RA-200	51	330	900	- 20/80	116	5/8”18 UNF	2072	143	66	226	22.5	101	70	34	63.8	12.5

Note: Connection (norme ISO 6162) Flange 1 1/2” SAE 6000 PSI

(1)Temperature range can change depending on shell and elastomer material. Please see bladder materials and Type (page 87)

Above dimensions are in mm and are subject to manufacturing tolerances.



EHVF Series 350 bar, 2.5 to 10 Litres Flanged Fluid Port

Standard version (Carbon Steel shell/NBR mix) compatible with mineral oils (2).
According to PED 2014/68/EU, EN 14359, Fluid Group 2 (3).

Product , Part numbers, Accessories, Dimensions

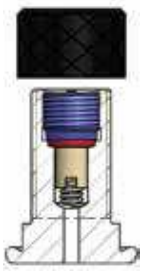
Type Part number	**Flange***	**Clamps**	**Support Bracket**	**Mounting Frame**	**Lifting Eye on gas side**	**Complete Repair Kit**
	Type Part number	Model (quantity) Part number	Model Part number	Model Part number	Model Part number	Model Part number
EHVF 2.5-350/90-A25SC 10861501125	BR 400-25 35132600123	E114 (2) 20251003648	CE89 20151903620	-	10912700200	KIT EHVF 2.5-350/90-A25SC 19035300225
EHVF 4-350/90-A25SC 10857601125	BR 400-25 35132600123	E168 (1) 20251303648	CE108 20118703620	EF1 20217500125	10912700200	KIT EHVF 4-350/90-A25SC 19035400225
EHVF 5-350/90-A25SC 10861601125	BR 400-25 35132600123	E114 (2) 20251003648	CE89 20151903620	-	10912700200	KIT EHVF 5-350/90-A25SC 19035500225
EHVF 6-350/90-A25SC 10857701125	BR 400-25 35132600123	E168 (1) 20251303648	CE108 20118703620	EF1 20217500125	10912700200	KIT EHVF 6-350/90-A25SC 19035600225
EHVF 10-350/90-A25SC 10859901125	BR 400-25 35132600123	E168 (2) 20251303648	CE108 20118703620	EF1 20217500125	10912700200	KIT EHVF 10-350/90-A25SC 19035700225

*see flanges page 76

(2) For other fluids consult Parker

(3) For Fluid group 1 consideration : consult Parker

Model of valve stem
integrated
7/8”14 UNF
(C)

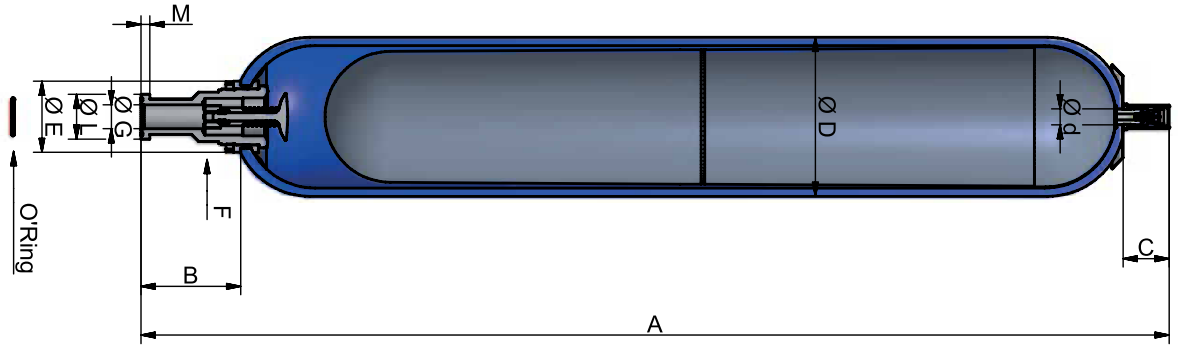


Type	Effective Gas vol. Litres	Max. Working pressure (PS) bar	Max Flow Rate l/min	Admissible Accumulator Temperature min/max (°C) (1)	Weight kg	Gas connec-tion	Dimensions in mm									
							A max Height	B	C	øD	ød	øE	F on flats	G connection **	ØL	M
EHVF 2.5-350/90-A25SC	2.4	350	450	- 20/80	11	7/8" 14 UNF	595	111	66	116	22.5	68	50	22	47.9	9.5
EHVF 4-350/90-A25SC	3.7	350	450	- 20/80	15	7/8" 14 UNF	480	110	66	170	22.5	68	50	22	47.9	9.5
EHVF 5-350/90-A25SC	5.0	350	450	- 20/80	17	7/8" 14 UNF	944	111	66	116	22.5	68	50	22	47.9	9.5
EHVF 6-350/90-A25SC	6.0	350	450	- 20/80	20	7/8" 14 UNF	606	110	66	170	22.5	68	50	22	47.9	9.5
EHVF 10-350/90-A25SC	10	350	450	- 20/80	31	7/8" 14 UNF	871	110	66	170	22.5	68	50	22	47.9	9.5

Note: Connection (norme ISO 6162): 1” SAE 6000 PSI. Flange PN400 DN25

(1)Temperature range can change depending on shell and elastomer material. Please see bladder materials and Type (page 87)

Above dimensions are in mm and are subject to manufacturing tolerances.



EHV Series 330 bar, 10 to 57 Litres
High Flow fluid port, 1200 l/min

Standard version (Carbon Steel shell/NBR mix) compatible with mineral oils (2).
According to PED 2014/68/EU, EN 14359, Fluid Group 2 (3).

Product , Part numbers, Accessories, Dimensions

Type Part number	**Adaptor***	**Clamps**	**Support Bracket**	**Mounting Frame**	**Lifting Eye on gas side**	**Complete Repair Kit**
	Threaded Part number	Model (quantity) Part number	Model Part number	Model Part number	Model Part number	Model Part number
EHV 10-330/90-A25HA-200 10874801125	G 1" cyl 04557000223	D226 (2) 20251503648	CE 159A 20109003620	EF2 20217600125	10912700200	KIT EHV 10-330/90-A25HA-200 19028900225
EHV 12-330/90-A25HA-200 10874901125	G 1" cyl 04557000223	D226 (2) 20251503648	CE 159A 20109003620	EF2 20217600125	10912700200	KIT EHV 12- 330/90-A25HA-200 19032100225
EHV 20-330/90-A25HA-200 10846301125	G 1" cyl 04557000223	D226 (2) 20251503648	CE 159A 20109003620	EF2 20217600125	10912700200	KIT EHV 20- 330/90-A25HA-200 19029000225
EHV 24.5-330/90-A25HA-200 10875001125	G 1" cyl 04557000223	D226 (2) 20251503648	CE 159A 20109003620	EF2 20217600125	10912700200	KIT EHV 24.5-330/90-A25HA-200 19029400225
EHV 32-330/90-A25HA-200 10846501125	G 1" cyl 04557000223	D226 (2) 20251503648	CE 159A 20109003620	EF3 20217700125	10912700200	KIT EHV 32-330/90-A25HA-200 19029100225
EHV 42-330/90-A25HA-200 11145201125	G 1" cyl 04557000223	D226 (2) 20251503648	CE 159A 20109003620	EF3 20217700125	10912700200	KIT EHV 42-330/90-A25HA-200 19060800225
EHV 50-330/90-A25HA-200 11091501125	G 1" cyl 04557000223	D226 (2) 20251503648	CE 159A 20109003620	EF3 20217700125	10912700200	KIT EHV 50-330/90-A25HA-200 19054100225
EHV 57-330/90-A25HA-200 11145401125	G 1" cyl 04557000223	D226 (2) 20251503648	CE 159A 20109003620	EF3 20217700125	10912700200	KIT EHV 57-330/90-A25HA-200 19060900225

(2) For other fluids consult Parker

(3) For Fluid group 1 consideration : consult Parker

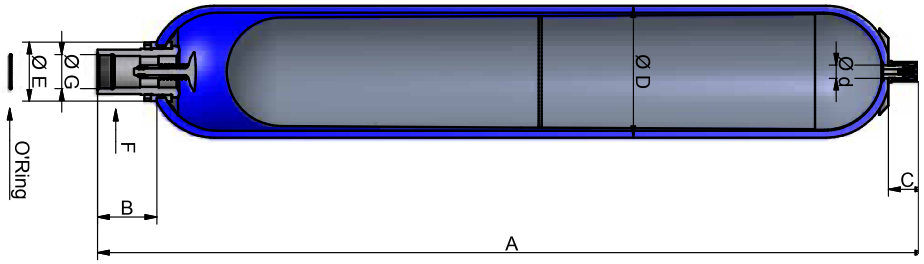
* For more adaptor options
see pages 74 & 75.

Model of valve stem
5/8" 18 UNF
(A)

Type	Effective Gas vol. Litres	Max. Working pressure (PS) bar	Max Flow Rate l/min	Admissible Accumulator Temperature min/max (°C) (1)	Weight kg	Gas connec-tion	Dimensions in mm							
							A max Height	B	C	øD	ød	øE	F on flats	G connection
EHV 10-330/90-A25HA-200	9.2	330	1200	- 20/80	31	5/8”18 UNF	587	103	66	226	22.5	101	70	G 2”
EHV 12-330/90-A25HA-200	11	330	1200	- 20/80	36	5/8”18 UNF	687	103	66	226	22.5	101	70	G 2”
EHV 20-330/90-A25HA-200	17.8	330	1200	- 20/80	49	5/8”18 UNF	897	103	66	226	22.5	101	70	G 2”
EHV 24.5-330/90-A25HA-200	22.5	330	1200	- 20/80	56	5/8”18 UNF	1032	103	66	226	22.5	101	70	G 2”
EHV 32-330/90-A25HA-200	32	330	1200	- 20/80	81	5/8”18 UNF	1420	103	66	226	22.5	101	70	G 2”
EHV 42-330/90-A25HA-200	42	330	1200	- 20/80	87	5/8”18 UNF	1562	103	66	226	22.5	101	70	G 2”
EHV 50-330/90-A25HA-200	48.5	330	1200	- 20/80	110	5/8”18 UNF	1936	103	66	226	22.5	101	70	G 2”
EHV 57-330/90-A25HA-200	51	330	1200	- 20/80	116	5/8”18 UNF	2032	103	66	226	22.5	101	70	G 2”

(1)Temperature range can change depending on shell and elastomer material. Please see bladder materials and Type (page 87)

Above dimensions are in mm and are subject to manufacturing tolerances.



EHV-DA Series 350 bar, 2.5 to 10 Litres High Flow fluid port, 570 l/min

Standard version (Carbon Steel shell/NBR mix) compatible with mineral oils (2).
According to PED 2014/68/EU, EN 14359, Fluid Group 2 (3).

Product, Part numbers, Accessories, Dimensions

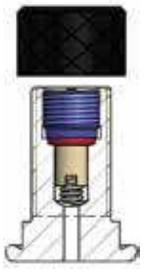
Type Part number	**Adaptor***	**Clamps**	**Support Bracket**	**Mounting Frame**	**Lifting Eye**	**Complete Repair Kit**
	Threaded Part number	Model (quantity) Part number	Model Part number	Model Part number	Model Part number	Model Part number
EHV 2.5-350/90-A25EC-200 10846101125	G ¾" cyl 04555200223	E114 (2) 20251003648	CE 89 20151903620	-	-	KIT EHV 2.5-350/90-A25EC 19029800225
EHV 4-350/90-A25EC-200 10846701125	G ¾" cyl 04555200223	E168 (2) 20251303648	CE108 20118703620	EF1 20217500125	-	KIT EHV 4-350/90-A25EC 19029900225
EHV 5-350/90-A25EC-200 10874601125	G ¾" cyl 04555200223	E114 (2) 20251003648	CE 89 20151903620	-	-	KIT EHV 5-350/90-A25EC 19030000225
EHV 6-350/90-A25EC-200 10874701125	G ¾" cyl 04555200223	E168 (2) 20251303648	CE108 20118703620	EF1 20217500125	-	KIT EHV 6-350/90-A25EC 19030100225
EHV 10-350/90-A25EC-200 10845901125	G ¾" cyl 04555200223	E168 (2) 20251303648	CE108 20118703620	EF1 20217500125	10912700200	KIT EHV 10- 350/90-A25EC 19030200225

* For more adaptor options see pages 74 & 75.

(2) For other fluids consult Parker

(3) For Fluid group 1 consideration : consult Parker

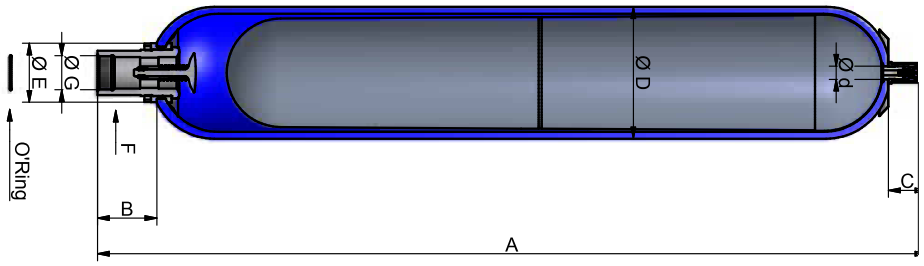
Model of valve stem
integrated
7/8"14 UNF
(C)



Type	Effective Gas vol. Litres	Max. Working pressure (PS) bar	Max Flow Rate l/min	Admissible Accumulator Temperature min/max (°C) (1)	Weight kg	Gas connection	Dimensions in mm							
							A max Height	B	C	øD	ød	øE	F on flats	G connection
EHV 2.5-350/90-A25EC-200	2.4	350	570	- 20/+80	11	7/8" 14 UNF	549	66	66	116	22.5	68	50	G 1¼"
EHV 4-350/90-A25EC-200	3.7	350	570	- 20/+80	15	7/8" 14 UNF	434	65	66	170	22.5	68	50	G 1¼"
EHV 5-350/90-A25EC-200	5	350	570	- 20/+80	17	7/8" 14 UNF	898	66	66	116	22.5	68	50	G 1¼"
EHV 6-350/90-A25EC-200	6	350	570	- 20/+80	20	7/8" 14 UNF	560	65	66	170	22.5	68	50	G 1¼"
EHV 10-350/90-A25EC-200	10	350	570	- 20/+80	31	7/8" 14 UNF	825	65	66	170	22.5	68	50	G 1¼"

(1)Temperature range can change depending on shell and elastomer material. Please see bladder materials and Type (page 87)

Above dimensions are in mm and are subject to manufacturing tolerances.



IHV Series 70 bar, 10 to 50 Litres

Standard version (**Stainless Steel** shell/compatible with mineral oils) (2).

According to ASME VIII Division I U STAMPED

Product Prices, Part numbers, Accessories, Dimensions

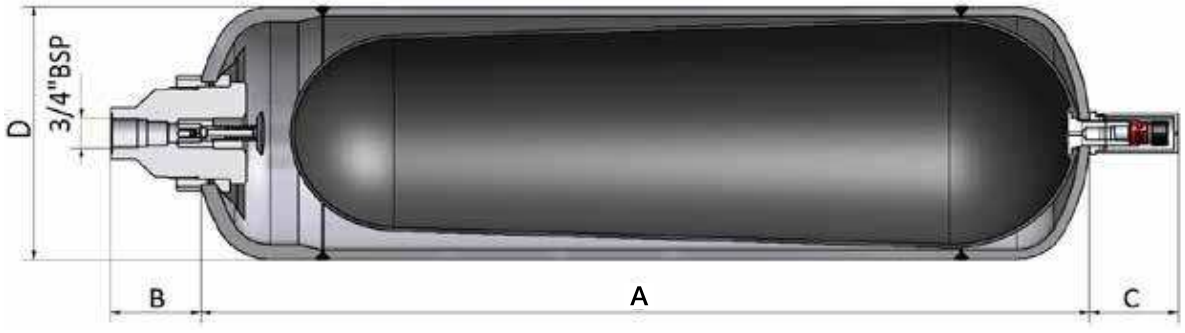
Type Part number	Part Number	**Adaptor**	**Flange**	**Clamps**	**Support Bracket**	**Complete Repair Kit**
		Threaded Part number	Threaded Part number	Model (quantity) Part number	Model Part number	Model Part number
IHV 10-70	J30100706169R80EX	Various adaptors and flanges available Consult Division		D226 (2) 20251503648	CE159A 20109003620	8590018-xxyy 8590019-xxyy
IHV 12-70	JN301207052CXR25 JN30120705CCXR25			D226 (2) 20251503648	CE159A 20109003620	8590020-xxyy 8590021-xxyy
IHV 20-70	JN302007052CXR25 KNPC20#1500NBR25			D226 (2) 20251503648	CE159A 20109003620	8590022-xxyy 8590023-xxyy
IHV 24,5-70	JN302407052CXR25 JN30240705CCXR25			D226 (2) 20251503648	CE159A 20109003620	8590024-xxyy 8590025-xxyy
IHV 32-70	JN303207052CXR25 U10320704000025			D226 (2) 20251503648	CE159A 20109003620	8590026-xxyy 8590027-xxyy
IHV 50-70	JN305007052CXR25 U10500706C63T25FCH			D226 (2) 20251503648	CE159A 20109003620	8590028-xxyy 8590029-xxyy

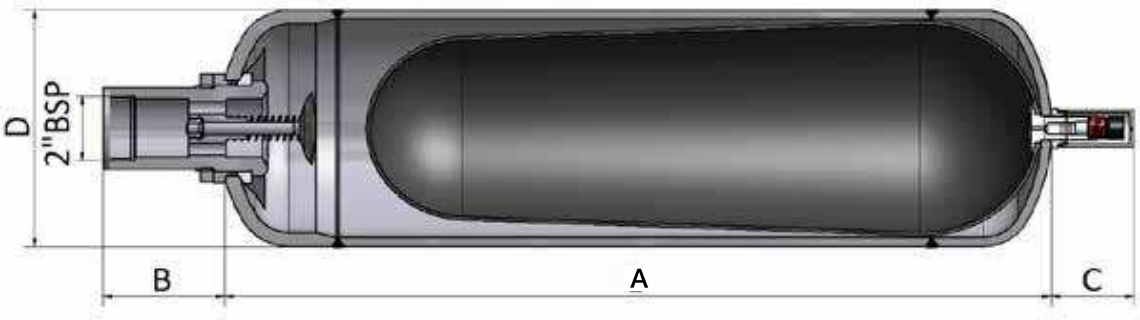
Available in PED 2014/68/EU (EHV version)

Possibility in carbon steel material, Duplex and Superduplex

(2) For other fluids consult Parker

Type	Effective Gas vol. Litres	Max. Working pressure (PS) bar	Admissible Accumulator Temperature min/max (°C)	Weight kg	Dimensions in mm				
					A max Height	øD	B (G2")	B (3/4" BSP)	C
IHV 10.70	11.5	70	-20/100	27	394	220	103	-	66
							-	68	
IHV 12.70	14.5	70	-20/100	32	493	220	103	-	66
								68	
IHV 20.70	21.2	70	-20/100	41	703	220	103	-	66
							-	68	
IHV 24,5.70	25.5	70	-20/100	50	851	220	103	-	66
								68	
IHV 32.70	38.0	70	-20/100	65	1225	220	103	-	66
							-	68	
IHV 50.70	54.5	70	-20/100	87	1740	220	103	-	66
							-	68	





IHV Series 110 bar, 10 to 50 Litres

Standard version (**Stainless Steel** shell/compatible with mineral oils) (2).

According to ASMEVIII Division I U STAMPED

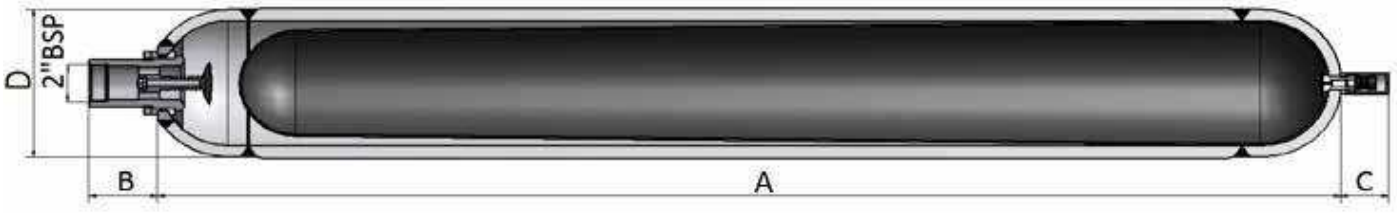
Type	Part Number	Adaptor	Flange	Clamps	Support Bracket	Complete Repair Kit
				Model (quantity) Part number	Model Part number	Model Part number
IHV 10-120	JL301011052CXR25 0104012R15102	Various adaptors and flanges available Consult Division		D226 (2) 20251503648	CE159A 20109003620	8590018-xxyy 8590019-xxyy
IHV 12-110	JL301211052CXR25 JL30121105CCXR25			D226 (2) 20251503648	CE159A 20109003620	8590020-xxyy 8590021-xxyy
IHV 20-122	JL302011052CXR25 01050122U01125FCH			D226 (2) 20251503648	CE159A 20109003620	8590022-xxyy 8590023-xxyy
IHV 24,5-110	JL302411052CXR25 JL30241105CCXR25			D226 (2) 20251503648	CE159A 20109003620	8590024-xxyy 8590025-xxyy
IHV 32-129	JL30321105CCXR25 K1032129500XT40			D226 (2) 20251503648	CE159A 20109003620	8590026-xxyy 8590027-xxyy
IHV 50-122	JL305011052CXR25 01070122U01025FCH			D226 (2) 20251503648	CE159A 20109003620	8590028-xxyy 8590029-xxyy

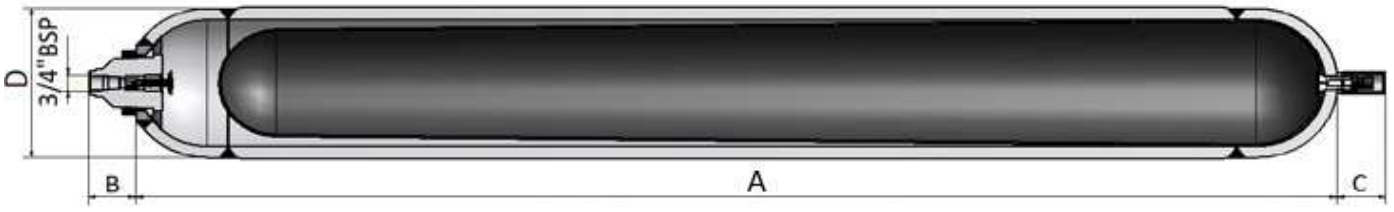
Available in PED 2014/68/EU (EHV version)

Available in carbon steel version, Duplex and Superduplex

(2) For other fluids consult Parker

Type	Effective Gas vol. Litres	Max. Working pressure (PS) bar	Admissible Accumulator Temperature min/max (°C)	Weight kg	Dimensions in mm				
					A max Height	øD	B (G2")	B (3/4" BSP)	C
IHV 10-120	10.3	110	-20/100	48	405	226	103	-	66
							-	68	
IHV 12-110	13.1	110	-20/100	59	504	226	103	-	66
							-	68	
IHV 20-122	19.7	110	-20/100	82	714	226	103	-	66
							-	68	
IHV 24,5-110	23.9	110	-20/100	90	862	226	103	-	66
							-	68	
IHV 32-129	36.1	110	-20/100	123	1233	226	103	-	66
							-	68	
IHV 50-122	52.2	110	-20/100	157	1752	226	103	-	66
							-	68	





IHV Series 110 bar, 10 to 50 Litres

Standard version (**Stainless Steel** shell/compatible with mineral oils) (2).

According to ASME VIII Division I U STAMPED

Product Prices, Part numbers, Accessories, Dimensions

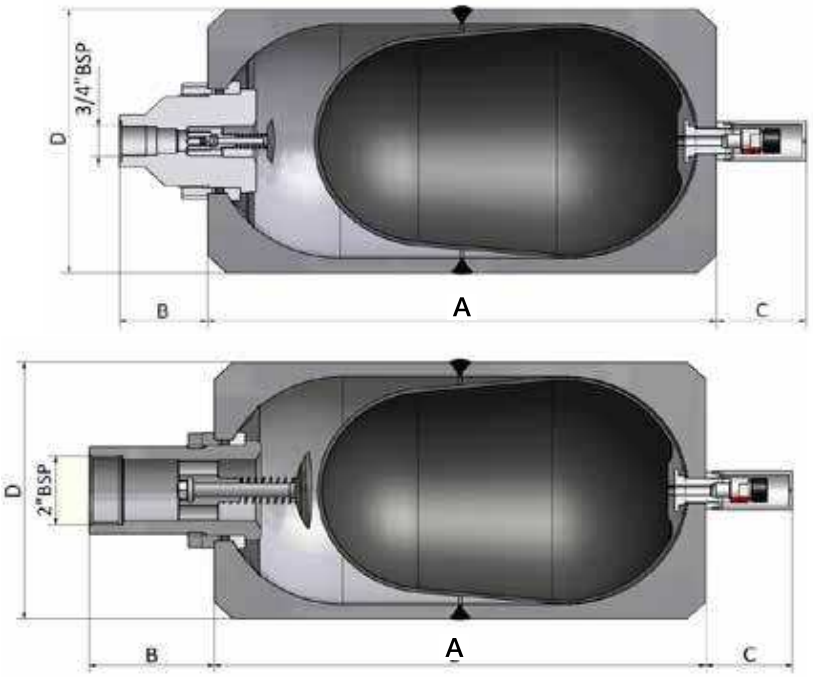
Type	Part Number	Adaptor	Flange	Clamps	Support Bracket	Complete Repair Kit
				Model (quantity) Part number	Model Part number	Model Part number
IHV 10-110	JS301011052CXR25 JS30101105CCXR25	Various adaptors and flanges available Consult Division		D226 (2) 20251503648	CE159A 20109003620	8590018-xxyy 8590019-xxyy
IHV 12-110	JS301211052CXR25 JS30121105CCXR25			D226 (2) 20251503648	CE159A 20109003620	8590020-xxyy 8590021-xxyy
IHV 20-110	JS302011052CXR25 JS30201105CCXR25			D226 (2) 20251503648	CE159A 20109003620	8590022-xxyy 8590023-xxyy
IHV 24,5-110	JS302411052CXR25 JS30241105CCXR25			D226 (2) 20251503648	CE159A 20109003620	8590024-xxyy 8590025-xxyy
IHV 32-110	JS303211052CXR25 JS30321105CCXR25			D226 (2) 20251503648	CE159A 20109003620	8590026-xxyy 8590027-xxyy
IHV 50-110	JS305011052CXR25 JS30501105CCXR25			D226 (2) 20251503648	CE159A 20109003620	8590028-xxyy 8590029-xxyy

Available in PED 2014/68/EU (EHV version)

Possibility in carbon steel material, Duplex and Superduplex

(2) For other fluids consult Parker

Type	Effective Gas vol. Litres	Max. Working pressure (PS) bar	Admissible Accumulator Temperature min/max (°C)	Weight kg	Dimensions in mm				
					A max Height	øD	B (G2")	B (3/4" BSP)	C
IHV 10-110	10.3	110	-20/100	46	400	226	103	-	66
							-	68	
IHV 12-110	13.1	110	-20/100	58	498	226	103	-	66
							-	68	
IHV 20-110	19.7	110	-20/100	70	708	226	103	-	66
							-	68	
IHV 24,5-110	23.9	110	-20/100	80	856	226	103	-	66
							-	68	
IHV 32-110	36.1	110	-20/100	105	1227	226	103	-	66
							-	68	
IHV 50-110	52.2	110	-20/100	138	1754	226	103	-	66
							-	68	



EHV Series 120 bar, 1 to 5 Litres

Standard version (Stainless Steel shell/NBR mix) compatible with mineral oils (2).
According to PED 2014/68/EU, AD 2000, Fluid Group 2 (3).

Product Prices, Part numbers, Accessories, Dimensions

Type Part number	**Pre-charge**		**Adaptor****	**Clamps**	**Support Bracket**	**Complete Repair Kit**
	1 - 109 bar	**110 - 209 bar**	Threaded Part number	Part number	Model Part number	Model Part number
EHV 1-120/00-I25DC-200* 10953701925	751001	751030	G ¾" cyl 04555201723	10981	CE 89 20151901220	KIT 1-120/00-I25DC 19039501725
EHV 2.5-120/90-I25DC-200 10953401925	751002	751031	G ¾" cyl 04555201723	10981	CE 89 20151901220	KIT 2.5-120/90-I25DC 19029801725
EHV 5-120/90-I25DC-200 10953501925	751003	751032	G ¾" cyl 04555201723	10981	CE 89 20151901220	KIT EHV 5-120/90-I25DC 19030001725

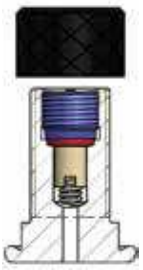
(2) For other fluids consult Parker

(3) For Fluid group 1 consideration : consult Parker

* According to Article 4.3 PED 2014/68/EU

** For more adaptor options see pages 74&75.

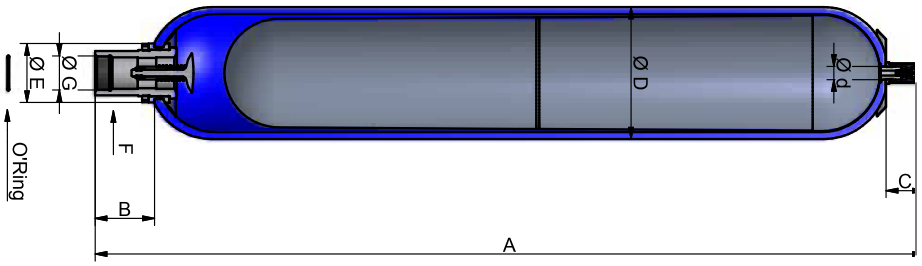
Model of valve stem
integrated
7/8"14 UNF
(C)



Type	Effective Gas vol. Litres	Max. Working pressure (PS) bar	Max Flow Rate l/min	Admissible Accumulator Temperature min/max (°C) (1)	Weight kg	Gas connection	Dimensions in mm							
							A max Height	B	C	øD	ød	øE	F on flats	G connection
EHV 1-120/00-I25DC-200*	1	120	450	- 20/80	6	7/8" 14 UNF	345	67	66	116	22.5	68	50	G 11/4"
EHV 2.5-120/90-I25DC-200 EHV 5-120/90	2.4 5	120 120	450 450	- 20/80	11 17	7/8" 14 UNF	542 891	67	66	116	22.5	68	50	G 11/4"
EHV 5-120/90-I25DC-200	5	120	450	- 20/80	17	7/8" 14 UNF	891	67	66	116	22.5	68	50	G 11/4"

(1)Temperature range can change depending on shell and elastomer material. Please see bladder materials and Type (page 87)

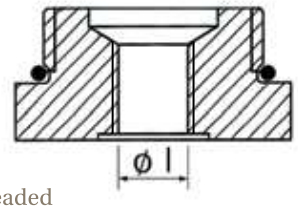
Above dimensions are in mm and are subject to manufacturing tolerances.



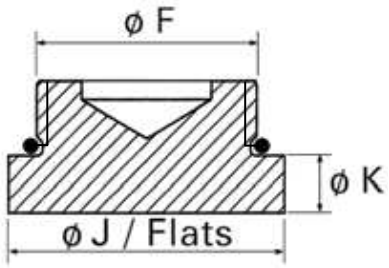
Adaptors EHV Carbon Steel

Accumulator model	Connection ØF gas cylinder	Connection ØI gas cylinder	P/N	Shape	J/Flats	K	O-Ring / Back-up ring
EHV 0,2 Litre 350 bar	G 1/2"	G 1/4"	04556500223	A	27	8	O-ring 18x2
		Blind	04501800223	A	27	8	O-ring 18x2
EHV 0,5 & 1 & 1,6 Litres 350 bar	G 3/4"	G 3/8"	04556400223	A	32	8	O-ring 21,3x2,4
			04556100223	B	32	8	O-ring 16,9x2,7
		Blind	04502000223	A	32	8	O-ring 21,3x2,4
			04558200223	B	32	8	O-ring 16,9x2,7
EHV 1 to 5 Litres 690 bar	G1"	G 1/2"	04579500223	B	41	10	O-ring 21,3x3,6 / BUR 22x28x0,69*2
		Blind	04579600223	B	41	10	O-ring 21,3x3,6 / BUR 22x28x0,69*2
EHV 2,5 to 10 Litres 350 bar	G1"1/4	G 1/2"	04555100233	A	50	10	O-ring 36,2x3
			04555800233	B	50	10	O-ring 30x3
		G 3/4"	04555200223	A	50	10	O-ring 36,2x3
			04555900223	B	50	10	O-ring 30x3
		G 1"	04583100223	A	50	40	O-ring 36,2x3
		Blind	04502200223	A	50	10	O-ring 36,2x3
			04558300233	B	50	10	O-ring 30x3
EHV 10 to 57 Litres 330 bar	G2"	G 1/2"	04556800223	A	65	13	O-ring 54x3
			04557700223	B	65	13	O-ring 48x3
		G 3/4"	04556900223	A	65	13	O-ring 54x3
			04557800223	B	65	13	O-ring 48x3
		G 1"	04557000223	A	65	13	O-ring 54x3
			04557900233	B	65	13	O-ring 48x3
		G 1"1/4	04557100223	A	65	13	O-ring 54x3
			04558000223	B	65	13	O-ring 48x3
		Blind	04502400223	A	65	13	O-ring 54x3
			04558400223	B	65	13	O-ring 48x3
EHV 10 to 50 Litres 480 bar	G2"	G 1/2"	04556802523	A	65	13	O-ring 54x3
			04557702523	B	65	13	O-ring 48x3
		G 3/4"	04556902523	A	65	13	O-ring 54x3
			04557802523	B	65	13	O-ring 48x3
		G 1"	04557002523	A	65	13	O-ring 54x3
			04557902523	B	65	13	O-ring 48x3
		G 1"1/4	04557102523	A	65	13	O-ring 54x3
			04558002523	B	65	13	O-ring 48x3
		Blind	04502402523	A	65	13	O-ring 54x3
			04558402523	B	65	13	O-ring 48x3
EHV 12 to 54 Litres 690 bar	G2"	G 1"	04579002523	B	65	15	O-ring 43,82x5,33 / BUR 45x54x0,85*2
		Blind	04579202523	B	65	15	O-ring 43,82x5,33 / BUR 45x54x0,85*2

Shape A - Seal in angle

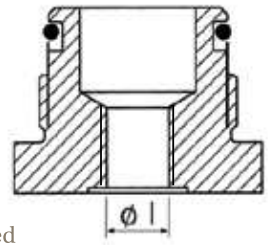


Threaded

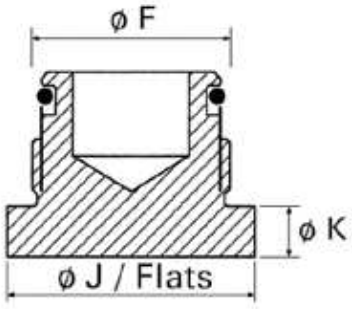


Blind

Shape B - Seal in fluid port



Threaded

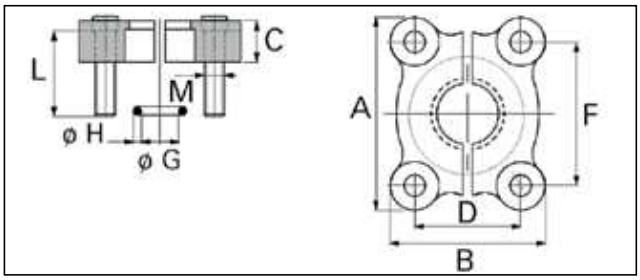


Blind

Flanges EHVF Carbon Steel

Accumulator model	Type	Part Number	A	B	C	D	F	øG	ØH	L	M
EHVF 2,5 to 10 Litres	**FLANGE KIT BR 400-25**	35132600123	81	70	24	27.8	57.2	32.92	3.53	45	M12
EHVF 10 to 57 Litres	**FLANGE KIT BR 400-38**	35132400123	113	95	30	36.5	79.3	47.22	3.53	55	M16

According ISO 6162-2



Due to our vast experience in demanding markets such as aerospace, military, nuclear, renewable energies and formula one racing, we are offering an unmatchable range of rubber compounds to meet the most difficult applications.

Parker Olaer products are supported all over the globe, and we will meet customer requirements wherever needed. We therefore offer the complete range of approvals, such as all key Marine approvals (BV, DNV, ABS, LR, ...), over and above all country specific approvals (PED, ASME, SELO, CRN, ARH, CUTR, ...).

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding

DNV·GL

ABS

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MARINE DIVISION

BUREAU VERITAS

Accumulator Regulations & Protections

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Additional Regulations

Due to our vast experience in demanding markets such as aerospace, military, nuclear, renewable energies and formula one racing, we are offering an unmatchable range of rubber compounds to meet the most difficult applications.

Parker Olaer products are supported all over the globe, and we will meet customer requirements wherever needed. We therefore offer the complete range of approvals, such as all key Marine approvals (BV, DNV, ABS, LR, ...), over and above all country specific approvals (PED, ASME, SELO, CRN, ARH, CUTR, ...).

Destination	Regulation	Regulation code		Comments
EUROPE	**PED**	**90**		Approval is based on the directive PED 2014/68/EU requirements. The CE marking will be apposed on the product for Pressure Vessel category >= I. Notified body must be engaged for PED conformity assessment for pressure vessel category >= II.
	PED	**00**		Product is compliance with directive PED 2014/68/EU and classified as art 4.3 (Sound Engineering Practice). No CE marking is stamped on product.
USA	**ASME**	**15 or 48**	**Base ASME VIII div 1 with or without appendix 22**	This regulation is based on the design code ASME VIII div 1 with or without appendix 22. Appendix 22 is only applicable for forged shells (under some conditions). To be conform to this regulation, products must be followed all the rules defined in this code. The U-stamp apposed on pressure equipment attest ASME compliance.
CHINA	**SELO**	**88**	**Base PED**	SELO regulation is only applicable for pressure vessels where : maximum working pressure ≥ 0.1 Mpa internal volume ≥ 30L and inner diameter ≥ 150 mm Refer to "AQSIQ Announcement No. 114, 2014 on the Revision of Special Equipment Catalogue", code 2000 for pressure vessel definition.
CANADA	**CRN**	**92**	**>= 152,4 mm, Based on ASME**	Approval is based on ASME VIII div 1 design code. Others countries as example Alaska require a CRN registration. Also, each province and territory of Canada has its own CRN rules, so, please indicate the concerned province for quotation.
	CRN		**< 152,4 mm, based on PED**	Pressure equipment, where internal diameter < 6 inch, could be registered as fitting under CRN consideration.
AUSTRALIA	**AS1210**	**83 or 91**	**Base PED or ASME**	Australian regulation is applicable for pressure vessels which maximum working pressure (MPa) X volume (internal volume in L) is higher than 30 MpaL in size.
JAPAN	**JIS**	**95**		Approval is based on ASME VIII div 1 design code (version 1998) and taking into account specific corrosion allowance value. JIS is applicable only for pressure vessels which internal diameter is higher than six inches (152,4 mm).
BRASIL	**NR13**	**AA AM AE**	**Base PED Based on Art 4.3 acc. To PED Based on ASME VIII div 1**	NR13 regulation is only applicable for pressure vessels which maximum working pressure in KPa x V (internal volume in m3) is higher than 8.Also, technical documentation packaging must be established and joined to the equipment. Special marking has to be done on the pressure vessel according to NR13 requirements.
RUSSIA, KAZAKHSTAN BELARUS	**CUTR 032/2013**	**71**	**Based on PED**	CUTR DoC or CoC must be established and joined to the equipment for delivery depending on risk category for pressure vessel. Technical passport could be established if customer requires it. Special nameplate (@ minima English and Russian languages) must be put on the pressure equipment to be compliance with this certification.
MARINE - OFF-SHORE	**DNV GL Det Norske Veritas and Germanischer Lloyd's**	**24, 43**	**Based on PED and design code EN 14359**	Off-shore Standard DNVGL OS-D101 is often required for accumulators on off-shore oil and gas applications, particularly in the North Sea. EHV accumulators are also certified DNV GL through Type Approval based on "EN 14359" standard. Through final inspection conducting by surveyor, a product certificate is delivered with the accumulator.
	BV BUREAU VERITAS MARINE	**11, 13**	**Based on PED and design code EN 14359**	BV Rules for the classification of Steel Ships NR 467 is often required for accumulators on offshore applications. Also, EHV accumulators are certified BV Marine through Type Approval based on "EN 14359" standard. A product certificate is delivered with the accumulator.
	ABS AMERICAN BUREAU OF SHIPPING	**41, 23**	**Based on PED and design code EN 14359**	ABS certification is required for accumulators installed on shipping vessels and oil rigs. To be added to a Product Design Assessment Certificate (PDA), accumulators must meet generally ABS steel vessel rules. Also, EHV accumulators are ABS certified based on "EN 14359" standard. All ABS approved accumulators must be witness tested at Parker by an ABS inspector

For these specific regulations (and/or) if your destination is not mentioned in this table, please contact Parker for more information

Destination	Regulation	Regulation code		Comments
MARINE - OFFSHORE	CCS Chinese Classification Society	BM	Based on PED and design code EN 14359	To check in details if the scope of this marine approval is compatible with your application, please contact PARKER for feasibility.
	LROS LLOYDS REGISTER OF SHIPPING	10		
	RINA	26		
France	NUCLEAR	90	Classified as NPE (Nuclear Pressure Equipment)	Approval is based on RCCM design code and dedicated only to France market. For other countries out of France, ASME III div 1 is more recognized for nuclear plant activities.
	NUCLEAR	BN	Non-Classified as NPE (Nuclear Pressure Equipment)	
EUROPE & USA	NUCLEAR	AZ	Based on ASME III div 1	Approval is based on ASME III division 1 (mainly on subsection NC for components class 2) for pressure equipment designated to countries other than France.

How to include the right regulation in your order ?

Multi-approval codification examples*

Code	Regulations
90 EX	PED + ATEX
94	PED + ASME
88	PED + SELO
86	PED + ASME + SELO

Accumulator denomination example :

EHV 32-330 / xx

For other regulations, please contact PARKER

Regulations by Country

		PARKER	
Country	**Regulation or Multi-approval**	**Code[1]**	**General Information**
Algeria	ARH	74	Hydrocarbon Regulatory Authority Based on CE or ASME Approval ARH dossier must be established and approved by the competent authorities
Argentina	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Australia	AS1210	83 91	CE + AS 1210 ASME VIII Div.1 App.22 + AS 1210
Austria	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Bahamas	CE OR ASME VIII Div 1	90 94 48 51	CE : From July 19th, 2016 : PED 2014/68/EU CE + ASME VIII Div.1 App.22, only applicable for forged shells ASME VIII Div.1 App.22, only applicable for forged shells ASME VIII Div.1, more dedicated to welded shells
Barbados	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Belarus	CUTR 032/2013 + technical passport	71	CUTR 032/2013 regulation applicable for Custom Union countries Russia, Kazakhstan, Belorussia – See PARKER ITALY
Belgium	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Bermuda	CE OR ASME VIII Div 1	90 94 48 51	CE : From July 19th, 2016 : PED 2014/68/EU CE + ASME VIII Div.1 App.22, only applicable for forged shells ASME VIII Div.1 App.22, only applicable for forged shells ASME VIII Div.1, more dedicated to welded shells
Bolivia	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Brazil	CE+NR13 CE+ASME+NR13	AA AB	Brazilian Regulation, based on CE or ASME approval, Technical dossier must be established, special marking and nameplate acc.to NR13 regulation
Bulgaria	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Canada	CRN (base ASME)	31 92 97	ASME VIII Div.1 + CRN (all provinces) ASME VIII Div.1 App.22 + CRN (all provinces), only applicable for forged shells CE + ASME VIII div. 1 App 22 + SELO + CRN (all provinces), only applicable for forged shells
Chile	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
China	CE	90	PED 2014/68/EU for pressure vessels where volume <= 30L or internal Ø <= 150mm
	SELO	85 88 86	SELO only : Chinese regulation, SELO applicable if volume > 30L and internal Ø > 150mm CE + SELO CE + SELO + ASME VIII DIV.1 App.22, only applicable for forged shells
Costa Rica	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Cyprus	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Czech Republic	CE + Technical passport	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Denmark	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Ecuador	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Egypt	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Estonia	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Finland	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
France	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Germany	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Hong Kong	SELO	85 88 86	SELO only : Chinese regulation, SELO applicable if volume > 30L and internal Ø > 150mm CE + SELO CE + SELO + ASME VIII DIV.1 App.22, only applicable for forged shells
Hungary	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Iceland	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
India	CE OR ASME VIII Div 1 (no U-stamp)	90 94 48 51	CE : From July 19th, 2016 : PED 2014/68/EU CE + ASME VIII Div.1 App.22, only applicable for forged shells ASME VIII Div.1 App.22, only applicable for forged shells ASME VIII Div.1, more dedicated to welded shells
Indonesia	No specific regulation	90 94 48 51	CE : From July 19th, 2016 : PED 2014/68/EU CE + ASME VIII Div.1 App.22, only applicable for forged shells ASME VIII Div.1 App.22, only applicable for forged shells ASME VIII Div.1, more dedicated to welded shells
Iran	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Iraq	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Ireland	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Israel	CE or ASME	90 94	CE : From July 19th, 2016 : PED 2014/68/EU CE + ASME VIII Div.1 App.22, only applicable for forged shells
Italy	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Japan	JIS	95	JIS + ASME VIII DIV.1 App.22 : Japanese industrial regulation (Japanese Industry Standard) + ASME VIII div. 1 applicable if internal Ø > 6", Only applicable for forged shell
Jordan	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)

Korea	CE or ASME	90 94 48 51	CE : From July 19th, 2016 : PED 2014/68/EU CE + ASME VIII Div.1 App.22, only applicable for forged shells ASME VIII Div.1 App.22, only applicable for forged shells ASME VIII Div.1, more dedicated to welded shells
Kuwait	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Latvia	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Lebanon	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Libya	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Lithuania	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Luxembourg	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Malaysia	DOSH Malaysia	AV BB BJ	ASME VIII Div.1 App 22 + DOSH, only applicable for forged shells CE + DOSH CE + ASME VIII Div.1 App.22 + DOSH, only applicable for forged shells
Malta	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Mexico	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Netherlands	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
New Zealand	AS1210	83 91	CE + AS 1210 ASME VIII Div.1 App.22 + AS 1210
Nigeria	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Norway	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Pakistan	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Peru	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Philippines	CE or ASME	90 94 48 51	CE : From July 19th, 2016 : PED 2014/68/EU CE + ASME VIII Div.1 App.22, only applicable for forged shells ASME VIII Div.1 App.22, only applicable for forged shells ASME VIII Div.1, more dedicated to welded shells
Poland	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Portugal	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Puerto Rico	CE or ASME	90 94 48 51	CE : From July 19th, 2016 : PED 2014/68/EU CE + ASME VIII Div.1 App.22, only applicable for forged shells ASME VIII Div.1 App.22, only applicable for forged shells ASME VIII Div.1, more dedicated to welded shells
Romania	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)

Russia	CUTR 032/2013 + technical passport	71	CUTR 032/2013 regulation applicable for Custom Union countries Russia, Kazakhstan, Belorussia – See PARKER ITALY
Saudi Arabia	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Singapore	CE or ASME	90 94 48 51	CE : From July 19th, 2016 : PED 2014/68/EU CE + ASME VIII Div.1 App.22, only applicable for forged shells ASME VIII Div.1 App.22, only applicable for forged shells ASME VIII Div.1, more dedicated to welded shells
Slovakia	CE + Technical passport	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Slovenia	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
South Africa	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Spain	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Sudan	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Sweden	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Switzerland	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Syria	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Taiwan	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Thailand	CE or ASME	90 94 48 51	CE : From july 19th, 2016 : PED 2014/68/EU CE + ASME VIII Div.1 App.22, only applicable for forged shells ASME VIII Div.1 App.22, only applicable for forged shells ASME VIII Div.1, more dedicated to welded shells
Tunisia	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Turkey	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
United Kingdom	CE, Pressure Systems Safety Regulations (PSSR)	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
USA	CE if internal Ø < 6” ASME VIII Div 1 (U-stamp) if internal Ø > 6”	90 94 48 51	CE : From July 19th, 2016 : PED 2014/68/EU CE + ASME VIII Div.1 App.22, only applicable for forged shells ASME VIII Div.1 App.22, only applicable for forged shells ASME VIII Div.1, more dedicated to welded shells
Venezuela	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)
Yugoslavia (Serbia Montenegro)	CE	90	From July 19th, 2016 : PED 2014/68/EU Fluid Group 1 (and/or 2)

Regulations for EBV Bladder Accumulators
Carbon Steel & Stainless Steel

Destination	EUROPE				USA		CHINA		CANADA		AUSTRALIA			
Regulation codification	/90 /00	/90 /00	/90 EX		/15 /48		/85		/92			/83	/91	
Models	PED FLUID GROUP 2	PED FLUID GROUP 1	ATEX	Maximum Working Pressure (Bar)	ASME VIII div. 1	Maximum Working Pressure (Psi)	SELO	Maximum Working Pressure (Bar)	CRN	Maximum Working Pressure (Psi)	AS1210	Maximum Working Pressure (Bar)	Maximum Working Pressure Psi	
EBV 0,5L	●	●	●	50			N/A							
EBV 0,5L	●	●	●	40			N/A							
EBV 1 to 5L	●	●	●	80			N/A							
EBV 1 to 5L	●	●	●	40			N/A							
EBV 10 to 20L	●	●	○	40			N/A							
EBV 10 to 20L	●	●	●	40	●	580 (40 Bar)	N/A							
EBV 10 to 50L	●	○	○	14 or 20	●	290 (20 Bar)	○		●	(2) 290 (20 Bar)	●		(3) 290 (20 Bar)	
EBV 32 to 50L	●	●	○	40			●	40						
EBV 32 to 50L	●	●	●	40	●	580 (40 Bar)	●	40						
EBV 100 to 200L	●	●	○	40			●	40						
EBV 100 to 200L	●	●	●	20	●	290 (20 Bar)	●	20						
EBV 100 to 200L	●	●	○	50			●	50						
EBV 100 to 200L	●	○	○	14 or 20	●	290 (20 Bar)	○		●	(2) 290 (20 Bar)	●		(3) 290 (20Bar)	
EBV 100 to 575L	●	●	●	20	●	290 (20 Bar)	●	20						
EBV 100 to 575L	●	●	●	8	●	290 (20 Bar)	●	8						
EBV 100 to 575L	●	●	●	16			●	16						
EBV 100 to 575L	●	●	●	20			●	20						
EBV 100 to 575L	●	●	●	40			●	40						
EBV 100 to 575L	●	○	○	14 or 18	●	261 (18 Bar)	○		●	(2) 261(18 Bar)	●		(3) 261 (18 Bar)	
EBV 100 to 575L	●	○	○	35	●	507 (35 Bar)	○		●	(2) 507 (35 Bar)	●		(3) 507 (35 Bar)	

(1) Pressure rating different from PED, based on ASME material, possibility of U-STAMP

(2) Based on ASME Certification, whatever Province CRN could be obtained

(3) Based on ASME Certification, whatever Design Verification could be obtained

● **Available**

○ **Available on request**

	BRAZIL			RUSSIA, KAZAKHSTAN, BELARUS			MARINE - OFFSHORE							
		/AE	/AA		/71	/AU	/43 /24		/13 /11		/23 /41		/ 24	
	NR13	Maximum Working Pressure (Bar)	Maximum Working Pressure (Bar)	CUTR 032/2013	Maximum Working Pressure (Bar)	Maximum Working Pressure Psi	DNV MOBILE SHIPS	Maximum Working Pressure (Bar)	BUREAU VERITAS MARINE	Maximum Working Pressure (Bar)	ABS AMERICAN BUREAU OF SHIPPING	Maximum Working Pressure (Bar)	GL GERMANISCHER LLOYD'S	Maximum Working Pressure (Bar)
							○		○		○		○	
							○		○		○		○	
	●		80	●	80		○		○		○		○	
				●	40		○		○		○		○	
	●		40	●	40		○		○		○		○	
	●		40	●	40	580 (40 Bar)	○		○		○		○	
				●	20	290 (20 Bar)								
	●		40	●	40		○		○		○		○	
	●		40	●	40	580 (40 Bar)	○		○		○		○	
	●		40	●	40		○		○		○		○	
	●		20	●	20	290 (20 Bar)	○		○		○		○	
	●		50	●	50		○		○		○		○	
				●	20	290 (20 Bar)								
	●		20	●	20	290 (20 Bar)	○		○		○		○	
	●		8	●	8	290 (20 Bar)	○		○		○		○	
	●		16	●	16		○		○		○		○	
	●		20	●	20		○		○		○		○	
	●		40	●	40		○		○		○		○	
				●	18	261 (18 Bar)								
				●	35	507 (35 Bar)								

Regulations for EHV Bladder Accumulators

Destination	EUROPE				USA		CHINA		CANADA		AUSTRALIA		
Regulation codification	/90 /00	/90 /00	/90 EX		/15 /48		/85		/92			/83	/91
Models	PED FLUID GROUP 2	PED FLUID GROUP 1	ATEX	Maximum Working Pressure (Bar)	ASME VIII div. 1	Maximum Working Pressure Psi	SELO	Maximum Working Pressure (Bar)	CRN	Maximum Working Pressure Psi	AS1210	Maximum Working Pressure (Bar)	Maximum Working Pressure Psi (Bar)
EHV (special) 5L	●	○	○	330	○		○		○		○		
EHV 0,2L	●	●	●	350	N/A								
EHV 0,5L	●	●	●	350	N/A		N/A		○		○		
EHV 1 to 5L	●	●	●	350	N/A		N/A		○		●	350	
EHV 1 to 5L	○	●	●	690	N/A		N/A		○		○		
EHV 1 to 5L	●	●	●	300	N/A		N/A		○		○		
EHV 1 to 5L	●	●	●	120	○		N/A		○		○		
EHV 10 to 50 L	●	○	○	110	●	1595 (110 Bar)	○		○	(2) 1595 (110 Bar)	○		(3) 1595 (110 Bar)
EHV 10 to 50 L Short	●	○	○	110	●	1595 (110 Bar)	○		○	(2) 1595 (110 Bar)	○		(3) 1595 (110 Bar)
EHV 10 to 24.5L	○	●	○	300	●	3000 (207 Bar)	N/A		●	3000 (207 Bar)	○		
EHV 10 to 24.5L	●	●	○	330	●	3600 (248 Bar)	N/A		●	3600 (248 Bar)	●		3600 (248 Bar)
EHV 10 to 24.5L	○	●	○	380	●	4000 (276 Bar)	N/A		●	4000 (276 Bar)	●		4000 (276 Bar)
EHV 10 to 24.5L	●	●	●	690	○		N/A		○		○		
EHV 10 to 50 L	●	○	○	70	●	1015 (70 Bar)	○		○	(2) 1015 (70 Bar)	○		(3) 1015 (70 Bar)
EHV 10 to 57L	●	●	●	480	○		●	480	○		●	400	
EHV 10 to 57L	●	○	●	480	○		●	480	○		○		
EHV 100 to 200L	●	●	○	300	○		●	300	○		○		
EHV 12 to 54L	○	●	●	690			●	690	○				
EHV 32 to 50L	●	●	●	690	○		●	690	○		○		
EHV 32 to 57L	○	●	○	300	●	3000 (207 Bar)	●	300	●	3000 (207 Bar)	○		
EHV 32 to 57L	●	●	○	330	●	3600 (248 Bar)	●	330	●	3600 (248 Bar)	●		3600 (248 Bar)
EHV 32 to 57L	○	●	○	380	●	4000 (276 Bar)	●	380	●	4000 (276 Bar)	●		4000 (276 Bar)
EHV 4 to 60L	○	○	○		●	5000 (345 bar)	○		○		○		
EHV 4 to 60L	○	○	○		●	6000 (413 Bar)	○		○		○		
EHV 4L-6L-10L	●	●	●	350	●	4000 (276 Bar)	N/A		○		●	320	
EHV 4L-6L-10L	●	●	●	210	○		N/A		○		○		
EHVDA 10 to 24,5L	●	●	●	330	●	3600 (248 Bar)	N/A		●	3600 (248 Bar)	●		3600 (248 Bar)
EHVDA 2,5 to 5L	●	●	●	350	N/A		N/A		○		○		
EHVDA 32 to 57L	●	●	●	330	●	3600 (248 Bar)	●	330	●	3600 (248 Bar)	●		3600 (248 Bar)
EHVDA 4L-6L-10L	●	●	●	350	●	4000 (276 Bar)	N/A		○		○		
EHVF 10 to 24.5L	●	●	○	330	○		N/A		○		○		
EHVF 2,5 to 10L	●	●	○	350	○		N/A		○		○		
EHVF 32 to 50L	●	●	○	330	○		●	330	○		○		

(1) Pressure rating different from PED, based on ASME material, possibility of U-STAMP

(2) Based on ASME Certification, whatever Province CRN could be obtained

(3) Based on ASME Certification, whatever Design Verification could be obtained

● Available

○ Available on request

Carbon Steel & Stainless Steel

	BRAZIL			RUSSIA, KAZAKHSTAN, BELARUS			MARINE - OFFSHORE								France	
		/AE	/AA		/71	/AU	/43 /24		/13 /11		/23 /41		/ 24			
	NR13	Maximum Work-ing Pressure (Bar)	Maximum Work-ing Pressure (Bar)	CUTR 032/2013	Maximum Work-ing Pressure (Bar)	Maximum Work-ing Pressure Psi	DNV MOBILE SHIPS	Maximum Work-ing Pressure (Bar)	BUREAU VERITAS MARINE	Maximum Work-ing Pressure (Bar)	ABS AMERICAN BUREAU OF SHIP-PING	Maximum Work-ing Pressure (Bar)	GL GERMANISCHER LLOYD'S	Maximum Work-ing Pressure (Bar)	NUCLEAR	Maximum Work-ing Pressure (Bar)
	○			○											●	330
	●		350				●	350		350	●	350	●	350		
	●		350	●	350		●	350	●	350	●	350	●	350		
	●		690	●	690		○		○		○		○			
	●		300	●	300		○		○		○		○			
	●		120	●	120		○		○		○		○			
				●	110	1595 (110 Bar)										
				●	110	1595 (110 Bar)										
	●	3000 (207 Bar)	300	●	300	3000 (207 Bar)	○		○		○		○			
	●	3600 (248 Bar)	330	●	330	3600 (248 Bar)	●	330	●	330	●	330	●	330		
	●	4000 (276 Bar)	380	●	380	4000 (276 Bar)	○		○		○		○			
	●		690	●	690		○		○		○		○			
				●	70	1015 (70 Bar)										
	●		480	●	480		○		○		○		○			
	●		480	●	480		●	480	○		○		●	480		
	●		300	●	300		○		○		○		○			
	●		690	●	690											
	●		690	●	690		○		○		○		○			
	●	3000 (207 Bar)	300	●	300	3000 (207 Bar)	○		○		○		○			
	●	3600 (248 Bar)	330	●	330	3600 (248 Bar)	●	330	●	330	●	330	●	330		
	●	4000 (276 Bar)	380	●	380	4000 (276 Bar)	○		○		○		○			
	●	5000 (345 bar)		●		5000 (345 bar)	○		○		○		○			
	●	6000 (413 Bar)		●		6000 (413 Bar)	○		○		○		○			
	●	4000 (276 Bar)	350	●	350	4000 (276 Bar)	●	350	●	350	●	350	●	350		
	●		210	●	210		○		○		○		○			
	●	3600 (248 Bar)	330	●	330	3600 (248 Bar)	●	330	●	330	●	330	●	330		
	●		350	●	350											
	●	3600 (248 Bar)	330	●	330	3600 (248 Bar)	●	330	●	330	●	330	●	330		
	●	4000 (276 Bar)	350	●	350	4000 (276 Bar)	●	350	●	350	●	350	●	350		
	●		330	●	330		○		○		○		○			
	●		350	●	350		○		○		○		○			
	●		330	●	330		○		○		○		○			

Anti-Corrosion Materials

Protections available from Parker

Example : from EHV 4-350/90 PART NUMBER 1084540XX25

Construction code		11 (standard version)	20	50	84	85
Accumulator shell	Coating	Primar Coating RAL 5005 External	EPOXY 80 microns Internal	NICKEL PLATING 50 microns Internal/External	RILSAN® 200-300 microns Internal/External	
	Material	Carbon Steel	Carbon Steel	Stainless Steel	Carbon Steel	
Valve Stem, Fluid port, and Protection Cap	Material	Standard Steel	Stainless Steel	Stainless Steel	Stainless Steel	Standard Steel
Volume						
0.2		x	x	x	x	x
0.5		x	x	x	x	x
1		x	x	x	x	x
1.6		x	x	x	x	x
2.5		x	x	x	x	x
4		x	x	x	x	x
5		x	x	x	x	x
6		x	x	x	x	x
10 (ø 170)		x	x	x	x	x
10 (ø 226)		x	x	x	x	x
12		x	x	x	x	x
20		x	x	x	x	x
24.5		x	x	x	x	x
32		x	x	x	x	x
42		x	x	x	x	x
50		x	x	x	x	x
57		x	x	x	x	x
100		x	x	x	x	x
200		x	x	x	x	x

Depending on your application, fluid and the environment in which you install your systems/equipment, Parker can offer a variety of internal and external shell coatings for your bladder accumulator. Please contact our technical support or your local accumulator expert at Parker if you are uncertain what you may require or for more details on the various coatings.

Bladder Materials and Types

Bladder mixes available from Parker Olaer.

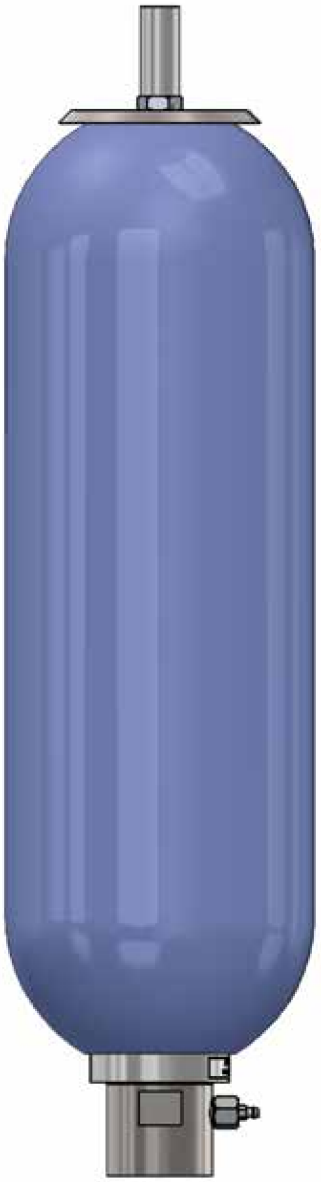
	Standard Bladder	Other mixes										
Mix Number	**Mix 25**	**Mix 02**	**Mix 10**	**Mix 20**	**Mix 30**	**Mix 35**	**Mix 37**	**Mix 40**	**Mix 47**	**Mix 80**	**E2**	**XL**
Mix Name	Standard NBR (Nitrile)	Hydrin C	Low Temp Nitrile	Heavy Duty Nitrile	Low Nitrile Permeability	High Temp Nitrile	External Low Temp Nitrile	Butyl	EPDM	Viton	High per-formance Nitrile	High per-formance Nitrile
Max Admissible-Temp °C	100	115	80	100	115	130	110	120	120	140	100	100
Min Admissible Temp °C	-20	-32	-30	-6	-5	0	-59	-15	-40	-20	-15	-10
Volume/Typical Fluid	Mineral Oil	Mineral Oil	Mineral Oil	Mineral Oil	Mineral Oil + Special fuels (not unleaded gasoline)	Mineral Oil	Consult Parker Olaer regarding fluid and application	Water based fluids	Phosphate esters	Aggressive fluids	Mineral Oil	Mineral Oil
0.2	Standard	x	x		x	x	x	x	x	x		
0.5		x	x	x	x	x	x	x	x	x		
1		x	x	x	x	x	x	x	x	x		
1.6		x	x	x	x	x	x	x	x	x		
2.5		x	x	x	x	x	x	x	x	x		x
4		x	x	x	x	x	x	x	x	x		
5		x	x	x	x	x	x	x	x	x		
6		x	x	x	x	x	x	x	x	x		
10 (ø 170)		x	x	x	x	x	x	x	x	x		
10 (ø 226)		x	x	x	x	x	x	x	x	x	x	x
12		x	x	x	x	x	x	x	x	x	x	x
20		x	x	x	x	x	x	x	x	x	x	x
24.5		x	x	x	x	x	x	x	x	x	x	x
32		x	x	x	x	x	x	x	x	x	x	x
42		x	x	x	x	x	x	x	x	x		
50		x	x	x	x	x	x	x	x	x		x
57		x	x	x	x	x	x	x	x	x		
100*		x	x		x	x	x	x	x	x		
200*		x	x		x	x	x	x	x	x		

* Accumulators 100 & 200 Litres Standard Nitrile Mix 20

For the range concerning 100 to 575 L Consult Division.

Notes

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



UK Industrial- UK Series Bladder Accumulators

High Pressure, 207 to 420 bar

Parker OLAER

ENGINEERING YOUR SUCCESS.

Description

The Parker UK Series is ideally suited for the UK Industrial market and is fitted with a bonded seal fluid port and ¼" BSP gas connection as standard (more options available). Available in carbon steel (20 to 80 bar) and stainless steel (20 to 40 bar)

The UK bladder accumulator offers a reliable and efficient solution for storing energy under pressure. Utilizing comprehensive tools and resources including an applications database, CAD/CAM, finite element analysis, reliability studies and simulation we have optimized the design and performance of the accumulator. Parker Olaer bladder accumulators are suitable for use in more than 35 countries (all hydraulic accumulators for Europe are CE marked) and they can meet an extensive range of international and industry approvals.

Rigorous product testing and continuous product development help to ensure our hydraulic accumulators operate at optimum efficiency and can perform in the most demanding environments. Parker accumulator accessories such as Safety Blocks, Burst Discs and Permanent Charging Sets, can aid the safe installation and operation of the accumulators in any hydraulic system.

Parker Olaer have developed very sophisticated simulation software to optimize sizing recommendations for hydraulic accumulators. You can download the accumulator sizing software from www.Parker.com/acde.

Features/Benefits

- **Extensive range of international and industry approvals (PED 2014/68/EU, EN 14359, ATEX, ASME VIII div 1 and PD5500)**
- **Rigorous product testing and continuous product development**
- **Large selection of materials and fittings to suit every hydraulic system.**
- **Parker Olaer offers a wealth of product knowledge and experience thus enabling us to provide first class technical support and customer service.**

Markets

- **Industrial**

Applications

- **Hydrostatic bearings**
- **Lubricating oil supplies**
- **Chucking systems**
- **Machine tools**
- **Safety/Emergency braking systems**

Design & Features

Shell: Oil Service - seamless shell, designed and manufactured to PED 2014/68/EU and CE marked. Material - Chromium-molybdenum steel. Working pressure 207, 310, 345 and 420 bar. Water service as above with shell interior epoxy resin lined.

Label: With assembly specification and installation details.

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

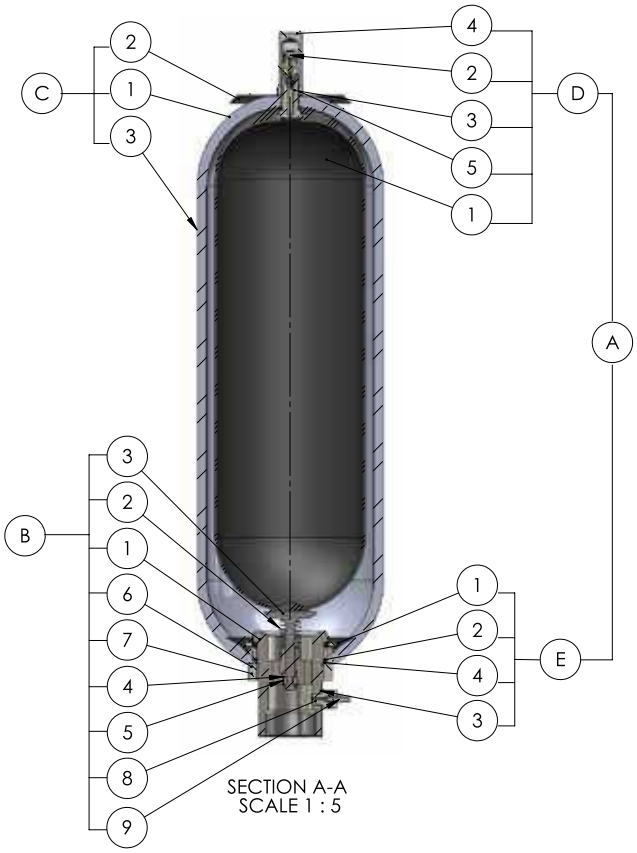
Finish: One coat primer paint as standard. Special paints available.

Bladder: Totally enclosed construction with an extensive range of elastomers available. See page 5 for Bladder details.

Fluid Port Assembly: Integral high-flow port and poppet valve assembly with an anti-extrusion ring.

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. See Installation and Servicing data sheet for information regarding installation of accumulators.

Pressure Testing: A hydro static pressure test is carried out on all our accumulator shells during the manufacturing process. We can carry out additional pressure testing witnessed by a specified Inspection Authority and/or customer as an optional extra if required. We can also carry out a hydro-pneumatic pressure test on the complete assembly as an optional extra if required. Again this can be witnessed by a specified inspection authority and/or customer.



A	**Bladder Kit comprising:**
D	**Bladder assembly**
D1	Bladder
D2	Gas valve assembly
D3	Locknut
D4	Protective cap
D5	'O' ring stem
E	**Anti extrusion ring assembly**
E1	Anti extrusion ring
E2	'O' ring fluid port*
E3	Bonded seal
E4	Back-up ring

B	**Fluid port assembly comprising**
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*

C	**Shell assembly comprising:**
C1	Shell
C2	Label
C3	Label warning

Note: Models 1/54 litres detailed above. Models 0.6 litres have Gas Valve assembly integral with bladder stem without protective cap fitted. * Not fitted on all models

UK Series 207 to 420 bar: How to order

03 0 0A-00-34 1

Volume in Litres

OB: for 0.16 Litres
OF: for 0.6 Litres
011: for 1 Litres
03: for 2.5 Litres
04: for 4 Litres
10: for 10 Litres
20: for 20 Litres
28: for 28 Litres
37: for 37 Litres
54: for 54 Litres

Bladder Material

0: Nitrile standard
1: Butyl
2: Low temperature nitrile
3: Low permeability nitrile
6: Viton
8: High temperature nitrile

Bladder Stem/Gas Valve

0.16 to 3 Litres
0A: 5/8"UNF CS Stem/ 1/4"BSP Brass Gas Valve
9A: 5/8"UNF CS Stem/ 0.302"-32 Brass Gas Valve

4-37 Litres
0A: 7/8"UNF CS Stem/ 1/4"BSP Brass Gas Valve
9A: n/a

54 Litres
0A: M50x1.5P CS Stem/ 1/4"BSP Brass Gas Valve
9A: M50x1.5P CS Stem/ 0.302"-32 Brass Gas Valve

Shell and Fluid Port

00: Oil service
02: Low/medium corrosive service (lined shell)
03: Underground mining - water service
04: Underground mining - oil service

Note: For other assembly options please contact your local Parker Sales Company.

Maximum Working Pressure

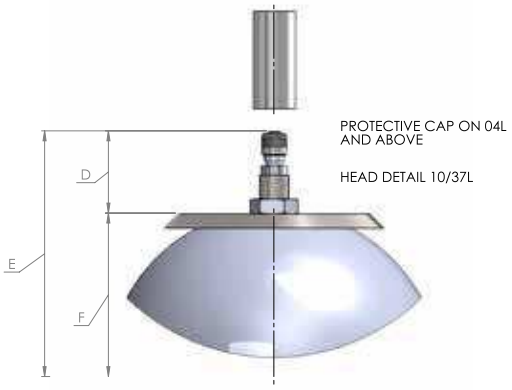
20: 207 bar
31: 310 bar
34: 345 bar
35: 350 bar
42: 420 bar (10-54L only)

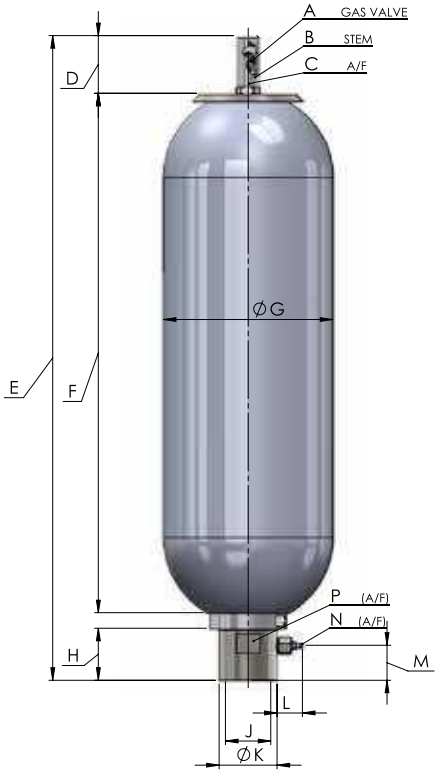
Design Standard/ Authority Approval

1: Lloyds/CE

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	J Inches	K	L	M	N	P
OB	0.16	345	27	2.00	¼ BSP	5/8 UNF	24	40	292	205	55	36	½ BSPF	26	-	-	-	23
OF	0.60	345	109	2.70	¼ BSP	5/8 UNF	24	40	266	175	90	37	¾ BSPF	35	-	-	-	32
011	1.15	207	109	5.4	¼ BSP	5/8 UNF	24	40	292	200	115	37	¾ BSPF	35	-	-	-	32
011	1.15	345	109	5.7	¼ BSP	5/8 UNF	23	40	292	200	115	37	¾ BSPF	35	-	-	-	32
03	2.5	345	215	10.00	¼ BSP	5/8 UNF	23	40	506	402	115	49	1 BSPF	44	5	32	15	41
04	3.8	207	477	15.20	¼ BSP	7/8 UNF	33	78	455	289	169	74	1 ¼ BSPF	60	36	39	9	55
04	3.8	345	477	15.20	¼ BSP	7/8 UNF	33	78	455	289	169	74	1 ¼ BSPF	60	36	39	9	55
10	9.4	207	749	35.00	¼ BSP	7/8 UNF	33	78	575	407	219	70	2 BSPF	76	36	46	9	69
10	9.4	310	749	35.00	¼ BSP	7/8 UNF	33	78	575	407	219	70	2 BSPF	76	36	46	9	69
10	9.4	345	749	35.00	¼ BSP	7/8 UNF	33	78	575	407	221	70	2 BSPF	76	36	46	9	69
10	9.4	420	749	34.00	¼ BSP	7/8 UNF	33	78	575	407	229	70	2 BSPF	76	36	46	9	69
20	18.8	207	749	55.00	¼ BSP	7/8 UNF	33	78	886	718	219	70	2 BSPF	76	36	46	9	69
20	18.8	310	749	55.00	¼ BSP	7/8 UNF	33	78	886	718	219	70	2 BSPF	76	36	46	9	69
20	18.8	345	749	55.00	¼ BSP	7/8 UNF	33	78	886	718	221	70	2 BSPF	76	36	46	9	69
20	18.8	420	749	54.00	¼ BSP	7/8 UNF	33	78	886	718	229	70	2 BSPF	76	36	46	9	69
28	25.8	207	749	61.00	¼ BSP	7/8 UNF	33	78	1158	990	221	70	2 BSPF	76	36	46	9	69
28	25.8	345	749	61.00	¼ BSP	7/8 UNF	33	78	1158	990	221	70	2 BSPF	76	36	46	9	69
37	35.2	207	749	91.00	¼ BSP	7/8 UNF	33	78	1407	1239	219	70	2 BSPF	76	36	46	9	69
37	35.2	310	749	91.00	¼ BSP	7/8 UNF	33	78	1407	1239	219	70	2 BSPF	76	36	46	9	69
37	35.2	345	749	91.00	¼ BSP	7/8 UNF	33	78	1407	1239	221	70	2 BSPF	76	36	46	9	69
37	35.2	420	749	86.00	¼ BSP	7/8 UNF	33	78	1407	1239	229	70	2 BSPF	76	36	46	9	69
54	49.2	207	749	130.00	¼ BSP	M50x 1.5	69	66	1922	1766	219	70	2 BSPF	76	36	46	9	69
54	49.2	310	749	130.00	¼ BSP	M50x 1.5	69	66	1922	1766	219	70	2 BSPF	76	36	46	9	69
54	49.2	345	749	130.00	¼ BSP	M50x 1.5	69	66	1922	1766	221	70	2 BSPF	76	36	46	9	69
54	49.2	420	749	119.00	¼ BSP	M50x 1.5	69	66	1922	1766	229	70	2 BSPF	76	36	46	9	69

Note: Dimensions are based on current stock and are subject to change without prior notice.





Notes

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding

Oil and Gas - O&G Series Bladder Accumulators

High Pressure, 207 to 760 bar

Parker OLAER®

ENGINEERING YOUR SUCCESS.

Description

Designed for high pressure hydraulic systems, the O&G bladder accumulator has been developed for the hazardous environments encountered within the Oil & Gas Industry and other aggressive environments. Carbon and stainless steel (up to 760 bar).

The O&G bladder accumulator is specially designed and developed for the hazardous environments encountered within the Oil and Gas industry however it is also ideally suited for other highly demanding markets. They meet a wide range of approvals and are tailor made to meet your requirements (e.g. special coatings, IP-class and ATEX/Ex approvals).

Utilizing comprehensive tools and resources including an applications database, CAD/CAM, finite element analysis, reliability studies and simulation we have optimized the design and performance of the accumulator. Parker Olaer bladder accumulators are suitable for use in more than 35 countries (all hydraulic accumulators for Europe are CE marked) and they can meet an extensive range of international and industry approvals.

Rigorous product testing and continuous product development help to ensure our hydraulic accumulators operate at optimum efficiency and can perform in the most demanding environments. Parker accumulator accessories such as Safety Blocks, Burst Discs and Permanent Charging Sets, can aid the safe installation and operation of the accumulators in any hydraulic system.

Parker Olaer have developed very sophisticated simulation software to optimize sizing recommendations for hydraulic accumulators. You can download the accumulator sizing software from www.Parker.com/acde.

Features/Benefits

- **Extensive range of international and industry approvals (PED 2014/68/EU, EN 14359, ATEX, ASME VIII div 1, SELO, CRN, AS1210, NR13, CUTR, DNV, BV Marine, ABS and GL)**
- **Rigorous product testing and continuous product development**
- **Large selection of materials and fittings to suit every hydraulic system.**
- **Parker Olaer offers a wealth of product knowledge and experience thus enabling us to provide first class technical support and customer service.**

Markets

- **Oil and Gas**
- **Industrial**

Applications

TOPSIDE APPLICATIONS

- **Intervention and Workover Control Systems (IWOCS) and Workover Control Systems (WOCS)**
- **Wellhead Control Panels (WHCP)**
- **Chemical Injection Skids**
- **Winch Systems**
- **A Frames**
- **Heave Compensation**
- **Davit Systems**
- **Cranes, Hydraulic Power Units (HPUs)**
- **Blow Out Preventers (BOP)**

SUBSEA APPLICATIONS

- **Christmas Trees**
- **Manifolds**
- **Blow Out Preventers (BOP)**
- **Subsea Accumulator Modules (SAMs) and/or Subsea Control Modules (SCMs)**

INDUSTRIAL

- **Hydraulic Power Units (HPUs)**
- **Plastic Moulding Machines**
- **Hydraulic Presses**

Technical Characteristics

The accumulator comprises of:

Shell
Forged seamless chrome molybdenum steel, designed and manufactured to PED 2014/68/EU and CE marked.

Label
With assembly specification and installation details.

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.

Fluid Port Assembly
Integral high-flow port and poppet valve assembly with an anti-extrusion ring.

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. See Installation and Servicing data sheet for information regarding installation of accumulators.

Pressure Testing
A hydro static pressure test is carried out on all our accumulator shells during the manufacturing process. We can carry out additional pressure testing witnessed by a specified Inspection Authority and/or customer as an optional extra if required.

We can also carry out a hydro-pneumatic pressure test on the complete assembly as an optional extra if required. Again this can be witnessed by a specified inspection authority and/or customer.

Accessories
A complete range of accumulator accessories are available from Parker.

Spare Parts
Available on request.

Bladder Details

Parker offer a wide range of bladder materials to suit most applications.

Table 1 - Material according to temperature range.
Range of bladder materials available with their corresponding working temperature range when handling non-aggressive fluids.

Material Code	Bladder Material	Temperature Range (Deg. C)			
		Static		Dynamic	
0	Nitrile	-20	100	-15	100
1	Butyl	-15	120	-15	120
2	Low Temp Nitrile	-40	70	-25	70
3	Low Permeability Nitrile	0	105		
6	Fluorocarbon (Viton)	-20	130		
7	High Aromatic Nitrile	0	105		
8	High Temp Nitrile	0	150		
9	EPI - Chlorohydin 100	-20	120		
A	Ethylene Propylene (EP)	-20	120		
B	EPI - Chlorohydin 200	-40	120		
K	Special Low Temp Nitrile	-79	100	-59	100
L	Peroxide Cured EPDM	please contact us for details			
M	High Temperature Fluro-carbon	-10	200		
N	Low Temp Nitrile	-45	70		

Table 2 - Bladder capacity / overall dimensions

Accumulator Capacity (Litres) Nominal	Dimension		Stem Diameters		
	"H"	"D"	5/8" (16mm)	7/8" (22mm)	2" (50mm)
0.16	154	41	*		
0.6	132	73	*		
1.15 (1.25)	147	91	*	*	
3	335	100	*	*	
4	203	142		*	
5	680	100		*	
6	305	142		*	
9 (10)	570	142		*	
12.5	655	142		*	
10	283	198		*	*
12	406	198			*
20	610	198		*	*
24.5	719	198			*
28	880	198		*	
37	1128	198		*	*
42	1280	198		*	
54	1603	198		*	*

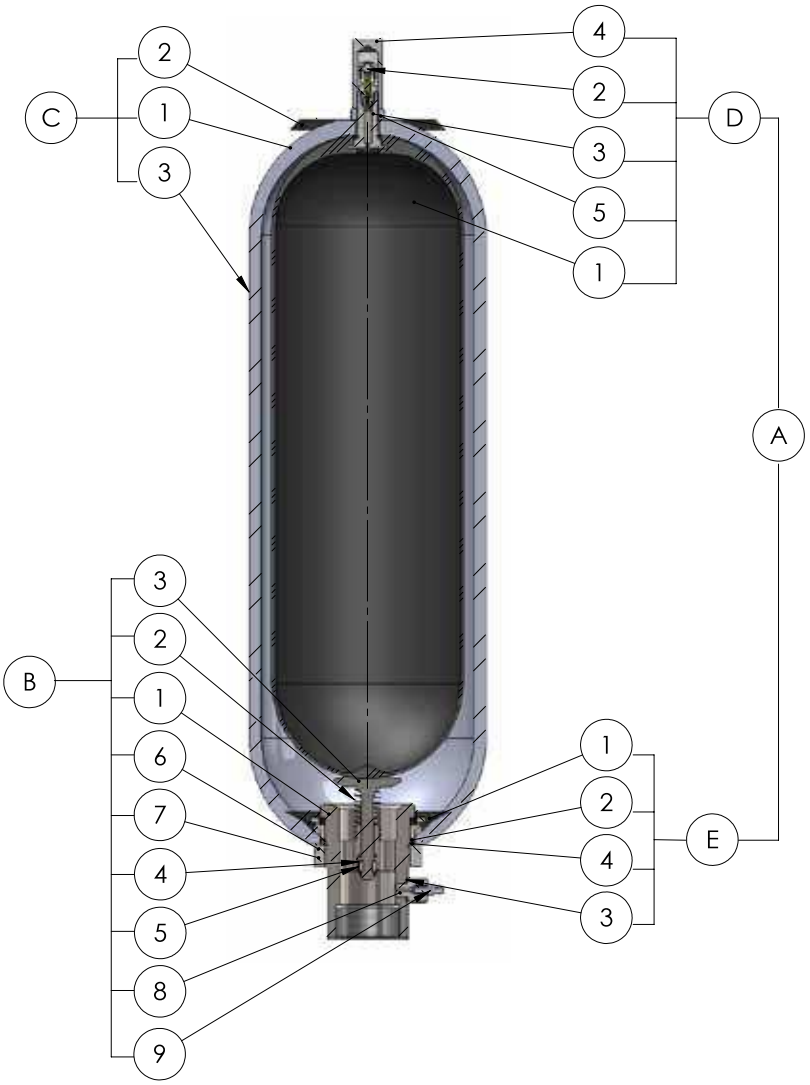
O&G Series, 207 to 420 bar

A	**Bladder Kit comprising:**
D	**Bladder assembly**
D1	Bladder
D2	Gas valve assembly
D3	Locknut
D4	Protective cap
D5	'O' ring stem
E	**Anti extrusion ring assembly**
E1	Anti extrusion ring
E2	'O' ring fluid port
E3	Bonded seal*
E4	Back-up ring

B	**Fluid port assembly comprising**
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*

C	**Shell assembly comprising:**
C1	Shell
C2	Label
C3	Label warning

Note: Models 1/54 litres detailed above. Models 0.6 litres have Gas Valve assembly integral with bladder stem without protective cap fitted. * Not fitted on all models



O&G Series 207 to 420 bar: How to order

0400A-00-341

Volume in Litres

OB: for 0.16 Litres
OF: for 0.6 Litres
011: for 1 Litres
03: for 2.5 Litres
04: for 4 Litres
10: for 10 Litres
20: for 20 Litres
28: for 28 Litres
37: for 37 Litres
54: for 54 Litres

Bladder Material

0: Nitrile standard
1: Butyl
2: Low temperature nitrile
3: Low permeability nitrile
6: Viton
8: High temperature nitrile

Bladder Stem/Gas Valve

	0.16 to 3 Litres	4-37 Litres
0A:	5/8”UNF CS Stem/ 1/4”BSP Brass Gas Valve	7/8”UNF CS Stem/ 1/4”BSP Brass Gas Valve
SA:	5/8”UNF SS Stem/ 1/4”BSP SS Gas Valve	7/8”UNF SS Stem/ 1/4”BSP Brass Gas Valve
3F:	n/a	7/8”UNF SS Stem/ 1/4”BSP SS Gas Valve
9A:	5/8”UNF CS Stem/ 0.302”-32 Brass Gas Valve	n/a
4A:	n/a	7/8”UNF CS Stem/ 0.302”-32 Brass Gas Valve
6A:	n/a	n/a

	54 Litres
0A:	M50x1.5P CS Stem/ 1/4“BSP Brass Gas Valve
SA:	M50x1.5P SS Stem/ 1/4“BSP Brass Gas Valve
3F:	M50x1.5P SS Stem/ 1/4“BSP SS Gas Valve
4A:	7/8”UNF CS Stem/ 0.302”-32 Brass Gas Valve
6A:	M50x1.5P CS Stem/ 0.302”-32 Brass Gas Valve

Shell and Fluid Port

00: Oil service
02: Low/medium corrosive service (lined shell)
W6: Stainless steel externals, unlined shell
CZ: Stainless steel externals, unlined shell 1/2”NPT connection (10-54 litre only)
DW: Stainless steel externals, unlined shell 3/4”NPT connection (10-54 litre only)
DU: Stainless steel externals, unlined shell 1”NPT connection (10-54 litre only)
DL: Stainless steel externals, unlined shell 1/2”BSP connection (10-54 litre only)
EZ: Stainless steel externals, unlined shell 3/4”BSP “necked” connection (10-54 litre only)13:
13: Oil service (NPT connection)
14: Low/ medium corrosive service (lined shell, NPT connection)

Maximum Working Pressure

20: 207 bar
31: 310 bar
34: 345 bar
35: 350 bar
42: 420 bar (10-54L only)

Design Standard/ Authority Approval

1: Lloyds/CE

O&G Series 345 bar, 10 to 57 Litres

Standard version (Carbon Steel shell/NBR mix) compatible with mineral oils (2).
According to PED 2014/68/EU

Part numbers, Accessories, Dimensions

Part Number	Clamps	Support Bracket	Lifting Eye on gas side	Complete Repair Kit
	(quantity) Part number	Part number	Part number	Part number
100SA-CZ-341	10983	10961	FCH403922-3	100SA-CZ
200SA-CZ-341	10983	10961	FCH403922-3	200SA-CZ
280SA-CZ-341	10983	10961	FCH403922-3	280SA-CZ
370SA-CZ-341	10983	10961	FCH403922-3	370SA-CZ
540SA-CZ-341	10983	10961	10*5K-DC	540SA-CZ

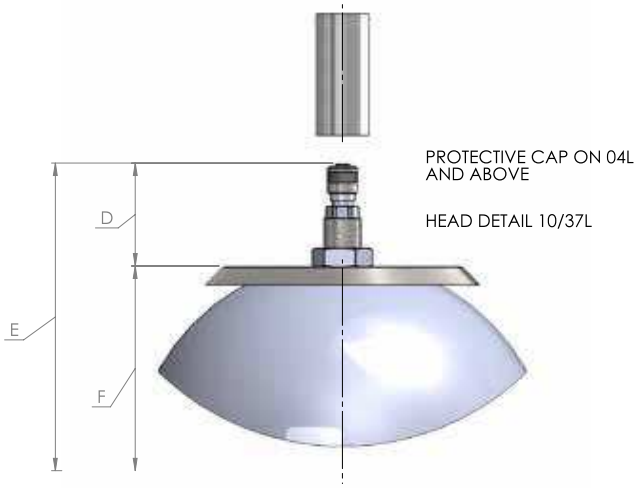
* For more adaptor options see pages 74&75.

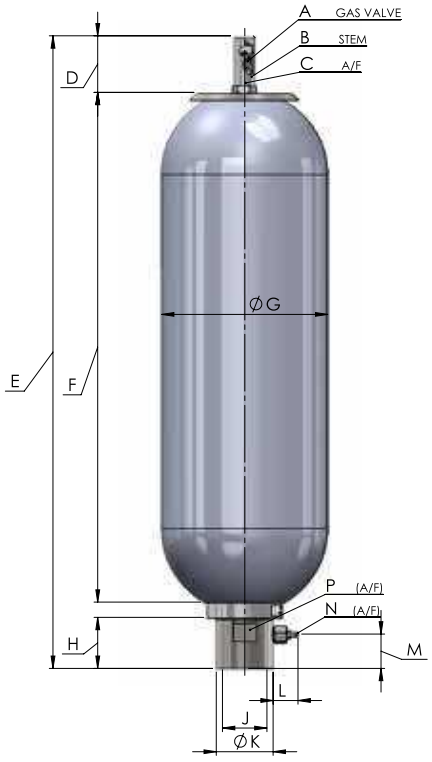
Nominal Capacity Litres	Effective Gas vol. Litres	Work press. bar	Max Flow Rate lt/min	Weight Dry Kilo	Dimensions in mm unless stated otherwise and subject to manufacturer's tolerances													
					A Inches	B Inches	C	D	E	F	G	H	J Inches	K	L	M	N	P
OB	0.16	345	27	2.00	¼ BSP	5/8 UNF	24	40	292	205	55	36	½ BSPF	26	-	-	-	23
OF	0.60	345	109	2.70	¼ BSP	5/8 UNF	24	40	266	175	90	37	¾ BSPF	35	-	-	-	32
011	1.15	207	109	5.4	¼ BSP	5/8 UNF	24	40	292	200	115	37	¾ BSPF	35	-	-	-	32
011	1.15	345	109	5.7	¼ BSP	5/8 UNF	23	40	292	200	115	37	¾ BSPF	35	-	-	-	32
03	2.5	345	215	10.00	¼ BSP	5/8 UNF	23	40	506	402	115	49	1 BSPF	44	5	32	15	41
04	3.8	207	477	15.20	¼ BSP	7/8 UNF	33	78	455	289	169	74	1 ¼ BSPF	60	36	39	9	55
04	3.8	345	477	15.20	¼ BSP	7/8 UNF	33	78	455	289	169	74	1 ¼ BSPF	60	36	39	9	55
10	9.4	207	749	35.00	¼ BSP	7/8 UNF	33	78	575	407	219	70	2 BSPF	76	36	46	9	69
10	9.4	310	749	35.00	¼ BSP	7/8 UNF	33	78	575	407	219	70	2 BSPF	76	36	46	9	69
10	9.4	345	749	35.00	¼ BSP	7/8 UNF	33	78	575	407	221	70	2 BSPF	76	36	46	9	69
10	9.4	420	749	34.00	¼ BSP	7/8 UNF	33	78	575	407	229	70	2 BSPF	76	36	46	9	69
20	18.8	207	749	55.00	¼ BSP	7/8 UNF	33	78	886	718	219	70	2 BSPF	76	36	46	9	69
20	18.8	310	749	55.00	¼ BSP	7/8 UNF	33	78	886	718	219	70	2 BSPF	76	36	46	9	69
20	18.8	345	749	55.00	¼ BSP	7/8 UNF	33	78	886	718	221	70	2 BSPF	76	36	46	9	69
20	18.8	420	749	54.00	¼ BSP	7/8 UNF	33	78	886	718	229	70	2 BSPF	76	36	46	9	69
28	25.8	207	749	61.00	¼ BSP	7/8 UNF	33	78	1158	990	221	70	2 BSPF	76	36	46	9	69
28	25.8	345	749	61.00	¼ BSP	7/8 UNF	33	78	1158	990	221	70	2 BSPF	76	36	46	9	69
37	35.2	207	749	91.00	¼ BSP	7/8 UNF	33	78	1407	1239	219	70	2 BSPF	76	36	46	9	69
37	35.2	310	749	91.00	¼ BSP	7/8 UNF	33	78	1407	1239	219	70	2 BSPF	76	36	46	9	69
37	35.2	345	749	91.00	¼ BSP	7/8 UNF	33	78	1407	1239	221	70	2 BSPF	76	36	46	9	69
37	35.2	420	749	86.00	¼ BSP	7/8 UNF	33	78	1407	1239	229	70	2 BSPF	76	36	46	9	69
54	49.2	207	749	130.00	¼ BSP	M50x 1.5	69	66	1922	1766	219	70	2 BSPF	76	36	46	9	69
54	49.2	310	749	130.00	¼ BSP	M50x 1.5	69	66	1922	1766	219	70	2 BSPF	76	36	46	9	69
54	49.2	345	749	130.00	¼ BSP	M50x 1.5	69	66	1922	1766	221	70	2 BSPF	76	36	46	9	69
54	49.2	420	749	119.00	¼ BSP	M50x 1.5	69	66	1922	1766	229	70	2 BSPF	76	36	46	9	69

Part Number	Vol. (Litres)	Max. Operating Pressure (bar)	Max. Flow Rate (lpm)	Min/Max Operating Temp. (ºC)	Weight (kg)	Height (mm)	Dimensions												
							Gas Valve Size (A) (Inch)	B	C	D	E	F	G	H	Fluid Port Connec-tion (J)	K	L	M	N	P
100SA-CZ-341	10.0	345	749	-0.188	35	575	G 1/4	7/8 UNF	33	78	575	407	221	70	2 BSPF	76	36	46	9	69
200SA-CZ-341	20	345	749	-0.188	55	886	G 1/4	7/8 UNF	33	78	886	718	221	70	2 BSPF	76	36	46	9	69
280SA-CZ-341	28.0	345	749	-0.188	61	1158	G 1/4	7/8 UNF	33	78	1158	990	221	70	2 BSPF	76	36	46	9	69
370SA-CZ-341	37.0	345	749	-0.188	91	1407	G 1/4	7/8 UNF	33	78	1407	1239	221	70	2 BSPF	76	36	46	9	69
540SA-CZ-341	54	345	749	-0.188	130	1922	G 1/4	M50x1.5	69	66	1922	1766	221	70	2 BSPF	76	36	46	9	69

(1)Temperature range can change depending on shell and elastomer material. Please see bladder materials and Type (page 67)

Above dimensions are in mm and are subject to manufacturing tolerances.



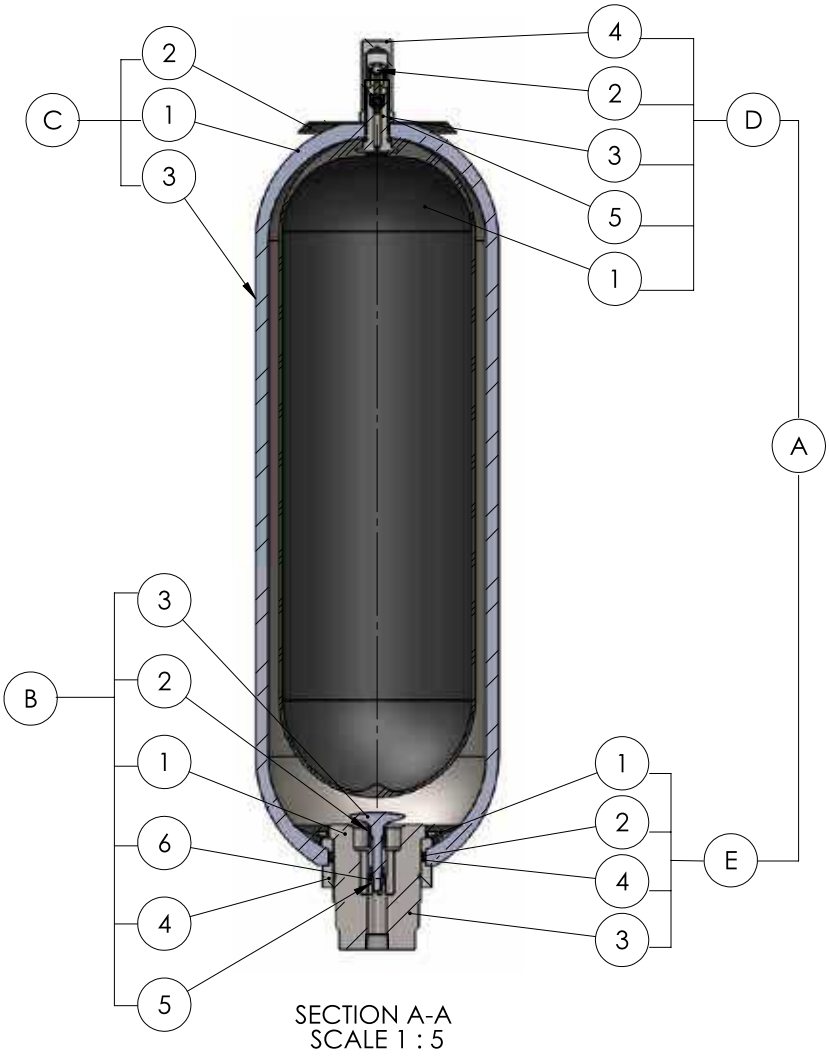


O&G Series, 480 & 517 bar

A	**Bladder Kit comprising:**
D	**Bladder assembly**
D1	Bladder
D2	Gas valve assembly
D3	Locknut
D4	Protective cap
D5	'O' ring stem
E	**Anti extrusion ring assembly**
E1	Anti extrusion ring
E2	'O' ring fluid port*
E3	Bonded seal
E4	Back-up ring

B	**Fluid port assembly comprising**
B1	Fluid port body
B2	Spring
B3	Poppet valve
B4	Collett
B5	Piston
B6	Flanged washer

C	**Shell assembly comprising:**
C1	Shell
C2	Label
C3	Label warning



SECTION A-A
SCALE 1 : 5

O&G Series 480 and 517 bar: Dimensions

Capacities and Dimensions

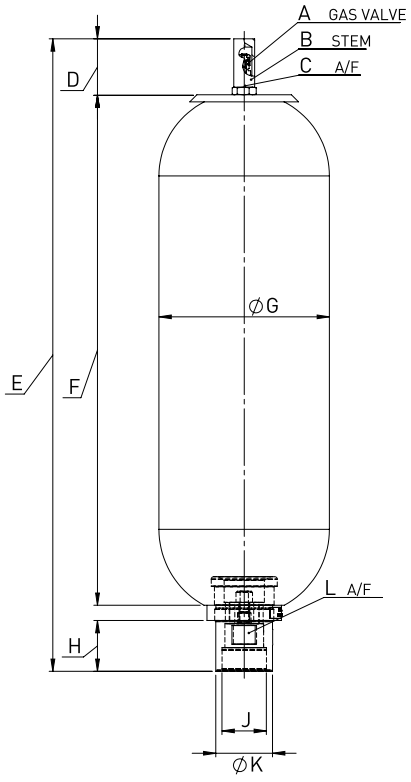
Nominal Capacity Litres	Effective Gas vol. Litres	Work press. bar	Max Flow Rate lt/min	Weight Dry Kilo	Dimensions in mm unless stated otherwise and subject to manufacturer's tolerances										
					A Inches	B Inches	C	D	E	F	G	H	J Inches	K	L
10	9.4	480	215	34	¼ BSP	7/8 UNF	33	78	575	407	229	70	see table	76	69
10	9.4	517	215	54	¼ BSP	7/8 UNF	33	78	575	407	243	70		76	69
20	18.8	480	215	54	¼ BSP	7/8 UNF	33	78	886	718	229	70		76	69
20	18.8	517	215	100	¼ BSP	7/8 UNF	33	78	886	718	243	70		76	69
37	35.2	480	215	86	¼ BSP	7/8 UNF	33	78	1407	1239	229	70		76	69
37	35.2	517	215	152	¼ BSP	7/8 UNF	33	78	1407	1239	243	70		76	69
54	49.2	480	215	119	¼ BSP	M50x 1.5P	69	66	1922	1766	229	70		76	69
57	54.5	517	215	220	¼ BSP	M50x 1.5P	69	66	1980	1824	243	70		76	69

Note: Dimensions are based on current stock and are subject to change without prior notice.

Dimension J

Code	Shell and Fluid Port
EH	Stainless Steel - 1/2” NPT female (480 bar)
GC	Stainless Steel - 1/2” BSP female (517 bar)
GJ	Stainless Steel - 1/2” BSP female (480 bar)
JB	Stainless Steel - 1/2” NPT female (517 bar)

Other available on request.



O&G Series 480 to 517 bar: How to order

1001M-EH-48

Volume in Litres

10: for 10 Litres
20: for 20 Litres
28: for 28 Litres
37: for 37 Litres (480 bar only)
54: for 54 Litres (517 bar only)

Bladder Material

0: Nitrile standard
1: Butyl
2: Low temperature nitrile
3: Low permeability nitrile
6: Viton
8: High temperature nitrile

Bladder Stem/Gas Valve

10 to 37 Litres

1M: 7/8“UNF SS Stem / 1/4“ BSP SS HP Gas Valve
3N: 7/8“UNF SS Stem / 1/2“ UNF Port (No Gas Valve/Pro Cap)

54 Litres

1M: M50 x 1.5P SS Stem / 1/4“ BSP SS HP Gas Valve
3N: M50 x 1.5P SS Stem / 1/2“ UNF Port (No Gas Valve/Pro Cap)

Shell and Fluid Port

EH: St. Steel Fluid Port - 1/2” NPT female (480 bar)
GC: St. Steel Fluid Port - 1/2” BSP female (517 bar)
GJ: St. Steel Fluid Port - 1/2” BSP female (480 bar)
JB: St. Steel Fluid Port - 1/2” NPT female (517 bar)

Maximum Working Pressure

48: 480 bar
51: 517 bar

Maximum Working Pressure

1: Lloyds/CE

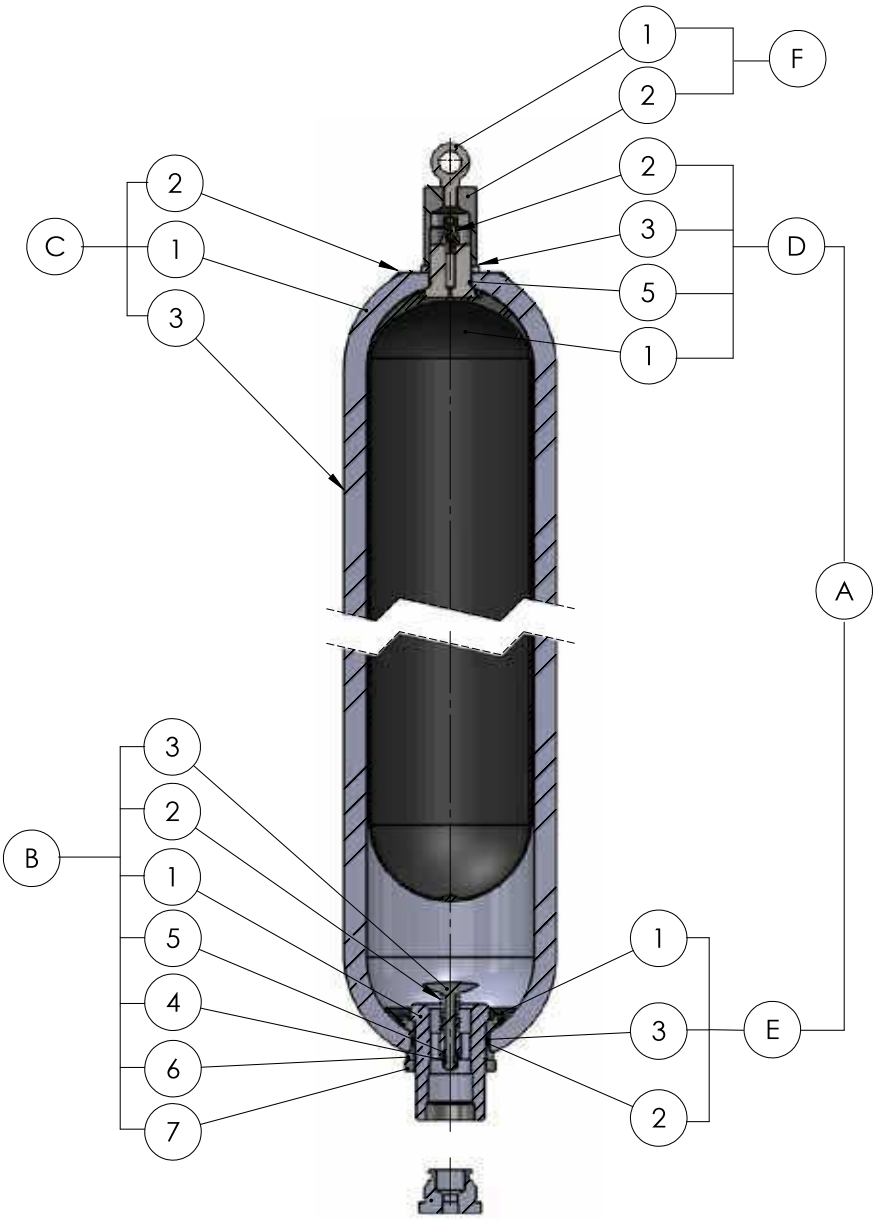
O&G Series, 690 to 760 bar

A	**Bladder Kit comprising:**
D	**Bladder assembly comprising of:-**
D1	Bladder
D2	Gas valve assembly
D3	Locknut
D4	Protective cap
D5	'O' ring stem
D6	Lifting Eye
E	**Anti extrusion ring assembly:-**
E1	Anti extrusion ring
E2	'O' ring fluid port*
E3	Back-up ring

B	**Fluid port assembly comprising:-**
B1	Fluid port body
B2	Spring
B3	Poppet valve
B4	Collett
B5	Piston
B6	Flanged washer
B7	Lock ring

C	**Shell assembly comprising:**
C1	Shell
C2	Label
C3	Label warning

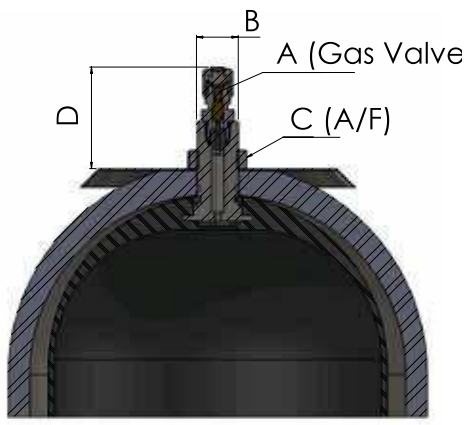
F	**Lifting Eye Assembly:-**
F1	Protective cap
F2	Lifting Eye



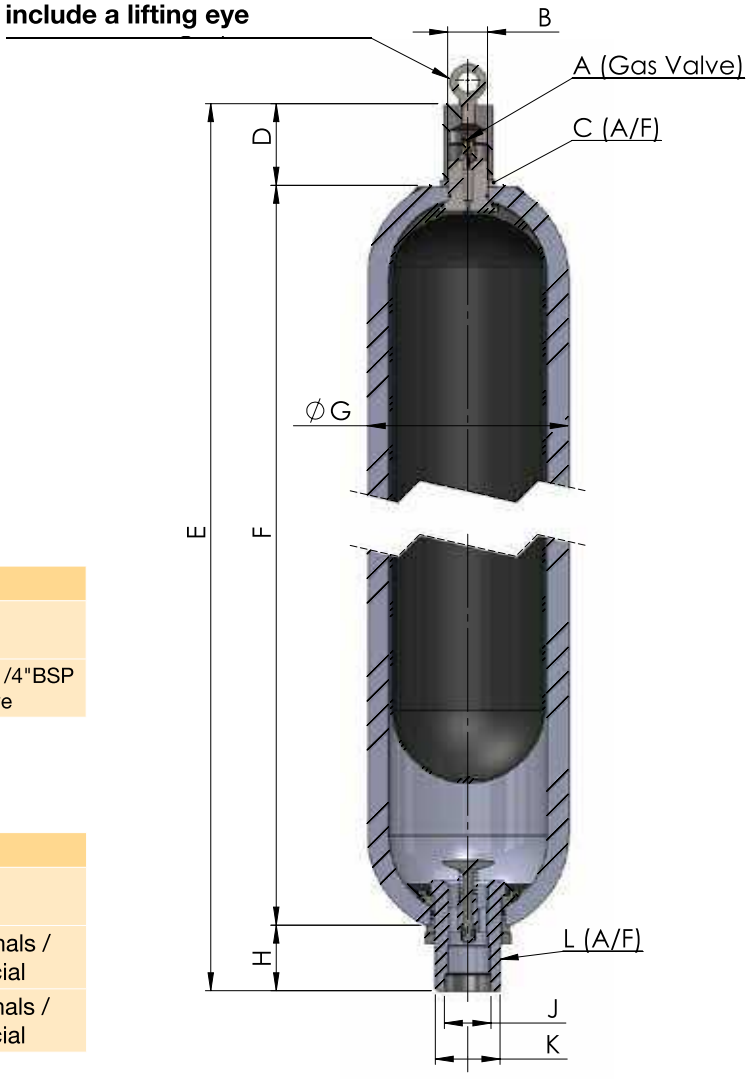
O&G Series 690 to 760 bar: Dimensions

Nominal Capacity Litres	Effective Gas vol. Litres	Work press. bar	Q Max (l/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	J	K	L
1	1.1	690	240	9	See Below	7/8"UNF	33	69	376	239	122	68	See Below	48	45
3	2.4	690	240	15		7/8" UNF	33	69	551	414	122	68		48	45
5	5	690	240	29		7/8" UNF	33	69	900	763	122	68		48	45
12	9.4	690	749	97		M50x1.5P	69	166	768	518	267	84		82	77
12	9.4	760	749	97		M50x1.5P	69	166	768	518	267	84		82	77
20	18.8	690	749	134		M50x1.5P	69	166	978	728	267	84		82	77
20	18.8	760	749	134		M50x1.5P	69	166	978	728	267	84		82	77
37	35.2	690	749	227		M50x1.5P	69	166	1500	1250	267	84		82	77
37	35.2	760	749	227		M50x1.5P	69	166	1500	1250	267	84		82	77
54	49.2	690	749	318		M50x1.5P	69	166	2015	1765	267	84		82	77
54	49.2	760	749	318		M50x1.5P	69	166	2015	1765	267	84		82	77

1 - 5 Litre



12 Litre and above accumulators include a lifting eye



Dimension A - Bladder Stem/Gas Valve

Code	1 - 5 Litre	12 - 54 Litre
2L	7/8"UNF SS Stem / 1/4"BSP SS HP Gas Valve	
5K		M50x1.5P SS Stem / 1/4"BSP SS HP Gas Valve

Dimension J - Shell and Fluid Port

Code	1 - 5 Litre	12 - 54 Litre
DP	Stainless Steel / 1"BSP Female Special	
DC		SS Externals/CS Internals / 2"BSP Female Special
DF		SS Externals/SS Internals / 2"BSP Female Special

Note: Dimensions are based on current stock and are subject to change without prior notice.

O&G Series 690 to 760 bar: How to order

0502L-DP-691

Volume in Litres

011: for 1 Litres
03: for 2.5 Litres
05: for 5 Litres
12: for 12 Litres
20: for 20 Litres
37: for 37 Litres
54: for 54 Litres

Bladder Material

0: Nitrile standard
1: Butyl
2: Low temperature nitrile
3: Low permeability nitrile
6: Viton
8: High temperature nitrile

Bladder Stem/Gas Valve

1 - 5 Litres
2L: 7/8“UNF SS Stem / 1/4“ BSP SS HP Gas Valve

12 - 54 Litres
5K: M50 x 1.5P SS Stem / 1/4“ BSP SS HP Gas Valve

Shell and Fluid Port

1 - 5 Litres
DP: St. Steel Fluid Port / 1”BSP Female Special

12 - 54 Litres
DC: SS Externals/ CS Internals/ 2” BSP Female Special
DF: SS Externals/ SS Internals/ 2” BSP Female Special
(see table on next page for fluid port adaptors)

Maximum Working Pressure+

69: 690 bar
75: 750 bar (1-5 litre only)
76: 760 bar (12-54 litre only)

Maximum Working Pressure

1: Lloyds/CE

Fluid Port Adaptors

Nominal Capacity (Litres)	Dimensions			Part Number
	J	N	P (mm)	
1 - 5 litres	1"BSP	1/4"BSP	10	52799-XXX
	1"BSP	3/8" BSP	10	55456-XXX
	1"BSP	1/2" BSP	30	54260-XXX
	1"BSP	3/4" BSP	30	52762-XXX
	1"BSP	1/4" NPT	30	55712-XXX
	1"BSP	1/2" NPT	30	51059-XXX
	1"BSP	3/4" NPT	30	52113-XXX
	1"BSP	3/8"MP Autoclave	30	56002-XXX
	1"BSP	9/6"MP Autoclave	30	52722-XXX
12 - 54 litres	2"BSP	1/4"BSP	13	55374-XXX
	2" BSP	3/8"BSP	13	55375-XXX
	2" BSP	1/2"BSP	13	55376-XXX
	2" BSP	3/4"BSP	13	55377-XXX
	2" BSP	1/4"NPT	13	55369-XXX
	2" BSP	3/8"NPT	13	55370-XXX
	2" BSP	1/2"NPT	13	55371-XXX
	2" BSP	3/4"NPT	13	55372-XXX
	2" BSP	1/4"MP Autoclave	38	54116-XXX
	2" BSP	3/8"MP Autoclave	38	55873-XXX