

EBV Series

Technical Characteristics

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

- Shell material options include alloyed steel, stainless steel, aluminium, titanium and composites.
- Various bladder materials available which are compatible with a wide range of fluids and temperatures.
- Anti-extrusion system: perforated bushing.

In standard versions : steel shell, bladder and rings in nitrile for operation with mineral oils.

Others constructions protections and bladders mixes consult pages 66 & 67

Operating temperature : e.g working temperature determination following drawing

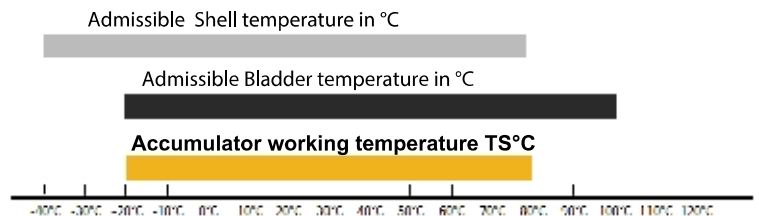
Special constructions : please consult Parker

Volume: from 0.5 to 575 Litres

Pressure: from 14 to 80 Bar

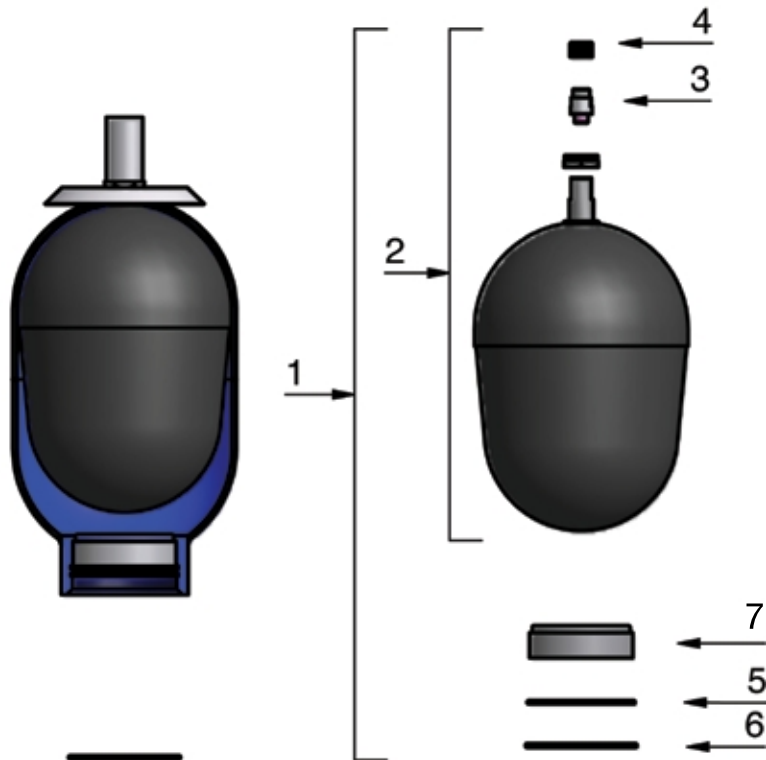
Nitrogen gas pressure : Never precharge accumulator at a pressure exceeding 20 bar at maximum working temperature with nitrogen purity > 99,8% N2

Accumulator working temperature determination example :



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

* These parts are delivered in the spare parts kit (complete repair kit)



EBV Series: How to order a low pressure accumulator

➤ **EBV 20-40 /90-A25 LA-200**
EBV 10-40 /90-A25GA-200/020

Product Type

EBV : Low pressure bladder
 ETBV : Low pressure transfer bladder

Volume in L (up to 4 Characters)

0.5 - for 0,5 Liter
20 - for 20 Liters
 100 - for 100 Liters

Maximum Working Pressure According to CE*

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 63&64)

Approvals*

00 - According to the PED2014/68/EU, article 4.3 for the volumes from 0.5 to 1L
 48 - According ASME
 71 - According CUIR 032/2013 * (Please refer to Regulations Pages 64&65)
 86 - According CE/ASME/SELO
 88 - According CE/SELO
90 - According to the PED
 94 - According CE/ASME

Material (Shell and Fluid Port)

A - All parts in carbon steel with Epoxy paint for shell only (11)
 B - Carbon Steel shell + Internal Protection Epoxy 80 µm + stainless steel fluid port and valve (20)
 C - Carbon Steel shell + Int- Ext Protection Kanigen 50 µm + stainless steel fluid port and valve (50)
 D - Carbon Steel shell + Int- Ext Protection Blue Rilsan 200-300 µm + carbon steel fluid port and valve (85)
 E - Carbon Steel shell + stainless steel fluid port and valve (22)
 F - Carbon steel shell + Internal Protection Teflon 40-50 µm (27)
 I - All parts in stainless steel for range EBV
 R - Carbon
 Z - Special

Bladder Mix

02 - For Mix 02 [-32°C;+115°C] Hydrin C
 10 - For Mix 10 [-30°C;+70°C] Nitrile Low Temperature
 20 - For Mix 20 [-6°C;+110°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
 P - Metric M 205x3
 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
 EU - All components sourced in EU
 SP - Special painting
 D1 - Standard documentation + Leak test report
 D2 - Standard documentation + Descriptive statement + Design calculation note
 D3 - xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
 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

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

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

Part numbers, Accessories, Dimensions

Type	Valve	Pre-charge	Adaptor	Flange		Clamps	Support Bracket	Lifting Eye on gas side	Complete Repair KIT
Part number	see drawing	1 - 20 bar	Threaded	Model	Model	Model (quantity) Part number	Model Part number	Model Part number	Model Part number
EBV0.5-50/00-A25KD-200* 10383101125	D	751052	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	751053	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	751054	G 1" cyl 04557000223	1½" ANSI 150 lbs 04542000123	1½" ANSI 300 lbs 04524100123	E114 (2) 20251003648	CE 89 20151903620		KIT EBV 2.5-80/90-A25GC 19044400225
EBV 5-80/90-A25KC-200 10910001125	C	751056	G 1" cyl 04557000223	1½" ANSI 150 lbs 04542000123	1½" ANSI 300 lbs 04524100123	E114 (2) 20251003648	CE 89 20151903620		KIT EBV 5-80/90-A25GC 19044500225
EBV 10-40/90-A25LA-200 10910401125	A	751057	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	751058	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	751059	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	751060	G 2" cyl 04570300223	4" ANSI 150 lbs 04500300123	4" ANSI 300 lbs 04520800123	D215 (2) 20251403648	CE 159A 20109003620	10912700200	KIT EBV 50-40/90-A25LA 19054700225
EBV 100-40/90-A20PA-200 10918001120	A	751061		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 10918101120	A	751062		8" ANSI 150 lbs 04500800123	8" ANSI 300 lbs 04500900123	D368 (2) 20127403625	CE 300 20150800100		KIT EBV 200-40/90-A20PA 19044700220

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.

* From 07/2016 PED 97/23/EC Article 3.3 becomes PED 2014/68/EU Article 4.3

** From 07/2016 PED 97/23/EC becomes PED 2014/68/EU

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
EBV0.5-50/00-A25KD-200*	0.5	50	450	- 20/100	3	5/8" 18 UNF	245	52	28	90	16	68	-	G2"
EBV 1-80/00-A25KGC-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-A20PA-200	90	40	3000	- 6/110	124	5/8" 18 UNF	1318	158	93	371	80	224	-	M205x3
EBV 200-40/90-A20PA-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 67)

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

