











High Pressure Bladder Accumulators - EHV Series

330 bar to 690 bar

Parker

ENGINEERING YOUR SUCCESS.

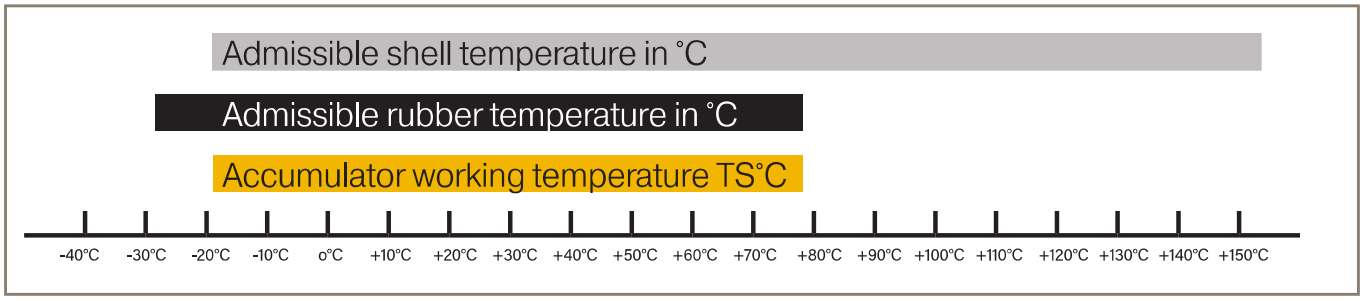
Technical Specifications

The accumulator comprises a forged or welded steel shell, a rubber bladder and anti-extrusion system.
The standard range, as presented in this catalogue, features*:

Volume:	0.2 to 57 Liters
Pressure:	330 to 690 bar
Shell Material:	Shell carbon steel with primar coating , fluid port and stem valve cabrbon steel zinc plated. Optional other materials
Bladder Materials:	Various bladder materials available which are compatible with a wide range of fluids and temperatures.
Fluid Port:	including anti-extrusion system
Approvals:	PED 2014/68/EU, ATEX, ASME VIII div 1, SELO, CUTR, DNV, BUREAU VERITAS MARINE, ABS, DNV GL.
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 system.
*For more options please see the configurator on parker.com or consult your Parker representative.

ACCUMULATOR WORKING TEMPERATURE DETERMINATION EXAMPLE :





VALVE TYPE C: NEW STANDARD FOR EHV BLADDER ACCUMULATORS*

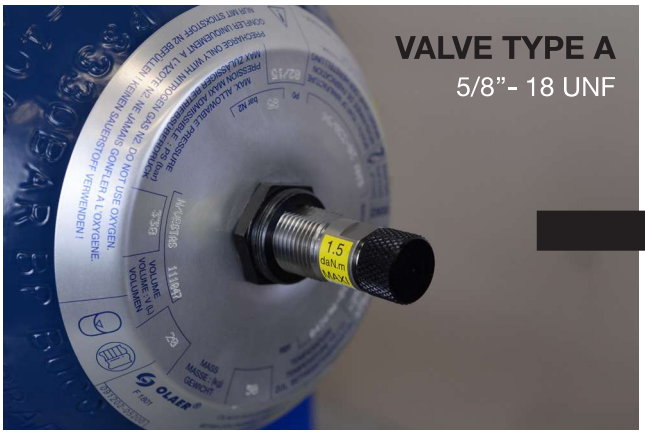
SAFETY

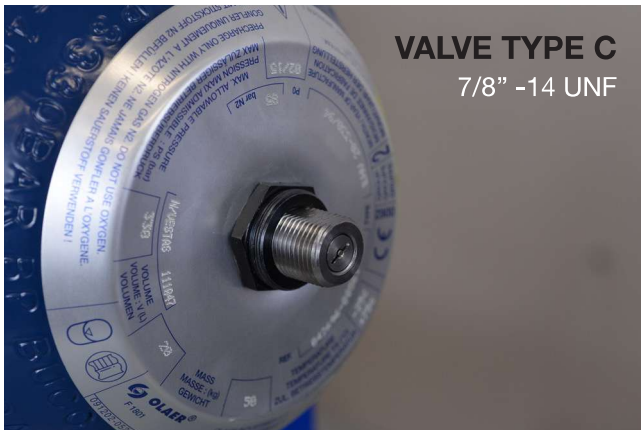
SPACE SAVING

NO WEAKNESS

The new standard features an internal valve, thus

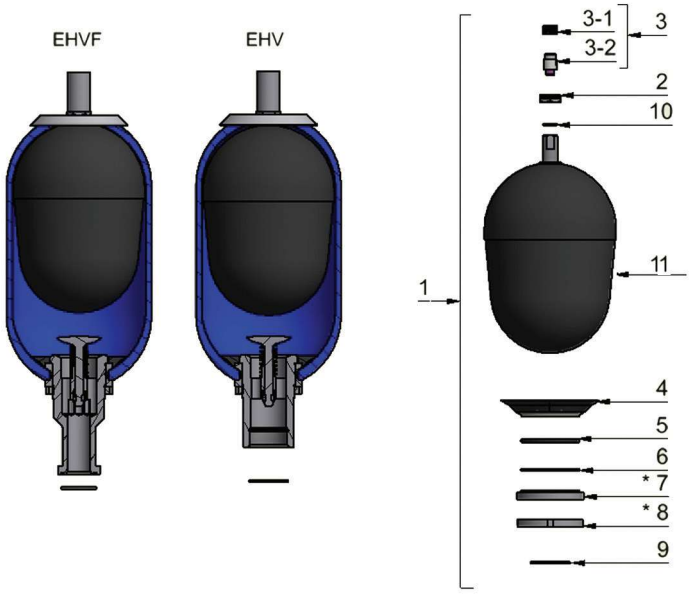
- no radial stress applied to valve
- no risk of disconnecting the gas valve when unscrewing the charging kit
- same length with protective cap; shorter valve means more space for charging kit connection
- avoiding fracture in case of shock
- charging adapter included in standard charging kit
- single adapter for controlling and refilling gas - fits the complete EHV and range





***All EHV (1L - 57L) bladder accumulators will be supplied with valve type C from now on.**

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

* Not includded in the bladder kit



Accumulator Regulations and Protections

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, AS 1210, ASME, SELO, CRN, ARH, CUTR, ...)

please refer to this document for further information

MSG01-6975

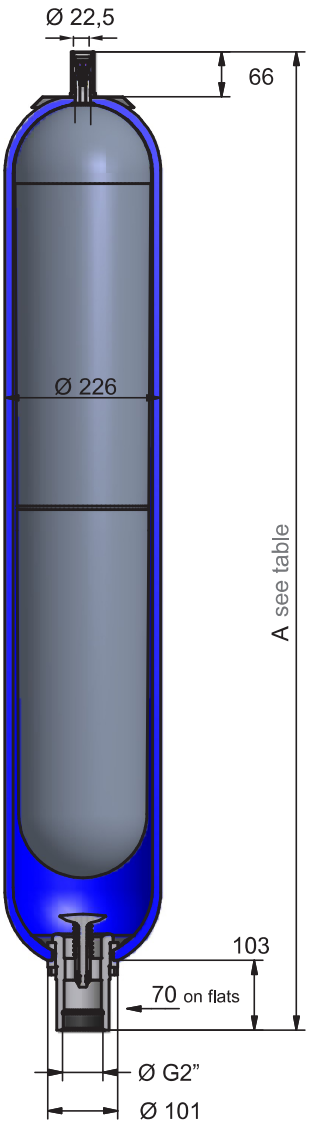


EHV series 330 bar, 10 to 50 Liters

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

Max. working pressure: 330 bar	Temperature Range: -20°C to 80°C[1]
Max. flow rate: 900 l/min[4]	Gas Connection: 7/8“ 14 UNF

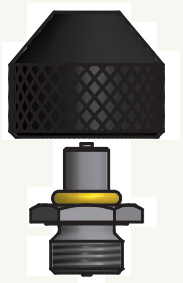
Type Part number	Valve type, (see drawing)	Effective Gas vol. Liters	Weight kg	A max. Height*
EHV 10-330/90-A25GC-200 10837001125	C	9.2	31	587
EHV 10-330/90-A25GB-200 10865401125	B			
EHV 12-330/90-A25GC-200 10867101125	C	11.0	36	687
EHV 12-330/90-A25GB-200 10867401125	B			
EHV 20-330/90-A25GC-200 10837101125	C	17.8	49	897
EHV 20-330/90-A25GB-200 10865501125	B			
EHV 24,5-330/90-A25GC-200 10837201125	C	22.5	56	1032
EHV 24,5-330/90-A25GB-200 10865601125	B			
EHV 32-330/90-A25GC-200 10837301125	C	32	81	1420
EHV 32-330/90-A25GB-200 10865701125	B			
EHV 50-330/90-A25GC-200 11076701125	C	48.5	110	1936
EHV 50-330/90-A25GB-200 11076801125	B			



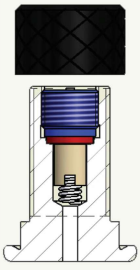
* All dimensions in mm and are subject to manufacturing tolerances
[1] Temperature range can change depending on shell and elastomer material.
Please see bladder materials and Type (page 35)
[2] For other fluids: consult Parker | 3 For Fluid group 1 consideration: consult Parker
[4] Port & fitting size will become limiting factors for flow rate in most applications.

Model of valve stem

B-type
7/8” 14 UNF



C-type
7/8”14 UNF
(integrated)



EHV series 330 bar, 10 to 50 Liters / Spare Parts & Accessories

Type Part Number	Adaptor* Threaded Part number	Clamps Model (quantity) Part number	Support Bracket Model Part number	Mounting Frame Model Part number	Lifting Eye Part number	Complete Repair Kit Model Part Number
EHV 10-330/90-A25GC-200 10837001125	G 1" cyl 04557000223	D226 2 20251503648	CE159A 20109003620	EF2 20217600125	10912700200	KIT EHV 10-330 DIA22 VALVE C 19028900225
EHV 10-330/90-A25GB-200 10865401125						KIT EHV 10-330 DIA22 VALVE B 19035800225
EHV 12-330/90-A25GC-200 10867101125	G 1" cyl 04557000223	D226 2 20251503648	CE159A 20109003620	EF2 20217600125	10912700200	KIT EHV 12-330 DIA22 VALVE C 19032100225
EHV 12-330/90-A25GB-200 10867401125						KIT EHV 12-330 DIA22 VALVE B 19035900225
EHV 20-330/90-A25GC-200 10837101125	G 1" cyl 04557000223	D226 2 20251503648	CE159A 20109003620	EF2 20217600125	10912700200	KIT EHV 20-330 DIA22 VALVE C 19029000225
EHV 20-330/90-A25GB-200 10865501125						KIT EHV 20-330 DIA22 VALVE B 19036000225
EHV 24,5-330/90-A25GC-200 10837201125	G 1" cyl 04557000223	D226 2 20251503648	CE159A 20109003620	EF2 20217600125	10912700200	KIT EHV 24.5-330 DIA22 VALVE C 19029400225
EHV 24,5-330/90-A25GB-200 10865601125						KIT EHV 24.5-330 DIA22 VALVE B 19036300225
EHV 32-330/90-A25GC-200 10837301125	G 1" cyl 04557000223	D226 2 20251503648	CE159A 20109003620	EF3 20217700125	10912700200	KIT EHV 32-330 DIA22 VALVE C 19029100225
EHV 32-330/90-A25GB-200 10865701125						KIT EHV 32-330 DIA22 VALVE B 19036100225
EHV 50-330/90-A25GC-200 11076701125	G 1" cyl 04557000223	D226 2 20251503648	CE159A 20109003620	EF3 20217700125	10912700200	KIT EHV 50-330 DIA22 VALVE C 19054100225
EHV 50-330/90-A25GB-200 11076801125						KIT EHV 50-330 DIA22 VALVE B 19054200225

*For more adaptor options see page 32

EHV series 350 bar, 0.2 to 10 Liters

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

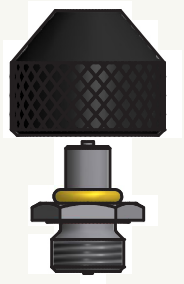
Max. working pressure: 350 bar	Temperature Range: -20°C to 80°C Gas Connection: 7/8“ 14 UNF

Type Part number	Valve type (see drawing)	Effective Gas vol. Liters	Max Flow Rate l/min[4]	Weight kg
EHV 0.2-350/00-A20AD-200*[5] 10876301120	D	0.17	120	2,5
EHV 0.5-350/00-A25BD-200* 10876401125	D	0.6	240	3
EHV 1-350/00-A25BC-200* 10845601125	C	1	240	6
EHV 1-350/00-A25BB-200* 10866901125	B			
EHV 1.6-350/90-A25BC-200 10998301125	C	1.6	240	8
EHV 1.6-350/90-A25BB-200 11123501125	B			
EHV 2.5-350/90-A25DC-200 10854701125	C	2	450	11
EHV 2.5-350/90-A25DB-200 10866601125	B			
EHV 4-350/90-A25DC-200 10845401125	C	3.7	450	15
EHV 4-350/90-A25DB-200 10866101125	B			
EHV 5-350/90-A25DC-200 10861201125	C	5	450	17
EHV 5-350/90-A25DB-200 10866701125	B			
EHV 6-350/90-A25DC-200 10857401125	C	6.0	450	20
EHV 6-350/90-A25DB-200 10866201125	B			
EHV 10-350/90-A25DC-200 10859701125	C	10	450	31
EHV 10-350/90-A25DB-200 10866301125	B			

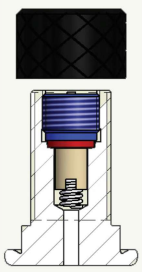
* According to Article 4.3 PED 2014/68/EU
[1] Temperature range can change depending on shell and elastomer material. Please see bladder materials and Type (page 35)
[2] For other fluids: consult Parker | [3] For Fluid group 1 consideration: consult Parker
[4] Port & fitting size will become limiting factors for flow rate in most applications.
[5] Gas connection: 5/8” 18 UNF, temperature range: -6°C to 80°C

Model of valve stem

B-type
7/8” 14 UNF

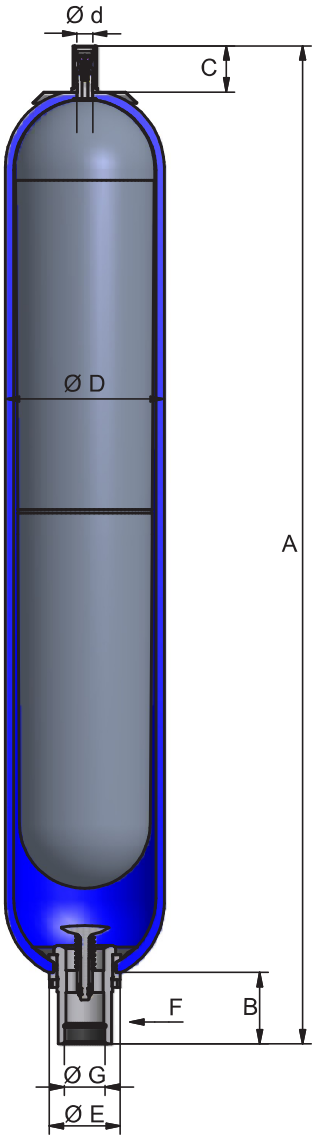


C-type
7/8”14 UNF
(integrated)



D-type
5/8” 18 UNF
(integrated)





Type	Dimensions in mm							
	A max Height	B	C	øD	ød	øE	F on flats	G connection
EHV 0.2	268	38	27	58	16	39	24	G ½“
EHV 0.5	260	54	27	91	16	50	32	G ¾”
EHV 1	330	54	66	116	22.5	50	32	G ¾”
EHV 1.6	442	54	66	116	22.5	50	32	G ¾”
EHV 2.5	549	66	66	116	22.5	68	50	G 1 ¼”
EHV 4	434	65	66	170	22.5	68	50	G 1 ¼”
EHV 5	898	66	66	116	22.5	68	50	G 1 ¼”
EHV 6	560	65	66	170	22.5	68	50	G 1 ¼”
EHV 10	825	65	66	170	22.5	68	50	G 1 ¼”

EHV series 350 bar, 0.2 to 10 Liters / Spare Parts & Accessories

Type	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*	G 1/4" cyl 04556500223	A56 1 20149203625				KIT EHV 0.2-350 D16 VALVE D 19001000220
EHV 0.5-350/00-A25BD-200*	G 3/8" cyl 04556400223	E95 1 20250803648				KIT EHV 0.5-350 D16 VALVE D 19001100225
EHV 1-350/00-A25BC-200*	G 3/8" cyl 04556400223	E114 1 20251003648	CE 89 20151903620			KIT EHV 1-350 DIA22 VALVE C 19029700225
EHV 1-350/00-A25BB-200*						KIT EHV 1-350 DIA22 VALVE B 19036400225
EHV 1.6-350/90-A25BC-200	G 3/8" cyl 04556400223	E114 1 20251003648	CE 89 20151903620			KIT EHV 1.6-350 DIA22 VALVE C 19060700225
EHV 1.6-350/90-A25BB-200						KIT EHV 1.6-350 DIA22 VALVE B 19061000225
EHV 2.5-350/90-A25DC-200	G 3/4" cyl 04555200223	E114 2 20251003648	CE 89 20151903620		10912700200	KIT EHV 2.5-350 DIA22 VALVE C 19029800225
EHV 2.5-350/90-A25DB-200						KIT EHV 2.5-350 DIA22 VALVE B 19036500225
EHV 4-350/90-A25DC-200	G 3/4" cyl 04555200223	E168 1 20251303648	CE108 20118703620	EF1 20217500125	10912700200	KIT EHV 4-350 DIA22 VALVE C 19029900225
EHV 4-350/90-A25DB-200						KIT EHV 4-350 DIA22 VALVE B 19036600225
EHV 5-350/90-A25DC-200	G 3/4" cyl 04555200223	E114 2 20251003648	CE 89 20151903620		10912700200	KIT EHV 5-350 DIA22 VALVE C 19030000225
EHV 5-350/90-A25DB-200						KIT EHV 5-350 DIA22 VALVE B 19036700225
EHV 6-350/90-A25DC-200	G 3/4" cyl 04555200223	E168 2 20251303648	CE108 20118703620	EF1 20217500125	10912700200	KIT EHV 6-350 DIA22 VALVE C 19030100225
EHV 6-350/90-A25DB-200						KIT EHV 6-350 DIA22 VALVE B 19036800225
EHV 10-350/90-A25DC-200	G 3/4" cyl 04555200223	E168 2 20251303648	CE108 20118703620	EF1 20217500125	10912700200	KIT EHV 10-350 DIA22 VALVE C 19030200225
EHV 10-350/90-A25DB-200						KIT EHV 10-350 DIA22 VALVE B 19036900225

** for more adaptors option see page 32