# High Pressure
# Bladder Accumulators - EHV Series

330 bar to 690 bar

ENGINEERING YOUR SUCCESS.

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# Cylinder and Accumulator Division Europe

Made in Europe - serving all markets and industries

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## Our product range - click for more detail:

Bladder Accumulators

Piston Accumulators

Membrane Accumulators

Pulsation Dampers

Gas Bottles

Accessories

Air-Oil Coolers

Water-Oil Cooler

QPM Pump

Tierod Cylinders

Mill-type Cylinders

Helical Actuators

Service Center

Service and Support

Cross Reference Tool

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**If you are using an electronic version of this catalogue this icon will take you back to this HOW TO ORDER page upon clicking.**

**If you are using an electronic version of this catalogue this icon will take you to the EHV CONFIGURATOR on parker.com.**



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Division Europe

## Parker – committed to your success

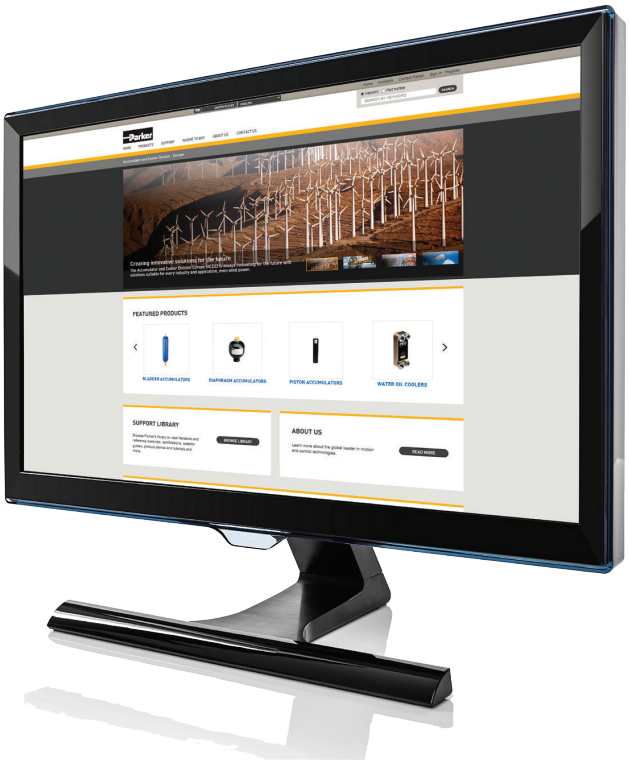
Parker Hannifin is the global leader in motion and control technologies. We employ more than 58,000 people in 48 countries, providing our customers with technical excellence and first class customer service. Parker is the world's largest supplier of hydraulic cylinders for industrial applications.

When you partner with Parker, you gain access to a vast range of resources designed to increase your productivity and profitability.

### Online Support

You can find the latest product information on the Parker website. Designed to be accessible via desktops, tablets and smart phones you can download software, brochures, manuals and 3D models.
All of the latest product news and contact information is also included on the website.

**www.parker.com/acde**




### ⚠ WARNING – USER RESPONSIBILITY

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from Parker-Hannifin Corporation, its subsidiaries and authorized distributors provide product or system options for further investigation by users having technical expertise.

The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.

To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the components or systems.

### Offer of Sale

Please contact your Parker representation for a detailed 'Offer of Sale'.



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## Introduction: High Pressure Bladder Accumulators

Designed for high pressure hydraulic systems the EHV bladder accumulator is available in carbon & stainless steel.

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.

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.

## Target Markets

Industrial - Defense - Renewable Energy - Marine - Mining - Off-Road - Oil & Gas - Processing - Rail

## Applications

Hydraulic Power Units - Ship Cranes - Wind Turbines - Plastic Presses - Tooling Machines - Construction / Offroad Machinery - Machine Tools

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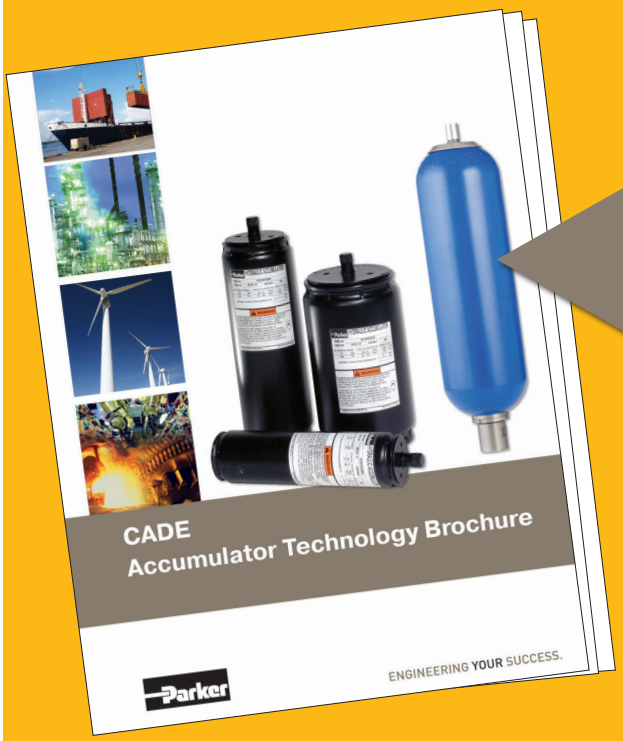
## Features/Benefits

- **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 DNV 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.**
- **Parker Olaer offer a wide range of accessories for bladder accumulator utilization (e.g. burst disk, pressure gauge adaptor, etc… ) Please, consult PARKER**




See the CADE
Accumulator Technology Brochure

Parker Accumulator Technology has many years of experience in the research & development, design and production of hydraulic accumulators. Bladder, piston and membrane accumulators, plus accessories from Parker form an highly competitive range. Our products support hydraulic systems in almost all sectors.

Using accumulators improves the performance of the whole system, on the one hand, this means greater
safety and comfort for operator and machine. On the other hand, Parker accumulators enable efficient working in all applications.

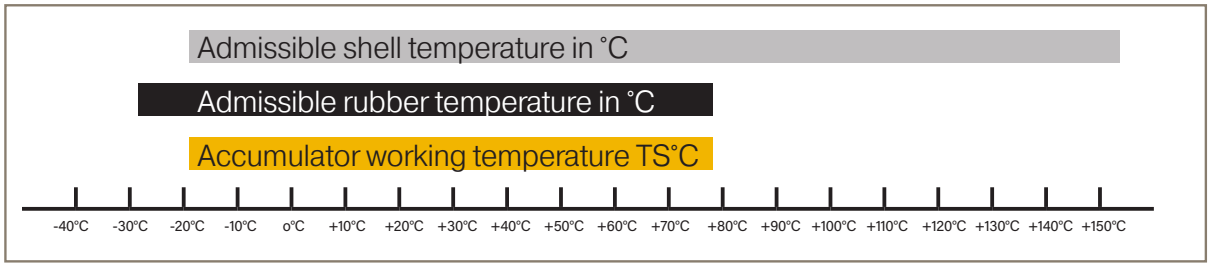
## Technical Specifications

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*

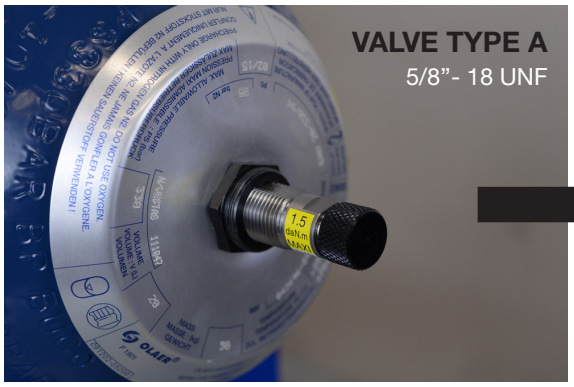
SAFETY

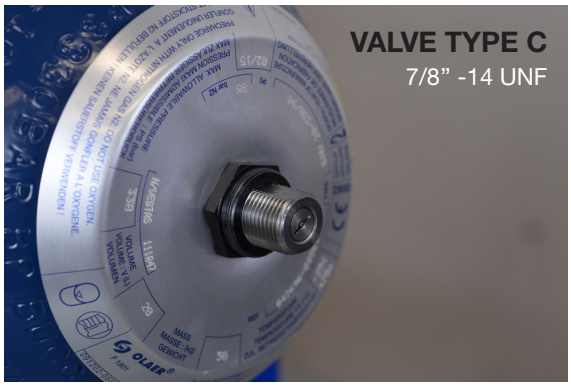
SPACE SAVING

NO WEAKNESS

**The new standard features an internal valve, thus**

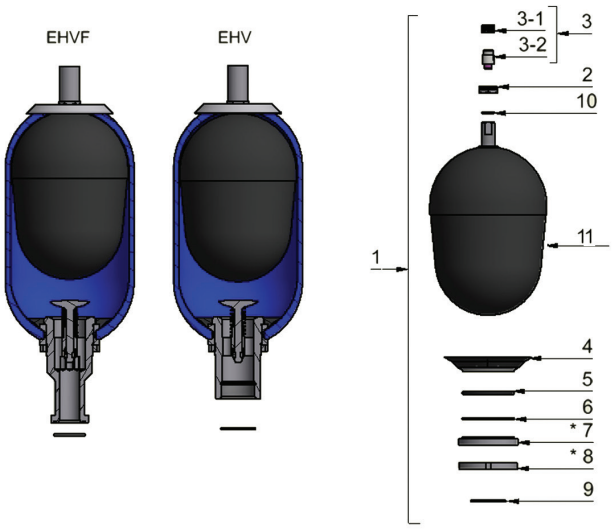
- no radial stress applied to valve
- no risk of disconnecting the gas valve when unscrewing the charging kit
- same length with protective cap; shorter valve means more space for charging kit connection
- avoiding fracture in case of shock
- charging adapter included in standard charging kit
- single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

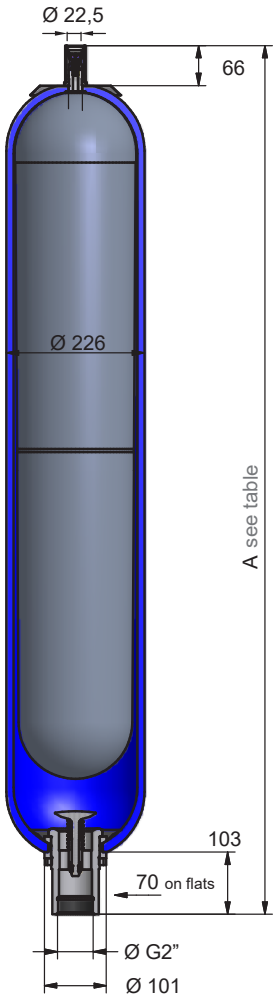
**MSG01-6975**

# 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 |

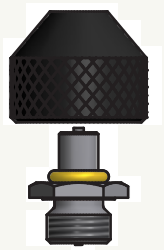
| Type<br>Part number | Valve type,<br>(see drawing) | Effective<br>Gas vol.<br>Liters | Weight<br>kg | A<br>max. Height* |
|---|---|---|---|---|
| EHV 10-330/90-A25GC-200<br>10837001125 | C | 9.2 | 31 | 587 |
| EHV 10-330/90-A25GB-200<br>10865401125 | B | | | |
| EHV 12-330/90-A25GC-200<br>10867101125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



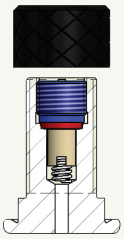

* All dimensions in mm and are subject to manufacturing tolerances
[1] Temperature range can change depending on shell and elastomer material.
Please see bladder materials and Type (page 35)
[2] For other fluids: consult Parker | 3 For Fluid group 1 consideration: consult Parker
[4] Port & fitting size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





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

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

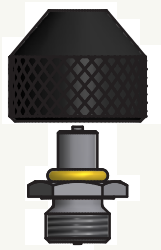
| | |
|---|---|
| Max. working pressure: 350 bar | Temperature Range: -20°C to 80°C<br>Gas Connection: 7/8“ 14 UNF |

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

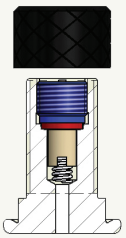
* According to Article 4.3 PED 2014/68/EU
[1] Temperature range can change depending on shell and elastomer material.
Please see bladder materials and Type (page 35)
[2] For other fluids: consult Parker | [3] For Fluid group 1 consideration: consult Parker
[4] Port & fitting size will become limiting 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**

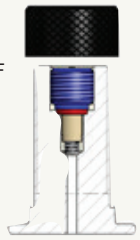
B-type
7/8” 14 UNF



C-type
7/8”14 UNF
(integrated)



D-type
5/8” 18 UNF
(integrated)





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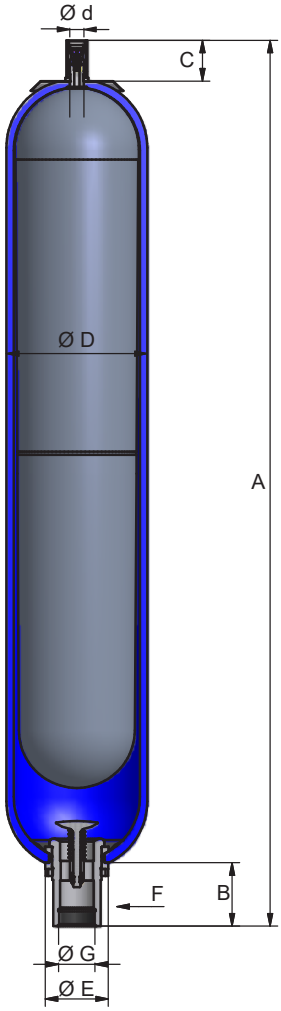



| Type | Dimensions in mm | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | A max Height | B | C | øD | ød | øE | F on flats | G connection |
| EHV 0.2 | 268 | 38 | 27 | 58 | 16 | 39 | 24 | G ½“ |
| EHV 0.5 | 260 | 54 | 27 | 91 | 16 | 50 | 32 | G ¾” |
| EHV 1 | 330 | 54 | 66 | 116 | 22.5 | 50 | 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

NEW

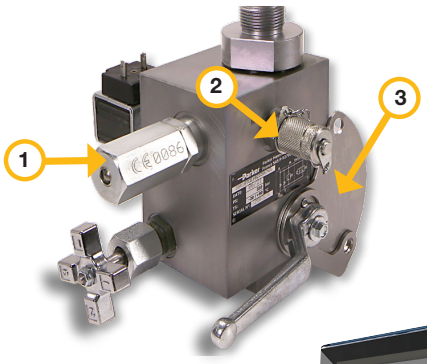
# Safety Block SB Series

The new SB safety block for accumulator is engineered for industrial applications, protecting accumulators against pressure peaks according to PED 2014/68/EU including CE marked pressure relief valve.

- *Setted and sealed safety valve to protect against presssure peak*
- *Zinc plated for optimum corrosion resistance, conforms to* ISO 9227
- *Manual drain control or electrical drain control option*
- *Approved process for the settings of pressure relief valve*

## KEY FEATURES

- ✓ **Easy Designing**
- ✓ **Easy Engineering**
- ✓ **Easy Selection**
- ✓ **Easy Installation**
- ✓ **Easy Usage**
- ✓ **Easy Maintenance**




### Unique Parker Features

1. Pressure Relief Valve
2. Pressure Test Point
3. Hex Head Screw

**Parker Cross Reference**

CLICK FOR COMPETITOR INTERCHANGE LOOKUP

See Parker's cross reference tool on **parker.com** to find a SB replacement for all previous safety block series or competitor interchange.

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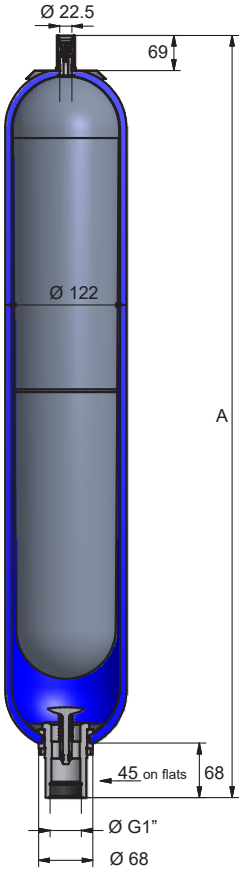
# EHV series 690 bar, 1 to 5 Liters

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

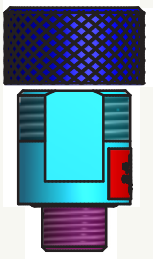
| | |
|---|---|
| Max. working pressure: 690 bar | Temperature Range: -20°C to 80°C[1] |
| Max. flow rate: 360 l/min[4] | Gas Connection: 7/8“ 14 UNF |

| Type | Gas Valve (see drawing) | Effective Gas vol. Liters | Weight kg | Dimensions in mm A (max Height) |
|---|---|---|---|---|
| EHV 1-690/00-A25CE-200* | E | 1.1 | 9 | 376 |
| EHV 2.5-690/90-A25CE-200 | E | 2.4 | 15 | 551 |
| EHV 5-690/90-A25CE-200 | E | 5 | 29 | 900 |




**Model of valve stem**

E-type
7/8” 14 UNF



# EHV series 690 bar, 1 to 5 Liters / Spare Parts & Accessories

| Type<br>Part number | Adaptor** / Threaded<br>Part number | Clamps / Model (quantity)<br>Part number | Support Bracket / Model<br>Part number | Lifting Eye on gas side / Model<br>Part number | Complete Repair Kit / Model<br>Part number |
|---|---|---|---|---|---|
| EHV 1-690/00-A25CE-200*<br>10910101125 | 04579500223 | 20251003648 | 20151903620 | 10912700200 | KIT EHV 1-690 Dia22 Valve E<br>19043500225 |
| EHV .5-690/90-A25CE-200<br>10910201125 | 04579500223 | 20251003648 | 20151903620 | 10912700200 | KIT EHV 2,5-690 Dia22 Valve E<br>19043600225 |
| EHV 5-690/90-A25CE-200<br>10910301125 | 04579500223 | 20251003648 | 20151903620 | 10912700200 | KIT EHV 5-690 Dia22 Valve E<br>19043700225 |

[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 | For pre-charge over 300 bar please consult Parker
*according to article 4.3 PED 2014/68/EU | **For more adaptor options see page 32
Above dimensions are in mm and are subject to manufacturing tolerances.

# EHV series 690 bar, 12 to 54 Liters

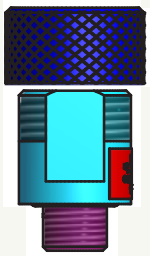
Standard version (Carbon Steel shell/NBR mix) compatible with mineral oils [2].
According to PED 2014/68/EU, EN 14359, Fluid Group 2 [3].

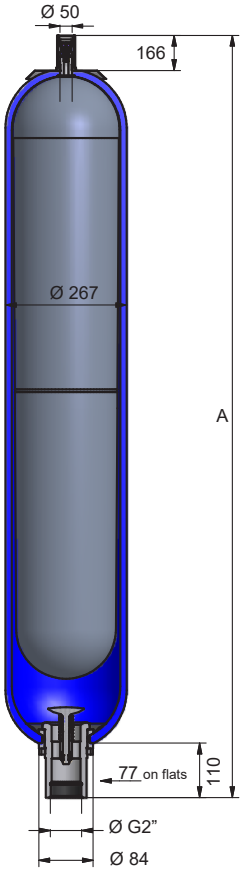
| | |
|---|---|
| Max. working pressure: 690 bar | Temperature Range: -20°C to 80°C[1] |
| Max. flow rate: 300 l/min[4] | Gas Connection: 7/8“ 14 UNF |

| Type | Gas Valve (see drawing) | Effective Gas vol. Liters | Weight kg | Dimensions in mm A (max Height) |
|---|---|---|---|---|
| EHV 12-690/90-A25GE-200 | E | 11 | 97 | 682 |
| EHV 20-690/90-A25GE-200 | E | 16.5 | 134 | 892 |
| EHV 37-690/90-A25GE-200 | E | 33.4 | 227 | 1417 |
| EHV 54-690/90-A25GE-200 | E | 48 | 318 | 1932 |

**Model of valve stem**

E-type
7/8” 14 UNF






# EHV series 690 bar, 12 to 54 Liters / Spare Parts & Accessories

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

[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 | For pre-charge over 300 bar please consult Parker
Above dimensions are in mm and are subject to manufacturing tolerances.



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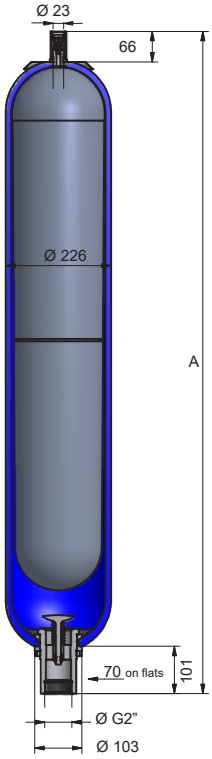
# EHV series 330 bar, 10 to 50 Liters - MARINE

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

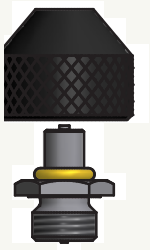
| | |
|---|---|
| Max. working pressure: 330 bar | Temperature Range: -20°C to 80°C |
| Max. flow rate: 900 l/min | Gas Connection: 7/8“ 14 UNF |

| Type | Valve model (see drawing) | /24 : PED & DNV GL | /11 : PED & BV MARINE | /41 : PED & ABS | Effective Gas vol. Liters | Weight kg | Dimensions in mm / A max Height |
|---|---|---|---|---|---|---|---|
| EHV 10 | B | EHV 10-330/24-A25GB-200 11168801125 | EHV 10-330/11-A25GB-200 10999501125 | EHV 10-330/41-A25GB-200 11165501125 | 9.2 | 31 | 587 |
| EHV 20 | B | EHV 20-330/24-A25GB-200 11169001125 | EHV 20-330/11-A25GB-200 10999701125 | EHV 20-330/41-A25GB-200 11166601125 | 17.8 | 49 | 897 |
| EHV 24.5 | B | EHV 24,5-330/24-A25GB-200 11169101125 | EHV 24,5-330/11-A25GB-200 10999801125 | EHV 24,5-330/41-A25GB-200 11166701125 | 22.5 | 56 | 1032 |
| EHV 32 | B | EHV 32-330/24-A25GB-200 11169201125 | EHV 32-330/11-A25GB-200 10999901125 | EHV 32-330/41-A25GB-200 11166801125 | 32 | 81 | 1420 |
| EHV 50 | B | EHV 50-330/24-A25GB-200 11169401125 | EHV 50-330/11-A25GB-200 11127901125 | EHV 50-330/41-A25GB-200 11167001125 | 49 | 110 | 1936 |




**Model of valve stem**

B-type
7/8” 14 UNF



[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 |
For pre-charge over 300 bar please consult Parker
Above dimensions are in mm and are subject to manufacturing tolerances.



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# EHV series 330 bar, 10 to 50 Liters - MARINE / 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 10 | G 1" cyl<br>04557000223 | D226 2<br>20251503648 | CE159A<br>20109003620 | EF2<br>20217600125 | 10912700200 | KIT EHV 10-330<br>DIA22 VALVE B<br>19035800225 |
| EHV 20 | G 1" cyl<br>04557000223 | D226 2<br>20251503648 | CE159A<br>20109003620 | EF2<br>20217600125 | 10912700200 | KIT EHV 20-330<br>DIA22 VALVE B<br>19036000225 |
| EHV 24.5 | G 1" cyl<br>04557000223 | D226 2<br>20251503648 | CE159A<br>20109003620 | EF2<br>20217600125 | 10912700200 | KIT EHV 24.5-330<br>DIA22 VALVE B<br>19036300225 |
| EHV 32 | G 1" cyl<br>04557000223 | D226 2<br>20251503648 | CE159A<br>20109003620 | EF3<br>20217700125 | 10912700200 | KIT EHV 32-330<br>DIA22 VALVE B<br>19036100225 |
| EHV 50 | G 1" cyl<br>04557000223 | D226 2<br>20251503648 | CE159A<br>20109003620 | EF3<br>20217700125 | 10912700200 | KIT EHV 50-330<br>DIA22 VALVE B<br>19054200225 |

* For more adaptor options see page 32

# EHV series 350 bar, 0.5 to 10 Liters - MARINE

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

Max. working pressure: 350 bar
Max. flow rate: 240 - 450 l/min

Temperature Range: -20°C to 80°C
Gas Connection: 7/8“ 14 UNF[3]

| Type | /24 : PED&DNV GL<br>/43 : PED Article 4.3& DNV GL | /11 : PED&BV MARINE<br>/13 : PED Article 4.3& BV MARINE | /41 : PED&ABS<br>/23 : PED Article 4.3&ABS | Valve model<br>see drawing | Effective Gas vol. Liters | Max Flow Rate l/min | Weight (kg ) |
|---|---|---|---|---|---|---|---|
| EHV 0.5* | EHV<br>0,5-350/43-A25BD-200<br>11151101125 | | EHV<br>0,5-350/23-A25BD-200<br>11151001125 | D | 0.6 | 240 | 3 |
| EHV 1* | EHV<br>1-350/43-A25BB-200<br>11168101125 | EHV<br>1-350/13-A25BB-200<br>11149501125 | EHV<br>1-350/23-A25BB-200<br>11165801125 | B | 1 | 240 | 6 |
| EHV 1.6 | EHV<br>1,6-350/24-A25BB-200<br>11168201125 | EHV<br>1,6-350/11-A25BB-200<br>11163301125 | EHV<br>1,6-350/41-A25BB-200<br>11165901125 | B | 1.6 | 240 | 8 |
| EHV 2.5 | EHV<br>2,5-350/24-A25DB-200<br>11168301125 | EHV<br>2,5-350/11-A25DB-200<br>11163401125 | EHV<br>2,5-350/41-A25DB-200<br>11166001125 | B | 2.4 | 450 | 11 |
| EHV 4 | EHV<br>4-350/24-A25DB-200<br>11168501125 | EHV<br>4-350/11-A25DB-200<br>10998101125 | EHV<br>4-350/41-A25DB-200<br>11166201125 | B | 3.7 | 450 | 15 |
| EHV 5 | EHV<br>5-350/24-A25DB-200<br>11168401125 | EHV<br>5-350/11-A25DB-200<br>11163501125 | EHV<br>5-350/41-A25DB-200<br>11166101125 | B | 5 | 450 | 17 |
| EHV 6 | EHV<br>6-350/24-A25DB-200<br>11168601125 | EHV<br>6-350/11-A25DB-200<br>11163601125 | EHV<br>6-350/41-A25DB-200<br>11166301125 | B | 6 | 450 | 20 |
| EHV 10 | EHV<br>10-350/24-A25DB-200<br>11168701125 | EHV<br>10-350/11-A25DB-200<br>11163701125 | EHV<br>10-350/41-A25DB-200<br>11166401125 | B | 10 | 450 | 31 |

[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] 5/8” 18 UNF Gas Connection for EHV 0,5
* According to Article 4.3 PED 2014/68/EU
Above dimensions are in mm and are subject to manufacturing tolerances.



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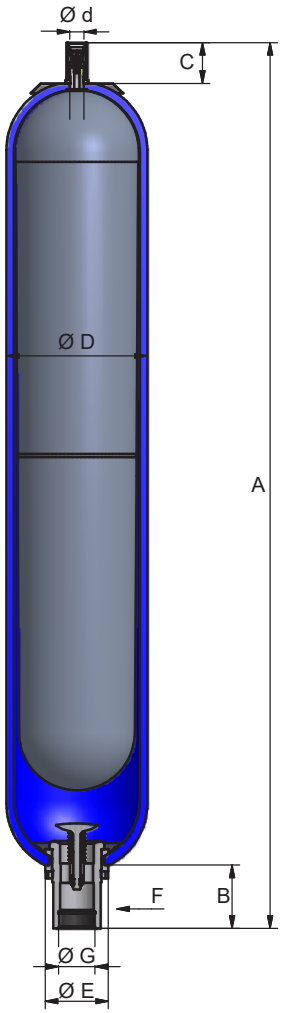
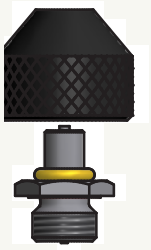
# EHV series 350 bar, 0.5 to 10 Liters - MARINE




**Model of valve stem**

B-type
7/8" 14 UNF



D-type
5/8" 18 UNF

| Type | Dimensions in mm | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | A max Height | B | C | øD | ød | øE | F on flats | G connection |
| 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" |

# Super Complete Charging Set

# SC-VGU

The SC-VGU charging kit is an indispensable device for adjusting, controlling and pre-charging accumulators.

Suitable for Parker and non-Parker accumulators and all accumulator technologies (bladder, piston and diaphragm) the SC-VGU Charging Kit is an essential tool for any accumulator maintenance company or service centre.

## BENEFITS

- **VERSATILE**
  - Suitable for most types of gas valve and all accumulator technologies bladder/piston/diaphragm
  - Suitable for Parker and non-Parker accumulators
- **CONVENIENT**
  - Comes in a portable case with strong hinge and fasteners
- **RELIABLE**
  - 4 pressure gauges ranging from 0-6 bar to 0-400 bar, enabling a more accurate pre-charge reading for low and high pressure requirements.

## SUPER COMPLETE CHARGING SET INCLUDES:

**9 Different Adaptors**
7/8"UNF (short), 7/8"UNF (long), 5/8"UNF, 0.302"(8V1), G 1/4", M28x1.5, M16x200, M16x150, 3/4"BSP HEX

**4 Pressure Gauges**
0 to 6 bar / 0 to 25 bar / 0 to 250 bar / 0 to 400 bar

**1 Extender Hose**
For safe operation in tricky spaces

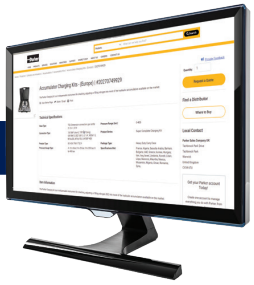
**1 Gas Flow Limiter**
To control the initial pre-charge speed.

**Robust Case**

## PART NUMBERS

| Part Number | Description | Country |
|---|---|---|
| **20270749929** | SC-VGU.TM.9.TS2.9 | France |
| **20270749939** | SC-VGU.TM.9.TS3.9 | Germany |
| **20270749989** | SC-VGU.TM.9.TS8.9 | Italy |
| **20270749999** | SC-VGU.TM.9.TS9.9 | Netherlands |

## VIEW DETAILS ON PARKER.COM



# EHV series 350 bar, 0.5 to 10 Liters - MARINE / 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 0,5 | G 3/8" cyl<br>04556400223 | E95 1<br>20250803648 | | | | KIT EHV 0.5-350<br>D16 VALVE D<br>19001100225 |
| EHV 1 | G 3/8" cyl<br>04556400223 | E114 1<br>20251003648 | CE 89<br>20151903620 | | | KIT EHV 1-350<br>DIA22 VALVE B<br>19036400225 |
| EHV 1.6 | G 3/8" cyl<br>04556400223 | E114 1<br>20251003648 | CE 89<br>20151903620 | | | KIT EHV 1.6-350<br>DIA22 VALVE B<br>19061000225 |
| EHV 2.5 | G 3/4" cyl<br>04555200223 | E114 2<br>20251003648 | CE 89<br>20151903620 | | 19036500225 | KIT EHV 2.5-350<br>DIA22 VALVE B<br>19036500225 |
| EHV 4 | G 3/4" cyl<br>04555200223 | E168 1<br>20251303648 | CE108<br>20118703620 | EF1<br>20217500125 | 10912700200 | KIT EHV 4-350<br>DIA22 VALVE B<br>19036600225 |
| EHV 5 | G 3/4" cyl<br>04555200223 | E114 2<br>20251003648 | CE 89<br>20151903620 | | 10912700200 | KIT EHV 5-350<br>DIA22 VALVE B<br>19036700225 |
| EHV 6 | G 3/4" cyl<br>04555200223 | E168 2<br>20251303648 | CE108<br>20118703620 | EF1<br>20217500125 | 10912700200 | KIT EHV 6-350<br>DIA22 VALVE B<br>19036800225 |
| EHV 10 | G 3/4" cyl<br>04555200223 | E168 2<br>20251303648 | CE108<br>20118703620 | EF1<br>20217500125 | 10912700200 | KIT EHV 10-350<br>DIA22 VALVE B<br>19036900225 |

* for more adaptors option see page 32

# EHVF series 330 bar, 10 to 50 Liters - FLANGED FLUID PORT

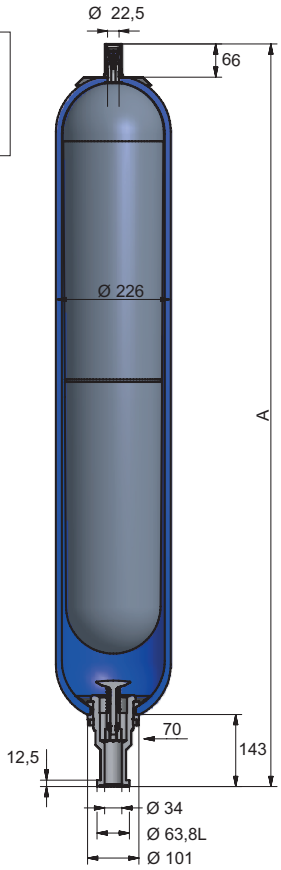
Standard version (Carbon Steel shell/NBR mix) compatible with mineral oils [2].

Max. working pressure: 330 bar
Max. flow rate: 900 l/min
Temperature Range: -20°C to 80°C

Gas Connection: 7/8“ 18 UNF
Oil Connection Flange: 1“-1/2 SAE 6000

| Type | Valve model see drawing | Effective Gas vol. Liters | Weight kg | Dimensions in mm A (max Height) |
|---|---|---|---|---|
| EHVF 10-330/90-A25RC-200 | C | 9.2 | 31 | 627 |
| EHVF 12-330/90-A25RC-200 | C | 11 | 36 | 727 |
| EHVF 20-330/90-A25RC-200 | C | 17.8 | 49 | 937 |
| EHVF 24,5-330/90-A25RC-200 | C | 22.5 | 56 | 1072 |
| EHVF 32-330/90-A25RC-200 | C | 32 | 81 | 1460 |
| EHVF 42-330/90-A25RC-200 | C | 42 | 87 | 1602 |
| EHVF 50-330/90-A25RC-200 | C | 48.5 | 110 | 1976 |
| EHVF 57-330/90-A25RC-200 | C | 51 | 116 | 2072 |

* 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




**Model of valve stem**

C-type
7/8” 14 UNF

**Parker Hannifin**
Cylinder and Accumulator
Division Europe

# EHVF series 330 bar, 10 to 50 Liters - FLANGED FLUID PORT / Spare Parts & Accessories

| **Type** | **Kit Flange**<br>Type<br>Part number | **Clamps**<br>Model<br>(quantity)<br>Part number | **Support Bracket**<br>Model<br>Part number | **Mounting Frame**<br>Model<br>Part number | **Lifting Eye on gas side**<br>Model<br>Part number | **Complete Repair Kit**<br>Model<br>Part number |
|---|---|---|---|---|---|---|
| EHVF<br>10-330/90-A25RC-200<br>10844901125 | BR 400-38<br>35132400123 | D226 2<br>20251503648 | CE 159A<br>20109003620 | EF2<br>20217600125 | 10912700200 | KIT REC.<br>EHVF 10-250/330<br>DIA22 VALVE C<br>19034600225 |
| EHVF<br>12-330/90-A25RC-200<br>10867301125 | BR 400-38<br>35132400123 | D226 2<br>20251503648 | CE 159A<br>20109003620 | EF2<br>20217600125 | 10912700200 | KIT REC.<br>EHVF 12-250/330<br>DIA22 VALVE C<br>19034700225 |
| EHVF<br>20-330/90-A25RC-200<br>10845001125 | BR 400-38<br>35132400123 | D226 2<br>20251503648 | CE 159A<br>20109003620 | EF2<br>20217600125 | 10912700200 | KIT REC.<br>EHVF 20-250/330<br>DIA22 VALVE C<br>19034800225 |
| EHVF<br>24,5-330/90-A25RC-200<br>10845101125 | BR 400-38<br>35132400123 | D226 2<br>20251503648 | CE 159A<br>20109003620 | EF2<br>20217600125 | 10912700200 | KIT REC.<br>EHVF 24,5-250/330<br>DIA22 VALVE C<br>19035100225 |
| EHVF<br>32-330/90-A25RC-200<br>10845201125 | BR 400-38<br>35132400123 | D226 2<br>20251503648 | CE 159A<br>20109003620 | EF3<br>20217700125 | 10912700200 | KIT REC.<br>EHVF 32-250/330<br>DIA22 VALVE C<br>19034900225 |
| EHVF<br>42-330/90-A25RC-200<br>11132501125 | BR 400-38<br>35132400123 | D226 2<br>20251503648 | CE 159A<br>20109003620 | EF3<br>20217700125 | 10912700200 | KIT REC.<br>EHVF 42-250/330<br>DIA22 VALVE C<br>19062200225 |
| EHVF<br>50-330/90-A25RC-200<br>11077001125 | BR 400-38<br>35132400123 | D226 2<br>20251503648 | CE 159A<br>20109003620 | EF3<br>20217700125 | 10912700200 | KIT REC.<br>EHVF 50-250/330<br>DIA22 VALVE C<br>19054400225 |
| EHVF<br>57-330/90-A25RC-200<br>11132601125 | BR 400-38<br>35132400123 | D226 2<br>20251503648 | CE 159A<br>20109003620 | EF3<br>20217700125 | 10912700200 | KIT REC.<br>EHVF 57-250/330<br>DIA22 VALVE C<br>19062300225 |

# EHVF series 350 bar, 2.5 to 10 Liters - 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].

Max. working pressure: 350 bar
Max. flow rate: 450 l/min
Temperature Range: -20°C to 80°C

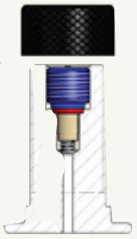
Gas Connection: 7/8“ 14 UNF
Oil Connection Flange: 1“ SAE 6000

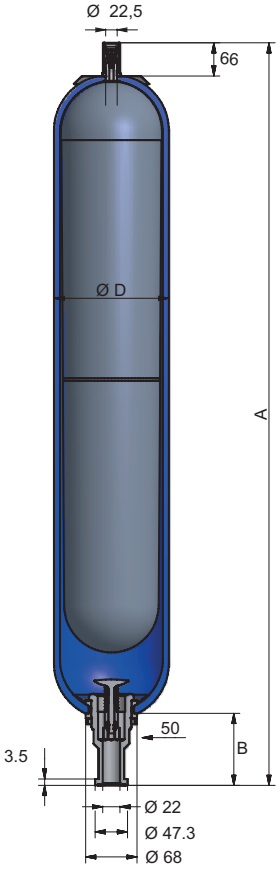
| Type | Valve model (see drawing) | Effective Gas vol. Liters | Weight kg | Dimensions in mm | | |
|---|---|---|---|---|---|---|
| | | | | A max Height | B | øD |
| EHVF 2.5-350/90-A25SC-200 | C | 2.4 | 11 | 595 | 111 | 116 |
| EHVF 4-350/90-A25SC-200 | C | 3.7 | 15 | 480 | 110 | 170 |
| EHVF 5-350/90-A25SC-200 | C | 5.0 | 17 | 944 | 111 | 116 |
| EHVF 6-350/90-A25SC-200 | C | 6.0 | 20 | 606 | 110 | 170 |
| EHVF 10-350/90-A25SC-200 | C | 10 | 31 | 871 | 110 | 170 |

[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
All dimensions in mm and are subject to manufacturing tolerances

**Model of valve stem**

C-type
7/8” 14 UNF
(integrated)






# EHVF series 350 bar, 2.5 to 10 Liters - FLANGED FLUID PORT / Spare Parts & Accessories

| **Type** Part number | **Flange** Type 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 |
|---|---|---|---|---|---|---|
| EHVF 2.5-350/90-A25SC 10861501125 | BR 400-25 35132600123 | E114 2 20251003648 | CE89 20151903620 | - | 10912700200 | KIT EHVF 2.5-350 DIA22 VALVE C 19035300225 |
| EHVF 4-350/90-A25SC 10857601125 | BR 400-25 35132600123 | E168 1 20251303648 | CE108 20118703620 | EF1 20217500125 | 10912700200 | KIT EHVF 4-350 DIA22 VALVE C 19035400225 |
| EHVF 5-350/90-A25SC 10861601125 | BR 400-25 35132600123 | E114 2 20251003648 | CE89 20151903620 | - | 10912700200 | KIT EHVF 5-350 DIA22 VALVE C 19035500225 |
| EHVF 6-350/90-A25SC 10857701125 | BR 400-25 35132600123 | E168 1 20251303648 | CE108 20118703620 | EF1 20217500125 | 10912700200 | KIT EHVF 6-350 DIA22 VALVE C 19035600225 |
| EHVF 10-350/90-A25SC 10859901125 | BR 400-25 35132600123 | E168 2 20251303648 | CE108 20118703620 | EF1 20217500125 | 10912700200 | KIT EHVF 10-350 DIA22 VALVE C 19035700225 |

# SensoNODE Kit for Accumulators

A regular control of the nitrogen pressure allows a durable and efficient operation of the accumulator. The new SensoNode sensor transmits nitrogen pressure / temperature information via a Bluetooth connection to a mobile device (tablet or smartphone) using Scout Mobile Parker application. The purpose of this equipment is to simplify the maintenance of the accumulators by allowing a frequent control of the nitrogen pressure while avoiding dangerous situations for the operator.

## PRODUCT FEATURES

Accuracy: 1,5% of the total measuring scale
Temp range: -40°C to +85°C
Measurement cycles: > 1 million
Burst pressure: 3 x working pressure

## SAFE

⇨Easy Maintenance
⇨Greater safety for operators

## ECONOMIC

⇨Reduced maintenance time
⇨Free Application
⇨Sensor maintenance free

## FLEXIBLE

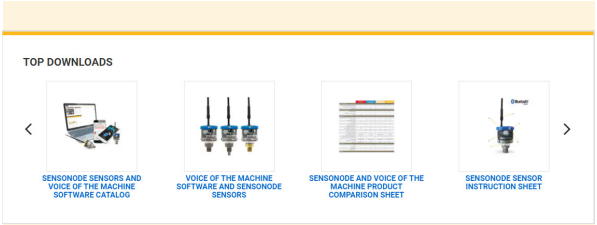
⇨Easy installation on bladder accumulator
⇨Could equip existing or new units

## RELIABLE

⇨Battery life time >1 year
⇨More efficient accumulator

**Easily follow up on your product's performance via App.**

Available for Android and IOS
VOICE OF THE MACHINE




Visit our website for more useful tools and trainings about condition monitoring resources. LINK

## INCLUDES

- SensoNODE
- Gas Valve and Accumulator Stem Valve Adaptor

| Part Number | Description | Pressur Range |
|---|---|---|
| 11354000223 | SENSONODE CHARGING SET 0-400 B | 0-400 bar |
| 11353900223 | SENSONODE CHARGING SET 0-250 B | 0-250 bar |

### Dimensions

Max Height: 175 mm
Ø: 45 mm + Valve 28 mm
Weight: 530 g

Do you have any questions regarding our products?
**Chat with us** on parker.com
Our experts are looking forward to supporting your enquiry.

# EHV series 330 bar, 10 to 57 Liters - HIGH FLOW FLUID PORT

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

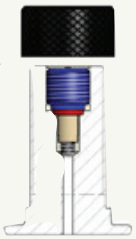
Max. working pressure: 330 bar
Max. flow rate: 1200 l/min
Temperature Range: -20°C to 80°C[1]
Gas Connection: 7/8“ 18 UNF

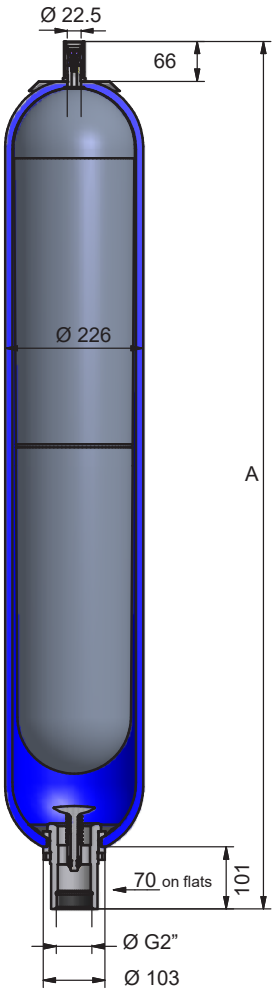
| Type | Valve model (see drawing) | Effective Gas vol. Liters | Weight kg | Dimensions A (max Height) |
|---|---|---|---|---|
| EHV 10-330/90-A25HC-200 | C | 9,2 | 31 | 587 |
| EHV 12-330/90-A25HC-200 | C | 11 | 36 | 687 |
| EHV 20-330/90-A25HC-200 | C | 17,8 | 49 | 897 |
| EHV 24.5-330/90-A25HC-200 | C | 22,5 | 56 | 1032 |
| EHV 32-330/90-A25HC-200 | C | 32 | 81 | 1420 |
| EHV 50-330/90-A25HC-200 | C | 48,5 | 110 | 1936 |

[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
All dimensions in mm and are subject to manufacturing tolerances

**Model of valve stem**

C-type
5/8” 18 UNF
(integrated)








**Parker Hannifin**
Cylinder and Accumulator
Division Europe

# EHVF series 330 bar, 10 to 57 Liters - HIGH FLOW FLUID PORT / Spare Parts & Accessories

| **Type**<br>Part number | **Adaptor***<br>Threaded<br>Part number | **Clamps**<br>Model<br>(quantity)<br>Part number | **Support Bracket**<br>Model<br>Part number | **Mounting Frame**<br>Model<br>Part number | **Lifting Eye on gas side**<br>Model<br>Part number | **Complete Repair Kit**<br>Model<br>Part number |
|---|---|---|---|---|---|---|
| EHV 10-330/90-A25HC-200<br>10874801125 | G 1" cyl<br>04557000223 | D226 2<br>20251503648 | CE 159A<br>20109003620 | EF2<br>20217600125 | 10912700200 | KIT EHV 10-330 DIA22 VALVE C<br>19028900225 |
| EHV 12-330/90-A25HC-200<br>10874901125 | G 1" cyl<br>04557000223 | D226 2<br>20251503648 | CE 159A<br>20109003620 | EF2<br>20217600125 | 10912700200 | KIT EHV 12-330 DIA22 VALVE C<br>19032100225 |
| EHV 20-330/90-A25HC-200<br>10846301125 | G 1" cyl<br>04557000223 | D226 2<br>20251503648 | CE 159A<br>20109003620 | EF2<br>20217600125 | 10912700200 | KIT EHV 20-330 DIA22 VALVE C<br>19029000225 |
| EHV 24.5-330/90-A25HC-200<br>10875001125 | G 1" cyl<br>04557000223 | D226 2<br>20251503648 | CE 159A<br>20109003620 | EF2<br>20217600125 | 10912700200 | KIT EHV 24,5-330 DIA22 VALVE C<br>19029400225 |
| EHV 32-330/90-A25HC-200<br>10846501125 | G 1" cyl<br>04557000223 | D226 2<br>20251503648 | CE 159A<br>20109003620 | EF3<br>20217700125 | 10912700200 | KIT EHV32-330 DIA22 VALVE C<br>19029100225 |
| EHV 50-330/90-A25HC-200<br>11091501125 | G 1" cyl<br>04557000223 | D226 2<br>20251503648 | CE 159A<br>20109003620 | EF3<br>20217700125 | 10912700200 | KIT EHV 50-330 DIA22 VALVE C<br>19054100225 |

* for more adaptors option see page 32

# EHV series 350 bar, 2.5 to 10 Liters - HIGH FLOW FLUID PORT

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

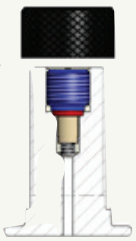
Max. working pressure: 350 bar
Max. flow rate: 570 l/min
Temperature Range: -20°C to 80°C
Gas Connection: 7/8“ 18 UNF

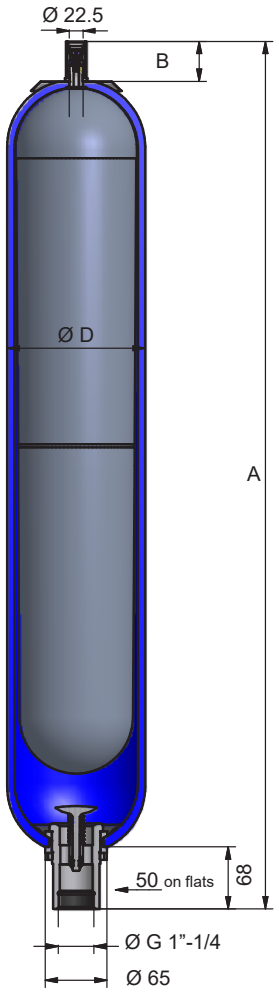
| Type | Valve model (see drawing) | Effective Gas vol. Liters | Weight kg | Dimensions in mm | | |
|---|---|---|---|---|---|---|
| | | | | A max Height | B | øD |
| EHV 2.5-350/90-A25EC-200 | C | 2,4 | 11 | 549 | 66 | 116 |
| EHV 4-350/90-A25EC-200 | C | 3,7 | 15 | 434 | 65 | 170 |
| EHV 5-350/90-A25EC-200 | C | 5 | 17 | 898 | 66 | 116 |
| EHV 6-350/90-A25EC-200 | C | 6 | 20 | 560 | 65 | 170 |
| EHV 10-350/90-A25EC-200 | C | 10 | 31 | 825 | 65 | 170 |

[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
All dimensions in mm and are subject to manufacturing tolerances

**Model of valve stem**

C-type
5/8” 18 UNF
(integrated)








**Parker Hannifin**
Cylinder and Accumulator
Division Europe

# EHVF series 350 bar, 2.5 to 10 Liters - HIGH FLOW FLUID PORT / Spare Parts & Accessories

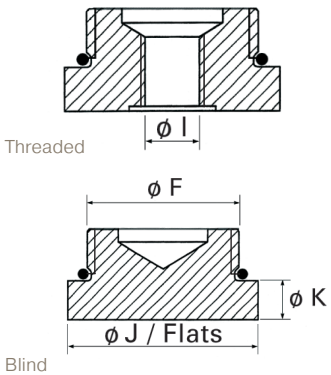
| **Type**<br>Part number | **Adaptor***<br>Threaded<br>Part number | **Clamps**<br>Model<br>(quantity)<br>Part number | **Support Bracket**<br>Model<br>Part number | **Mounting Frame**<br>Model<br>Part number | **Lifting Eye**<br>Model<br>Part number | **Complete Repair Kit**<br>Model<br>Part number |
|---|---|---|---|---|---|---|
| EHV 2.5-350/90-A25EC-200<br>10846101125 | G ¾" cyl<br>04555200223 | E114 2<br>20251003648 | CE 89<br>20151903620 | - | - | KIT EHV 2.5-350 D22 VALVE C<br>19029800225 |
| EHV<br>4-350/90-A25EC-200<br>10846701125 | G ¾" cyl<br>04555200223 | E168 2<br>20251303648 | CE108<br>20118703620 | EF1<br>20217500125 | - | KIT EHV 4-350 D22 VALVE C<br>19029900225 |
| EHV<br>5-350/90-A25EC-200<br>10874601125 | G ¾" cyl<br>04555200223 | E114 2<br>20251003648 | CE 89<br>20151903620 | - | - | KIT EHV 5-350 D22 VALVE C<br>19030000225 |
| EHV<br>6-350/90-A25EC-200<br>10874701125 | G ¾" cyl<br>04555200223 | E168 2<br>20251303648 | CE108<br>20118703620 | EF1<br>20217500125 | - | KIT EHV 6-350 D22 VALVE C<br>19030100225 |
| EHV 1<br>0-350/90-A25EC-200<br>10845901125 | G ¾" cyl<br>04555200223 | E168 2<br>20251303648 | CE108<br>20118703620 | EF1<br>20217500125 | 10912700200 | KIT EHV 10-350 D22 VALVE C<br>19030200225 |

* for more adaptors option see page 32

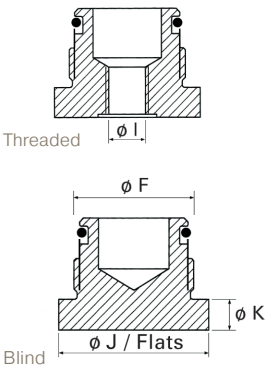
# EHV Adapters, Carbon Steel

| Accumulator model | Connection ØF BSPP | Connection ØI BSPP | P/N | Shape | J/Flats | K | O-Ring / Back-up ring |
|---|---|---|---|---|---|---|---|
| EHV 0,2 Liter 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 Liters 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 Liters 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 Liters 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 Liters 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 12 to 54 Liters 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



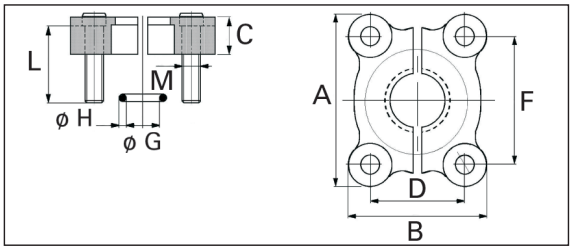

## Shape B - Seal in fluid port



# EHVF Flanges, Carbon Steel

| Accumulator model | Type | Part Number | A | B | C | D | F | øG | ØH | L | M |
|---|---|---|---|---|---|---|---|---|---|---|---|
| EHVF 2,5 to 10 Liters | FLANGE KIT BR 400-25 | 35132600123 | 81 | 70 | 24 | 27,8 | 57,2 | 32,92 | 3,53 | 45 | M12 |
| EHVF 10 to 57 Liters | FLANGE KIT BR 400-38 | 35132400123 | 113 | 95 | 30 | 36,5 | 79,3 | 47,22 | 3,53 | 55 | M16 |

According ISO 6162-2



# Anti-Corrosion Materials

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

| **Construction code** | | **11 (standard version)** | **20** | **84** | **85** |
|---|---|---|---|---|---|
| **Accumulator shell** | **Coating** | **Primar Coating RAL 5005 External** | **EPOXY 80 microns Internal** | **RILSAN® 200-300 microns Internal/External** | |
| | **Material** | **Carbon Steel** | **Carbon Steel** | **Carbon Steel** | |
| **Valve Stem, Fluid port, and Protection Cap** | **Material** | **Zinc plated Carbon Steel** | **Stainless Steel** | **Stainless Steel** | **Zinc plated Carbon Steel** |
| Volume | | | | | |
| 0,2 | | x | x | x | x |
| 0,5 | | x | x | x | x |
| 1 | | x | x | x | x |
| 1,6 | | x | x | x | x |
| 2,5 | | x | x | x | x |
| 4 | | x | x | x | x |
| 5 | | x | x | x | x |
| 6 | | x | x | x | x |
| 10 (ø 170) | | x | x | x | x |
| 10 ( ø 226) | | x | x | x | x |
| 12 | | x | x | x | x |
| 20 | | x | x | x | x |
| 24,5 | | x | x | x | x |
| 32 | | x | x | x | x |
| 42 | | x | x | x | x |
| 50 | | x | x | x | x |
| 57 | | 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

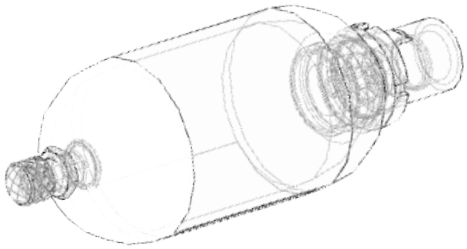
## Bladder mixes available from Parker Olaer.

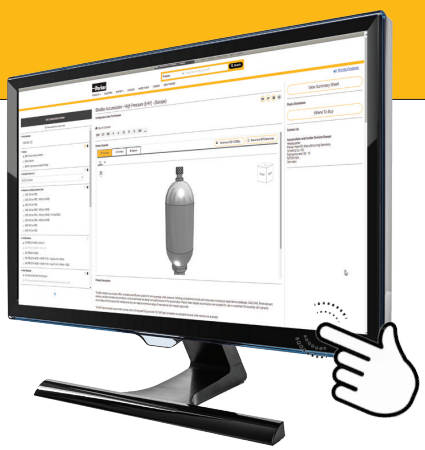
Example : from EHV 4-350/90 PART NUMBER 108454011XX

| | Standard Bladder | Other mixes | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Mix Code** | **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** | **Extreme Low Temp Nitrile** | **Butyl** | **EPDM** | **Viton** | **High performance Nitrile** | **Very low permeation 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** | **-20**** |
| **Volume/ Typical Fluid*** | **Mineral Oil** | **Mineral Oil** | **Mineral Oil** | **Mineral Oil** | **Mineral Oil + Special fuels (not unleaded gasoline)** | **Mineral Oil** | **Mineral Oil** | **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 | | |

*For any other application please consult Parker.
** under slow cycling conditions

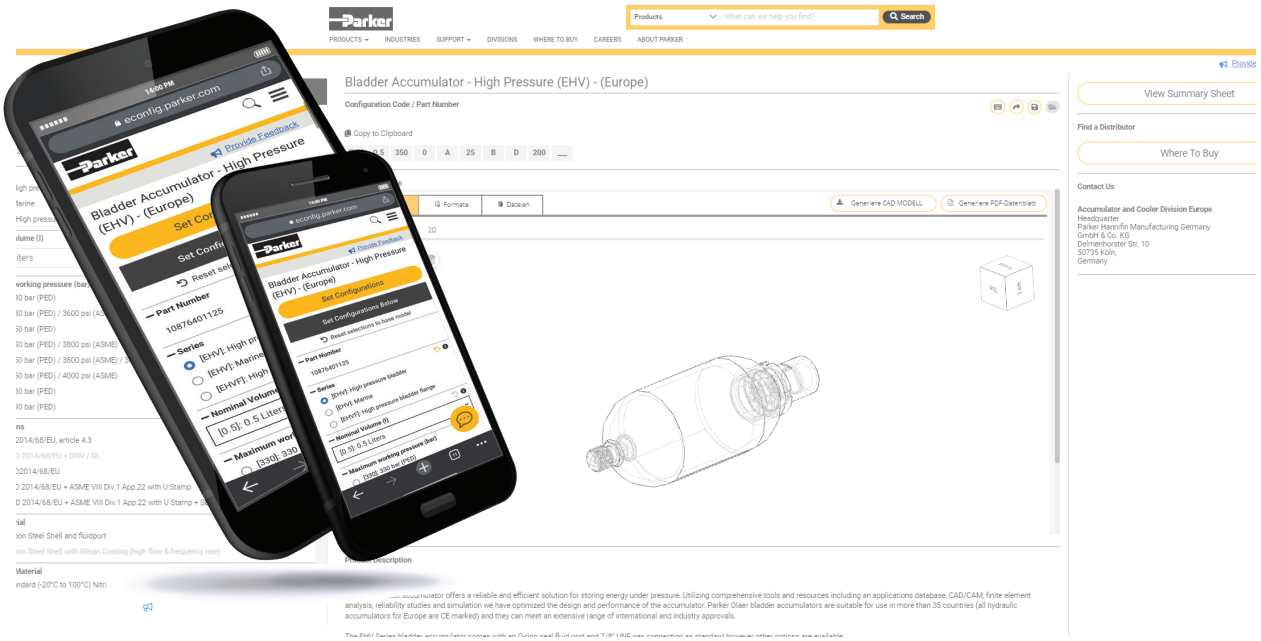
# configuratorPLUS live now!





**eConfigurator+ Features & Benefits:**

- Improved Design & Layout – based on extensive user research and customer testing of UI
- Dynamic Filter Navigation – for an intuitive workflow and a fast part selection
- Built-in Intelligence – guides users to help achieve their desired configuration
- Embedded CAD Viewer – with 3D/2D preview & 200+ file formats to download
- Search by Model Code – directly input a model code to load that configuration
- Model Code Info – provides a detailed breakdown of selected options in a part
- Additional Details/Specifications – providing more data, to aid part selection
- Improved Collaboration – save & load your configurations, or share via email
- Streamlined Quoting – request a price & delivery quote directly from the tool
- Tool Tips – provide the user with additional related information, hints or tips
- Supports All Current Browsers + Mobile – providing a better user experience



## How to order Bladder Accumulators, EHV series: 330 bar - 690 bar

| EHV | 20 | 330 | 90 | A | 25 | G | C | 2 | 00 | / | 100 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | | 11 |

| | | |
|---|---|---|
| 01 | Series | EHV = High pressure bladder<br>EHVF = High pressure bladder flange<br>ETHV = High pressure transfer bladder |
| 02 | Gas Volume (L)<br>examples | 0.2 = 0.2 L<br>20 = 20 L<br>24.5 = 24.5 L |
| 03 | Max. Working Pressure | 330 = 330 bar<br>350 = 350 bar<br>690 = 690 bar<br>*120 = 120 bar (stainless steel range)* |
| 04 | Approval Type<br>if the product is not CE, use highest MWP according to re-gulation relevant to the product.<br>See: approvals | 00 = PED2014/68/EU, art. 4.3<br>11 = PED2014/68/EU + BV Marine<br>13 = PED2014/68/EU, art. 4.3 + BV Marine<br>23 = PED2014/68/EU, art. 4.3 + ABS<br>24 = PED2014/68/EU + DNVGL<br>41 = PED2014/68/EU + ABS<br>43 = PED2014/68/EU, art. 4.3 + DNVGL<br>48 = ASME VIII div 1 app22<br>71 = CUTR 032/2013<br>83 = PED2014/68/EU + AS1210<br>86 = PED2014/68/EU + ASME VIII div 1 app 22 + SELO<br>88 = PED2014/68/EU + SELO<br>90 = PED2014/68/EU<br>91 = ASME VIII div 1 app 22 + AS 1210<br>94 = PED2014/68/EU + ASME VIII div 1 app 2<br>AA = PED2014/68/EU + NR13<br>AE = ASME VIII div 1 + NR13<br>AU = ASME VIII div 1 + CUTR 832/2013 |
| 05 | Material<br>(Shell & Fluid Port) | A = All parts in carbon steel with epoxy paint for shell only (-40°C to +80°C)<br>B = Carbon steel shell + internal protection epoxy 80 µm + stainless steel fluid port and valve<br>D = Carbon steel shell + int./ext. protection blue rilsan 200 - 300 µm + carbon steel fluid port and valve<br>E = Carbon steel shell + stainless steel fluid port and valve<br>I = All parts in stainles steel (-40°C to +80°C)<br>R = Carbon steel shell + int./ext. protection blue rilsan 200 - 300 µm + stainless steel fluid port and valve<br>Z = Special |
| 06 | Bladder Rubber Mix | 02 = Hydrin C (-32°C to +115°C)<br>10 = Nitrile low temperature (-30°C to +80°C)<br>20 = Nitrile heavy duty (-6°C to +100°C)<br>25 = Nitrile standard (-20°C to +100°C)<br>30 = Nitrile low permeability (-5°C to +115°C)<br>35 = Nitrile high temperature (0°C to +130°C)<br>37 = Nitrile extreme low temp (-59°C to +110°C)<br>40 = Butyl (-15°C to +120°C)<br>47 = EPDM (-40°C to +140°C)<br>80 = Viton (-20°C to +140°C)<br>E2 = Nitrile (-15°C to +100°C)<br>XL = Nitrile very low permeation (-10°C to +100°C) |
| 07 | Fluid Port<br>Configuration | A = Gas cyl ½" (120 L / min)<br>B = Gas cyl ¾" (240 L / min)<br>C = Gas cyl 1" (360 L / min)<br>D = Gas cyl 1¼" (450 L / min)<br>E = Gas cyl 1¼" DA (570 L / min)<br>G = Gas cyl 2" (900 L / min)<br>H = Gas cyl 2" DA (1200 L / min)<br>J = Gas cyl. 2½" GD (1800 L / min)<br>M = Metric M40 x 1.5<br>N = Metric M50 x 1.5<br>R = EHV 10 - 57 L (900 L / min) Flange 1½" SAE 6000<br>S = EHV 2.5 - 10 L (450 L /min) Flange 1" SAE 6000<br>Z = Special |
| 08 | Gas Valve<br>Configuration | 0 = No gas valve<br>A = Gas valve type 5/8" - 18 UNF<br>B = Gas valve type 7/8" - 14 UNF<br>C = Gas valve type 7/8" - 14 UNF integrated<br>D = Gas valve type 5/8" - 18 UNF integrated<br>E = Gas valve type 7/8" - 14 UNF high pressure<br>F = Gas valve type 5/8" - 18 UNF + burst disc<br>G = Gas valve type 7/8" - 14 UNF + burst disc<br>H = Gas valve type 7/8" - 14 UNF integr. + burst disc<br>I = Gas valve type 5/8" - 18 UNF integr. + burst disc<br>J = Gas valve type 7/8" - 14 UNF high pr. + burst disc |
| 09 | Fluid Type | 0 = Not applicable<br>1 = Fluid type 1 - CE fluid group 1<br>2 = Fluid type 2 - CE fluid group 2 |
| 10 | Special | 00 = None<br>EX = ATEX<br>EZ = ATEX + other special configuration<br>EU = All components sourced in EU<br>SP = Special Painting<br>D1 = Standard Documentation + leak test report<br>D2 = Standard Documentation + design calculation note<br>ZZ = Special configuration or several options<br>ASME certified accumulator according to ASME VIII Div. 1:<br>30 MWP = 207 bar ( 3000 PSI)<br>36 MWP = 248 bar ( 3600 PSI)<br>38 MWP = 262 bar (3800 PSI)<br>40 MWP = 276 bar (4000 PSI)<br>50 MWP = 345 bar ( 5000 PSI) |
| 11 | Pre-Charge at 20 °C (bar) | 100 = 100 bar (example)<br>Blank : nitrogen storage pre-charge pressure (from 3 to 5 bar). |

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