



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



## DA Series Diaphragm Accumulators

Previously known as ELM Series



ENGINEERING YOUR SUCCESS.

## Description

Diaphragm accumulators are inexpensive, compact and lightweight and are ideally suited where weight and space is an important consideration. Ideally suited to Mobile -Agricultural and Construction markets (140 to 350 bar/ 0.075 to 3.5L).

The DA diaphragm accumulator offers a reliable and efficient solution for storing energy under pressure and as an hydraulic spring. Utilizing comprehensive tools and resources including an applications database, CAD/CAM we offer an optimized design and performance membrane accumulator. (all hydraulic accumulators are compliant to 2014/68/EU regulation)

DA diaphragm accumulators (also referred to as membrane accumulators) are gas-loaded accumulators in which separation between the liquid and gas sides is achieved by a flexible diaphragm. They have a compact and lightweight design are available in 2 elastomer mixes; Nitrile and Hydrin (for low temperature working conditions) with a maximum pressure of 350bar (up to 2,8 liters) and volume of 3.5 Litres (up to 250 Bar).

DA accumulator range comes with a bonded seal (BS) fluid port with female or male and female fluid connection and M28x1,5 gas connection.

Accumulator accessories such as Safety Blocks, Clamps, Lock nut, Charging Sets (VGU), 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](http://www.Parker.com/acde).

## Markets

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

## Features/Benefits

- **The adaption of a hydraulic shock absorber made up of a diaphragm accumulator improves driver comfort and offers immediate response times when driving over obstacles or rough terrain.**
- **The DA diaphragm accumulator offers a cost effective solution for hydraulic systems.**
- **The DA diaphragm accumulators are PED compliant and can be used in over 35 countries.**
- **The DA diaphragm accumulators offer high compression ratio (up to 8 – according to type)**
- **Low maintenance product**
- **We offer a wealth of product knowledge and experience thus enabling us to provide first class technical support and customer service.**

**E-configurable product**  
visit [Parker.com/acde](http://Parker.com/acde)

## Applications

- **Agricultural equipment**
- **Construction equipment**
- **Forestry**
- **Handling/Cranes**
- **Truck**
- **Wind Energy**
- **Hydraulic Power Units**
- **Lubrication Systems**
- **Power Generation**
- **Energy Transmission & Distribution**
- **Defence**
- **Air & Gas Compressors**
- **Entertainment Automation**
- **Moulding**
- **Plastic Presses**
- **Die Casting**
- **Vehicle Assembly Facilities**
- **Machine Tools**

# DA Series Technical Characteristics

The technical characteristics are as follows:

**Minimum/maximum temperature allowable (° Celsius) :**

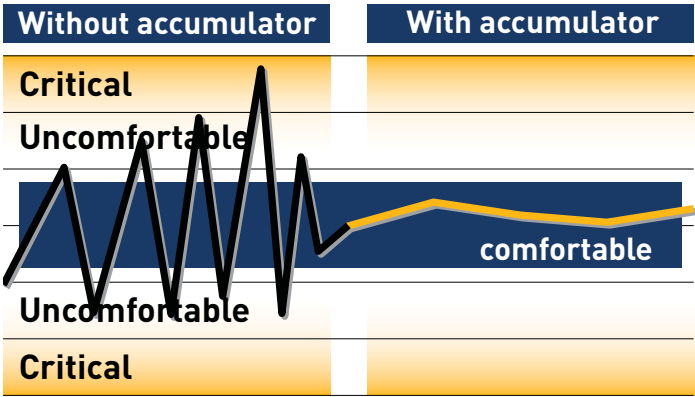
- 20/+80 for standard nitrile elastomers for models between 0.5 < V< 1.4 Litre
- 10/+80 for standard nitrile elastomers for models ≥ 2 Litres and < 0.32 Litre
- 35/+80 for hydrin elastomers

**Materials :** carbon steel or stainless steel, nitrile or hydrin diaphragm, for other constructions: please consult Parker.

This non-repairable accumulator comprises a shell electron beam welded in carbon steel or stainless steel, nitrile or hydrin diaphragm, for other constructions please consult Parker Olaer.



**Comparative cycle** for a tractor and its accessories in working conditions !



# DA Series: How to order a diaphragm accumulator

DA - 140 - 140 90 A F 11 25 P000

## Product Type

DA Diaphragm Accumulators

## Volume

007 0,075L  
016 0.16L  
032 0.32L  
050 0.5L  
075 0.75L  
100 1L  
140 1.4L  
200 2L  
280 2.8L  
350 3.5L

## Working Pressure

100 100 bar  
140 140 bar  
210 210 bar  
250 250 bar  
350 350 bar

## Approval

00 PED 2014/68/EU Art. 4.3  
90 EC (according to PED 2014/68/EU)

## Fluid connection

A G 1/2"  
B G 3/4"  
C G 1/2" + External thread M33x1,5  
D G 3/4" + External thread M45x1,5

## Gas connection

F M28x1,5

## Construction

11 Carbon steel shell

## Membrane rubber compound

25 NBR  
02 ECO

## Precharge

000 No-precharge  
XXX 005 to 130bar (Step 5 by 5)



# DA Series 140 - 350 BAR, 0.075 to 0.75 Litres

NBR rubber mix (previous known as ELM range)

Standard Version (Carbon steel /mix NBR) compatible with mineral oils (2)

According to PED 2014/68/EU

Product, Part numbers, Accessories

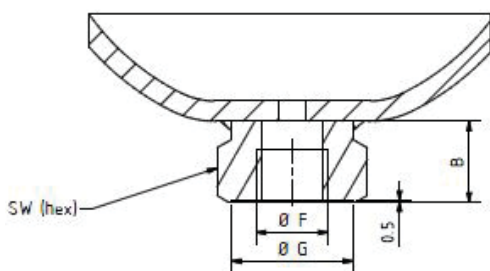
E-configurable product  
visit [Parker.com/acde](http://Parker.com/acde)

| Type<br>Part number                                     | Clamps<br>Model (quantity)<br>Part number | Lock nut<br>Model (quantity)<br>Part number | Cross Reference OLAER               | Cross Reference ADE |
|---------------------------------------------------------|-------------------------------------------|---------------------------------------------|-------------------------------------|---------------------|
| DA-0.075L-250BAR-10849201125<br>DA-007-25000AF1125PXXX* | -                                         | -                                           | ELM 0.075-250/00/AF*<br>10849201125 | ADE007-25R1A2       |
| DA-0.16L-250BAR-10849301125<br>DA-016-25000AF1125PXXX*  | -                                         | -                                           | ELM 0.16-250/00/AF*<br>10849301125  | ADE016-25R1A2       |
| DA-0.32L-210BAR-10986601125<br>DA-032-21000AF1125PXXX*  | E95 (1)<br>20250803648                    | -                                           | ELM 0.32-210/00/AF*<br>10986601125  | ADE032-21R1A2       |
| DA-0.50L-210BAR-10849501125<br>DA-050-21000AF1125PXXX*  | E106 (1)<br>20250903648                   | -                                           | ELM 0.5-210/00/AF*<br>10849501125   | ADE050-21R1A2       |
| DA-0.50L-210BAR-10849601125<br>DA-050-21000CF1125PXXX*  | E106 (1)<br>20250903648                   | M33x1.5<br>10945700100                      | ELM 0.5-210/00/CF*<br>10849601125   |                     |
| DA-0.75L-210BAR-10849701125<br>DA-075-21000AF1125PXXX*  | E114 (1)<br>20251003648                   | -                                           | ELM 0.75-210/00/AF*<br>10849701125  | ADE075-21R1A2       |
| DA-0.75L-210BAR-10849801125<br>DA-075-21000CF1125PXXX*  | E114 (1)<br>20251003648                   | M33x1.5<br>10945700100                      | ELM 0.75-210/00/CF*<br>10849801125  |                     |
| DA-0.75L-350BAR-10931801125<br>DA-075-35000AF1125PXXX*  | E136 (1)<br>20251103648                   | -                                           | ELM 0.75-350/00/AF*<br>10931801125  |                     |
| DA-0.75L-350BAR-10931901125<br>DA-075-35000CF1125PXXX*  | E136 (1)<br>20251103648                   | M33x1.5<br>10945700100                      | ELM 0.75-350/00/CF*<br>10931901125  |                     |

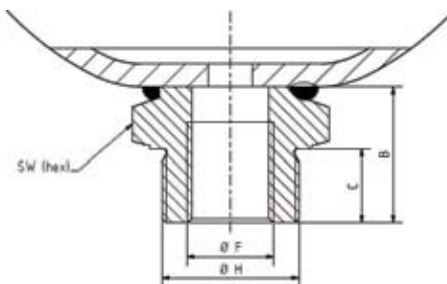
(2) For other fluids consult Parker

\* According to Article 4.3 PED 2014/68/EU

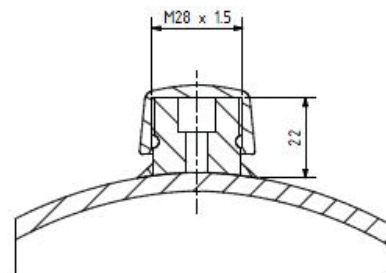
Form A/ Form B



Form C/ Form D

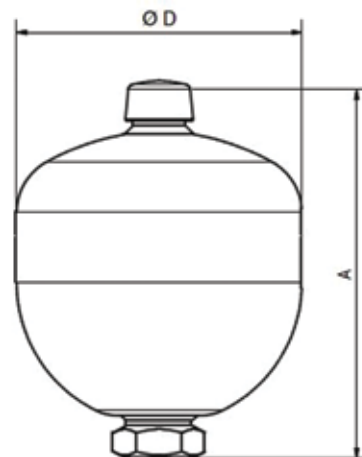
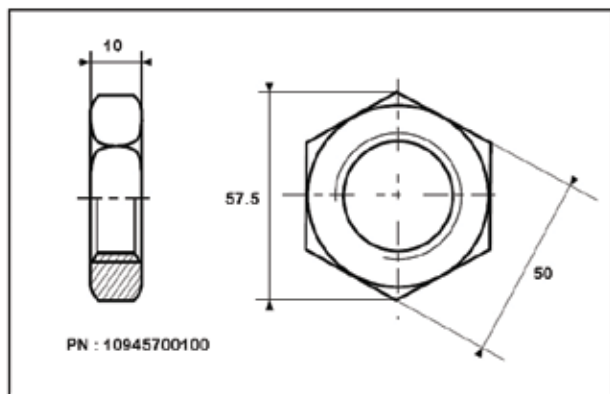


Gas Valve



| Type                         | Effective Gas vol.<br>Litres | Max. Work-<br>ing pressure<br>(PS)<br>bar | Temp.<br>Min/ Max<br>(°C) | Max.<br>Pre-charge<br>bar | Max com-<br>pression<br>in bar ratio<br>P2/P0 | Max Pressure<br>amplitude<br>P2-P1 | Weight<br>kg | Dimensions in mm   |    |    |    |     |    | Oilport |         |
|------------------------------|------------------------------|-------------------------------------------|---------------------------|---------------------------|-----------------------------------------------|------------------------------------|--------------|--------------------|----|----|----|-----|----|---------|---------|
|                              |                              |                                           |                           |                           |                                               |                                    |              | A<br>max<br>Height | B  | C  | SW | D   | G  | F       | H       |
| DA-0.075L-250BAR-10849201125 | 0.075                        | 250                                       | -10/+80                   | 130                       | 8                                             | 210                                | 0.7          | 112                | 20 |    | 32 | 64  | 29 | G½      | -       |
| DA-0.16L-250BAR-10849301125  | 0.16                         | 250                                       | -10/+80                   | 130                       | 6                                             | 210                                | 1            | 120                | 20 |    | 32 | 75  | 29 | G½      | -       |
| DA-0.32L-210BAR-10986601125  | 0.32                         | 210                                       | -10/+80                   | 130                       | 8                                             | 140                                | 1.4          | 135                | 20 |    | 32 | 92  | 29 | G½      | -       |
| DA-0.50L-210BAR-10849501125  | 0.5                          | 210                                       | -20/+80                   | 130                       | 8                                             | 175                                | 2            | 153                | 22 |    | 41 | 107 | 34 | G½      | -       |
| DA-0.50L-210BAR-10849601125  | 0.5                          | 210                                       | -20/+80                   | 130                       | 8                                             | 175                                | 2            | 164                | 33 | 18 | 41 | 107 | -  | G½      | M33x1.5 |
| DA-0.75L-210BAR-10849701125  | 0.75                         | 210                                       | -20/+80                   | 130                       | 8                                             | 175                                | 2.6          | 167                | 22 |    | 41 | 122 | 34 | G½      | -       |
| DA-0.75L-210BAR-10849801125  | 0.75                         | 210                                       | -20/+80                   | 130                       | 8                                             | 175                                | 2.6          | 178                | 33 | 18 | 41 | 122 | -  | G½      | M33x1.5 |
| DA-0.75L-350BAR-10931801125  | 0.75                         | 350                                       | -20/+80                   | 130                       | 8                                             | 150                                | 4            | 174                | 22 |    | 41 | 128 | 34 | G½      | -       |
| DA-0.75L-350BAR-10931901125  | 0.75                         | 350                                       | -20/+80                   | 130                       | 8                                             | 150                                | 4            | 185                | 33 | 18 | 41 | 128 | -  | G½      | M33x1.5 |

Lock-nut



# DA Series 140 - 350 BAR, 1 to 1.4 Litres

NBR rubber mix (previous known as ELM range)

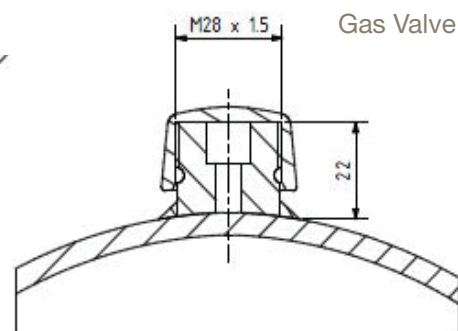
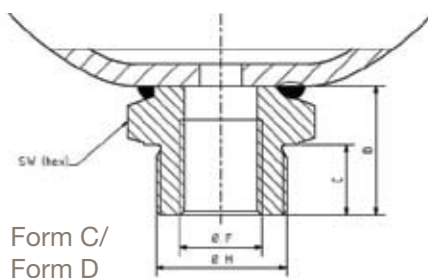
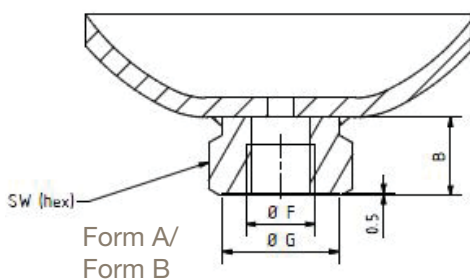
Standard Version (Carbon steel /mix NBR) compatible with mineral oils (2)  
According to PED 2014/68/EU

E-configurable product  
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| Type<br>Part number                                    | Clamps<br>Model (quantity)<br>Part number | Lock nut<br>Model (quantity)<br>Part number | Cross Reference OLAER            | Cross Reference ADE |
|--------------------------------------------------------|-------------------------------------------|---------------------------------------------|----------------------------------|---------------------|
| DA-1.00L-210BAR-10984701125<br>DA-100-21000AF1125PXXX* | E136 (1)<br>20251103648                   | -                                           | ELM 1-210/00/AF*<br>10984701125  | ADE100-21R1A2       |
| DA-1.00L-210BAR-10984801125<br>DA-100-21000CF1125PXXX* | E136 (1)<br>20251103648                   | M33x1.5<br>10945700100                      | ELM 1-210/00/CF*<br>10984801125  |                     |
| DA-1.00L-350BAR-11110901125<br>DA-100-35000AF1125PXXX* | E136 (1)<br>20251103648                   | -                                           | ELM 1-350/00/AF*<br>11110901125  |                     |
| DA-1.00L-350BAR-11111001125<br>DA-100-35000CF1125PXXX* | E136 (1)<br>20251103648                   | M33x1.5<br>10945700100                      | ELM 1-350/00/CF*<br>1111101125   |                     |
| DA-1.40L-140BAR-10850201125<br>DA-140-14090AF1125PXXX  | E155 (1)<br>20251203648                   | -                                           | ELM 1.4-140/90/AF<br>10850201125 | ADE140-14R1C2       |
| DA-1.40L-140BAR-10850301125<br>DA-140-14090CF1125PXXX  | E155 (1)<br>20251203648                   | M33x1.5<br>10945700100                      | ELM 1.4-140/90/CF<br>10850301125 |                     |
| DA-1.40L-210BAR-10996501125<br>DA-140-21090AF1125PXXX  | E155 (1)<br>20251203648                   | -                                           | ELM 1.4-210/90/AF<br>10996501125 |                     |
| DA-1.40L-210BAR-10996601125<br>DA-140-21090CF1125PXXX  | E155 (1)<br>20251203648                   | M33x1.5<br>10945700100                      | ELM 1.4-210/90/CF<br>10996601125 |                     |
| DA-1.40L-250BAR-11013201125<br>DA-140-25090AF1125PXXX  | E155 (1)<br>20251203648                   | -                                           | ELM 1.4-250/90/AF<br>11013201125 | ADE140-25R1C2       |
| DA-1.40L-250BAR-11013301125<br>DA-140-25090CF1125PXXX  | E155 (1)<br>20251203648                   | M33x1.5<br>10945700100                      | ELM 1.4-250/90/CF<br>11013301125 |                     |
| DA-1.40L-350BAR-10932101125<br>DA-140-35090AF1125PXXX  | E160 (1)<br>20259003648                   | -                                           | ELM 1.4-350/90/AF<br>10932101125 |                     |
| DA-1.40L-350BAR-10932201125<br>DA-140-35090CF1125PXXX  | E160 (1)<br>20259003648                   | M33x1.5<br>10945700100                      | ELM 1.4-350/90/CF<br>10932201125 |                     |

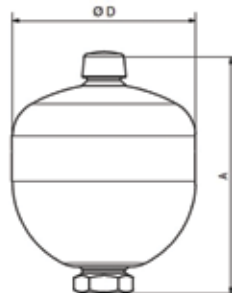
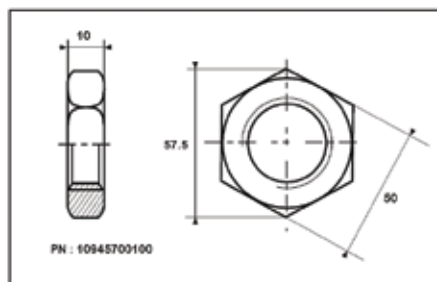
(2) For other fluids consult Parker

\* According to Article 4.3 PED 2014/68/EU



| Type                        | Effective Gas vol. Litres | Max. Working pressure (PS) bar | Temp. Min/Max (°C) | Max. Pre-charge bar | Max compression in bar ratio P2/P0 | Max Pressure amplitude P2-P1 | Weight kg | Dimensions in mm |    |    |    |     |    | Oilport |         |
|-----------------------------|---------------------------|--------------------------------|--------------------|---------------------|------------------------------------|------------------------------|-----------|------------------|----|----|----|-----|----|---------|---------|
|                             |                           |                                |                    |                     |                                    |                              |           | A max Height     | B  | C  | SW | D   | G  | F       | H       |
| DA-1.00L-210BAR-10984701125 | 1                         | 210                            | -20/+80            | 130                 | 8                                  | 170                          | 3.5       | 182              | 22 |    | 41 | 136 | 34 | G½      | -       |
| DA-1.00L-210BAR-10984801125 | 1                         | 210                            | -20/+80            | 130                 | 8                                  | 170                          | 3.5       | 192              | 33 | 18 | 41 | 136 | -  | G½      | M33x1.5 |
| DA-1.00L-350BAR-11110901125 | 1                         | 350                            | -10/+80            | 130                 | 8                                  | 150                          | 5         | 200              | 22 |    | 41 | 129 | 34 | G½      | -       |
| DA-1.00L-350BAR-11111001125 | 1                         | 350                            | -10/+80            | 130                 | 8                                  | 150                          | 5         | 211              | 33 | 18 | 41 | 129 |    | G½      | M33x2   |
| DA-1.40L-140BAR-10850201125 | 1.4                       | 140                            | -20/+80            | 130                 | 8                                  | 120                          | 4.2       | 192              | 22 |    | 41 | 147 | 34 | G½      | -       |
| DA-1.40L-140BAR-10850301125 | 1.4                       | 140                            | -20/+80            | 130                 | 8                                  | 120                          | 4.2       | 203              | 33 | 18 | 41 | 147 | -  | G½      | M33x1.5 |
| DA-1.40L-210BAR-10996501125 | 1.4                       | 210                            | -20/+80            | 130                 | 8                                  | 120                          | 4.2       | 192              | 22 |    | 41 | 148 | 34 | G½      | -       |
| DA-1.40L-210BAR-10996601125 | 1.4                       | 210                            | -20/+80            | 130                 | 8                                  | 120                          | 4.2       | 203              | 33 | 18 | 41 | 148 | -  | G½      | M33x1.5 |
| DA-1.40L-250BAR-11013201125 | 1.4                       | 250                            | -20/+80            | 130                 | 8                                  | 140                          | 5.4       | 196              | 22 |    | 41 | 152 | 34 | G½      |         |
| DA-1.40L-250BAR-11013301125 | 1.4                       | 250                            | -20/+80            | 130                 | 8                                  | 140                          | 6         | 207              | 33 | 18 | 41 | 152 | -  | G½      | M33x1.5 |
| DA-1.40L-350BAR-10932101125 | 1.4                       | 350                            | -20/+80            | 130                 | 8                                  | 150                          | 7         | 199              | 22 |    | 41 | 156 | 34 | G½      |         |
| DA-1.40L-350BAR-10932201125 | 1.4                       | 350                            | -20/+80            | 130                 | 8                                  | 150                          | 7         | 221              | 44 | 18 | 44 | 156 | -  | G½      | M33x1.5 |

Lock-nut



# DA Series 140 - 350 BAR, 2 to 3.5 Litres

**NBR rubber mix (previous known as ELM range)**

Standard Version (Carbon steel /mix NBR) compatible with mineral oils (2)

According to PED 2014/68/EU

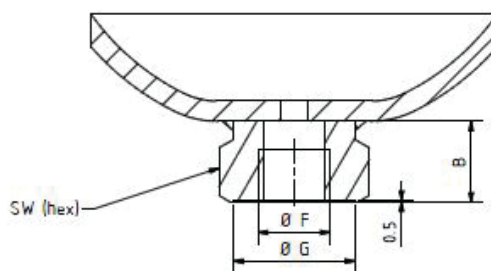
Product, Part numbers, Accessories

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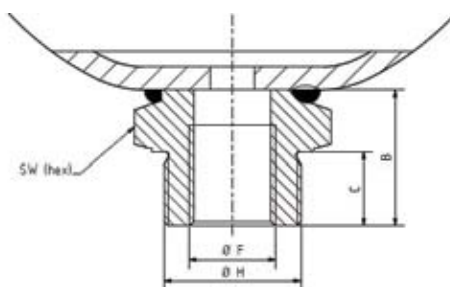
| Type<br>Part number                                   | Clamps<br>Model (quantity)<br>Part number | Lock nut<br>Model (quantity)<br>Part number | Cross Reference OLAER            | Cross Reference ADE |
|-------------------------------------------------------|-------------------------------------------|---------------------------------------------|----------------------------------|---------------------|
| DA-2.00L-100BAR-10850401125<br>DA-200-10090AF1125PXXX | E155 (1)<br>20251203648                   | -                                           | ELM 2-100/90/AF<br>10850401125   |                     |
| DA-2.00L-250BAR-11013401125<br>DA-200-25090BF1125PXXX | E155 (1)<br>20251203648                   | -                                           | ELM 2-250/90/AF<br>11013401125   |                     |
| DA-2.00L-350BAR-11006001125<br>DA-200-35090BF1125PXXX | E160 (1)<br>20259003648                   | -                                           | ELM 2-350/90/AF<br>11006001125   |                     |
| DA-2.00L-350BAR-11006101125<br>DA-200-35090DF1125PXXX | E160 (1)<br>20259003648                   | M45X1.5                                     | ELM 2-350/90/CF<br>11006101125   |                     |
| DA-2.80L-250BAR-10887901125<br>DA-280-25090BF1125PXXX | E168 (1)<br>20251303648                   | -                                           | ELM 2.8-250/90/AF<br>10887901125 | ADE280-25R1C2       |
| DA-2.80L-350BAR-10975801125<br>DA-280-35090BF1125PXXX | E180 (1)<br>20243203625                   | -                                           | ELM 2.8-350/90/AF<br>10975801125 |                     |
| DA-2.80L-350BAR-10975901125<br>DA-280-35090DF1125PXXX | E180 (1)<br>20243203625                   | M45X1.5                                     | ELM 2.8-350/90/CF<br>10975901125 |                     |
| DA-3.00L-250BAR-10850501125<br>DA-350-25090BF1125PXXX | E168 (1)<br>20251303648                   | -                                           | ELM 3.5-250/90/AF<br>10850501125 | ADE350-25R1C2       |
| MBSP 3,5-350<br>350-1315-032-711                      | E180 (1)<br>20243203625                   | -                                           | ELM 3.5-350/90/AF<br>10984901125 |                     |
| MBSP 3,5-350<br>350-1315-022-711                      | E180 (1)<br>20243203625                   | M45X1.5                                     | ELM 3.5-350/90/CF<br>10985001125 |                     |

(2) For other fluids consult Parker

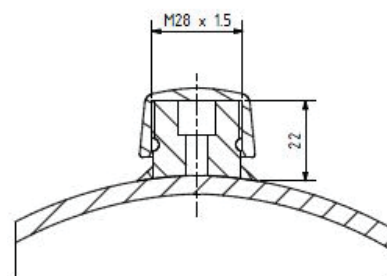
Form A/ Form B



Form C/ Form D

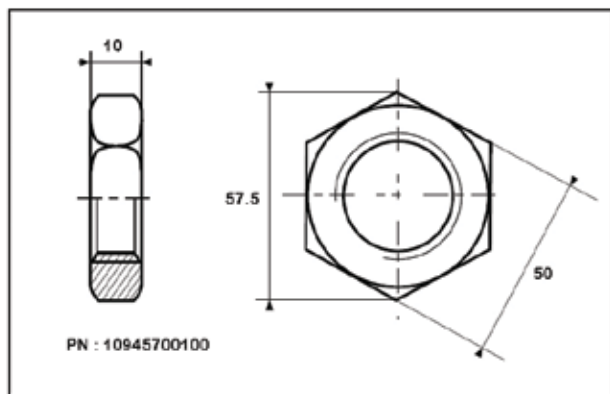


Gas Valve

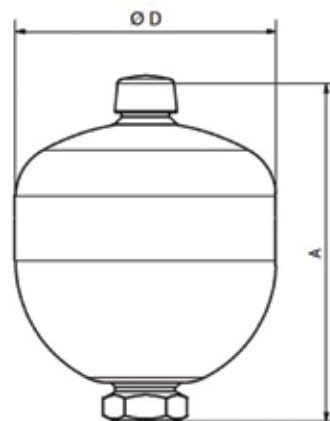


| Type<br>Part number         | Effective<br>Gas vol.<br>Litres | Max.<br>Working<br>pressure<br>(PS)<br>bar | Temp.<br>Min/<br>Max<br>(°C) | Max.<br>Pre-charge<br>bar | Max compres-<br>sion in bar<br>ratio P2/P0 | Max<br>Pressure<br>amplitude<br>P2-P1 | Weight<br>kg | Dimensions in mm   |    |    |    |     |    | Oilport |         |
|-----------------------------|---------------------------------|--------------------------------------------|------------------------------|---------------------------|--------------------------------------------|---------------------------------------|--------------|--------------------|----|----|----|-----|----|---------|---------|
|                             |                                 |                                            |                              |                           |                                            |                                       |              | A<br>max<br>Height | B  | C  | SW | D   | G  | F       | H       |
| DA-2.00L-100BAR-10850401125 | 2                               | 100                                        | -10/+80                      | 100                       | 8                                          | 80                                    | 3.5          | 241                | 22 |    | 41 | 145 | 34 | G½      |         |
| DA-2.00L-250BAR-11013401125 | 2                               | 250                                        | -10/+80                      | 130                       | 8                                          | 150                                   | 9.5          | 252                | 22 |    | 41 | 156 | 33 | G3/4    |         |
| DA-2.00L-350BAR-11006001125 | 2                               | 350                                        | -10/+80                      | 130                       | 8                                          | 150                                   | 9.5          | 252                | 22 |    | 41 | 156 | 33 | G3/4    |         |
| DA-2.00L-350BAR-11006101125 | 2                               | 350                                        | -10/+80                      | 130                       | 8                                          | 150                                   | 9.5          | 270                | 40 | 20 | 50 | 156 | -  | G3/4    | M45x1.5 |
| DA-2.80L-250BAR-10887901125 | 2.8                             | 250                                        | -10/+80                      | 130                       | 6                                          | 140                                   | 8.5          | 269                | 20 |    | 41 | 168 | 33 | G3/4    |         |
| DA-2.80L-350BAR-10975801125 | 2.8                             | 350                                        | -10/+80                      | 130                       | 6                                          | 200                                   | 14.3         | 265                | 23 |    | 55 | 180 | 34 | G3/4    |         |
| DA-2.80L-350BAR-10975901125 | 2.8                             | 350                                        | -10/+80                      | 130                       | 6                                          | 200                                   | 14.5         | 286                | 21 | 20 | 55 | 180 | -  | G3/4    | M45x1.5 |
| DA-3.00L-250BAR-10850501125 | 3.5                             | 250                                        | -10/+80                      | 130                       | 4                                          | 100                                   | 10.2         | 314                | 20 |    | 41 | 168 | 33 | G3/4    |         |
| MBSP 3,5-350                | 3.5                             | 350                                        | -10/+80                      | 130                       | 4                                          | 200                                   | 16           | 305                | 23 |    | 55 | 180 | 34 | G3/4    |         |
| MBSP 3,5-350                | 3.5                             | 350                                        | -10/+80                      | 130                       | 4                                          | 200                                   | 16.5         | 326                | 26 | 20 | 55 | 180 | -  | G3/4    | M45x1.5 |

Lock-nut



Above



# DA Series 140 - 350 BAR, 0.075 to 0.75 Litres

## ECO rubber mix (previous known as ELM range)

Standard Version (Carbon steel /mix ECO) compatible with mineral oils (2)  
According to PED 2014/68/EU.

Product, Part numbers, Accessories

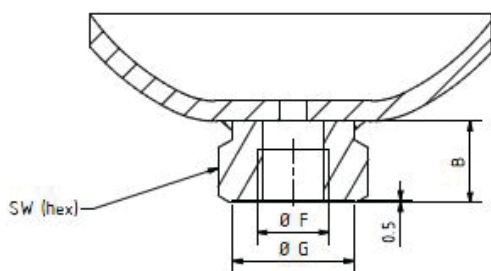
E-configurable product  
visit [Parker.com/acde](http://Parker.com/acde)

| Type<br>Part number                                     | Clamps<br>Model (quantity)<br>Part number | Lock nut<br>Model (quantity)<br>Part number | Cross Reference OLAER               | Cross Reference ADE |
|---------------------------------------------------------|-------------------------------------------|---------------------------------------------|-------------------------------------|---------------------|
| DA-0.075L-250BAR-10849201102<br>DA-007-25000AF1102PXXX* | -                                         | -                                           | ELM 0.075-250/00/AF*<br>10849201102 | ADE007-25R9A2       |
| DA-0.16L-250BAR-10849301102<br>DA-016-25000AF1102PXXX*  | -                                         | -                                           | ELM 0.16-250/00/AF*<br>10849301102  | ADE016-25R9A2       |
| DA-0.32L-210BAR-10986601102<br>DA-032-21000AF1102PXXX*  | E95 (1)<br>20250803648                    | -                                           | ELM 0.32-210/00/AF*<br>10986601102  | ADE032-21R9A2       |
| DA-0.50L-210BAR-10849501102<br>DA-050-21000AF1102PXXX*  | E106 (1)<br>20250903648                   | -                                           | ELM 0.5-210/00/AF*<br>10849501102   | ADE050-21R9A2       |
| DA-0.50L-210BAR-10849601102<br>DA-050-21000CF1102PXXX*  | E106 (1)<br>20250903648                   | M33x1.5<br>10945700100                      | ELM 0.5-210/00/CF*<br>10849601102   |                     |
| DA-0.75L-210BAR-10849701102<br>DA-075-21000AF1102PXXX*  | E114 (1)<br>20251003648                   | -                                           | ELM 0.75-210/00/AF*<br>10849701102  | ADE075-21R9A2       |
| DA-0.75L-210BAR-10849801102<br>DA-075-21000CF1102PXXX*  | E114 (1)<br>20251003648                   | M33x1.5<br>10945700100                      | ELM 0.75-210/00/CF*<br>10849801102  |                     |
| DA-0.75L-350BAR-10931801102<br>DA-075-35000AF1102PXXX*  | E136 (1)<br>20251103648                   | -                                           | ELM 0.75-350/00/AF*<br>10931801102  |                     |
| DA-0.75L-350BAR-10931901102<br>DA-075-35000CF1102PXXX*  | E136 (1)<br>20251103648                   | M33x1.5<br>10945700100                      | ELM 0.75-350/00/CF*<br>10931901102  |                     |

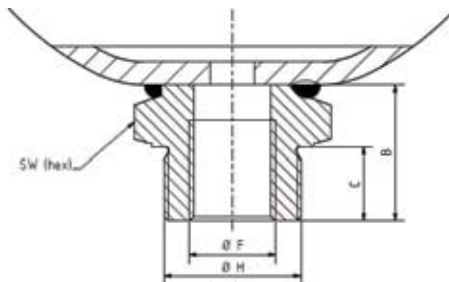
(2) For other fluids consult Parker

\* According to Article 4.3 PED 2014/68/EU

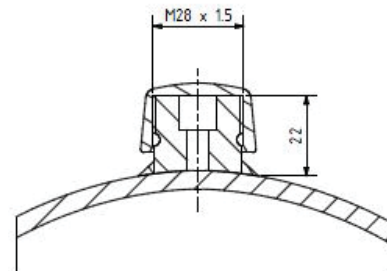
Form A/ Form B



Form C/ Form D

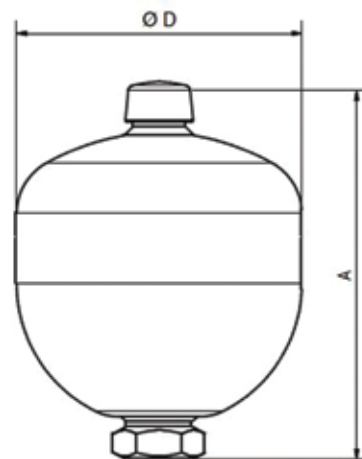
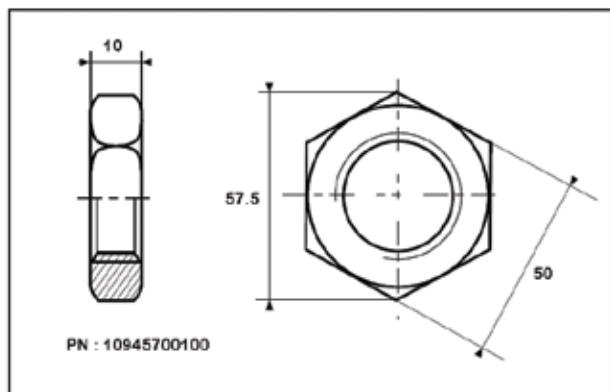


Gas Valve



| Type<br>Part number          | Effective<br>Gas vol.<br>Litres | Max.<br>Working<br>pressure<br>(PS)<br>bar | Temp.<br>Min/<br>Max<br>(°C) | Max.<br>Pre-charge<br>bar | Max compres-<br>sion in bar<br>ratio P2/P0 | Max<br>Pressure<br>amplitude<br>P2-P1 | Weight<br>kg | Dimensions in mm   |    |    |    |     |    | Oilport |         |
|------------------------------|---------------------------------|--------------------------------------------|------------------------------|---------------------------|--------------------------------------------|---------------------------------------|--------------|--------------------|----|----|----|-----|----|---------|---------|
|                              |                                 |                                            |                              |                           |                                            |                                       |              | A<br>max<br>Height | B  | C  | SW | D   | G  | F       | H       |
| DA-0.075L-250BAR-10849201102 | 0.075                           | 250                                        | -10/+80                      | 130                       | 8                                          | 210                                   | 0.7          | 112                | 20 |    | 32 | 64  | 29 | G½      | -       |
| DA-0.16L-250BAR-10849301102  | 0.16                            | 250                                        | -10/+80                      | 130                       | 6                                          | 210                                   | 1            | 120                | 20 |    | 32 | 75  | 29 | G½      | -       |
| DA-0.32L-210BAR-10986601102  | 0.32                            | 210                                        | -10/+80                      | 130                       | 8                                          | 140                                   | 1.4          | 135                | 20 |    | 32 | 92  | 29 | G½      | -       |
| DA-0.50L-210BAR-10849501102  | 0.5                             | 210                                        | -20/+80                      | 130                       | 8                                          | 175                                   | 2            | 153                | 22 |    | 41 | 107 | 34 | G½      | -       |
| DA-0.50L-210BAR-10849601102  | 0.5                             | 210                                        | -20/+80                      | 130                       | 8                                          | 175                                   | 2            | 164                | 33 | 18 | 41 | 107 | -  | G½      | M33x1.5 |
| DA-0.75L-210BAR-10849701102  | 0.75                            | 210                                        | -20/+80                      | 130                       | 8                                          | 175                                   | 2.6          | 167                | 22 |    | 41 | 122 | 34 | G½      | -       |
| DA-0.75L-210BAR-10849801102  | 0.75                            | 210                                        | -20/+80                      | 130                       | 8                                          | 175                                   | 2.6          | 178                | 33 | 18 | 41 | 122 | -  | G½      | M33x1.5 |
| DA-0.75L-350BAR-10931801102  | 0.75                            | 350                                        | -20/+80                      | 130                       | 8                                          | 150                                   | 4            | 174                | 22 |    | 41 | 128 | 34 | G½      | -       |
| DA-0.75L-350BAR-10931901102  | 0.75                            | 350                                        | -20/+80                      | 130                       | 8                                          | 150                                   | 4            | 185                | 33 | 18 | 41 | 128 | -  | G½      | M33x1.5 |

Lock-nut



# DA Series 140 - 350 BAR, 1 to 1.4 Litres

**ECO rubber mix (previous known as ELM range)**

Standard Version (Carbon steel /mix **ECO**) compatible with mineral oils (2)  
According to PED 2014/68/EU.

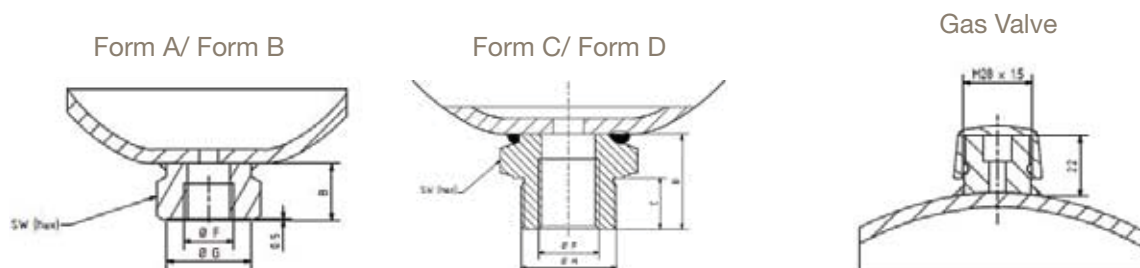
Product, Part numbers, Accessories

**E-configurable product**  
visit [Parker.com/acde](http://Parker.com/acde)

| Type<br>Part number                                    | Clamps<br>Model (quantity)<br>Part number | Lock nut<br>Model (quantity)<br>Part number | Cross Reference OLAER            | Cross Reference ADE |
|--------------------------------------------------------|-------------------------------------------|---------------------------------------------|----------------------------------|---------------------|
| DA-1.00L-210BAR-10984701102<br>DA-100-21000AF1102PXXX* | E136 (1)<br>20251103648                   | -                                           | ELM 1-210/00/AF*<br>10984701102  | ADE100-21R9A2       |
| DA-1.00L-210BAR-10984801102<br>DA-100-21000CF1102PXXX* | E136 (1)<br>20251103648                   | M33x1.5<br>10945700100                      | ELM 1-210/00/CF*<br>10984801102  |                     |
| DA-1.00L-350BAR-11110901102<br>DA-100-35000AF1102PXXX* | E136 (1)<br>20251103648                   | -                                           | ELM 1-350/00/AF*<br>11110901102  |                     |
| DA-1.00L-350BAR-11111001102<br>DA-100-35000CF1102PXXX* | E136 (1)<br>20251103648                   | M33x1.5<br>10945700100                      | ELM 1-350/00/CF*<br>11111001102  |                     |
| DA-1.40L-140BAR-10850201102<br>DA-140-14090AF1102PXXX  | E155 (1)<br>20251203648                   | -                                           | ELM 1.4-140/90/AF<br>10850201102 | ADE140-14R9C2       |
| DA-1.40L-140BAR-10850301102<br>DA-140-14090CF1102PXXX  | E155 (1)<br>20251203648                   | M33x1.5<br>10945700100                      | ELM 1.4-140/90/CF<br>10850301102 |                     |
| DA-1.40L-210BAR-10996501102<br>DA-140-21090AF1102PXXX  | E155 (1)<br>20251203648                   | -                                           | ELM 1.4-210/90/AF<br>10996501102 |                     |
| DA-1.40L-210BAR-10996601102<br>DA-140-21090CF1102PXXX  | E155 (1)<br>20251203648                   | M33x1.5<br>10945700100                      | ELM 1.4-210/90/CF<br>10996601102 |                     |
| DA-1.40L-250BAR-11013201102<br>DA-140-25090AF1102PXXX  | E155 (1)<br>20251203648                   | -                                           | ELM 1.4-250/90/AF<br>11013201102 | ADE140-25R9C2       |
| DA-1.40L-250BAR-11013301102<br>DA-140-25090CF1102PXXX  | E155 (1)<br>20251203648                   | M33x1.5<br>10945700100                      | ELM 1.4-250/90/CF<br>11013301102 |                     |
| DA-1.40L-350BAR-10932101102<br>DA-140-35090AF1102PXXX  | E160 (1)<br>20259003648                   | -                                           | ELM 1.4-350/90/AF<br>10932101102 |                     |
| DA-1.40L-350BAR-10932201102<br>DA-140-35090CF1102PXXX  | E160 (1)<br>20259003648                   | M33x1.5<br>10945700100                      | ELM 1.4-350/90/CF<br>10932201102 |                     |

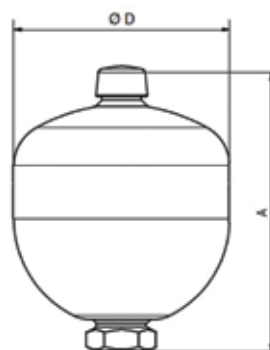
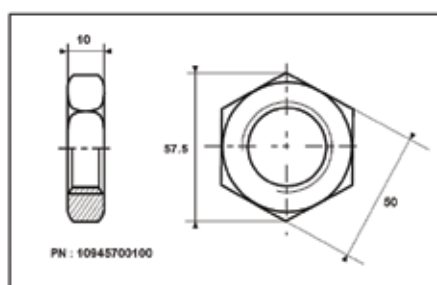
(2) For other fluids consult Parker

\* According to Article 4.3 PED 2014/68/EU



| Type<br>Part number         | Effective<br>Gas vol.<br>Litres | Max.<br>Working<br>pressure<br>(PS)<br>bar | Temp.<br>Min/<br>Max<br>(°C) | Max.<br>Pre-charge<br>bar | Max com-<br>pression<br>in bar ratio<br>P2/P0 | Max<br>Pressure<br>amplitude<br>P2-P1 | Weight<br>kg | Dimensions in mm   |    |    |    |     |    | Oilport |         |
|-----------------------------|---------------------------------|--------------------------------------------|------------------------------|---------------------------|-----------------------------------------------|---------------------------------------|--------------|--------------------|----|----|----|-----|----|---------|---------|
|                             |                                 |                                            |                              |                           |                                               |                                       |              | A<br>max<br>Height | B  | C  | SW | D   | G  | F       | H       |
| DA-1.00L-210BAR-10984701102 | 1                               | 210                                        | -20/+80                      | 130                       | 8                                             | 170                                   | 4            | 182                | 22 |    | 41 | 136 | 34 | G½      | -       |
| DA-1.00L-210BAR-10984801102 | 1                               | 210                                        | -20/+80                      | 130                       | 8                                             | 170                                   | 4            | 192                | 33 | 18 | 41 | 136 | -  | G½      | M33x1.5 |
| DA-1.00L-350BAR-11110901102 | 1                               | 350                                        | -10/+80                      | 130                       | 8                                             | 150                                   | 5            | 200                | 22 |    | 41 | 129 | 34 | G½      | -       |
| DA-1.00L-350BAR-11111001102 | 1                               | 350                                        | -10/+80                      | 130                       | 8                                             | 150                                   | 5            | 211                | 33 | 18 | 41 | 129 |    | G½      | M33x2   |
| DA-1.40L-140BAR-10850201102 | 1                               | 140                                        | -20/+80                      | 130                       | 8                                             | 120                                   | 4            | 192                | 22 |    | 41 | 147 | 34 | G½      | -       |
| DA-1.40L-140BAR-10850301102 | 1                               | 140                                        | -20/+80                      | 130                       | 8                                             | 120                                   | 4            | 203                | 33 | 18 | 41 | 147 | -  | G½      | M33x1.5 |
| DA-1.40L-210BAR-10996501102 | 1                               | 210                                        | -20/+80                      | 130                       | 8                                             | 120                                   | 4            | 192                | 22 |    | 41 | 148 | 34 | G½      | -       |
| DA-1.40L-210BAR-10996601102 | 1                               | 210                                        | -20/+80                      | 130                       | 8                                             | 120                                   | 4            | 203                | 33 | 18 | 41 | 148 | -  | G½      | M33x1.5 |
| DA-1.40L-250BAR-11013201102 | 1                               | 250                                        | -20/+80                      | 130                       | 8                                             | 140                                   | 5            | 196                | 22 |    | 41 | 152 | 34 | G½      |         |
| DA-1.40L-250BAR-11013301102 | 1                               | 250                                        | -20/+80                      | 130                       | 8                                             | 140                                   | 6            | 207                | 33 | 18 | 41 | 152 | -  | G½      | M33x1.5 |
| DA-1.40L-350BAR-10932101102 | 1                               | 350                                        | -20/+80                      | 130                       | 8                                             | 150                                   | 7            | 199                | 22 |    | 41 | 156 | 34 | G½      |         |
| DA-1.40L-350BAR-10932201102 | 1                               | 350                                        | -20/+80                      | 130                       | 8                                             | 150                                   | 7            | 221                | 44 | 18 | 44 | 156 | -  | G½      | M33x1.5 |

Lock-nut



# DA Series 140 - 350 BAR, 2 to 3.5 Litres

**ECO rubber mix (previous known as ELM range)**

Standard Version (Carbon steel /mix **ECO**) compatible with mineral oils (2)  
According to PED 2014/68/EU.

Product, Part numbers, Accessories

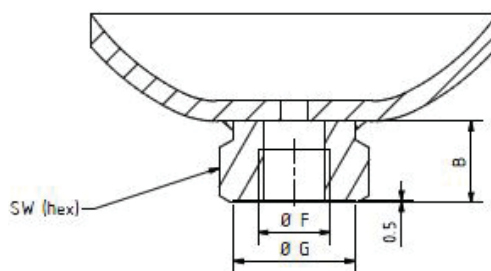
**E-configurable product**  
visit [Parker.com/acde](http://Parker.com/acde)

| Type<br>Part number                                   | Clamps<br><br>Model (quantity)<br>Part number | Lock nut<br><br>Model (quantity)<br>Part number | Cross Reference OLAER            | Cross Reference ADE |
|-------------------------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------------|---------------------|
| DA-2.00L-100BAR-10850401102<br>DA-200-10090AF1102PXXX | E155 (1)<br>20251203648                       | -                                               | ELM 2-100/90/AF<br>10850401102   |                     |
| DA-2.00L-250BAR-11013401102<br>DA-200-25090BF1102PXXX | E155 (1)<br>20251203648                       | -                                               | ELM 2-250/90/AF<br>11013401102   |                     |
| DA-2.00L-350BAR-11006001102<br>DA-200-35090BF1102PXXX | E160 (1)<br>20259003648                       | -                                               | ELM 2-350/90/AF<br>11006001102   |                     |
| DA-2.00L-350BAR-11006101102<br>DA-200-35090DF1102PXXX | E160 (1)<br>20259003648                       | M45X1.5                                         | ELM 2-350/90/CF<br>11006101102   |                     |
| DA-2.80L-250BAR-10887901102<br>DA-280-25090BF1102PXXX | E168 (1)<br>20251303648                       | -                                               | ELM 2.8-250/90/AF<br>10887901102 | ADE280-25R9C2       |
| DA-2.80L-350BAR-10975801102<br>DA-280-35090BF1102PXXX | E180 (1)<br>20243203625                       | -                                               | ELM 2.8-350/90/AF<br>10975801102 |                     |
| DA-2.80L-350BAR-10975901102<br>DA-280-35090DF1102PXXX | E180 (1)<br>20243203625                       | M45X1.5                                         | ELM 2.8-350/90/CF<br>10975901102 |                     |
| DA-3.00L-250BAR-10850501102<br>DA-350-25090BF1102PXXX | E168 (1)<br>20251303648                       | -                                               | ELM 3.5-250/90/AF<br>10850501102 | ADE350-25R9C2       |
| MBSP 3,5-350<br>350-1315-032-741                      | E180 (1)<br>20243203625                       | -                                               | ELM 3.5-350/90/AF<br>10984901102 |                     |
| MBSP 3,5-350<br>350-1315-022-741                      | E180 (1)<br>20243203625                       | M45X1.5                                         | ELM 3.5-350/90/CF<br>10985001102 |                     |

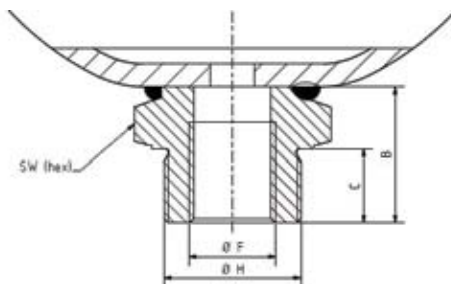
(2) For other fluids consult Parker

\* According to Article 4.3 PED 2014/68/EU

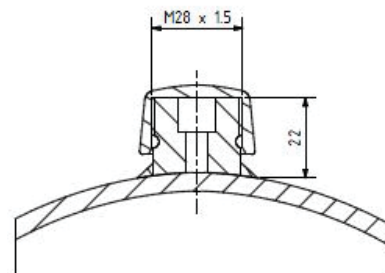
Form A/ Form B



Form C/ Form D

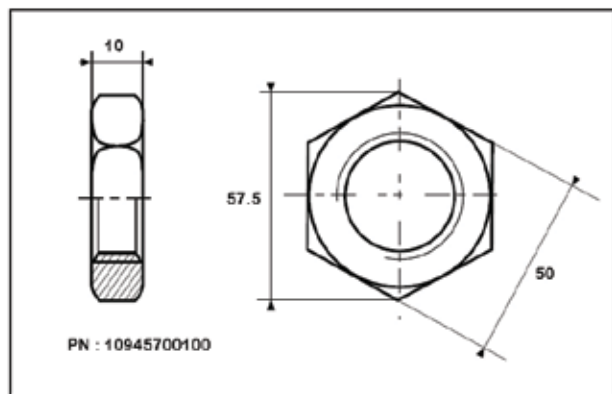


Gas Valve

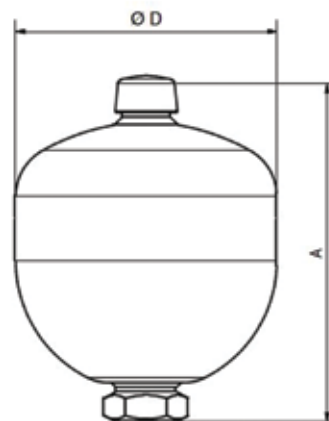


| Type<br>Part number         | Effective<br>Gas vol.<br>Litres | Max.<br>Working<br>pressure<br>(PS)<br>bar | Temp.<br>Min/<br>Max<br>(°C) | Max.<br>Pre-charge<br>bar | Max compres-<br>sion in bar<br>ratio P2/P0 | Max<br>Pressure<br>amplitude<br>P2-P1 | Weight<br>kg | Dimensions in mm   |    |    |    |     |    | Oilport |         |
|-----------------------------|---------------------------------|--------------------------------------------|------------------------------|---------------------------|--------------------------------------------|---------------------------------------|--------------|--------------------|----|----|----|-----|----|---------|---------|
|                             |                                 |                                            |                              |                           |                                            |                                       |              | A<br>max<br>Height | B  | C  | SW | D   | G  | F       | H       |
| DA-2.00L-100BAR-10850401102 | 2.0                             | 100                                        | -10/+80                      | 100                       | 8                                          | 80                                    | 3.50         | 241                | 22 |    | 41 | 145 | 34 | G½      |         |
| DA-2.00L-250BAR-11013401102 | 2.0                             | 250                                        | -10/+80                      | 130                       | 8                                          | 150                                   | 9.50         | 252                | 22 |    | 41 | 156 | 33 | G3/4    |         |
| DA-2.00L-350BAR-11006001102 | 2.0                             | 350                                        | -10/+80                      | 130                       | 8                                          | 150                                   | 9.50         | 252                | 22 |    | 41 | 156 | 33 | G3/4    |         |
| DA-2.00L-350BAR-11006101102 | 2.0                             | 350                                        | -10/+80                      | 130                       | 8                                          | 150                                   | 9.50         | 270                | 40 | 20 | 50 | 156 | -  | G3/4    | M45x1.5 |
| DA-2.80L-250BAR-10887901102 | 2.8                             | 250                                        | -10/+80                      | 130                       | 6                                          | 140                                   | 8.50         | 269                | 20 |    | 41 | 168 | 33 | G3/4    |         |
| DA-2.80L-350BAR-10975801102 | 2.8                             | 350                                        | -10/+80                      | 130                       | 6                                          | 200                                   | 14.30        | 265                | 23 |    | 55 | 180 | 34 | G3/4    |         |
| DA-2.80L-350BAR-10975901102 | 2.8                             | 350                                        | -10/+80                      | 130                       | 6                                          | 200                                   | 14.50        | 286                | 21 | 20 | 55 | 180 | -  | G3/4    | M45x1.5 |
| DA-3.00L-250BAR-10850501102 | 3.5                             | 250                                        | -10/+80                      | 130                       | 4                                          | 100                                   | 10.20        | 314                | 20 |    | 41 | 168 | 33 | G3/4    |         |
| MBSP 3,5-350                | 3.5                             | 350                                        | -10/+80                      | 130                       | 4                                          | 200                                   | 16.00        | 305                | 23 |    | 55 | 180 | 34 | G3/4    |         |
| MBSP 3,5-350                | 3.5                             | 350                                        | -10/+80                      | 130                       | 4                                          | 200                                   | 16.50        | 326                | 26 | 20 | 55 | 180 | -  | G3/4    | M45x1.5 |

Lock-nut



Above



## Notes

This image shows a full page of blank white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page, providing a template for writing or drawing. There are no margins, text, or other markings present.