



**Product Liability**

The supplier's product liability is only valid if no alterations, additions etc. have been made to the equipment without the supplier's express permission. Use only genuine parts.

**Produkthaftung**

Damit die Produkthaftung des Lieferanten ihre Gültigkeit behält, dürfen ohne ausdrückliche Genehmigung des Lieferanten keine Änderungen, Ergänzungen o. Ä. an der Ausrüstung vorgenommen werden. Verwenden Sie nur Originalteile.

**Produktansvar**

För att en leverantörs produktansvar skall gälla får ändringar, kompletteringar och liknande ej göras i utrustningen utan leverantörens godkännande. Originalreservdelar skall alltid användas.

**Ответственность поставщика**

Для сохранения ответственности нельзя вводить в оборудование изменения, дополнения и т.п. без разрешения поставщика. Пользуйтесь только оригинальными запасными частями, выпущенным изготовителем бензоколонки.

**Caution**

To prevent damage that might result in electric shock or fire, disconnect the main power prior to any work.

**Vorsicht**

Um Beschädigungen zu vermeiden, die zu einem elektrischen Schlag oder Feuer führen können, unterbrechen Sie vor jeder Arbeit die Stromzufuhr.

**Varning**

Gör pumpen/enheten strömlös innan Du gör ingrepp i den. I annat fall föreligger risk för skada.

**Осторожно**

Во избежание поражения электрическим током или пожара отключайте напряжение питания перед началом любых работ.

**Warning**

Never run a leaking pump! Be careful with the environment and mind the skidding risk; take care of leaking fuel immediately.

**Warnung**

Betreiben Sie nie eine undichte Zapfsäule! Seien Sie umweltbewusst und denken Sie an die Rutschgefahr; beseitigen Sie austretenden Kraftstoff umgehend.

**Varning**

Använd aldrig en läckande pump. Tänk på miljön och halkrisken, sanera utläckt drivmedel snarast.

**Предупреждение**

Не пользуйтесь колонкой при наличии утечки топлива! Охраняйте окружающую среду, помните об опасности скольжения: в случае утечки топлива на дорожное покрытие возле колонки, примите меры немедленно.

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# 1 Service and maintenance

Also read the "User's Manual". (list on page 89)

The supplier's product liability is only valid if no alterations, additions etc. have been made to the equipment without the supplier's express permission. Use only genuine parts. Wayne Parts Center (EPS), telephone number, see page 97.

**WARNING: Contains intrinsically safe equipment**

Consider the environment. Please don't print this document unless you really need to.

## 1.1 Separation of power supply

Separation is done by removing the main fuse of the pump on the station.

## 1.2 Electrostatic discharge (ESD)

Before service/maintenance of a pump discharging must be done. This is done when you open the covers of the pump with a key. If an extensive repair work is to be done, discharge should be done regularly by touching the key.

|  |   |
|--|---|
| <br><b>WARNING!</b> | The key must have direct contact with the skin. |
|--|---|

|  |  |
|--|--|
| <br><b>WARNING!</b> | To prevent damage which may result in electric shock or fire, disconnect the main power prior to any work. |
|--|--|

|  |  |
|--|--|
| <br><b>CAUTION!</b> | Unauthorised personnel may not execute service and maintenance. This may cause personal injury or property damage. |
|--|--|

|  |  |
|--|--|
| <br><b>CAUTION!</b> | Avoid the heat element of the electronics head, risk of skin burn. |
|--|--|

|   |  |
|---|--|
| <br><b>WARNING!</b> | Mind the rotating V-belt when the cover of the hydraulic unit is removed! (suction pump) |
|---|--|

|  |  |
|--|--|
| <br><b>WARNING!</b> | The driving belt may be replaced only by original belt from Dresser Wayne, otherwise there is a risk of explosion. |
|--|--|

|  |   |
|--|---|
| <br><b>WARNING!</b> | Use your protective equipment. (Protective mask, gloves etc.) |
|--|---|

**NOTE!**  
Avoid direct contact with electronic parts of the pump.

## **2 Product History**

### **2.1 GS phase I**

The first HH model released in 2002.

Spare parts: 461293

Spare parts VR module: 461302

Spare parts hydraulic module (GHM): 461259



### **2.2 GS phase II**

LHR was introduced and HH was changed to have the same hydraulic cabinet as LHR. Also LPG, B2B and SCR Dispenser was developed

Spare parts: 461362

### **2.3 GS phase III**

H-style was introduced and changed the complete barrier solution for the GS family

Spare parts LHR/HH: WM011948

Spare parts H: WM011950

Spare parts, electronic head: WM011946

Spare parts, LPG: WM011949

Spare parts, SCR (AdBlue®): WM011947

Spare parts, hydraulic unit: WM011952

Spare parts, VR module: WM011951



### **2.4 GS phase IV**

Change of framework, fuel tube dimension and material, vapour tube and coupling material. GS Flexi was introduced.

Unique spare parts, H, LHR, HH: WM023808

(See also phase III spare part lists)

Unique Flexi spare parts: WM022339

### **2.5 GS phase V**

A consolidation of HH and LHR to only offer one height of the hose handling module. The exterior design got a facelift to improve usability, quality appearance, fit & finish and to get a robust look. Framework and interior design have been simplified to decrease assembly time and to improve serviceability.

Spare parts: WM029611 (this document)

Retrofit PT box on Global Star V: WM033692



### 3 Models



Global Star V HH  
(GS V HH)  
(High Hose)



Global Star V HHR  
(GS V HHR)  
(High Hose Retraction)



Global Star V LPG

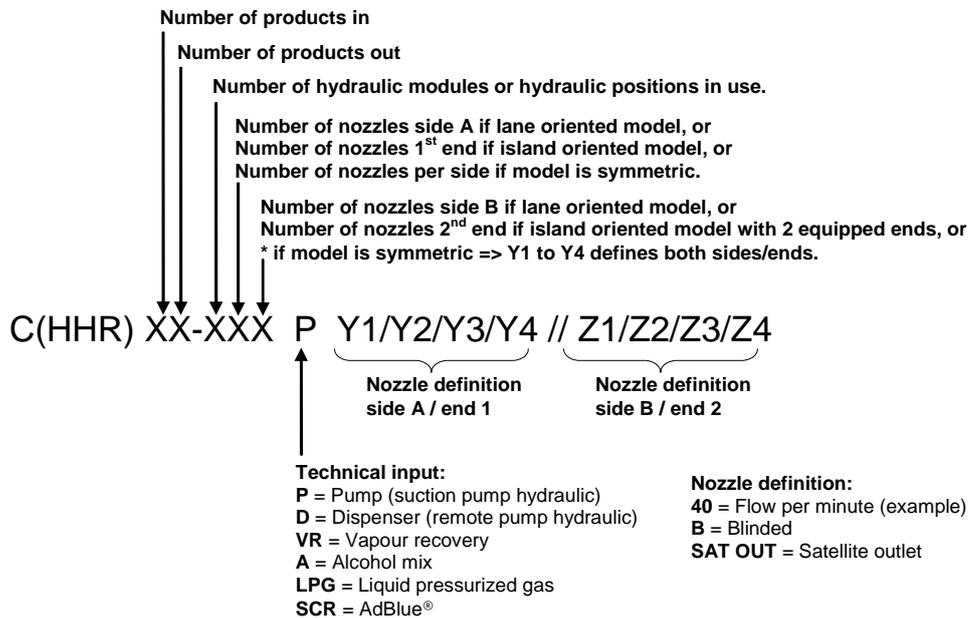


Global Star V B2B LPG



Global Star V AdBlue® (SCR)  
(AdBlue® is a registered trademark of  
Verband der Automobilindustrie e.V.)

#### 3.1 What does the denomination of the pump indicate



### 3.2 Side A / Side B



Global Star V is a C-style pump.

### 3.3 AdBlue®, DEF, SCR, urea

AdBlue®, generically known as DEF (Diesel Emission Fluid), is the registered trademark for AUS32 (32.5% urea and 67.5% demineralised water by weight).

AdBlue® is used in a process called Selective Catalytic Reduction (SCR) to reduce emissions of oxides of nitrogen from the exhaust of diesel engine motor vehicles.

The AdBlue® trademark is currently held by the German Association of the Automobile Industry (VDA), who ensure quality standards are maintained in accordance with ISO 22241 specifications.

AdBlue® is a very aggressive chemical fluid, however not flammable. Therefore it is extremely sensitive to contamination from other fluids, metals etc. The only approved testing liquid during production is distilled water that does not contaminate the urea product.

There are always distilled water remaining in valves and other fragile parts and as distilled water have a freezing point of around 0° Celsius it means that **equipment for AdBlue® has to be kept above freezing point during all phases of the transportation between the factory and to the time of installation**, when it is put into operation and primed with AdBlue.

## 4 Contents

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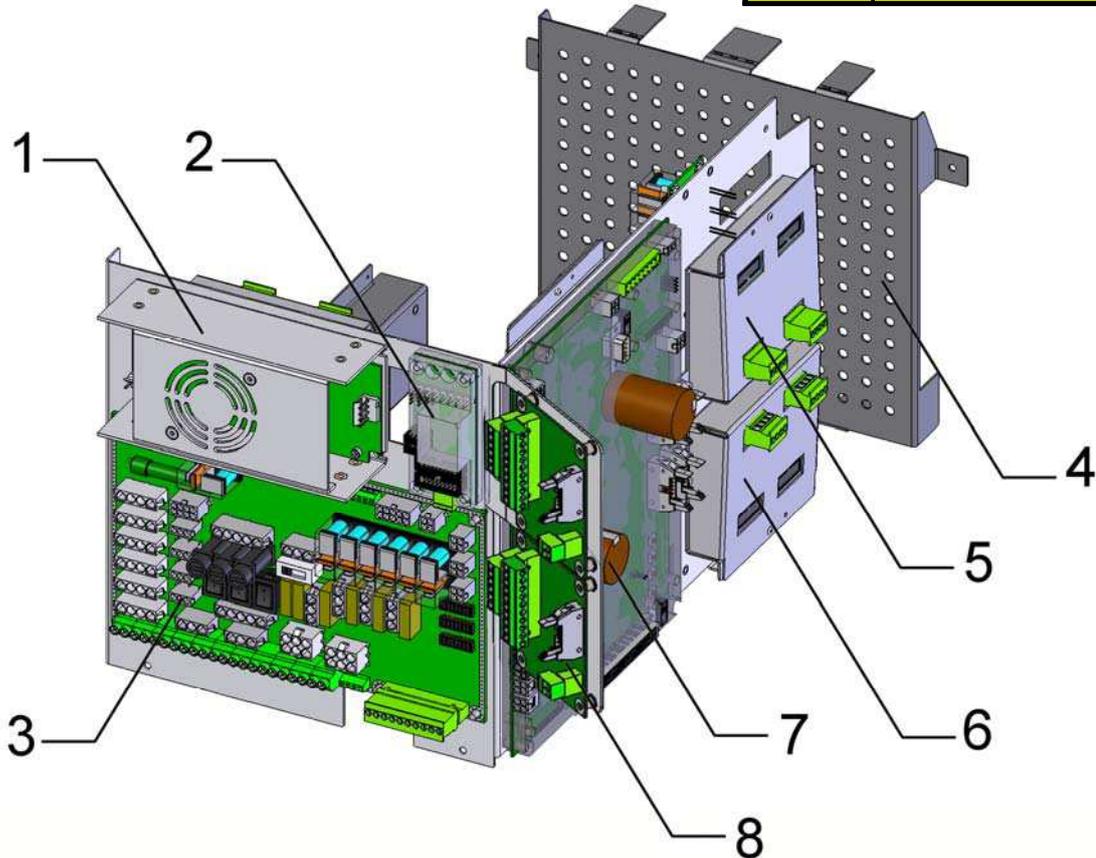
Contents - alphabetical order, see page 95

Please find connection Instructions and Installation Instructions on the ftp-server. Contact your dealer for login information.

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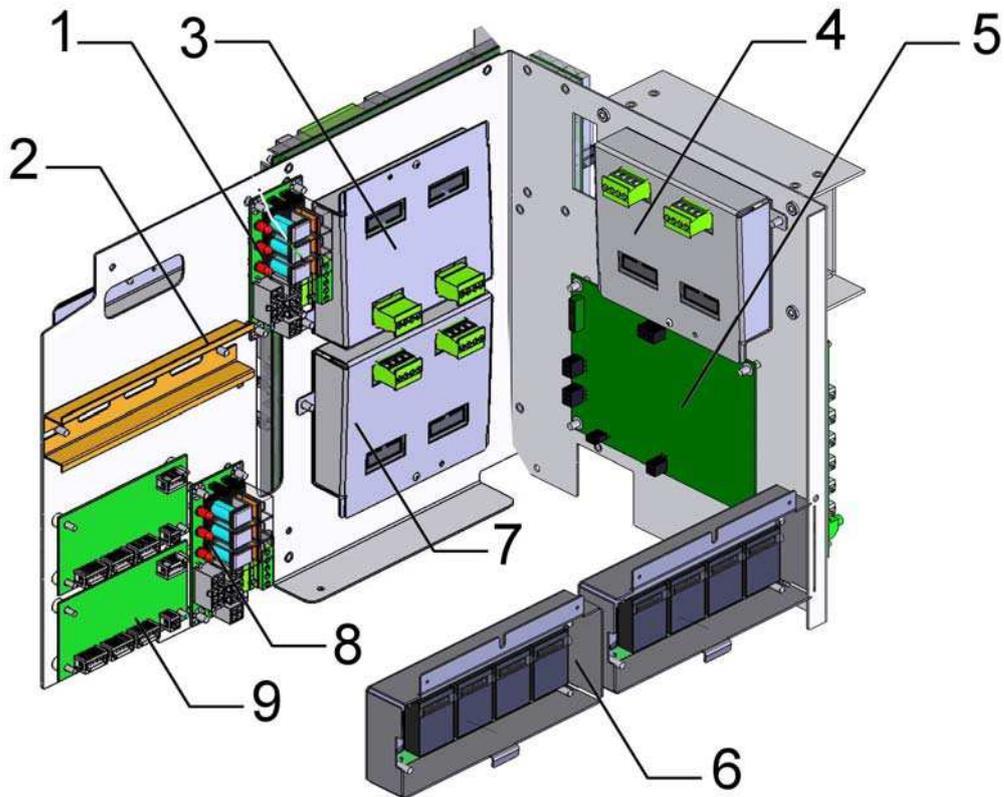
|  |   |
|--|---|
| <br><b>WARNING!</b> | Only power supply WM027313-0001 is approved for Global Star V.<br>Do not use power supplies from other pump models. |
| <br><b>WARNING!</b> | To prevent damage which may result in electric shock or fire, disconnect the main power prior to any work.          |

## 5 Electronic head

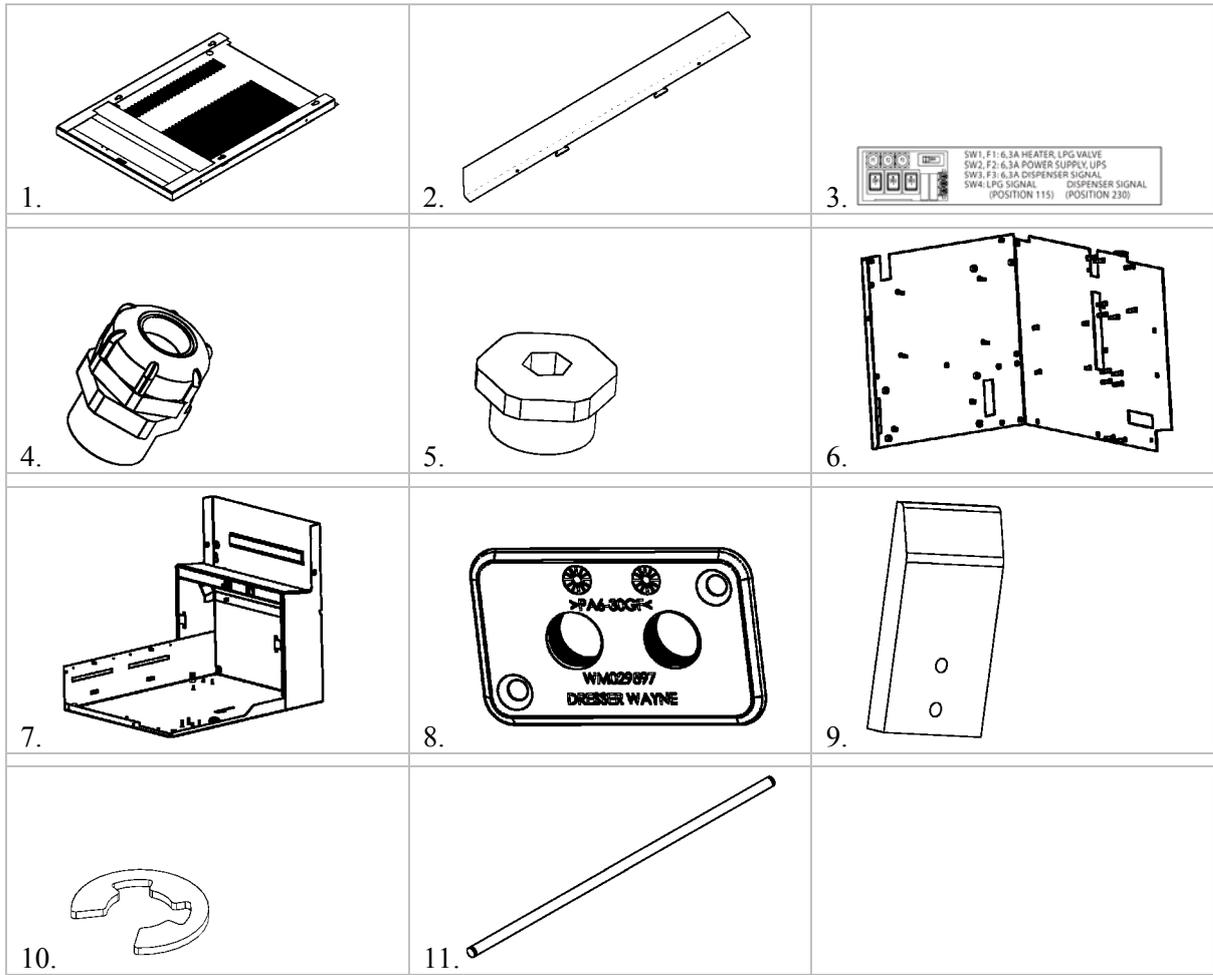


Cables, see page 91.

|   | Part number   | Description   |
|---|---------------|---|
| 1 | WM027313-0001 | Power supply 24V, 150W, UL/IEC<br><b>Note!</b> Only this power supply is approved for Global Star V.<br>Do not use power supplies from other pump models. |
| 2 | WM001827      | Communication board (serial board ATCL pump terminal)   |
| 3 |               | <b>Board power 400/230V</b>   |
|   | WM025501-0001 | Pump, suction (shown in the picture)  |
|   | WM025501-0002 | Pump, suction - full  |
|   | WM025501-0003 | Pump, dispenser, LPG, B2B   |
|   | WM025501-0004 | Pump, dispenser, LPG, B2B - full  |
|   | WM025501-0005 | Pump - full   |
| 4 | WM029907-0001 | Heating element, 340W<br>Cover heating element  |
| 5 | WM002450      | Intrinsic safe barrier (ISB)  |
| 6 | WM002450      | Intrinsic safe barrier (ISB)  |
| 7 | WM001908-0005 | iGEM CPU board, IEC full with CAN   |
|   | WM001905      | Board, VR Bürkert   |
|   | WM001825      | Board, RS422  |
|   | WM008766      | Board, IFSF   |
|   | WM004360      | Board, isolated interface   |
| 8 | WM023331-0001 | Board satellite receiver (satellite with display)   |
|   | WM033329      | Support, V-shape  |

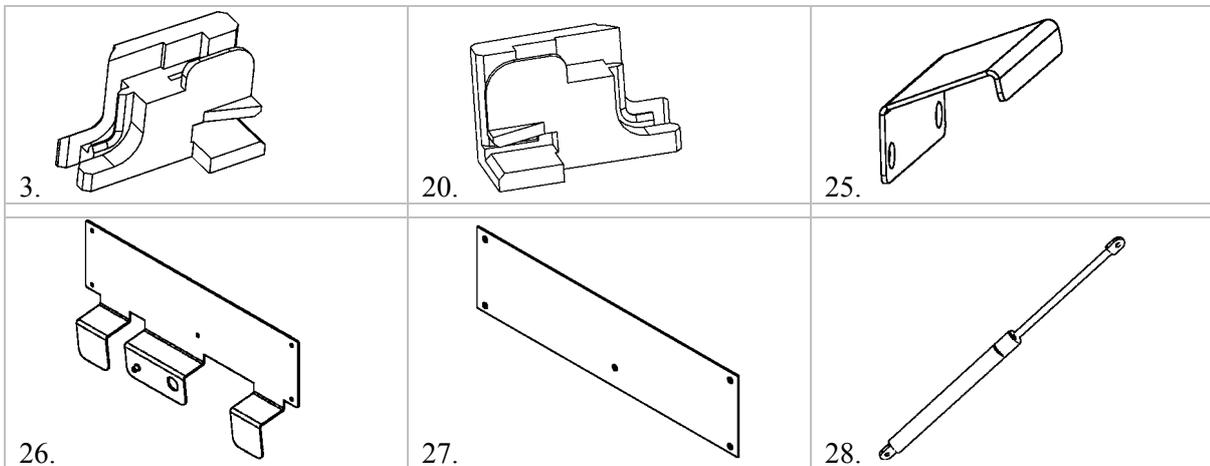
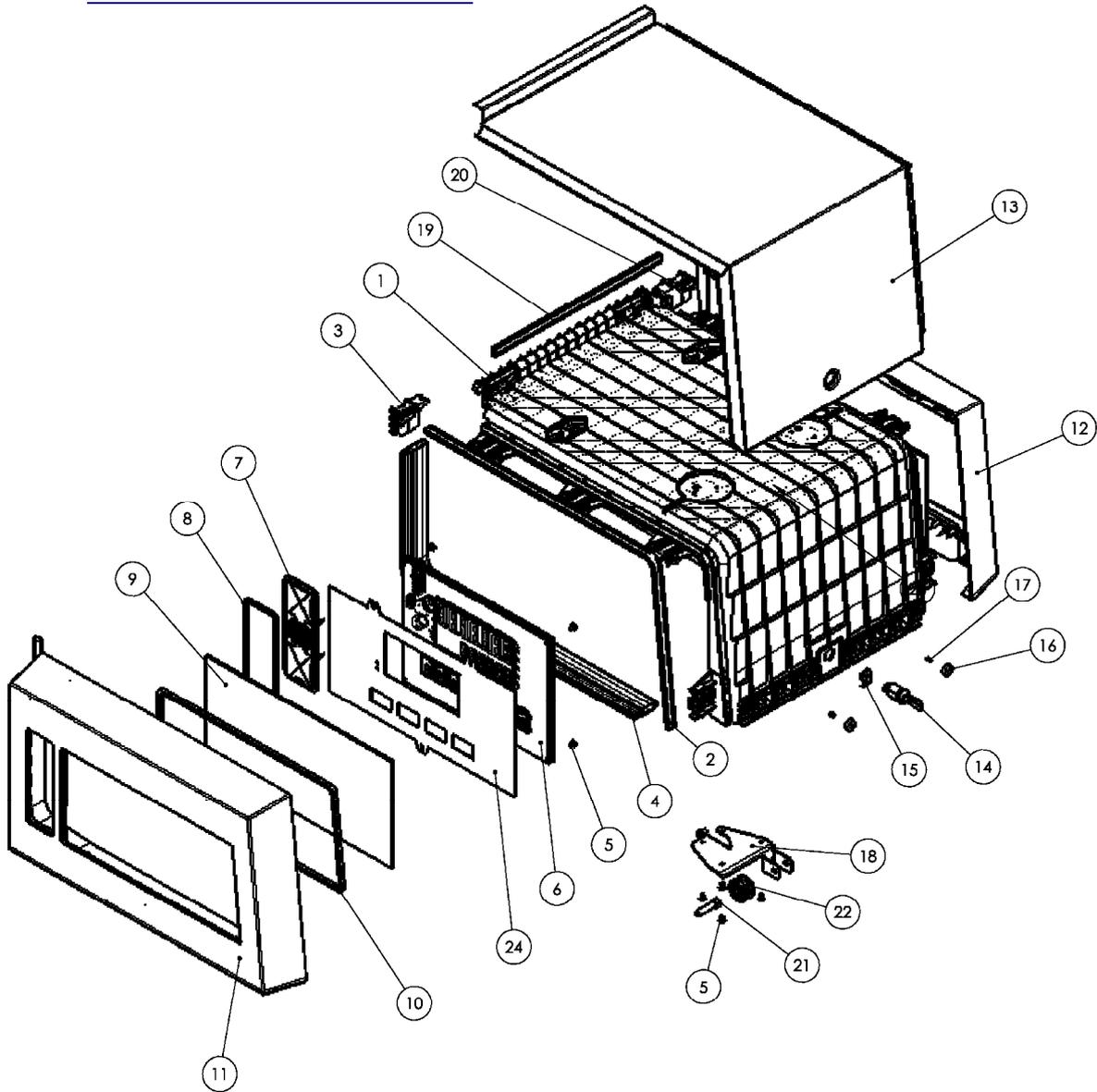


|   | <b>Part number</b> | <b>Description</b>  |
|---|--------------------|---|
| 1 | WM027195-0001      | Board relay SAT   |
|   | WM027195-0002      | Board for cash button/tank level                                |
| 2 | W006842            | Rail, L=150   |
| 3 | WM018523           | Intrinsically safe barrier (ISB) and interface for vapour meter |
| 4 | WM002450           | Intrinsic safe barrier (ISB) (Hydraulic no: 5)                  |
| 5 | WM026154           | Board Cepsa voice synthesizer                                   |
| 6 |                    | <b>Electromechanical totalizer</b>                              |
|   | WM002451-0001      | x1  |
|   | WM002451-0002      | x2  |
|   | WM002451-0003      | x3  |
|   | WM002451-0004      | x4  |
| 7 | WM019881           | Intrinsically safe barrier (ISB), (ATC)                         |
| 8 | WM027195-0001      | Board relay SAT   |
|   | WM027195-0002      | Board for cash button/tank level                                |
| 9 | WM031733           | Board IVGPL Tokheim (one for each side)                         |



|    | Part number                        | Description                                      |
|----|------------------------------------|--|
| 1  | WM030143                           | Cable cover                                      |
|    | WM030142                           | Gasket L=368                                     |
| 2  | WM028227                           | Support, Z-shape, for cable cover WM030143       |
| 3  | WM028359                           | Sticker, switch and fuse T6,3A board power       |
| 4  | <b>Grommet</b>                     |  |
|    | WM029992                           | M20, Ø 7-12 mm                                   |
|    | WM029998                           | M20, Ø 10-14 mm                                  |
|    | WM029993                           | M25, Ø 13-18 mm                                  |
| 5  | <b>Grommet, blind</b>              |  |
|    | WM001591                           | M20  |
|    | WM003241                           | M25  |
| 6  | WM028304                           | Support, L-shape for components                  |
| 7  | WM028306                           | Support, L-shape                                 |
| 8  | <b>Support, flat (for grommet)</b> |  |
|    | WM029597                           | 2 x M20  |
|    | WM029600                           | M20 + M25  |
|    | WM030531                           | Blind  |
| 9  | WM031581                           | Support for wheel                                |
| 10 | WM031594                           | Retaining ring e-type, shaft=9-12 dia, id=4, t=1 |
| 11 | WM033227                           | Pin  |

**5.1 Cover - electronic head**



|    | <b>Part number</b> | <b>Description</b>                                     |
|----|--------------------|--|
| 1  |                    | <b>Support, L-shape midsection electronic head</b>     |
|    | WM028160-0001      | Std  |
|    | WM032818           | Wincor/Nixdorf   |
| 2  | WM028329           | Gasket D-shape, l=760mm, h=15.1mm                      |
| 3  | WM028164-0001      | Gasket t-shaped for electronic head A-side             |
| 4  | WM030653           | Gasket d-list, l=688                                   |
| 5  | WM014931-0001      | Self tapping screw, poz, pan head 4 x 8, for plastic   |
| 6  |                    | <b>Display board double row</b>                        |
|    | WM023035-0001      | 6+6, 1 unit price display                              |
|    | WM023035-0002      | 6+6, 2 unit price displays                             |
|    | WM023035-0003      | 6+6, 3 unit price displays                             |
|    | WM023035-0004      | 6+6, 4 unit price displays                             |
| 7  | WM032102-0001      | Support, flat for keyboard and speaker                 |
| 8  | WM029424           | Gasket for keyboard adapter                            |
|    | WM032140           | Key pad 3x5 buttons std (                              |
|    | WM032029           | Key pad 3x5 buttons CEPESA                             |
| 9  | WM038365           | Glass 383x193  |
| 10 |                    | <b>Gasket for glass front</b>                          |
|    | WM029414           | 96°  |
|    | WM029415           | 90°  |
| 11 |                    | <b>Front panel, side A</b>                             |
|    | WM028152-0001      | 96°  |
|    |                    | 96°, blind   |
|    | WM031301-0001      | 90°  |
|    |                    | 90°, blind   |
| 12 |                    | <b>Front panel, side B</b>                             |
|    | WM028154-0001      | 96°  |
|    |                    | 96°, blind   |
|    | WM031302-0001      | 90°  |
|    |                    | 90°, blind   |
| 13 |                    | <b>Cover plate, top panel</b>                          |
|    | WM028340-0001      | 96°  |
|    | WM030105-0001      | 90°  |
|    | WM028340-0002      | 96°, for indicator lamp                                |
|    | WM030105-0002      | 90°, for indicator lamp                                |
|    | WM031576           | 90°, Wincor/Nixdorf                                    |
| 14 | WM001994-0001      | Lock individually keyed                                |
| 15 | WM028233           | Latch, for electronic head                             |
| 16 | WM003859           | Magnet, ring   |
| 17 | WB000631-0001      | Self tapping screw, Torx, csk head, type c st2,9 x 9.5 |
| 18 | WM028235           | Support, flat for spring                               |
| 19 | WM028330           | Gasket, D-list L=342mm                                 |
| 20 | WM028164-0002      | Gasket t-shaped for electronic head B-side             |
| 21 | WB000212-0008      | Screw, hexagon socket CAP, M8 x 35                     |
| 22 | WM001402           | Wheel  |
| 23 | WB000229-0004      | Lock nut, M8   |
| 24 |                    | <b>Support, flat, dial face</b>                        |
|    | WM038330-0001      | 1 UPD  |
|    | WM038330-0002      | 2 UPD  |
|    | WM038330-0003      | 3 UPD  |
|    | WM038330-0004      | 4 UPD  |
|    | WM038330-0005      | 5 UPD  |
|    | WM038330-0006      | Blind  |
| 25 | WM029267           | Lock for hinge   |
| 26 | WM032788           | Support, flat, front, electronic head (Wincor/Nixdorf) |
| 27 | WM032794           | Support, flat, back, electronic head (Wincor/Nixdorf)  |
| 28 | WM029727           | Spring, hydraulic                                      |

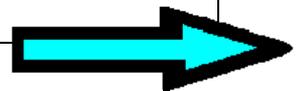
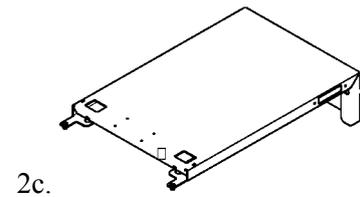
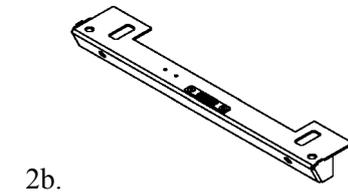
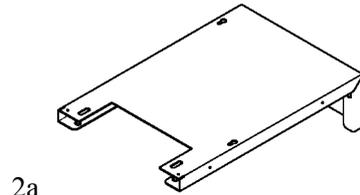
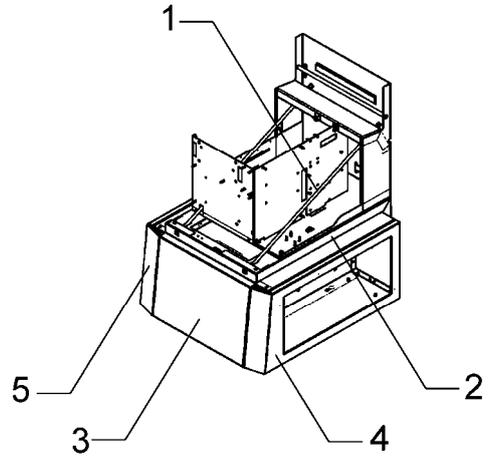
## 5.2 Keyboard label (3x5)

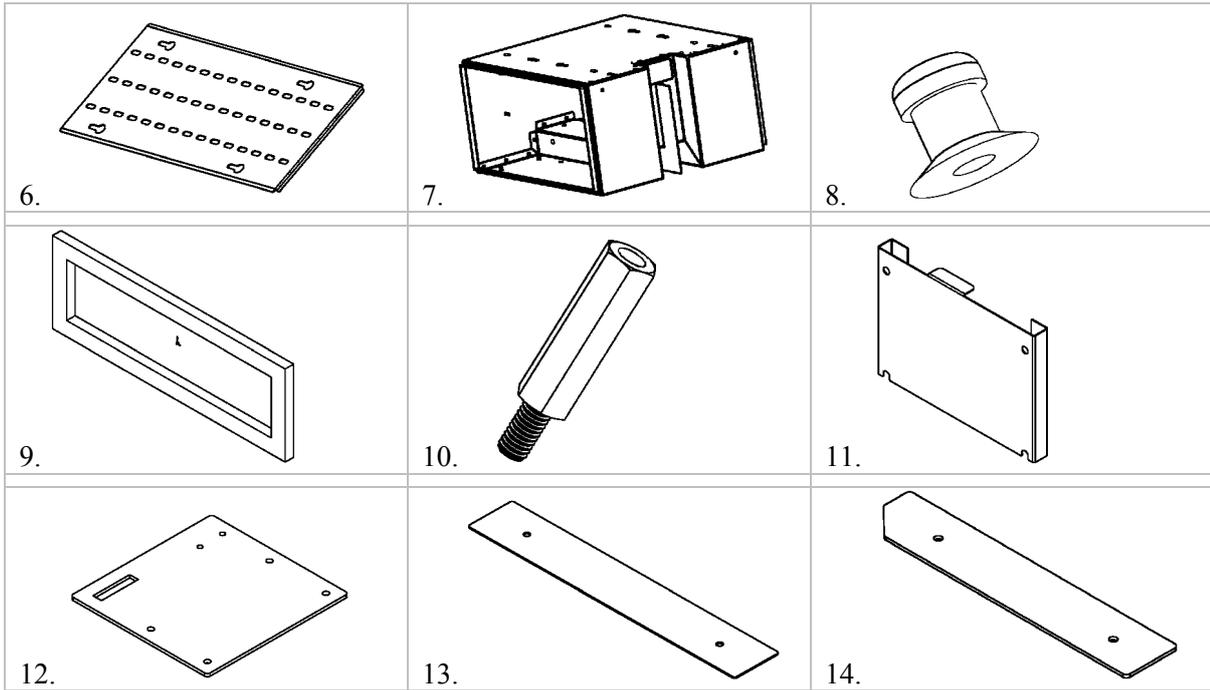
| Vers.1       | Vers.2   | Description                            |
|--------------|----------|--|
| ---          | WM032950 | 1, 5, 10, X with CEPESA V/S (EUR)      |
| ---          | WM038336 | 1, 5, 10, X, high/low CEPESA V/S (EUR) |
| WM030867     | WM038380 | PIENO, 5, 10, 20, CANC. (EUR)          |
| WM030868     | WM038381 | PIENO, 5, 10, 20, CANC. and SAT (EUR)  |
| WM030874     | WM038382 | Blind                                  |
| WM031133     | WM038385 | PIENO, 5, 10, 20, CANC. high/low (EUR) |
| WM031433     | WM038386 | SAT                                    |
| WM031050     | WM038387 | STOP                                   |
| WM031050 (2) | WM038388 | STOP with speaker                      |
| WM031047     | WM038389 | STOP and high/low                      |
| WM031047 (2) | WM038390 | STOP, speaker and high/low             |
| WM031753     | WM038391 | 1 zL, 5 zL, 10 zL, 25 zL, C            |
| WM031851     | WM038392 | 1, 5, 10, 25, C and high/low           |
| WM031872     | WM038393 | 1, 5, 10, X (EUR)                      |
| WM032056     | WM038394 | 1, 5, 10, 25, C                        |
| WM032120     | WM038395 | 1, 5, 10, X and high/low (EUR)         |
| WM032145     | WM038396 | 1, 5, 10, 25, C (EUR)                  |
| WM032220     | WM038397 | 1, 5, 10, X and SAT (EUR)              |
| WM032249     | WM038398 | High/low                               |
| WM032389     | WM038399 | Full, 500, 1000, 2000, cancel (LEK)    |
| WM032459     | WM038400 | 1, 5, 10, 20, CANC. (EUR)              |
| WM032723     | WM038401 | 50, 100, 500, 1000, X                  |
| WM032736     | WM038402 | 50, 100, 500, 1000, X and high/low     |
| WM032814     | WM038403 | 1 LEU, 5 LEI, 10 LEI, 50 LEI, CANC.    |
| WM032883     | WM038404 | STOP and SAT                           |
| WM032913     | WM038405 | 5, 10, 20, CLEAR, STOP                 |
| WM033034     | WM038406 | Blind, RAL 5002, JET CONOCO            |
| WM037462     | WM038407 | STOP and high/low                      |
| WM038008     | WM038408 | 50, 100, 200, CLEAR, STOP              |
| WM038109     | WM038409 | CANC., 1, 5, FULL (EUR)                |
| WM038268     | WM038410 | 1, 5, 10, 30, ANN. (EUR)               |
| WM038361     | WM038411 | \$1, \$5, \$10, FILL, CLEAR            |
| WM032715     | WM038412 | STOP and KASSA, SE                     |
| WM037353     | WM038413 | STOP and KASSA, OKQ8, SE               |
| WM031872 (2) | WM038414 | 1, 5, 10, X with speaker (EUR)         |
| WM032120 (2) | WM038415 | 1, 5, 10, X high/low, with speaker     |
| WM032220 (2) | WM038416 | 1, 5, 10, X and SAT with speaker (EUR) |

## 6 Terminal head

Rebuilding PT box on Global Star V, see document WM033692.

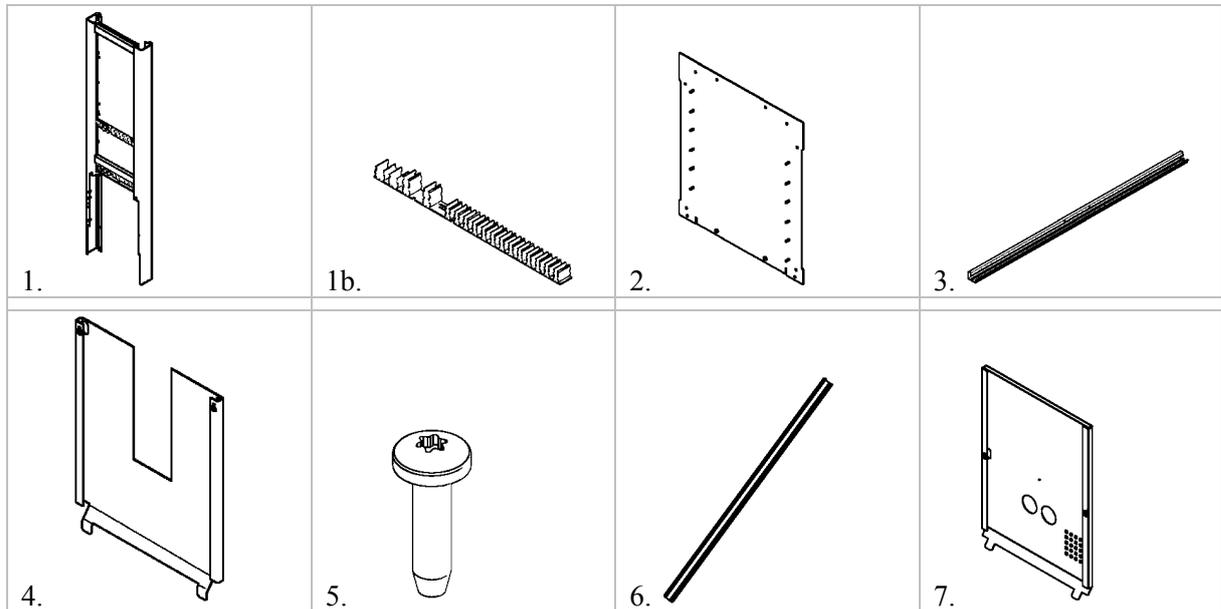
|    | Part number   | Description                        |
|----|---------------|------------------------------------|
| 1  | WM028365      | Pin for PT support                 |
|    |               | <b>Support, L-shape PT support</b> |
| 2a | WM028237      | Std (see also WM036690 below)      |
| 2b | WM036690      | Front for support WM028237         |
| 2c | WM032806      | For Wincor/Nixdorf (1 pc)          |
| 3  |               | <b>Cover plate</b>                 |
|    | WM030155      | 90°, H=275                         |
|    | WM026144      | 90°, H=375                         |
|    | WM026142      | 96°, H=275                         |
|    | WM030164      | 96°, H=375                         |
|    | WM032796      | 90°, Wincor/Nixdorf                |
| 4  |               | <b>Front panel, side B</b>         |
|    | WM030411-0001 | 90°, H=275, iX-Pay                 |
|    | WM030417-0001 | 90°, H=275, blind, iX-Pay          |
|    | WM030415-0001 | 90°, H=375, iX-Pay                 |
|    | WM030419-0001 | 90°, H=375, blind, iX-Pay          |
|    | WM031262-0001 | 90°, H=375, PT4000                 |
|    | WM030409-0001 | 96°, H=275, iX-Pay                 |
|    | WM030421-0001 | 96°, H=275, blind, iX-Pay          |
|    | WM030413-0001 | 96°, H=375, iX-Pay                 |
|    | WM030423-0001 | 96°, H=375, blind, iX-Pay          |
|    | WM032746-0001 | 96°, H=375, PT4000                 |
|    | WM030873-0002 | Lafon                              |
|    | WM030317-0001 | Tokheim                            |
|    | WM030319-0001 | Tokheim, blind                     |
| 5  |               | <b>Front panel, side A</b>         |
|    | WM030410-0001 | 90°, H=275, iX-Pay                 |
|    | WM030416-0001 | 90°, H=275, blind, iX-Pay          |
|    | WM030414-0001 | 90°, H=375 iX-Pay                  |
|    | WM030418-0001 | 90°, H=375, blind, iX-Pay          |
|    | WM031261-0001 | 90°, H=375, PT4000                 |
|    | WM030408-0001 | 96°, H=275, iX-Pay                 |
|    | WM030420-0001 | 96°, H=275, blind, iX-Pay          |
|    | WM030412-0001 | 96°, H=375, iX-Pay                 |
|    | WM030422-0001 | 96°, H=375, blind, iX-Pay          |
|    | WM032729-0001 | 96°, H=375, PT4000                 |
|    | WM030872-0002 | Lafon                              |
|    | WM030316-0001 | Tokheim                            |
|    | WM030318-0001 | Tokheim, blind                     |





|    | <b>Part number</b> | <b>Description</b>  |
|----|--------------------|---|
| 6  | WM017918           | Cover plate with holes, 468 x 190                                       |
| 7  |                    | <b>Support, box</b>   |
|    | WM017916           | H=275   |
|    |                    | H=375   |
| 8  | WB000251-0001      | Pop rivet, csk head, 4.0 diameter x 9, grip range 2.0 - 4.4, closed end |
| 9  | WM034875           | Gasket L=83 H=29 hollow, sealing for socket (Wincor/Nixdorf)            |
| 10 | WM036898-0001      | Spacer, blind, M6x35, male/female hexagonal                             |
| 11 | WM033430           | Support, box shape, for cables (Wincor/Nixdorf)                         |
| 12 | WM033389           | Support, flat, extension, (Wincor/Nixdorf)                              |
| 13 | WM033432           | Support, flat, for cables under PT (Wincor/Nixdorf)                     |
| 14 | WM033434           | Side panel, barrier, plate, (Wincor/Nixdorf)                            |

## 7 Hose handling



|    | Part number   | Description  |
|----|---------------|--|
| 1  | WM026564      | <b>Blind column</b>  |
|    | WM028466      | Gasket, L=366, H=50, W=25  |
|    | WM030188      | Gasket, L=366, H=30, W=25  |
|    | WM015860      | Decal for cable assembly   |
|    | WM038848      | Gasket isolation 555x363 (AdBlue®)                                   |
|    | WM038933      | Gasket isolation 1720x80 (AdBlue®)                                   |
|    | WM040469      | Gasket isolation 500x80 (AdBlue® single sided)                       |
| 1b | WM001061      | <b>Clamp</b>   |
| 2  |               | <b>Top panel</b>   |
|    | WM026693      | 1 module   |
|    | WM038916      | Gasket isolation 448x223 (AdBlue®)                                   |
|    | WM026692      | 2 modules  |
|    | WM026526      | 3 modules  |
|    | WM026694      | 4 modules  |
| 3  | WM026534      | Corner column  |
| 4  | WM028337      | Blind panel, with slot for tubes, between hose and hydraulic cabinet |
| 5  | WB000295-0001 | Self tapping screw, Torx, pan head, type F ST5,5 x 22                |
| 6  | WM026275      | Column   |
| 7  | WM038810      | Blind panel (AdBlue®)  |

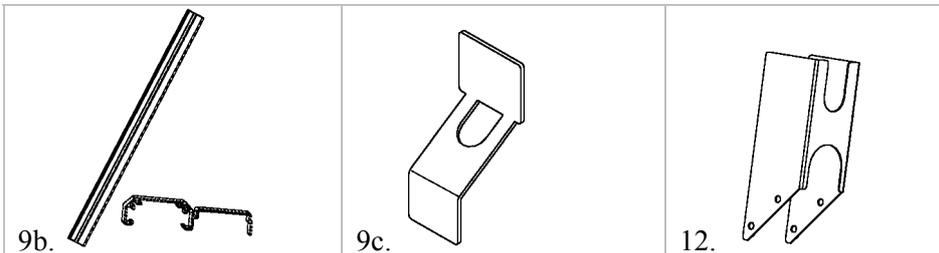
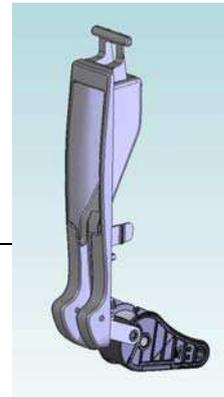
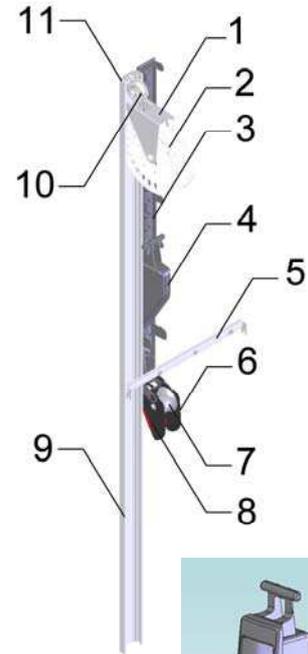
## 7.1 Push button and nozzle switch



|   | Part number   | Description   |
|---|---------------|---|
| 1 |               | <b>Push button</b>  |
|   | WM027750-0001 | Red   |
|   | WM027750-0002 | Green   |
|   | WM027750-0003 | Black   |
|   | WM027750-0004 | Yellow  |
|   | WM027750-0005 | Blue  |
|   | WM027750-0006 | White   |
| 2 | WM027743      | Black Mushroom (LPG)  |
| 3 |               | <b>Switch</b>   |
|   | WM027741-0002 | On/Off (LPG)  |
|   | WM027741-0001 | On/Off spring back (LPG)  |
| 4 |               | <b>Switch, magnetic reed, 2-wire, normally closed (nozzel switch)</b> |
|   | WM009210-0002 | 3.0 m cable   |
| 5 | WM028616      | Emergency button, push - turn   |
| 6 | WM029696-0001 | Blanking plug (instead of emergency button), d=25,8, white            |

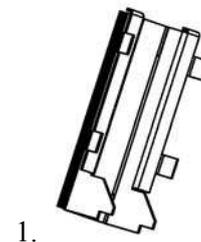
## 7.2 HHR

|    | Part number   | Description  |
|----|---------------|--|
| 1  | WM028902      | Bracket, hose retraction                                       |
| 2  | WM028140      | Wheel, D=239   |
| 3  |               | <b>Side panel, decal cover</b>                                 |
|    | WM028139      | 0 hole for button  |
|    | WM031313-0001 | 1 hole for button  |
|    | WM031313-0002 | 2 hole for buttons   |
|    | WM031313-0003 | 3 hole for buttons   |
| 4  | WM025564      | Nozzle boot  |
|    | WB000370-0001 | Screw, hexagon socket button, M8x30, with tuflok locking patch |
| 5  |               | <b>Support, U-shape</b>  |
|    | WM028444      | 1 hose   |
|    | WM028395      | 2 hoses  |
|    | WM026491      | 3 hoses  |
|    | WM026487      | 4 hoses  |
| 6  | WM028141      | Bracket, wheel, nozzle boot                                    |
| 7  | WM025573      | Wheel, D=85  |
| 8  | WM028145      | Bushing, roller, L=66  |
| 9  | WM026539      | Column (L=1973, W=75)  |
| 9b | WM030779      | Column (blind) (L=1973, W=139)                                 |
|    | W8-182878     | Column (blind) WM030779 + WM028860 (9b + 12)                   |
| 9c | WM030771      | Clip, Z-Shape  |
| 10 | WM028144      | Wheel, D=55  |
| 11 | WM029423      | Support, box shape   |
|    | WM029945      | Cord L=1150 mm   |
| 12 | WM028860      | Support, box shape, cover, hose connector                      |

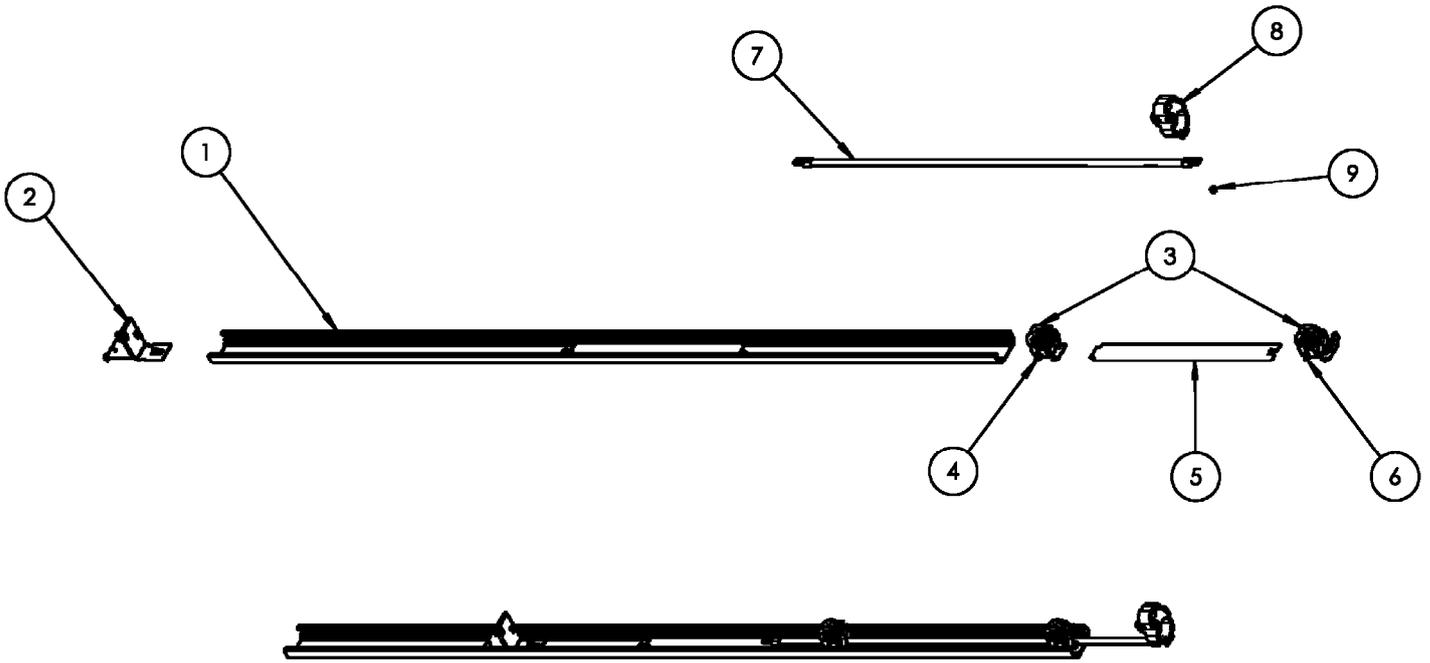


### 7.2.1 Hose shortening - HHR (Version 2)

|   | Part number | Description       |
|---|-------------|-------------------|
| 1 | WM036832    | Hose reach 3.75 m |
|   | WM036835    | Hose reach 3.6 m  |
|   | WM036837    | Hose reach 2.6 5m |



**7.3 HH**

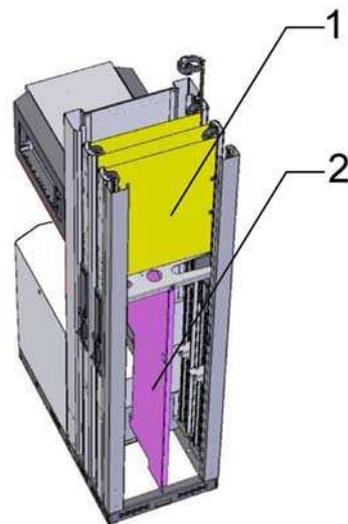


|            |            |            |            |
|------------|------------|------------|------------|
| <p>2.</p>  | <p>4.</p>  | <p>5a.</p> | <p>5b.</p> |
| <p>5c.</p> | <p>6.</p>  | <p>8.</p>  | <p>10.</p> |
| <p>11.</p> | <p>12.</p> | <p>13.</p> |            |

|    | Part number     | Description                                  |
|----|-----------------|--|
|    | WM032767        | Edge protector, grip range 1.0-2.0 mm, black |
| 1  |                 | <b>Column, hose handling</b>                 |
|    | WM030000        | Hole for nozzle boot, 0 button               |
|    | WM032374-0001   | Hole for nozzle boot, 1 button               |
|    | WM032374-0002   | Hole for nozzle boot, 2 buttons              |
|    | WM032374-0003   | Hole for nozzle boot, 3 buttons (on picture) |
| 2  | WM029798        | Support box-shape                            |
| 3  | WM028144        | Wheel, D=55                                  |
| 4  | WM032782        | Support U-shape                              |
| 5  |                 | Support, flat, L=458mm                       |
| a  | WM032345 Rev 01 | Old version                                  |
| b  | WM032345        | Without divider panels                       |
| c  | WM032345 Rev.03 | With brackets for divider panels (WM036996)  |
| 6  | WM029423        | Support, box shape                           |
| 7  | WM032347        | Cord L=1000mm                                |
| 8  | WM018918        | Ring with pulleys                            |
| 9  | WB000229-0003   | Lock nut, M6                                 |
| 10 | WM031306        | Column, L=472, W=67                          |
| 11 |                 | <b>Support, flat</b>                         |
|    | WM032367-0001   | L=193mm, 2 hose                              |
|    | WM032368-0001   | L=333mm, 4 hose (on picture)                 |
|    | WM032369-0001   | L=473mm, 6 hose                              |
|    | WM032372-0001   | L=613mm, 8 hose                              |
| 12 | WM033244        | Support (one for each column with button)    |
| 13 | WM028860        | Support, box shape, cover, hose connector    |

### 7.3.1 Divider panels HH

|   | Part number   | Description   |
|---|---------------|---|
|   |               | <b>Retrofit kit - Divider panel HH</b>  |
|   | W8-182634     | 2 hoses   |
|   | W8-182635     | 4 hoses   |
|   | W8-182636     | 6 hoses   |
|   | W8-182637     | 8 hoses   |
| 1 | WM036996      | <b>Blind panel</b> , 446 x 633 (1, 3, 5, or 7 pc on each pump)<br>(Note! You need Rev. 03 of WM032345 see page 19.) |
|   | WB000339-0001 | Plastic fastener, rivet, thickness range 2.5-4.0 thk<br>(4 for each blind panel WM036996)                           |
| 2 |               | <b>Blind panel, hose handling</b><br>(fastend wit a screw (WB000211-0001) in support, flat)                         |
|   | WM037832      | 2 hoses   |
|   | WM037828      | 4 hoses   |
|   | WM037824      | 6 hoses   |
|   | WM036993      | 8 hoses   |
|   | WB00211-0001  | Screw, hexagon socket cap, M6 X 16  |



**7.4 LPG**



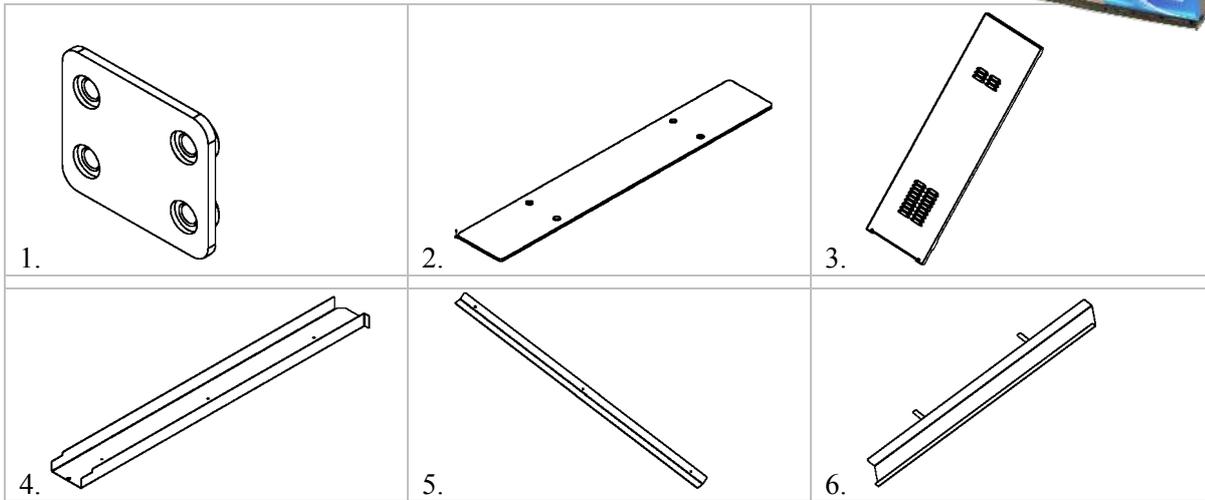
|            |            |            |
|------------|------------|------------|
| <p>1.</p>  | <p>2.</p>  | <p>3.</p>  |
| <p>4.</p>  | <p>5.</p>  | <p>6.</p>  |
| <p>7.</p>  | <p>8.</p>  | <p>9.</p>  |
| <p>10.</p> | <p>11.</p> | <p>12.</p> |
| <p>13.</p> | <p>14.</p> | <p>15.</p> |
| <p>16.</p> | <p>17.</p> | <p>18.</p> |

|     |   |  |  |
|-----|---|--|--|
| 19. |  |  |  |
|-----|---|--|--|

|    | Part number   | Description   |
|----|---------------|---|
| 1  | WM036833      | Top panel hose handling, 1 module, LPG, umbra grey                            |
| 2  | WM036289      | Side panel L=1976.5mm   |
| 3  |               | <b>Corner column, LPG</b>   |
|    | WM036918      | Corner column side A  |
|    | WM039474      | Corner column side A (France)   |
|    | WM036924      | Corner column side B  |
|    | WM039476      | Corner column side B (France)   |
|    | WM027743      | Push-button, mushroom black (see also page 16)                                |
|    | WM028616      | Emergency button, push - turn (see also page 16)                              |
|    | WM029696-0001 | Blanking plug (instead of emergency button), d=25,8, white (see also page 16) |
| 4  | WM034219      | Support, L-shape  |
| 5  | WM036684      | Support, Z-shape  |
| 6  | WM036885      | Nozzle boot, LPG  |
|    | WB000210-0001 | Screw, hexagon socket CAP, M5   |
|    | WB000229-0003 | Lock nut, M6  |
|    | WB000652-0001 | Screw, hexagon socket button, M6  |
|    | WE001168      | Coupling, straight, gauge adapter DN 12                                       |
|    | WM000929      | Pressure gauge  |
| 7  | WM033667      | Nozzle boot LPG   |
| 8  | WM036692      | Plug  |
| 9  | WT001124      | Coupling, 90° (see also page 81)  |
| 10 | WM029065      | Support, U-shape assembly   |
| 11 |               | <b>Support, box, L=1973</b>   |
|    | WM037502      | A-side  |
|    | WM037504      | B-side  |
| 12 | WB000339-0001 | Plastic fastener rivet  |
| 13 | WM025975      | Clamp   |
| 14 | WM041859      | Clamp, for 13-16 mm hose (FR)   |
| 15 | WB000346-0002 | Clip, for 24mm tube, M6 fixing  |
| 16 | WM038374      | Cord  |
| 17 | WM004726      | Bearing, knot, LPG  |
| 18 | WM041737      | Instruction label (FR)  |
| 19 | WM041803      | Instruction label, consignes de sécurité (FR)                                 |



## 7.5 B2B



See also LPG page 20.

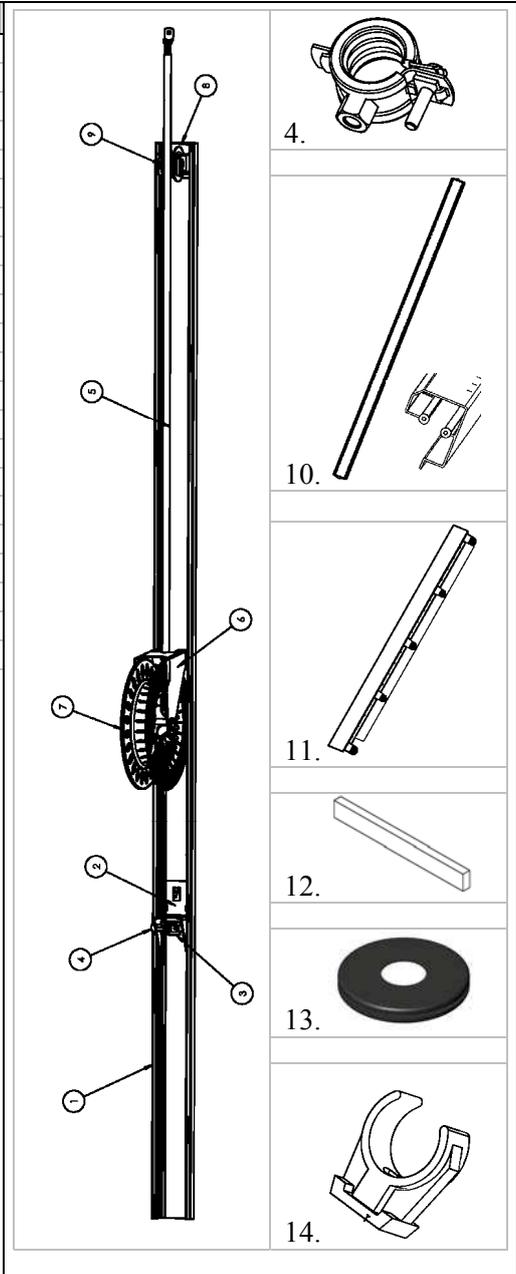
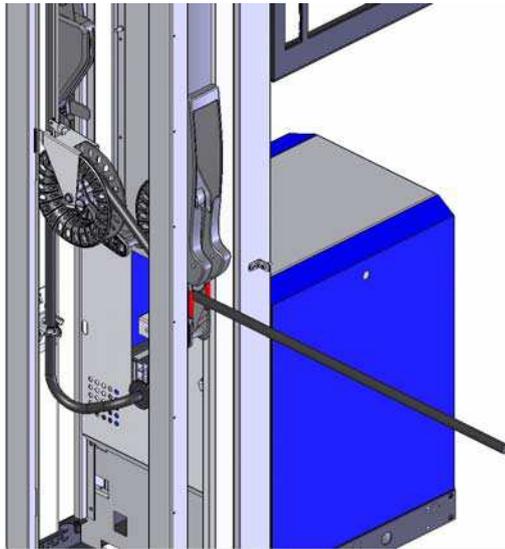
|   | <b>Part number</b> | <b>Description</b>                   |
|---|--------------------|--------------------------------------|
| 1 | WM037868           | Support, flat                        |
| 2 | WM037871           | Support, flat                        |
| 3 | WM037875           | Side panel, 1288,6x365, with gaskets |
|   | WM028466           | Gasket L=366, H=50, W=25             |
|   | WM030188           | Gasket L=366, H=30, W=25             |
|   |                    | <b>Cable holder, B2B, 1 hose</b>     |
| 4 | WM038753-0004      | Cable holder, bottom                 |
| 5 | WM038756-0004      | Cable holder, inner wall             |
| 6 | WM038758-0004      | Cable holder, top                    |
|   |                    | <b>Cable holder, B2B, 2 hose</b>     |
| 4 | WM038753-0003      | Cable holder, bottom                 |
| 5 | WM038756-0003      | Cable holder, inner wall             |
| 6 | WM038758-0003      | Cable holder, top                    |
|   |                    | <b>Cable holder, B2B, 3 hose</b>     |
| 4 | WM038753-0002      | Cable holder, bottom                 |
| 5 | WM038756-0002      | Cable holder, inner wall             |
| 6 | WM038758-0002      | Cable holder, top                    |
|   |                    | <b>Cable holder, B2B, 4 hose</b>     |
| 4 | WM038753-0001      | Cable holder, bottom                 |
| 5 | WM038756-0001      | Cable holder, inner wall             |
| 6 | WM038758-0001      | Cable holder, top                    |



## 7.6 AdBlue®

### 7.6.1 Hose handling

|    | Part number   | Description                             |
|----|---------------|---|
| 1  | WM026539      | Column hose handling, L=1973, W=75      |
|    | WM030779      | Column L1973 W=139 (blind single sided) |
| 2  | WM038807      | Support, box shape hose clamp           |
| 3  | WE000563      | Clamp diameter 21-23, thread M8/M10     |
| 4  | WB000212-0009 | Screw, hexagon socket CAP, M8 x 10      |
| 5  | WM029945      | Cord L=1150                             |
| 6  | WM028902      | Support, box shape assembly             |
| 7  | WM028140      | Wheel d=239                             |
| 8  | WM029423      | Support, box shape h=64,5               |
| 9  | WM028144      | Wheel d=55                              |
| 10 |               | <b>Corner column</b>                    |
|    | WM038813      | Side A                                  |
|    | WM038814      | Side B                                  |
|    | WM038934      | Gasket isolation 195x66                 |
|    | WM039869      | Gasket isolation 195x35*1               |
| 11 |               | <b>Side panel, decal cover</b>          |
|    | WM028139      | 0 hole for button                       |
|    | WM038856      | Gasket isolation 570x55                 |
| 12 | WM038900      | Gasket 1970x62 (blind single sided) *1  |
|    | WM038902      | Gasket 475x55 (blind single sided) *1   |
| 13 | WM010793-0002 | Gasket, OD=67mm, ID=23mm                |
| 14 | WB000346-0003 | Clip for 28 tube, M6 fixing             |



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**7.6.2 Front panel (AdBlue®)**

|   | Part number   | Description   |
|---|---------------|---|
|   |               | Front panel   |
|   | WM009166-0001 | Side A (on image)   |
|   | WM009166-0002 | Side B  |
|   | WE000485      | Glass 214x170   |
|   |               | <b>Gasket isolation</b>                                       |
|   | WE000535      | 965 x 220   |
|   | WE000536      | 367 x 220   |
|   | WE000538      | 308 x 123   |
|   | WM019655      | 306 x 22  |
|   | WE000540      | 308 x 120   |
|   | WE000539      | 1510 x 155  |
|   | WM003173      | Adhesive tape, double-sided width=1/2" thickness = 0.85mm     |
|   | WM003175      | Gasket u-shape, EPDM  |
|   | WM009164      | Magnet band with adhesive, width 12,5                         |
|   | WB000209-0001 | Screw, hexagon socket CAP, M4 x 10                            |
|   | WB000229-0002 | Lock nut, M4  |
|   | WB000252-0001 | Pop rivet, dome head, 4.8 diameter x 10, grip range 4.8 - 6.0 |
| 1 | WE000497      | Hinge L=1500 mm, W=18 mm                                      |
| 2 | WE000500      | Cover plate front panel, nozzle                               |
| 3 |               | <b>Support, L-shape, lower</b>                                |
|   | WM019618      | Side A (on image)   |
|   | WM019621      | Side B  |
| 4 |               | <b>Support, L-shape, upper</b>                                |
|   | WM019629      | Side A (on image)   |
|   | WM019623      | Side B  |
| 5 | WM009080      | Handle  |
| 6 | WM025098-0001 | Lock  |
| 7 | WM003119      | Key   |
| 8 | WE000482      | Latch flat  |

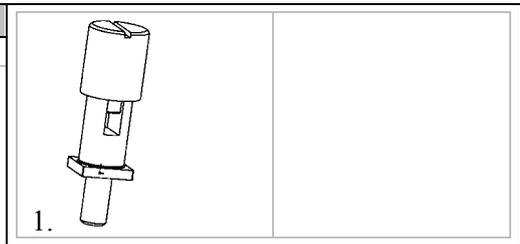
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**7.6.3 Open hose door beeper (AdBlue®)**

|   | Part number   | Description  |
|---|---------------|--|
| 1 | WM039773      | Support, L-shape                                     |
| 2 | WM001649-0002 | Switch   |
| 3 | WM020392      | Support, flat  |
| 4 | WM003859      | Magnet   |
|   | WB000280-0002 | Screw, CSK socket CAP, M4 X 12                       |
|   | WB000229-0002 | Lock nut, M4   |
|   | WM024723      | Screw, CSK socket CAP, M3                            |
|   | WB000396-0001 | Self tapping screw, POZ, pan head, type C ST2,9 X 13 |

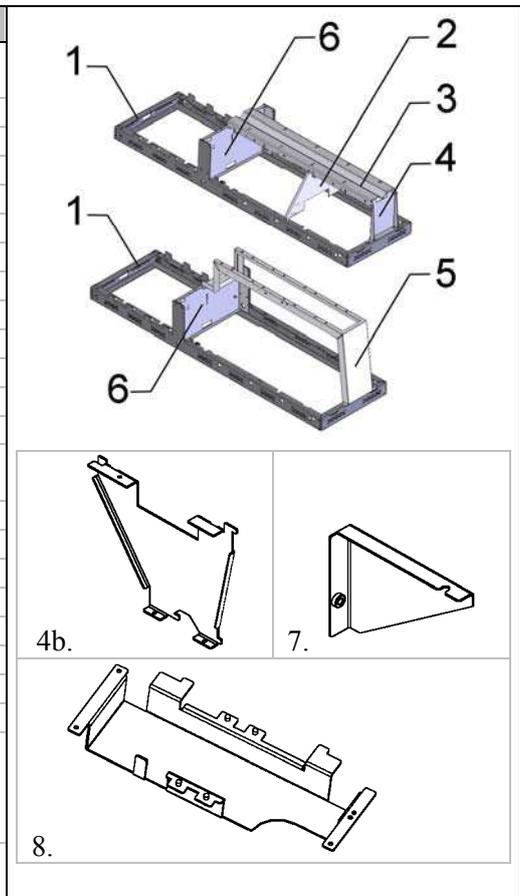
## 8 Hydraulic cabinet

|   | Part number   | Description         |
|---|---------------|---------------------|
| 1 | WB000273-0002 | Grounding screw, M5 |

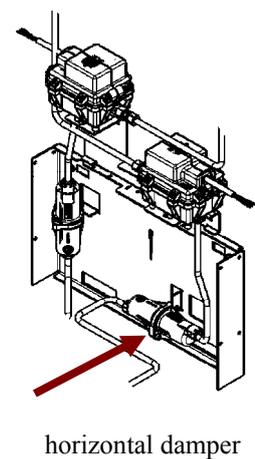
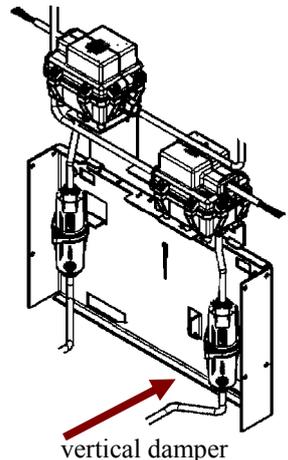


### 8.1 HH & HHR

|    | Part number   | Description   |
|----|---------------|---|
|    | WM028263-0001 | Pop rivet, CSK head, 6.4 diameter x 13, grip range 3.8  |
| 1  |               | <b>Base</b>   |
|    | WM030805-0001 | 2 hydraulic modules, 1 hose module  |
|    | WM025391-0001 | 3 hydraulic modules, 1 hose module  |
|    | WM025392-0001 | 3 hydraulic modules, 2 hose modules   |
|    | WM025393-0001 | 3 hydraulic modules, 3 hose modules   |
|    | WM025394-0001 | 4 hydraulic modules, 2 hose modules   |
|    | WM025395-0001 | 4 hydraulic modules, 3 hose modules   |
|    | WM025396-0001 | 4 hydraulic modules, 4 hose modules   |
| 2  | WM028189      | Support, flat, middle, hydraulic shelf  |
| 3  |               | <b>Support, suction hydraulic</b>   |
|    | WM028191      | 3 modules   |
|    | WM028193      | 4 modules   |
| 4  |               | <b>Support, flat, end support hydraulic shelf</b>   |
|    | WM028186      | Std   |
| 4b | WM030737      | 2 modules   |
| 5  |               | <b>Support, remote hydraulics</b>   |
|    | WM032317-0001 | 3 modules, iMeter   |
|    | WM032317-0002 | 4 modules, iMeter   |
|    | WM028206      | 3 modules, Xflo™  |
|    | WM028208      | 4 modules, Xflo™  |
| 6  | WM025409      | Support, box shape  |
| 7  | WM037349      | Rebuilding plate from horizontal* to vertical* damper on old support WM025409. Tubes see page 68 and page 72. |
| 8  | WM028464      | Shelf for VR module (VR module, see page 85)  |

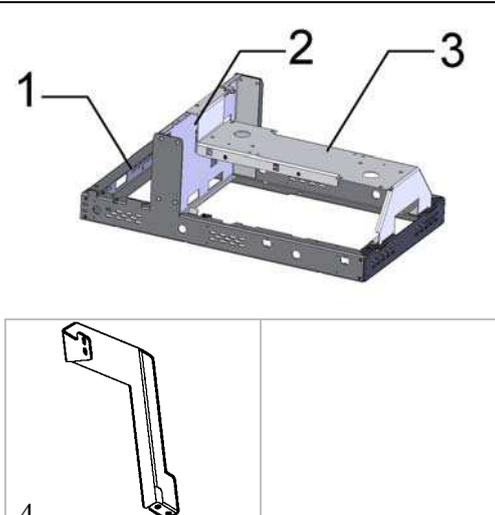


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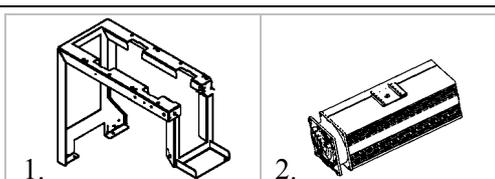
## 8.2 LPG

|   | Part number   | Description                             |
|---|---------------|---|
|   | WM002236      | Seal screw, hexagon socket CAP, M6x16   |
| 1 | WM030805-0001 | Base 2 hydraulic modules, 1 hose module |
| 2 | WM025409      | Support, box shape                      |
| 3 | WM032452      | Support, LPG hydraulics                 |
|   | WM032786      | Support, LPG hydraulics, B2B and 96°    |
| 4 | WM036404      | Support, U-shape                        |



## 8.3 AdBlue®

|   | Part number   | Description                             |
|---|---------------|---|
|   | WM030805-0001 | Base 2 hydraulic modules, 1 hose module |
| 1 | WM036706      | Support, 2 modules iMeter               |
| 2 | WM008897      | Heating element 400W, 230V              |

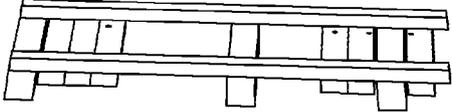


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## 9 Pallet, drip pan, . . .

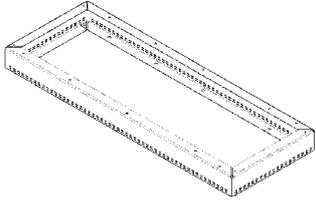
### 9.1 Pallet

| Part number | Description  |
|-------------|--|
|             | <b>Pallet HH &amp; HHR</b>                         |
| WM007471    | L=1360 mm (CXX-32, CXX-22, CXX-31, CXX-11, CXX-21) |
| WM007466    | L=1630 mm (CXX-33)                                 |
| WM007470    | L=1895 mm (CXX-42, CXX-43, CXX-44)                 |



### 9.2 Extended base frame

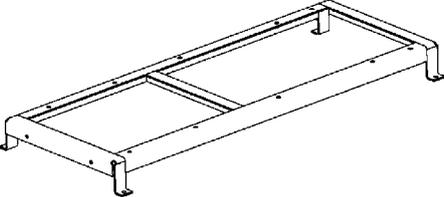
| Part number | Description                             |
|-------------|---|
|             | <b>Extended base frame HH &amp; HHR</b> |
| WM004160    | C11-11                                  |
| WM004161    | C22-22                                  |
| WM004162    | C33-33                                  |
| WM004163    | C44-42                                  |
| WM004164    | C44-43                                  |
| WM004165    | C44-44                                  |



### 9.3 Foundation frame

| Part number | Description                          |
|-------------|--------------------------------------|
|             | <b>Foundation frame HH &amp; HHR</b> |
| WM031871    | 2 hydraulics + 1 nozzle module       |
| WM031877    | 2 hydraulics + 2 nozzle module       |
| WM004018    | 3 hydraulics, 1 nozzle               |
| WM004019    | 3 hydraulics, 2 nozzle               |
| WM004020    | 3 hydraulics, 3 nozzle               |
| WM004023    | 4 hydraulics, 2 nozzle               |
| WM004022    | 4 hydraulics, 3 nozzle               |
| WM004021    | 4 hydraulics, 4 nozzle               |

Please, find the drawings on the ftp-server



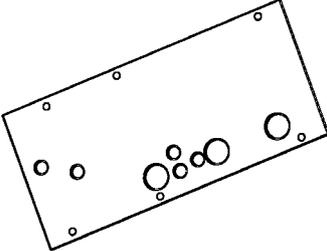
### 9.4 Drip pan (suction pump)

| Part number | Description   |
|-------------|---|
| WM005290    | Sikaflex TankL  |
| WM037885    | 2 hydraulics + 1 nozzle module, L = 881, LPG                |
| WM031497    | 2 hydraulics + 1 nozzle module, L = 881mm (Small cabinet)   |
| WM031663    | 2 hydraulics + 2 nozzle modules, L = 1021mm (Small cabinet) |
| WM030157    | 3 hydraulics + 1 nozzle module, L = 1100mm, HH & HHR        |
| WM030158    | 3 hydraulics + 2 nozzle modules, L = 1240mm, HH & HHR       |
| WM030159    | 3 hydraulics + 3 nozzle modules, L = 1380mm, HH & HHR       |
| WM030160    | 4 hydraulics + 2 nozzle modules, L = 1500mm, HH & HHR       |
| WM030161    | 4 hydraulics + 3 nozzle modules, L = 1640mm, HH & HHR       |
| WM030162    | 4 hydraulics + 4 nozzle modules, L = 1780mm, HH & HHR       |



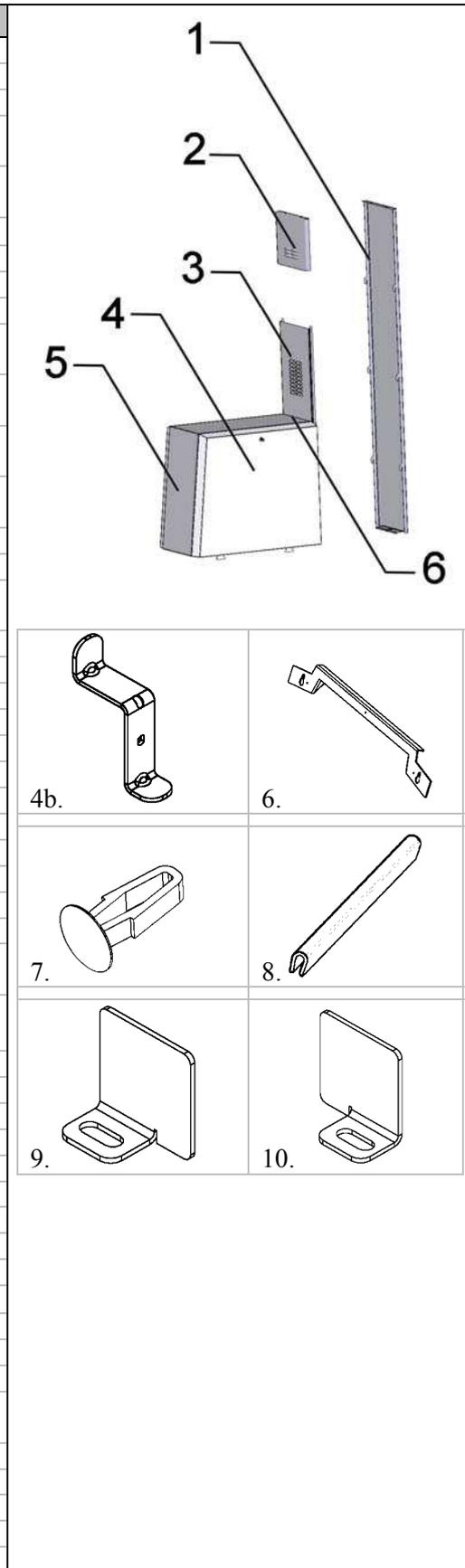
**WARNING!**

It is important that the pump is sealed from the ground. We recommend a “drip pan” and Sikaflex TankL. See User's Manual and installation drawings.



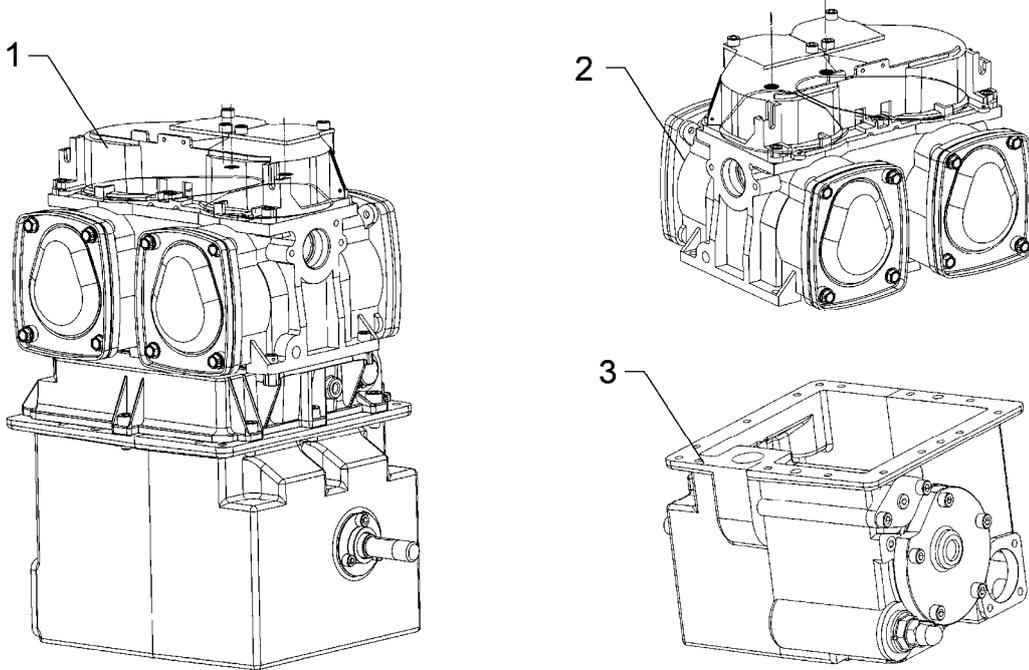
# 10 Exterior

|    | Part number   | Description   |
|----|---------------|---|
| 1  |               | <b>Side panel</b>   |
|    | WM036289      | AL  |
|    | WM037892-0001 | White   |
|    | WM025580      | AL (for old base without mounting holes for side panel)       |
|    | WM037892      | White (for old base without mounting holes for side panel)    |
|    | WM038914      | Gasket isolation 1950x350 (AdBlue®)                           |
| 2  | WM025614      | Side panel, upper barrier, with gaskets                       |
|    | WM030188      | Gasket L=366, H=30, W=25                                      |
| 3  |               | <b>Side panel</b>   |
|    | WM025529      | Std, with gaskets WM028466 and WM003175                       |
|    | WM028719      | Pay terminal H=275, with gaskets WM028466 and WM003175        |
|    | WM028720      | Pay terminal H=375, with gaskets WM028466 and WM003175        |
|    | WM033404      | Wincor/Nixdorf, with gaskets WM028466 and WM003175            |
|    | WM034870      | Verifone  |
|    | WM032865      | Gasket L=376, H=60, W=25                                      |
| 4  |               | <b>Front panel (Wayne std, pure white, RAL9010, gl. 70)</b>   |
|    | WM031488-0001 | A-side, 2 modules, 90°  |
|    | WM030053-0001 | A-side, 3 modules, 96°  |
|    | WM030056-0001 | A-side, 3 modules, 90°  |
|    | WM030058-0001 | A-side, 4 modules, 96°  |
|    | WM030061-0001 | A-side, 4 modules, 90°  |
|    | WM031489-0001 | B-side, 2 modules, 90°  |
|    | WM030055-0001 | B-side, 3 modules, 96°  |
|    | WM030057-0001 | B-side, 3 modules, 90°  |
|    | WM030059-0001 | B-side, 4 modules, 96°  |
|    | WM030062-0001 | B-side, 4 modules, 90°  |
|    | WM003119      | Key   |
|    | WM001994-0002 | Lock  |
|    | WM026155-0001 | Lock individually keyed (2 locks / 2 keys)                    |
|    |               | <b>Gasket isolation front panel, 90°, 2 modules (AdBlue®)</b> |
|    | WM038817      | Side A  |
|    | WM038822      | Side B  |
| 4b | WM030097      | Latch   |
| 5  |               | <b>Top panel</b>  |
|    | WM030717      | 2 module, 90°   |
|    | WM025304      | 3 module, 96°   |
|    | WM025302      | 3 module, 90°   |
|    | WM025309      | 4 module, 96°   |
|    | WM025307      | 4 module, 90°   |
|    |               | <b>Gasket isolation (AdBlue®)</b>                             |
|    | WM038847      | 710x363   |
|    | WM038848      | 555x363   |
| 6  | WM031694      | Support, U-shape, for top panel                               |
|    | WM031844      | Gasket EPDM expanding rubber self-adhering                    |
| 7  | WB000264-0001 | Plastic fastener  |
| 8  | WB000267-0001 | Edge protector grip range 1.0 - 2.0 THK                       |
|    |               | <b>Support, L-shape</b>                                       |
| 9  | WM031703      | A-side  |
| 10 | WM031705      | B-side  |

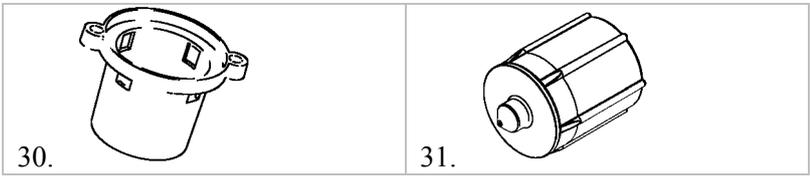
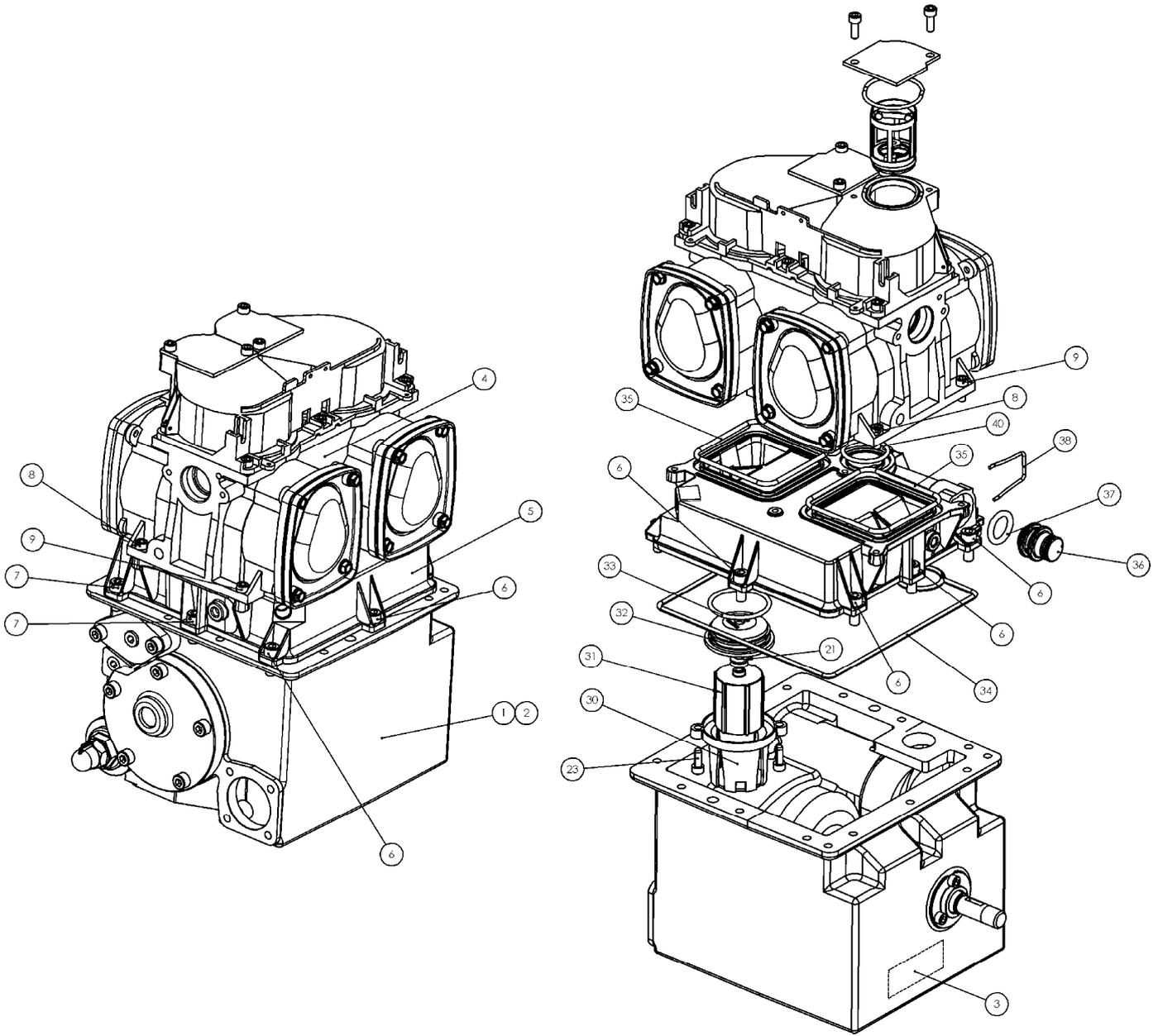


# 11 Hydraulic

## 11.1 Hydraulic module (suction pump)



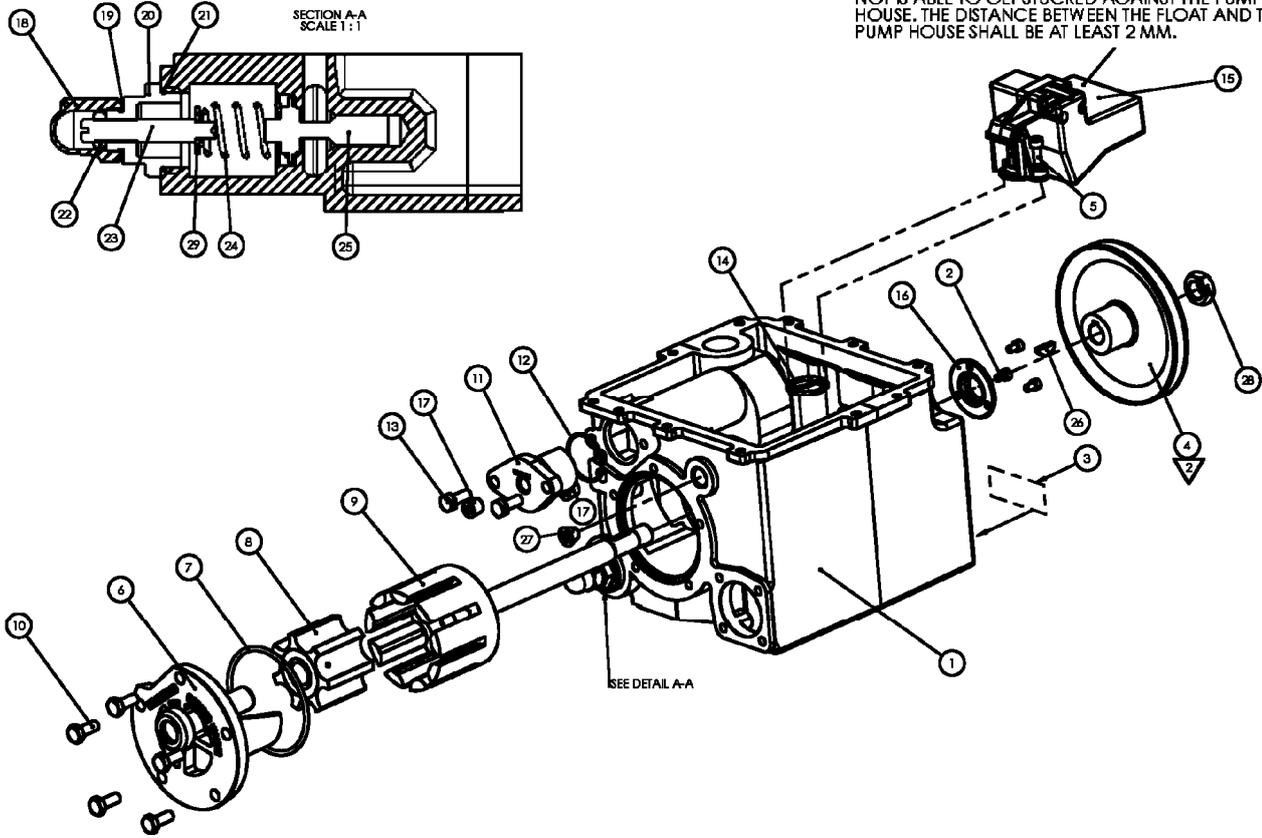
|   | Part number    | Description   |
|---|----------------|---|
| 1 |                | Pulser see page 36  |
|   |                | <b>Combined unit</b><br>With single bump connection for the air venting tube                    |
|   | WM020553-0004  | Compact pump  |
|   | WM020553-0001  | Pump and meter diesel and gasoline 40 lpm & 70 lpm  |
|   | WM020553-0002  | Pump and meter diesel and gasoline<br>single sided side A 40 lpm & 70 lpm                       |
|   | UWM009289-0004 | Pump and meter diesel 70 lpm (only U)   |
| 2 | UWM009289-0001 | Pump and meter gasoline 40 lpm (only U)   |
|   |                | <b>Fuel meter</b>   |
|   | UWM002393      | Fuel meter (field exchange part for WM002393-0001, WM002393-0002, WM002393-0003, WM002393-0004) |
|   | WM002393-0001  | Double sided, 40 lpm  |
|   | WM002393-0003  | Double sided, 70 lpm  |
|   | WM002393-0002  | Single sided side A, 40 lpm   |
| 3 | WM002393-0004  | Single sided side A, 70 lpm   |
|   | WM018719-0001  | <b>Fuel pump</b>  |
|   | WM002219-0001  | Internal gear diesel  |
|   | WM002219-0002  | Internal gear gasoline  |



|    | <b>Part number</b> | <b>Description</b>                                   |
|----|--------------------|--|
|    | see page 34        | Valve ass'y  |
| 1  | WR000632           | Housing, machined, pump                              |
| 2  |                    | - - -  |
| 3  |                    | <b>Identification label</b>                          |
|    | WM021062-0004      | Combined unit, compact pump                          |
|    | WM021062-0002      | Combined unit, pump & meter - single sided           |
|    | WM021062-0001      | Combined unit, pump & meter - double sided           |
|    | WM022147-0001      | Fuel pump, internal gear                             |
| 4  |                    | Fuel meter see page 29 and page 34                   |
| 5  |                    | <b>Cover, machined</b>                               |
|    | WM009207-0001      | With single bump connection for the air venting tube |
| 6  | WB000212-0001      | Screw, hexagon socket cap, M8 x 20                   |
| 7  | WM002220-0001      | Screw seal, hexagon socket cap, M8 x 20              |
| 8  | WM002236           | Seal screw, hexagon socket cap, M6 x 16              |
| 9  | WB000211-0001      | Screw, hexagon socket cap, M6 x 16                   |
| 21 | WM002282           | Seal, V-shape  |
| 23 | WB000260-0001      | Tapitite screw, hexagon socket cap, M6 x 16          |
| 30 | WM017874           | Float guide (old WM000474)                           |
| 31 | WM008785           | Float (old WM002234)                                 |
| 32 | WM013808           | Cover, moulded                                       |
| 33 | WM001979           | O-ring T=3.5, ID=47                                  |
| 34 | WM000611           | O-ring formed T=4                                    |
| 35 | WM002986-0001      | O-ring T=4.0, ID=98                                  |
| 36 | WM001438           | Plug   |
| 37 | WM002217           | O-ring T=5.0, ID=21                                  |
| 38 | WM001440           | Pin (Note! Pin for liquid tubes WM001925, page 46)   |
| 40 | WM000612           | O-ring T=3.5, ID=35                                  |

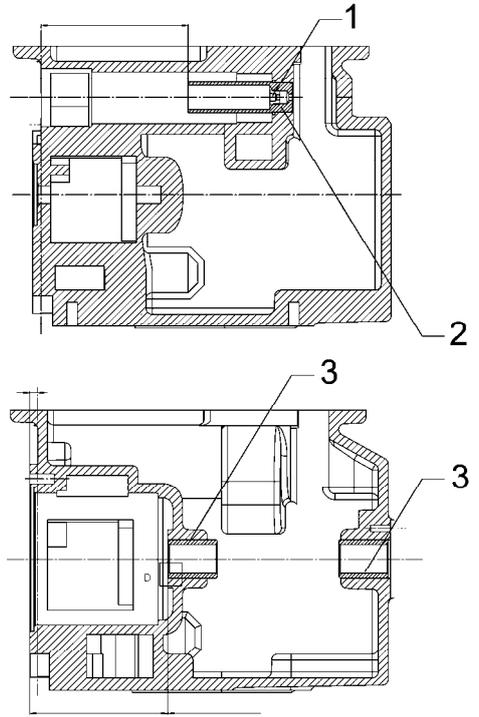
**11.1.1 Pump internal gear**

WHEN THE LOWER FLOAT, WM017958, IS ASSEMBLED IT SHALL BE CHECKED THAT THE BACK OF THE FLOAT NOT IS ABLE TO GET STUCK AGAINST THE PUMP HOUSE, THE DISTANCE BETWEEN THE FLOAT AND THE PUMP HOUSE SHALL BE AT LEAST 2 MM.

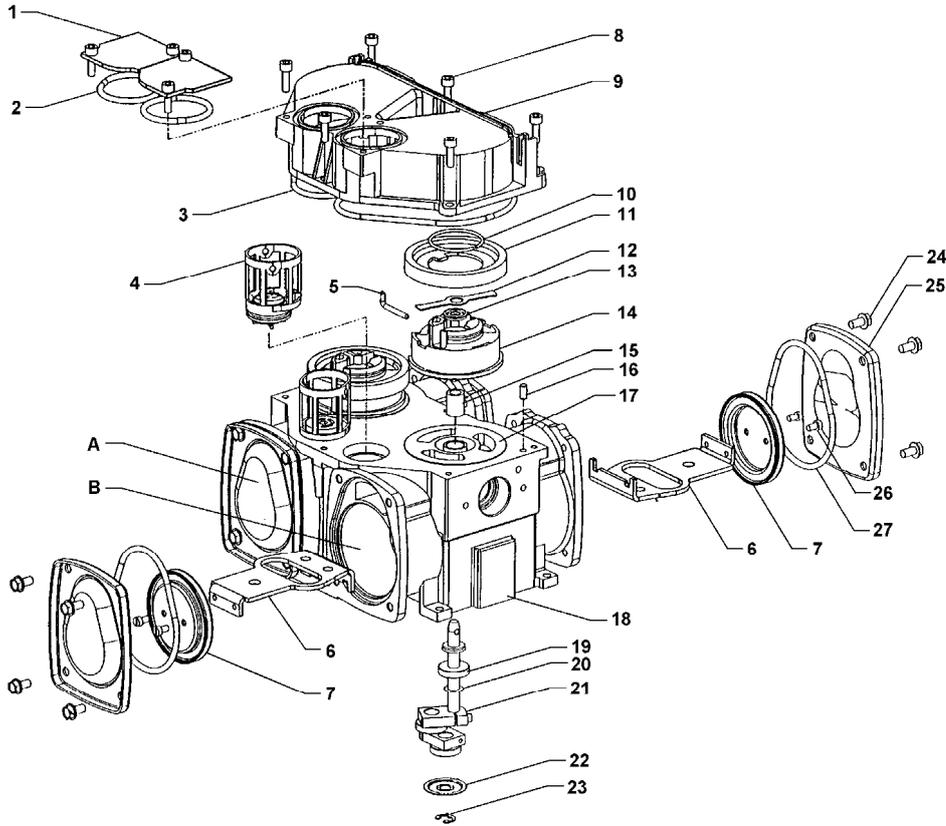


| Part number | Description  |
|-------------|--|
| 1           | WR000632 Housing   |
| 2           | ---  |
| 3           | WM022147 Identification label fuel pump, internal gear, EMEA/LA (see also page 31)                                   |
| 4           | WM022270 Pulley, Z-profile   |
| 5           | WB000211-0001 Screw, hexagon socket cap, M6 x 16   |
| 6           | WM001387 Cover, flat head and shaft  |
| 7           | WM001956 O-ring T=3.53, ID=85,32   |
| 8           | WM001420 Idler   |
| 9           | WM001426 Rotor   |
| 10          | WB000212-0001 Screw, hexagon socket cap, M8 x 20   |
| 11          | WM000700 Cover, machined end cap   |
| 12          | WM001957 O-ring T=1.78, ID=37.82   |
| 13          | WM022112 Seal screw, hex head, M8 x 20   |
| 14          | WM001953 O-ring T=3, ID=28   |
| 15          | WM017958 Float (See "Service Info SI-06-003 2006-11-06.pdf")<br>(Used in production on diesel units from 2007-03-01) |
|             | WM001430 Float   |
| 16          | WM001934 Seal  |
| 17          | WM001083 Plug 1/4"   |
| 18          | WM001088 Seal cap  |
| 19          | WM001089 Gasket ID=17, OD=26, T=0.8  |
| 20          | WM001434 Cap   |
| 21          | WM001955 O-ring T=1.78, ID=29.8  |
| 22          | WM001423 Nut hexagon   |
| 23          | WM001421 Screw adjusting   |
| 24          | WM001382 Spring D=18.5, L=58.7   |
| 25          | WM001383 Damper  |
| 26          | WM001667 Key, woodruff D=19, T=4.75  |
| 27          | WB000367-0002 Plug, hexagon socket pipe plug R3/8"   |
| 28          | WB000341-0001 Nut, 5/8" UNF jam-nut  |
| 29          | WM001422 Washer, plain ID=5, OD=10.5, T=1  |

|   | <b>Part number</b> | <b>Description</b>   |
|---|--------------------|--|
| 1 | WM001961           | Plug 1/8" NPTF L=6.35, hole=3.3 mm<br>(wrench 3/16" see below) |
|   | 452971             | Plug 1/8" NPTF L=6.35, hole=2,4 mm<br>(wrench 3/16" see below) |
|   | 452882             | Wrench (Allen key) 3/16"                                       |
| 2 | WM001078           | Air separator  |
| 3 | WM001424           | Bushing L=31.8mm   |



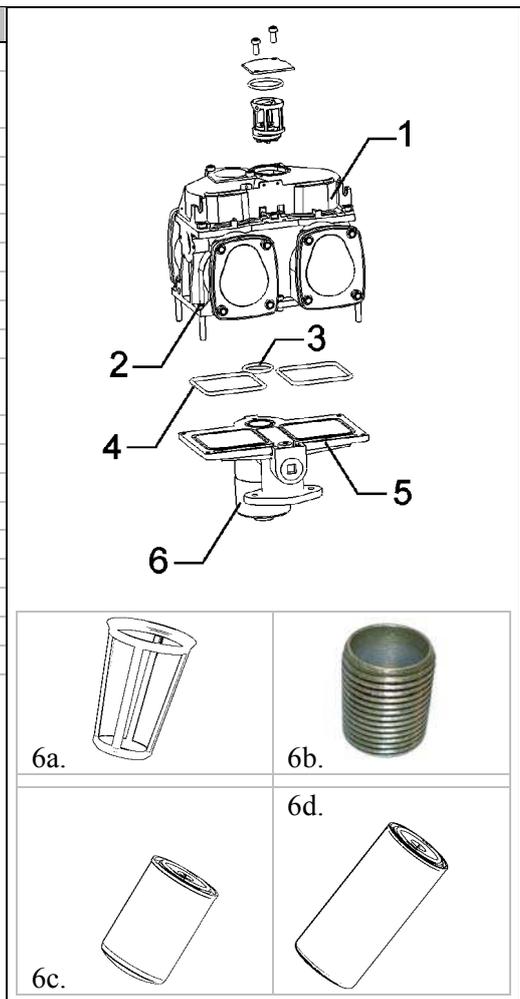
## 11.2 iMeter



|    | Part number   | Description                                    | DWG        |
|----|---------------|--|------------|
|    | WM002376-0001 | Meter Duplex ass'y                             | 001-047915 |
| 1  | WM000504      | Cover check                                    | 001-201943 |
| 2  | WM001101      | O-ring   | 001-921075 |
| 3  | WM001102      | O-ring   | 001-921076 |
| 4  | WM000695-0002 | Valve ass'y                                    |            |
|    | WM000667      | O-ring   | 001-921074 |
|    | WM023021      | Plug   |            |
| 5  |               | Pin, valve                                     | 001-201987 |
| 6  |               | Yorke meter                                    | 001-201948 |
| 7  | WM000516      | Piston ass'y                                   | -200040    |
| 8  |               | SHCS   | 001-921053 |
| 9  | WM020020-0001 | Meter dome                                     | 001-047870 |
| 10 | WM010860      | C-spring                                       | 001-201956 |
| 11 |               | Magnetic disc (see kit 174055 below)           | 001-301155 |
|    | 174055        | Modifying kit, WIP + magnetic wheel + O-rings  |            |
| 12 |               | Leaf spring                                    | 001-201947 |
| 13 |               | Seal, V-pack                                   | 001-300983 |
| 14 |               | Valve  | 001-201945 |
| 15 | WM000509      | Rulon bearing                                  | 001-921039 |
| 16 |               | Locator pin                                    | 001-201944 |
| 17 |               |  |            |
| 18 |               | Meter body                                     | 004-047913 |
| 19 |               | Bearing  | -122552    |
| 20 |               | Washer   | 001-921047 |
| 21 |               | Crank ass'y                                    | 001-300955 |
| 22 |               | Retaining washer                               | 001-201957 |
| 23 |               | Retaining ring                                 | 001-921072 |
| 24 | WM000639      | Taptite seal screw (hex head)                  |            |
|    | WM000638      | Taptite screw, hex head, M6 L=1/2" with washer | 918452     |
|    | WM000638-0001 | Taptite screw, hex head, M6 L=3/4" with washer | 513710     |
| 25 |               | <b>Cover</b>                                   |            |
|    | WM020586      | Pressed (std)                                  |            |
|    | WM001425      | Casting  |            |
| 26 |               | ---  |            |
| 27 | WM001103      | Gasket   |            |

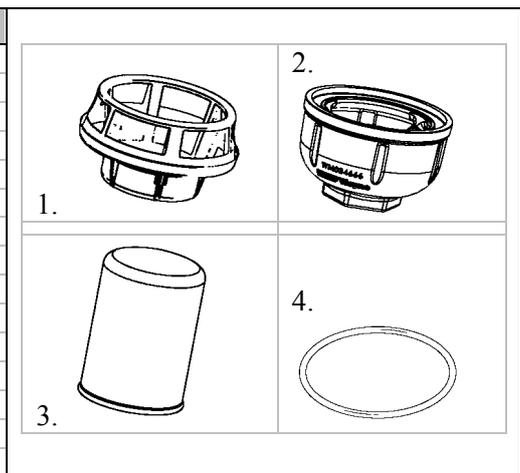
### 11.3 Hydraulic Dispenser

|    | Part number   | Description  |
|----|---------------|--|
|    | see page 34   | Valve ass'y  |
|    |               | <b>Hydraulic module for dispenser ass'y</b><br>(Combined unit, remote inlet and meter) |
|    | WM004740-0001 | Std  |
|    | WM004740-0002 | Use WM04740-0001   |
|    | WM004740-0003 | Single side A  |
|    | WM004740-0004 | Extra connection   |
|    | WM004740-0005 | Use WM004740-0004  |
|    | WM004740-0006 | Remote inlet with connection   |
|    | ---           | UREA - see spare part list WM011947  |
| 1  | ---           |  |
| 2  | WM004596      | Sealing screw, hexagon socket cap, M6X45   |
|    | WB000211-0001 | Screw MC6S 6X16 8.8 FZB  |
| 3  | WM000612      | O-ring   |
| 4  | WU002986-0001 | O-ring T=4.0, ID=98  |
| 5  |               | Dispenser bottom ass'y   |
| 6a | WB000382      | Strainer   |
| b  | WM002000      | Nipple adapter   |
|    |               | <b>Strainer</b>  |
| c  | WM002003      | 40-70L   |
| d  | WM002096      | 70-130L  |

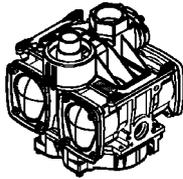


#### 11.3.1 iMeter - Dispenser - New 2010

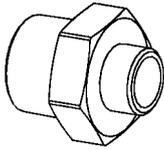
|   | Part number   | Description                                  |
|---|---------------|--|
| 1 | WM031449      | Strainer                                     |
| 2 | WM034667      | Cap  |
| 3 |               | <b>Strainer</b>                              |
| 4 | WM011606-0001 | 1 1/2" 16 UNF, gasoline & diesel             |
| 5 | WM011606-0002 | 1 1/2" 16 UNF, ethanol & bio diesel          |
| 6 | WM000613      | O-ring, T=4, ID=98                           |
|   |               | <b>Combined unit, remote inlet and meter</b> |
|   | WM032399-0001 | Double sided                                 |
|   | WM032399-0002 | Single sided A                               |
|   | WM032399-0003 | Double sided, urea                           |
|   | WM032399-0004 | Single sided a, urea                         |
|   | WM032399-0005 | Double sided with flange                     |
|   | WM032399-0006 | Single sided A with flange                   |
|   | WM032399-0007 | Double sided with flange, fluor silicon      |
|   | WM032399-0008 | Single sided A with flange, fluor silicon    |



**11.3.2 iMeter - AdBlue®**

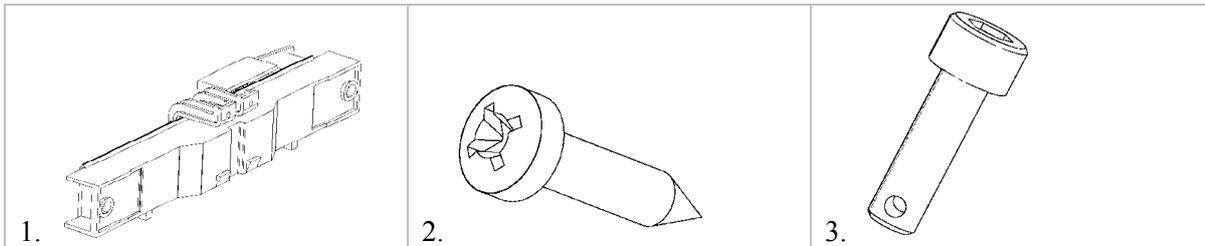
|   | Part number   | Description   |   |
|---|---------------|---|---|
|   | WM032399-0003 | Combined unit, remote inlet and meter double sided, AdBlue® |  |
|   | WM000613      | O-ring, T=4, ID=98  |   |
| 1 | WM031291      | Fläns: AdBlue® inloppsadaptor                               |   |

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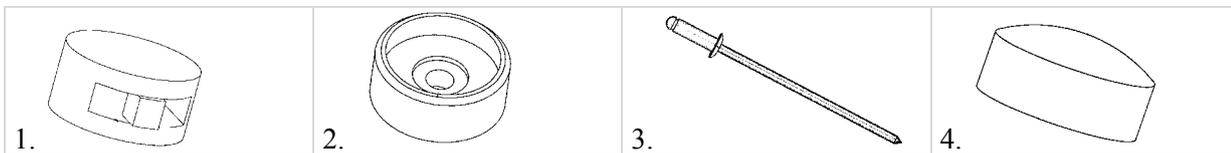
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**11.4 Pulser for iMeter**



|   | Part number     | Description  |
|---|-----------------|--|
| 1 | U WM001682-0001 | Pulser   |
| 2 | WB000396-0001   | Self tapping screw, poz, pan head, type C ST2,9 x 13 |
| 3 | WM008105        | Seal screw, hexagon socket cap, M6X20                |
|   | WB000211-0001   | Screw, hexagon socket cap, M6 x 16                   |
|   | WB000228-0003   | Nut, M6  |

**11.5 Sealing**

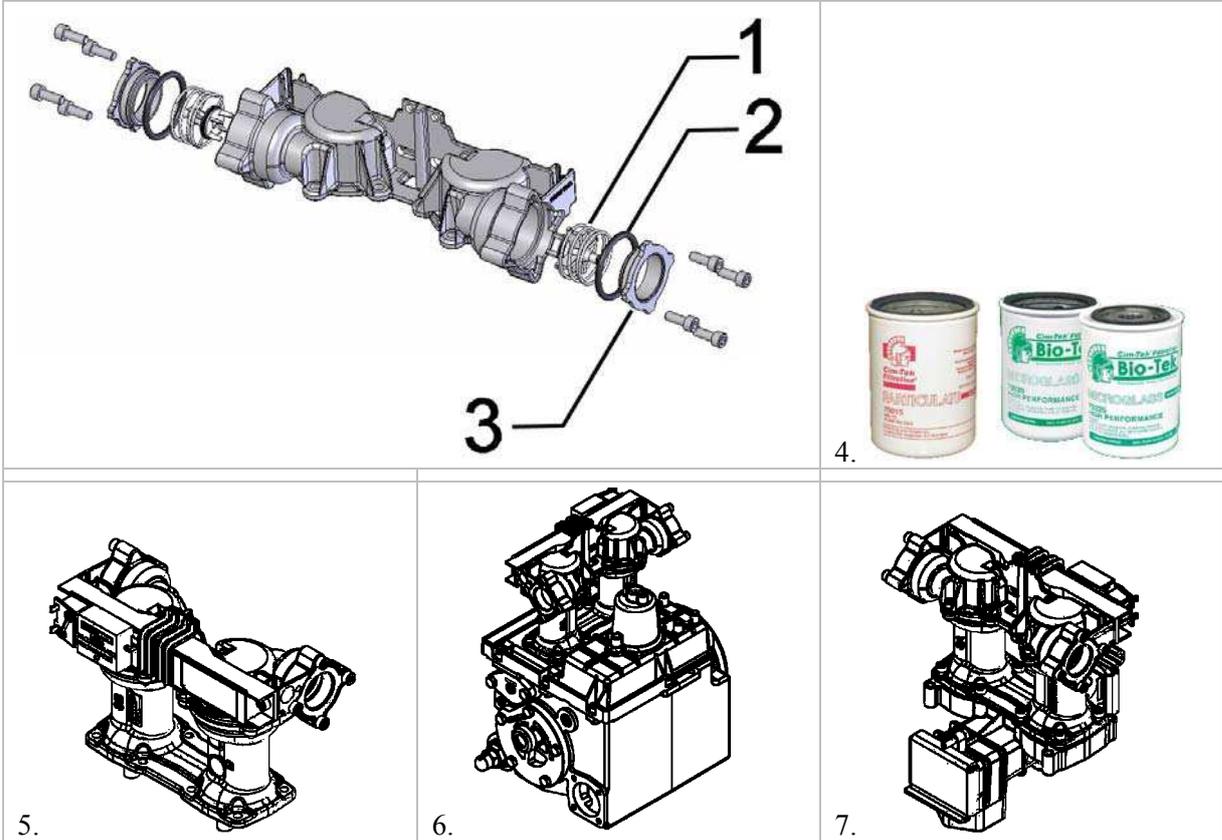


|   | Part number   | Description   |
|---|---------------|---|
| 1 | WM003776      | Seal (lead)   |
| 2 | WM005835      | Holder for lead seal Ø=10                               |
| 3 | WB000255-0001 | Pop-rivet , dome head, 2.4 diameter, grip range 2.4-4.8 |
| 4 | WM004069      | Seal, lead, Ø=10  |

## 11.6 Xflo™ (low dome cover)

**Note!**  
The XWIP is **blue** (not black)

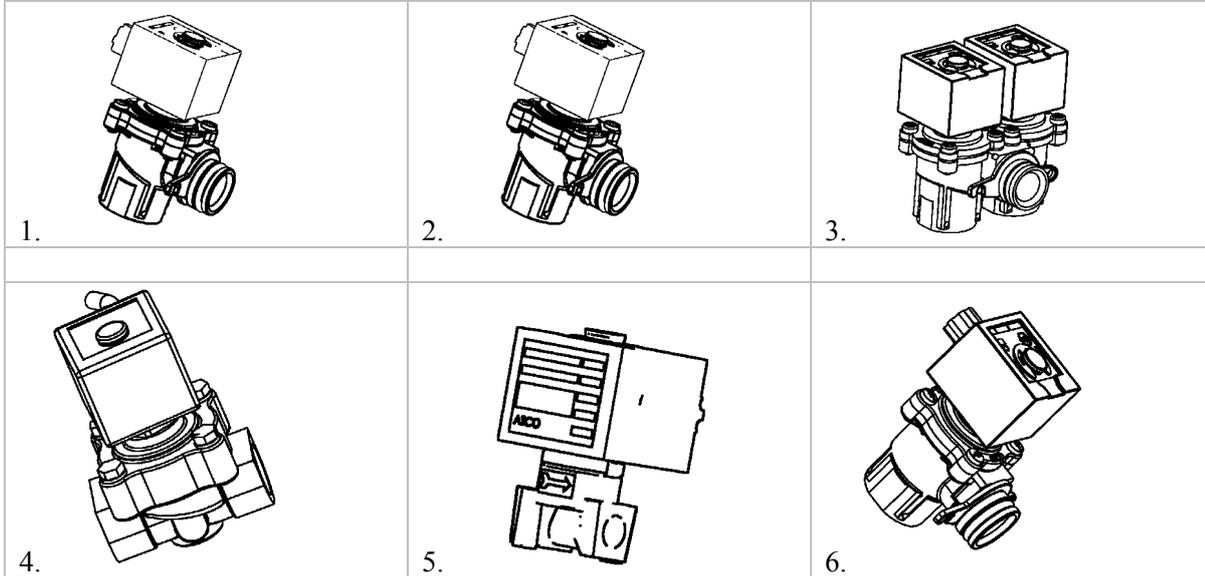
**Note!**  
Always change the Xflo™ (meter) and the XWIP (pulser) as one unit.



|   | Part number   | Description  |
|---|---------------|--|
| 1 | WM029220      | Valve  |
| 2 | WM022490      | O-ring   |
| 3 | WM018102      | Coupling for dome low  |
| 4 |               | <b>Strainer for Xflo™</b>                                    |
|   | WM011606-0001 | Gasoline & diesel  |
|   | WM011606-0002 | Ethanol & bio diesel   |
| 5 |               | <b>Meter, dome low and XWIP</b>                              |
|   | 182107        | Double sided   |
|   | 182117        | Double sided, Ethanol  |
|   | 182127        | Single A, Ethanol  |
|   | 182137        | Single B, Ethanol  |
| 6 |               | <b>Combined unit, pump, meter, dome low and XWIP</b>         |
|   | 182105        | Double sided   |
|   | 182115        | Double sided, Ethanol  |
|   | 182106        | Double sided, W&M  |
|   | 182116        | Double sided, Ethanol W&M                                    |
|   | 182125        | Single A, Ethanol  |
|   | 182135        | Single B, Ethanol  |
|   | 182126        | Single A, Ethanol, W&M                                       |
|   | 182136        | Single B, Ethanol, W&M                                       |
| 7 |               | <b>Combined unit, remote inlet, meter, dome low and XWIP</b> |
|   | WM028606-0001 | Double sided   |
|   | WM028606-0003 | Double sided, Ethanol  |
|   | WM028606-0005 | Single A, Ethanol  |
|   | WM028606-0007 | Single B, Ethanol  |

## 11.7 Valves

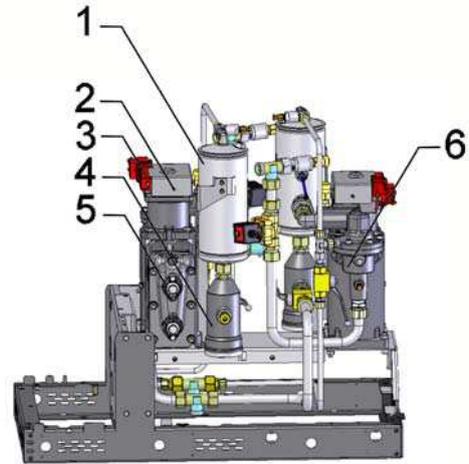
### 11.7.1 Petrol, diesel, AdBlue® & LPG



|    | Part number   | Description   |
|----|---------------|---|
| 1. | WM021181      | Solenoid valve, proportional, single, AL                    |
| 2. | WM021182      | Solenoid valve, on/off, single, AL                          |
| 3. | WM000340      | Solenoid valve, proportional, duplex                        |
| 4. | WM002190      | Solenoid valve, on/off LPG                                  |
| 5. |               | <b>Solenoid valve vapour, on/off, single</b>                |
|    | WM021576-0001 | Cable L=3m  |
|    | WM021576-0002 | Cable L=5m  |
| 6. | WM015630      | Solenoid valve, proportional, single nickelplated (AdBlue®) |

## 11.8 LPG

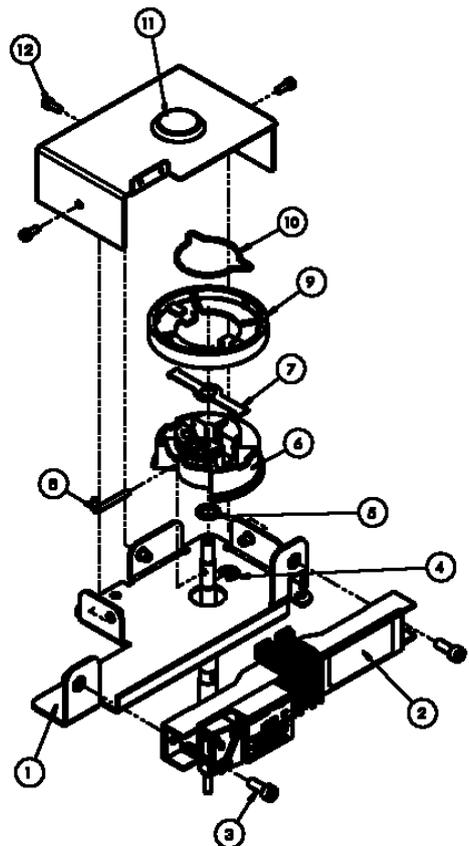
| Part number   | Description  |
|---------------|--|
| 1             | <b>Air separator</b>                                   |
| WM032474      | Without temperature sensor                             |
| WM032465      | Plug G1/8"   |
| WM032467      | Washer, sealing<br>ID= 10.2, OD=13.9, T=1              |
| WM032475      | With temperature sensor                                |
| WM019643-0001 | Temperature sensor                                     |
| WM032465      | Plug G1/8"   |
| WM032467      | Washer, sealing<br>ID= 10.2, OD=13.9, T=1              |
| 2             | WM021745 WIP box, LPG meter (see page 39)              |
| 3             | WM031856-0001 Pulsar, WIP (red)                        |
| 4             | WT000529 Filter  |
|               | WT000435 Filter cartridge                              |
|               | WT000478 O-ring, T=3.53, ID=74.61                      |
|               | WT000443 Plug hex. socket head, with gasket,<br>G 3/8" |
| 5             | WM032471 Meter (see also page 41)                      |
| 6             | WT000555 Differential valve 3/8" (see page 40)         |



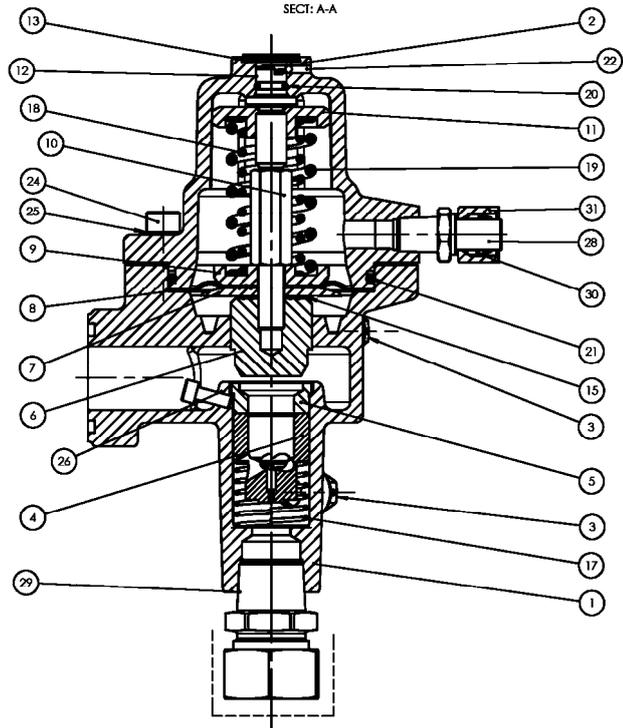
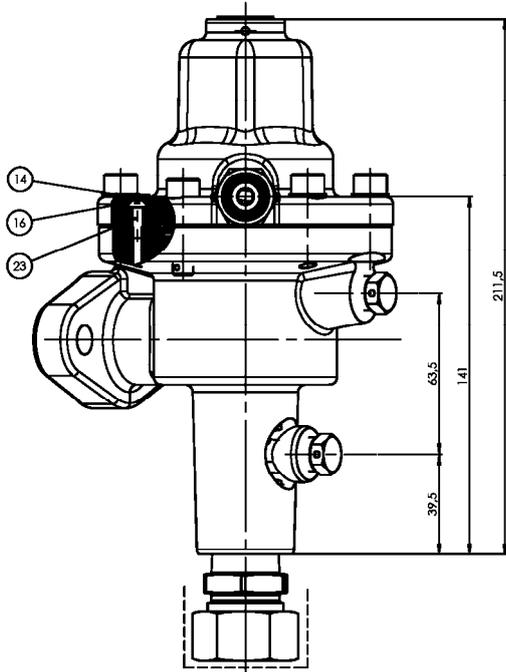
Tubes - see page 75.  
Solenoid valve - see page 38

### 11.8.1 WIP box

| Part number | Description   |
|-------------|---|
| WM021745    | WIP box, LPG meter  |
| WM021728    | Pin for rotating valve, L=196   |
| WM021732    | Support, box shape, WIP box   |
| 1           | WM031856-0001 Pulsar WIP LPG (red)                                      |
| 2           | WM002236 Seal screw, hexagon socket CAP, M6 x 16                        |
| 3           | WB000404 Retaining ring, external e-type, shaft=9.5<br>dia, ID=7, T=0.9 |
| 4           | WM000634 Washer, plain ID=9.72, OD=16.25,<br>T=0.76                     |
| 5           | WM000495 Valve  |
| 6           | WM000496 Spring, plain  |
| 7           | WM000510 Pin  |
| 8           | WM000502 Magnet, ring   |
| 9           | WM010860 Spring, retainer   |
| 10          | WM021730 Cover plate WIP box  |
| 11          | WM003767 Seal screw, hexagon socket cap, M4 x 10                        |



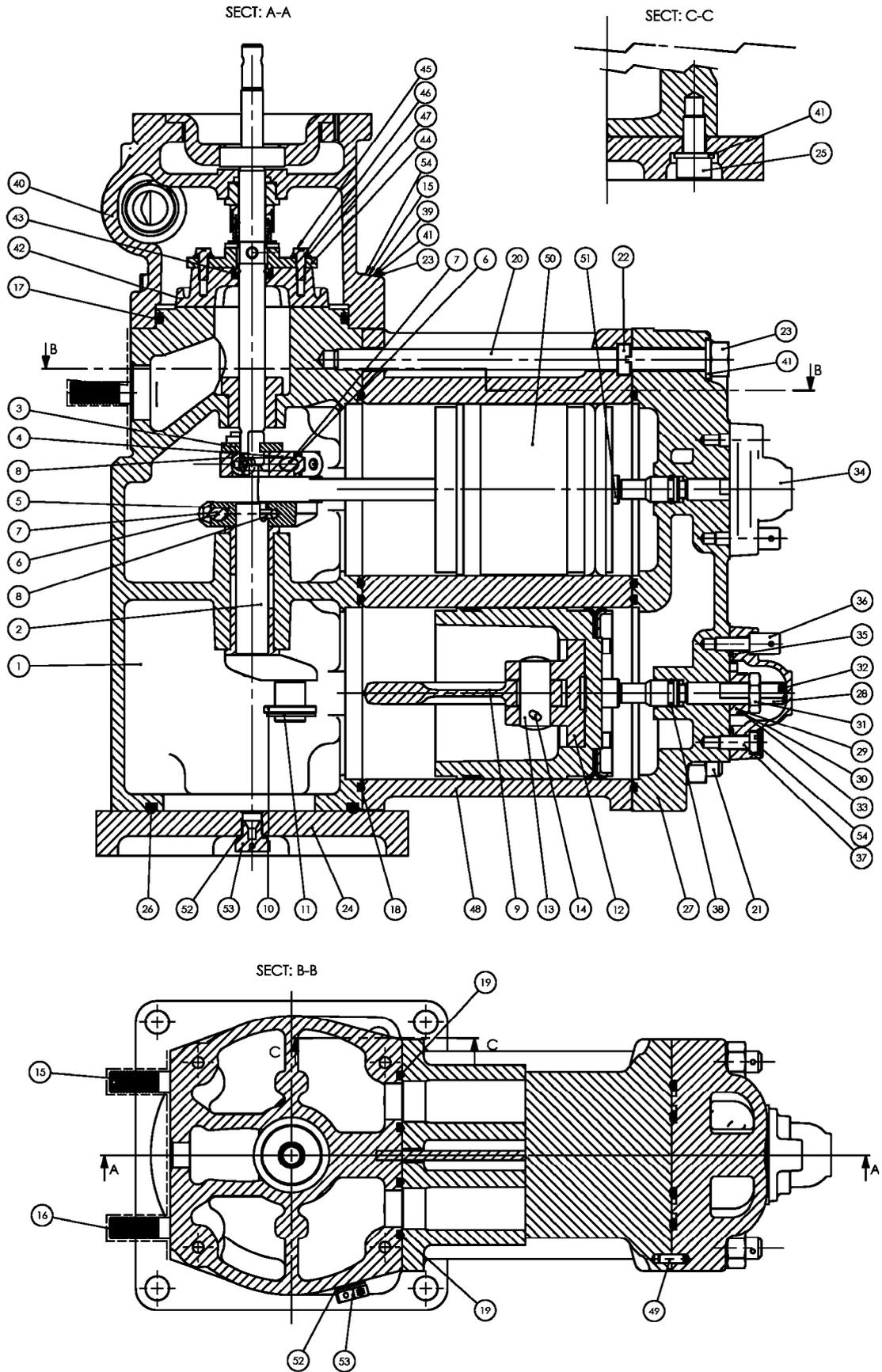
**11.8.2 Differential control-valve - LPG**



|    | Part number | Description                              |
|----|-------------|--|
|    | WT000555    | Differential valve 3/8"<br>(see page 39) |
| 1  | WT000442    | Housing machined                         |
| 2  | WT000485    | Cover machined                           |
| 3  | WT000496    | Plug ,seal plug 1/4" NPT                 |
| 4  | WT000488    | Bushing valve                            |
| 5  | WT000486    | Bushing valve seat                       |
| 6  | WT000487    | Valve                                    |
| 7  | WT000494    | Cap                                      |
| 8  | WT000552    | Gasket membrane                          |
| 9  | WT000489    | Bushing spring seat                      |
| 10 | WT000491    | Spacer, blind , M10                      |
| 11 | WT000490    | Cap for spring                           |
| 12 | WT000492    | Screw M12 x 40                           |
| 13 | WT000497    | Sealing, lead OD= 22 T=3                 |
| 14 | WT000499    | Seal cap                                 |
| 15 | WT000493    | Gasket ID=10, OD=28, T=1                 |
| 16 | WT000498    | Sealing, lead                            |
| 17 | WT000513    | Spring, compression OD=28.5,<br>L=47     |
| 18 | WT000512    | Spring, compression OD=26,<br>L=70       |

|    | Part number   | Description                                 |
|----|---------------|---|
| 19 | WT000511      | Spring, compression OD=35,<br>L=68          |
| 20 | WT000554      | O-ring T=2, ID=9                            |
| 21 | WT000478      | O-ring T=3.53, ID=74.61                     |
| 22 | WB000684-0001 | Locator pin, grooved, OD=3,<br>L=28         |
| 23 | WB000706      | Screw , M4 x 12, slotted cheese<br>head     |
| 24 | WB000212-0005 | Screw, hexagon socket cap,<br>M8 x 25       |
| 25 | WB000687      | Washer, lock, M8 ID=8.1,<br>OD=14.1, T=2    |
| 26 | WB000210-0001 | Screw, hexagon socket cap,<br>M5 x 10       |
| 27 | WT001039      | Seal screw, hexagon socket cap,<br>M8 x 30  |
| 28 | WT001099      | Coupling, straight male 1/4"<br>NPT - DN:12 |
| 29 | WB000726      | Coupling, straight 22mm x 3/4" -<br>14 NPT  |
| 30 | WE001173      | Ring progressive, DN 12                     |
| 31 | WE001172      | Nut DN 12                                   |

**11.8.3 LPG meter**



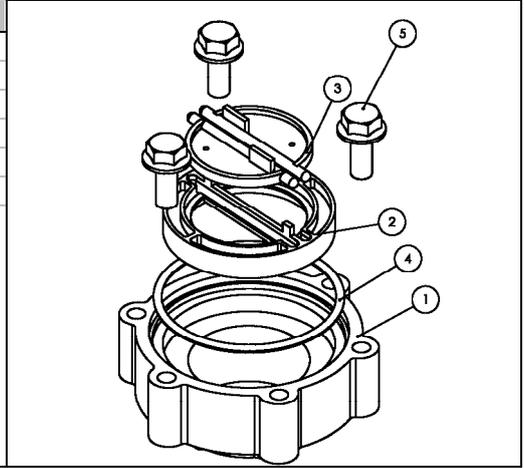
|    | <b>Part number</b> | <b>Description</b>                  |
|----|--------------------|-------------------------------------|
|    | <b>WM032471</b>    | <b>Meeter</b>                       |
| 1  | WM032469           | Housing assembly                    |
| 2  | WT000570           | Shaft machined                      |
| 3  | WT000571           | Washer with notch                   |
| 4  | WT000574           | Clamp                               |
| 5  | WT000576           | Crank arm machined                  |
| 6  | WB000211-0006      | Screw, hexagon socket CAP, M6 x 35  |
| 7  | WB000228-0003      | Nut, M6                             |
| 8  | WB000718-0001      | Locator pin ,grooved, L=30          |
| 9  | WT000580           | Lever connecting rod and bushing    |
| 10 | WT000563           | Washer OD=24 ID=14 TH=3.2           |
| 11 | WM002070           | Retaining ring, external e-type     |
| 12 | WT000583           | Support piston , machined           |
| 13 | WT000584           | Pin, piston                         |
| 14 | WB000732-0001      | Cotter pin , split, L= 36           |
| 15 | WT001038           | Stud, M10 x 30, with sealing hole   |
| 16 | WB000736-0001      | Stud, M10 x 30                      |
| 17 | WT000585           | O-ring, ID=82.14                    |
| 18 | WT000634           | O-ring, ID=85                       |
| 19 | WT000635           | O-ring, ID=22                       |
| 20 | WT000586           | Stud, M10 x 182                     |
| 21 | WT000587           | Stud, M10 x 179, with hole=2        |
| 22 | WT000588           | Nut, M10 with notch                 |
| 23 | WB000228-0006      | Nut, M10                            |
| 24 | WM032456           | Flange machined, base               |
| 25 | WT000622           | O-ring, ID=89                       |
| 26 | WT000594           | Cover                               |
| 27 | WB000308-0003      | Screw, hexagon socket cap, M10 x 20 |
| 28 | WT000595           | Screw calibration M10 x 76          |
| 29 | WT000596           | Nut calibration                     |
| 30 | WB000719-0001      | Spring, pin slotted, L=8            |

|    | <b>Part number</b> | <b>Description</b>                             |
|----|--------------------|--|
| 31 | WB000228-0008      | Nut, M10 , thin                                |
| 32 | WB000731-0001      | Cotter pin , split, L=16                       |
| 33 | WB000719-0002      | Spring, pin slotted, L=12                      |
| 34 | WT000597           | Seal cap                                       |
| 35 | WT000636           | O-ring, ID=33.5                                |
| 36 | WT000598           | Seal screw M6x16                               |
| 37 | WB000714-0001      | Screw , M6 x 14, slotted cheese head           |
| 38 | WT000554           | O-ring, ID=9                                   |
| 39 | ---                | ---  |
| 40 | WM032470           | Housing with shaft, unit                       |
| 41 | WB000717           | Washer, lock, M10 ID=10.2, OD=18.1, T=2.2      |
| 42 | WT000624           | Valve , rotary valve , machined                |
| 43 | WT000602           | Gasket lip seal                                |
| 44 | WT000629           | Flange notched                                 |
| 45 | WB000706           | Screw , M4 x 12, slotted cheese head           |
| 46 | WB000715           | Washer, lock, M4 ID=4.1, OD=7.6, T=0.9         |
| 47 | WB000232-0002      | Washer, plain, M4 ID=4.3, OD=9, T=0.8          |
| 48 | WT000592           | Housing cylinders                              |
| 49 | WB000728-0001      | Locator pin , straight, 4 x 12                 |
| 50 | WT000620           | Piston unit                                    |
| 51 | WB000212-0002      | Screw, hexagon socket cap, M8 x 16             |
| 52 | <b>WM032467</b>    | <b>Washer , sealing ID= 10.2, OD=13.9, T=1</b> |
| 53 | WM033255           | Plug G1/8", with sealing hole                  |
| 54 | WB000576-0001      | Screw, hex head, M10 x 30                      |
| 55 | WT000621           | Sealing, lead                                  |

## 12 Inlet

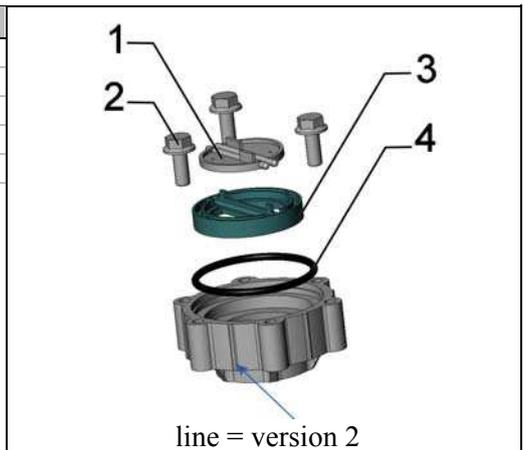
### 12.1 Valve non return (version 1)

|   | Part number   | Description                           |
|---|---------------|---------------------------------------|
|   | WM000449      | Valve non return (version1)           |
| 1 | WM013549      | Flange machined                       |
| 2 | WM000440      | Bracket                               |
| 3 | WM000441      | Flap                                  |
| 4 | WM024090      | O-ring                                |
| 5 | WM009773-0001 | Screw, hex head, M8 x 20, with flange |



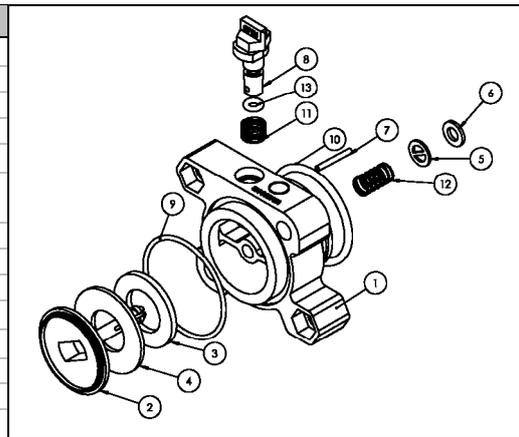
### 12.2 Valve non return (version 2)

|   | Part number   | Description                         |
|---|---------------|-------------------------------------|
|   | WM027491      | Valve, non return (version 2)       |
| 1 | WM027488      | Flap                                |
| 2 | WM009773-0001 | Screw, hex head, M8X20, with flange |
| 3 | WM027489      | Bracket                             |
| 4 | WM027490      | O-ring, ID=62;T=4.0                 |



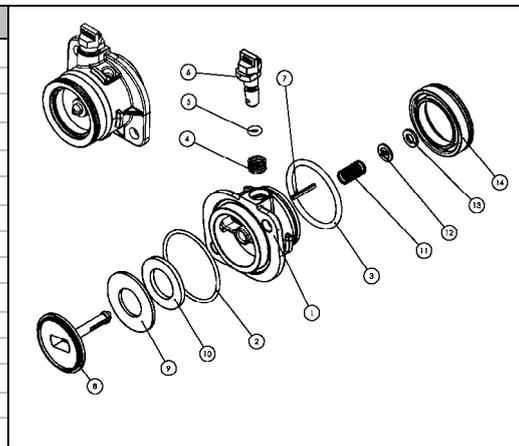
### 12.3 Check valve (version 1)

|    | Part number | Description  |
|----|-------------|--|
|    | WM000470    | <b>Check valve</b>                                       |
| 1  | WM000442    | Housing, machined  |
| 2  | WM000443    | Valve  |
| 3  | WM000469    | Washer, plain ID=21.0, OD=36.0, T=3.0                    |
| 4  | WM000466    | Gasket   |
| 5  | WM000445    | Washer, retaining ID=8.0, OD=12.5, T=1.0, with extra rib |
| 6  | WM000468    | Washer, plain ID=6.4, OD=12.0, T=1.5                     |
| 7  | WM000467    | Spring, PIN L=20, OD=2.5                                 |
| 8  | WM000444    | Knob   |
| 9  | WM000464    | O-ring T=2.0, ID=47                                      |
| 10 | WM000462    | O-ring T=3.5, ID=42                                      |
| 11 | WM000454    | Spring T=1, ID=10, C=2.54 N/mm                           |
| 12 | WM000456    | Spring T=0.55, ID=7.95                                   |
| 13 | WM000465    | O-ring T=2.4, ID=4.3                                     |



### 12.4 Check valve (version 2)

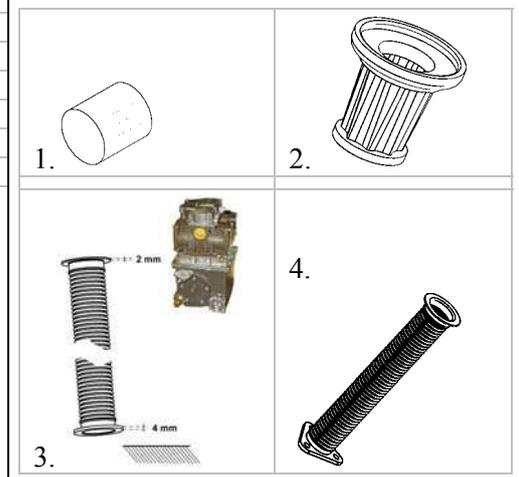
|    | Part number | Description                               |
|----|-------------|---|
|    | WM026049    | <b>Check valve (version 2)</b>            |
| 1  | WM025955    | Housing, check valve                      |
| 2  | WM000464    | O-ring ID=47                              |
| 3  | WM000462    | O-ring ID=42                              |
| 4  | WM000454    | Spring T=1, ID=10                         |
| 5  | WM000465    | O-ring ID=4.3                             |
| 6  | WM000444    | Knob                                      |
| 7  | WM000467    | Spring, pin L=20                          |
| 8  | WM000443    | Valve                                     |
| 9  | WM000466    | Gasket                                    |
| 10 | WM000469    | Washer, plain OD=36.0                     |
| 11 | WM000456    | Spring                                    |
| 12 | WM000445    | Washer, retaining OD=12.5, with extra rib |
| 13 | WM000468    | Washer, plain ID=6.4, OD=12.0             |
| 14 | WM003152    | Seal (rubber)                             |



### 12.5 Global inlet

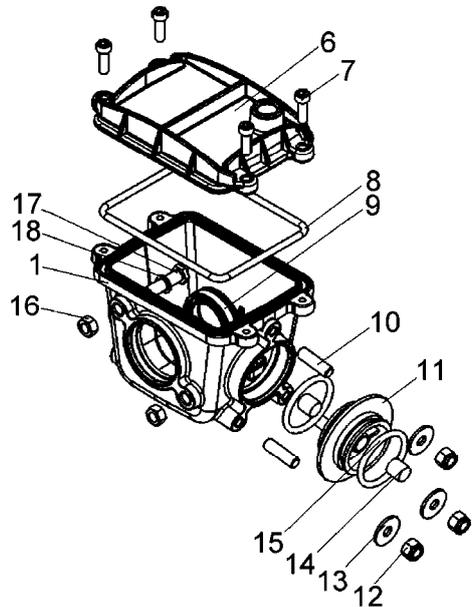
|   | Part number   | Description  |
|---|---------------|--|
| 1 | WM002209      | Magnet, block OD=12, L=13                          |
| 2 | WM000436      | Strainer   |
|   |               | <b>Tube, flexible</b>                              |
| 3 | WM000788-0001 | 350 mm (option)                                    |
|   | WM000788-0005 | 425 mm (standard)                                  |
|   | WM000788-0002 | 550 mm (option)                                    |
|   | WM000788-0003 | 625 mm (option)                                    |
|   | WM000788-0004 | 750 mm (option)                                    |
| 4 |               | <b>Tube, flexible - triangular flange (option)</b> |
|   | WM029703-0001 | 350 mm (option)                                    |
|   | WM029703-0002 | 425 mm (option)                                    |

**NOTE!**  
The magnets are powerful. Be careful not to get pinched when handling the magnets.



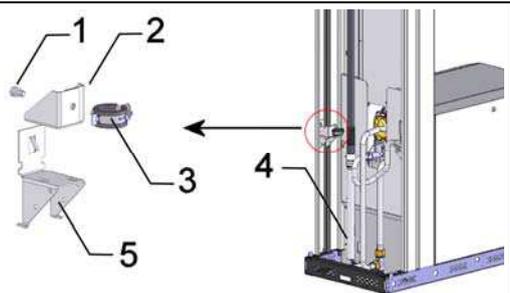
## 12.6 Filter pot

| Part number      | Description  |
|------------------|--|
|                  | <b>Filter pot</b>  |
| WM021502-0001    | Standard, inlet left   |
| WM021502-0002    | Standard, inlet right  |
| WM021502-0003    | Hydro (indicates water), inlet left  |
| WM021502-0004    | Hydro (indicates water), inlet right   |
| WM021502-0005    | Bio diesel, inlet left   |
| WM021502-0006    | Bio diesel, inlet right  |
| 1 WM020452-0001  | Housing filter pot   |
| 2                | <b>Filter</b> (When you opened the filter pot you need a new O-ring, WM021210)   |
| WM003157         | Cellulose  |
| WM007580         | Hydro (indicates water)  |
| WM021247         | Bio diesel   |
| 3,4,5            | ---  |
| 6 WM007307       | Cover filter pot   |
| 7 WB000211-0003  | Screw, hexagon socket cap, M6 X 20   |
| 8 WM021210       | O-ring formed T=4 mm   |
| 9 WM003152       | Seal (rubber)  |
| 10 WB000375-0001 | Stud, M8 x 30  |
| 11 WM020485      | Coupling, straight filter pot  |
| 12               | Lock nut, M8<br>(Do not tighten too hard, T=3 Nm)<br>(for galvanic isolation use washer WM000627-001 and lock nut WB000229-0004) |
| 13 WB000627-0001 | Washer, plain, M8 , large ID=8.4, OD=24, T=2   |
| 14 WM002209      | Magnet   |
| 15 WM020495      | O-Ring T=3,65, ID=41,5   |
| 16 WB000228-0004 | Nut, M8  |
| 17 WM017243      | Seal ID=8,7, OD=14, T=1,5  |
| 18 WM009022-0001 | Screw, hex head, M8 x32, low head, thread 12 MM  |



## 12.7 Inlet Global Star V Slave/SAT

| Part number     | Description                        |
|-----------------|------------------------------------|
| 1 WB000212-0003 | Screw, hexagon socket cap, M8 X 12 |
| 2 WM037779      | Support, L-shape, for clamp        |
| 3 WM023073      | Clamp, 32-35mm                     |
| 4 WM037776      | Steel tube                         |
| 5 WM032782      | Support U-shape                    |



Dresser Wayne strongly recommends using emergency shut-off valves to prevent substantial fuel leakage (not supplied by Wayne).  
Observe strict compliance with local installation instructions, to avoid pipe/pump leakage that may result in substantial fuel leakage.

Emergency shut-off valve

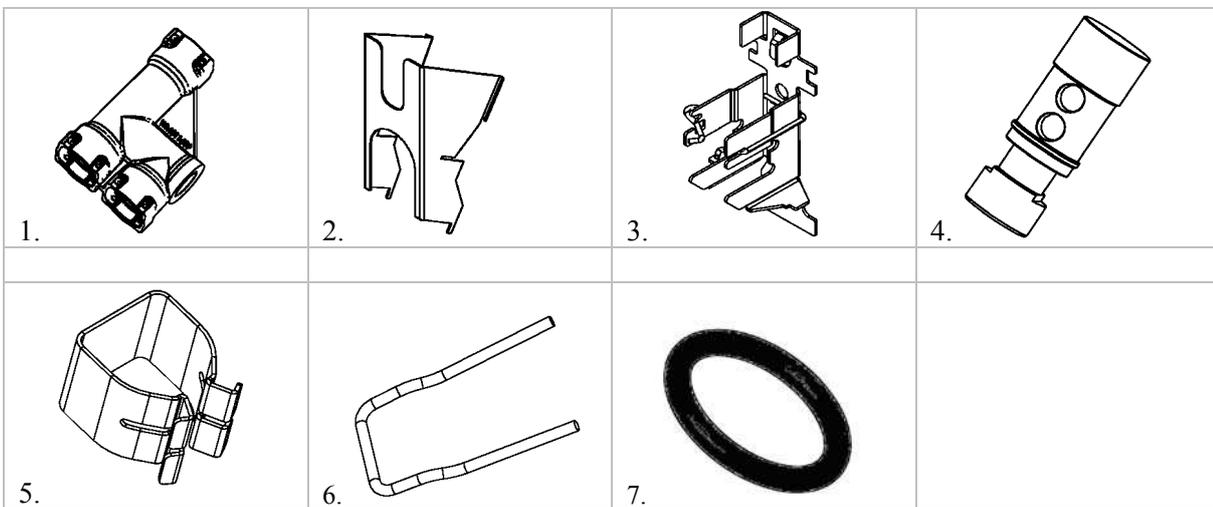
# 13 Tubes



You will find the tube number printed on the tube.

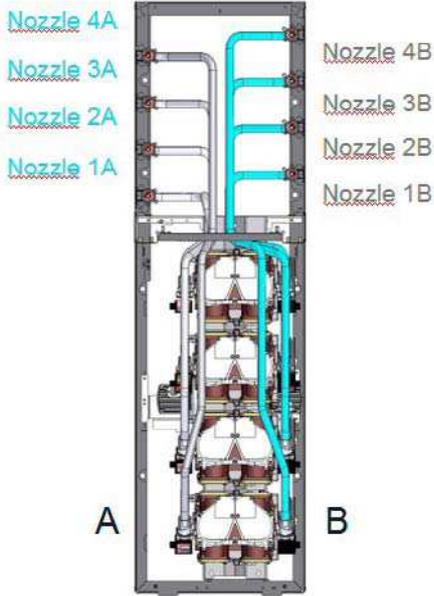


## 13.1 Misc.

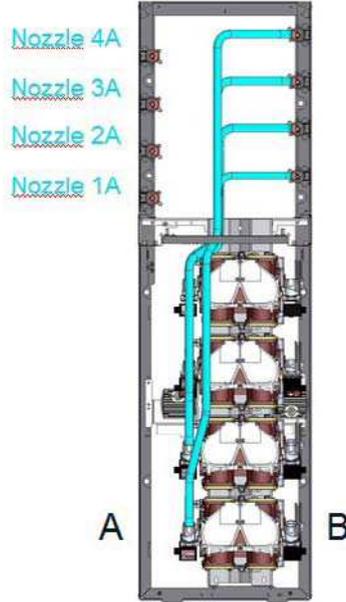


|   | Part number | Description                                     |
|---|-------------|---|
| 1 | WM011609    | Coupling, female double bump, 2 inlet, 1 outlet |
| 2 | WM041139    | Cover, hose connector                           |
| 3 | WM030445    | Hose connector with pin                         |
| 4 | WM028989    | Hose connector with VR                          |
| 5 | WM028990    | Hose connector VR lock                          |
| 6 | WM001925    | Lock pin for tube fitting                       |
|   |             | <b>O-ring</b>                                   |
| 7 | WM024393    | T=4,2 id=23                                     |
|   | WM038241    | Vapour tubes to hose connector, T=3,53, id=9,12 |
|   | WM041834    | Vapour tubes, T=3.0, id=9.0                     |

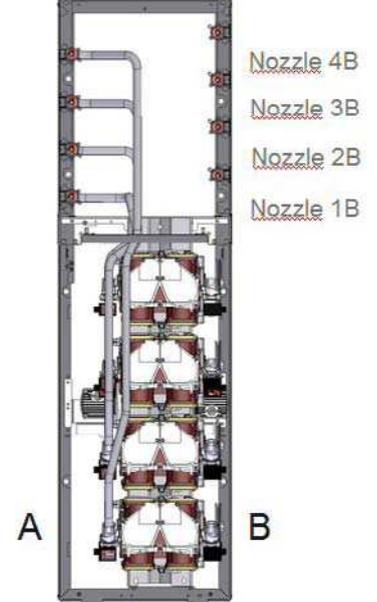
**Tubes - Fuel delivery**



Double sided

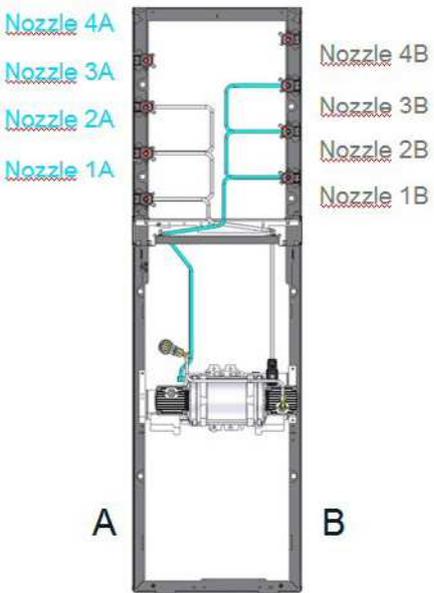


Single A

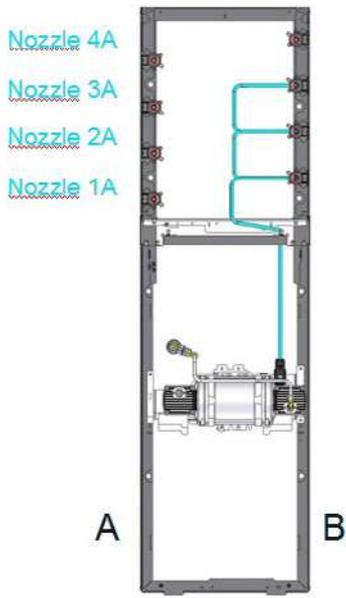


Single B

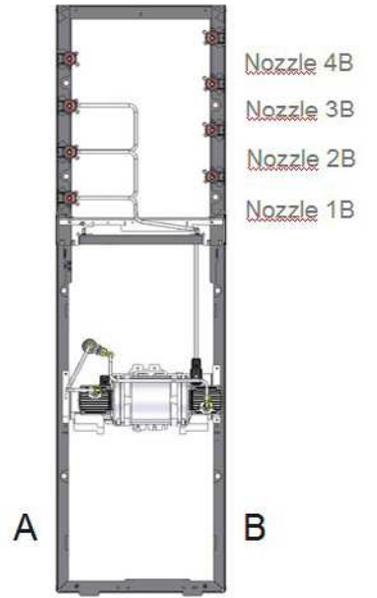
**Tubes - Vapour**



Double sided



Single A



Single B

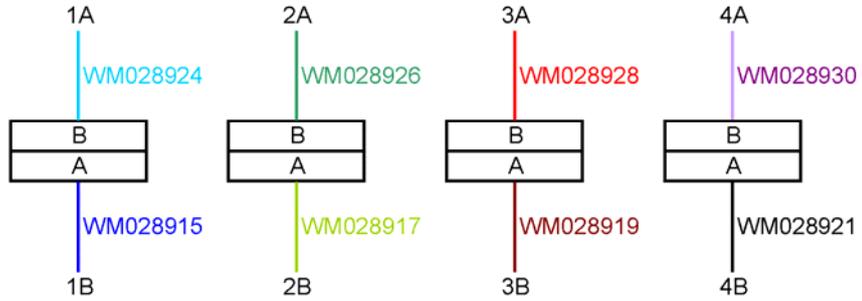
## 13.2 HH & HHR

### 13.2.1 Liquid tubes (HH & HHR)

#### STANDARD

Style  
11-11\*  
22-22\*  
33-33\*  
44-44\*

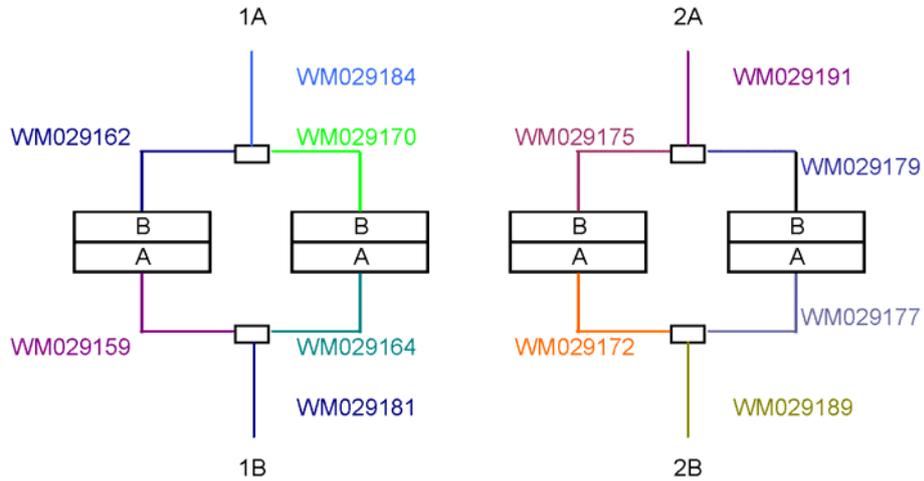
Flow rate  
40 & 70 & 40-70



#### HIGH FLOW MODELS

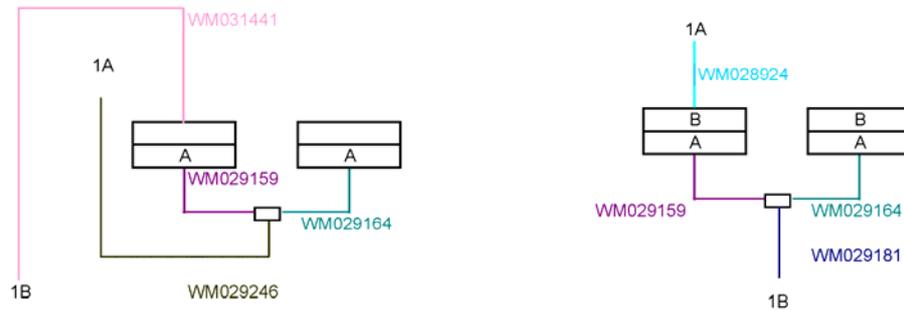
Style  
11-21\*  
22-42\*

Flow rate  
130



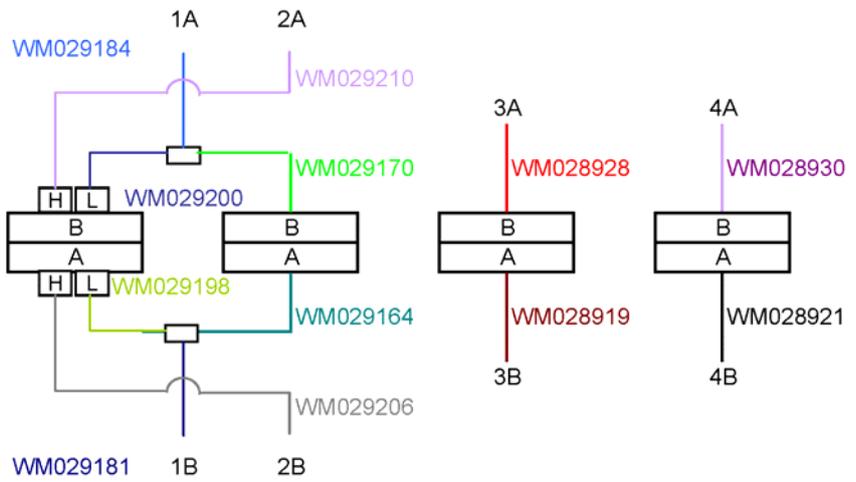
Style  
11-211

Flow rate  
130//40



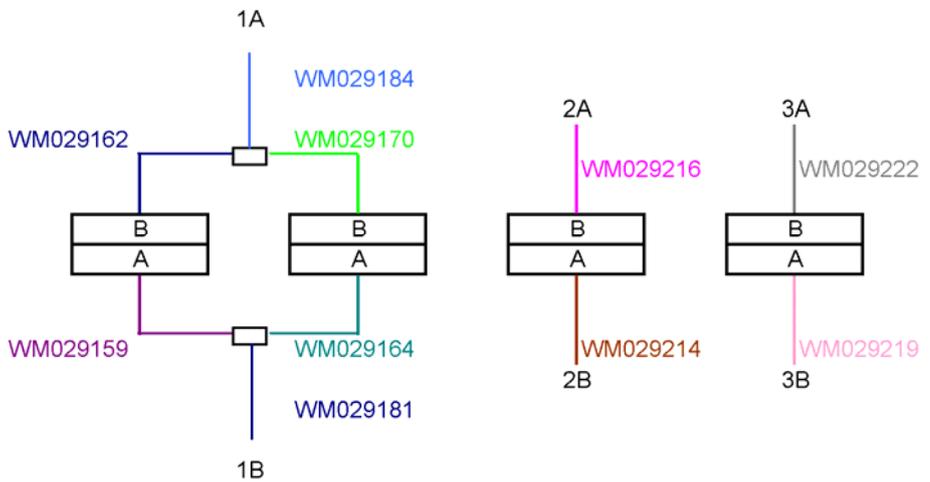
Style  
11-22\*  
22-33\*  
33-44\*

Flow rate  
130/40  
130/40/40  
130/40/40/40



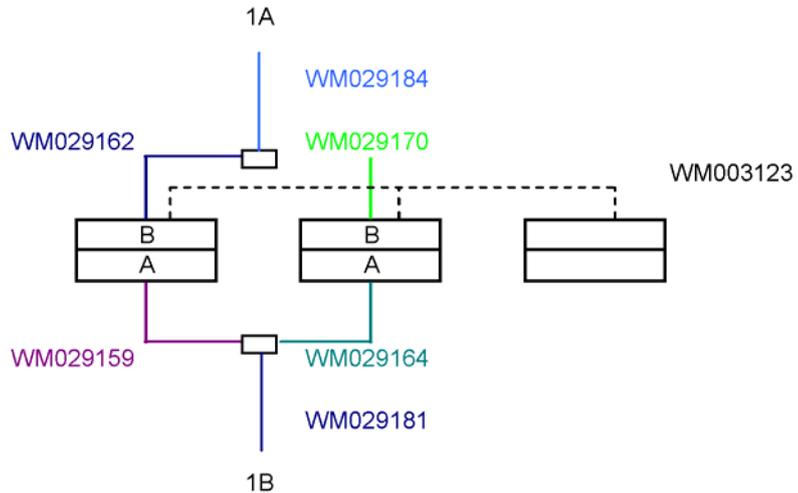
Style  
22-32\*  
33-43\*

Flow rate  
130/40  
130/40/40



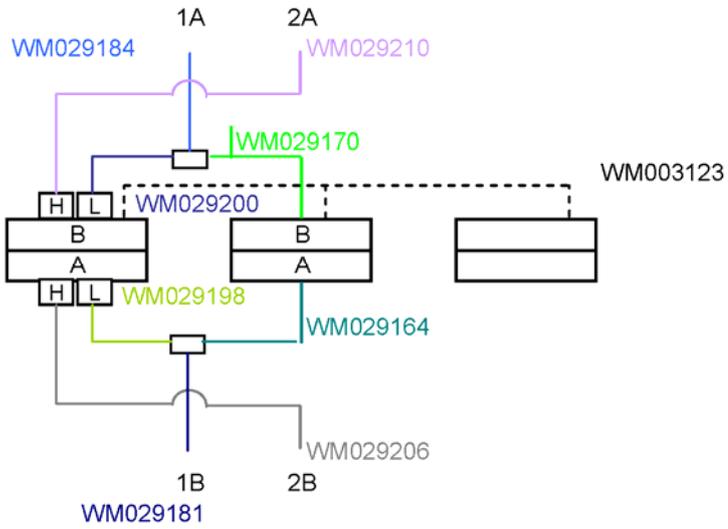
Style  
11-31\*

Flow rate  
130 SIM



Style  
11-32\*

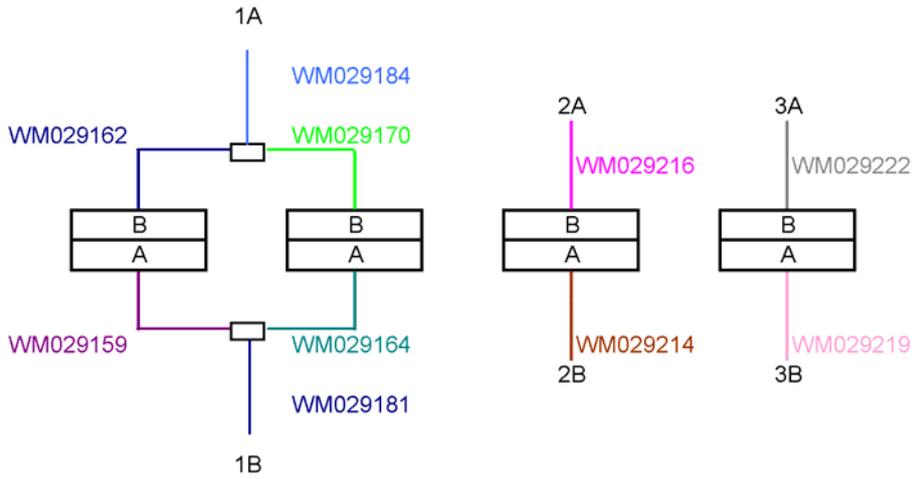
Flow rate  
130 SIM/40



**BLEND MODELS**

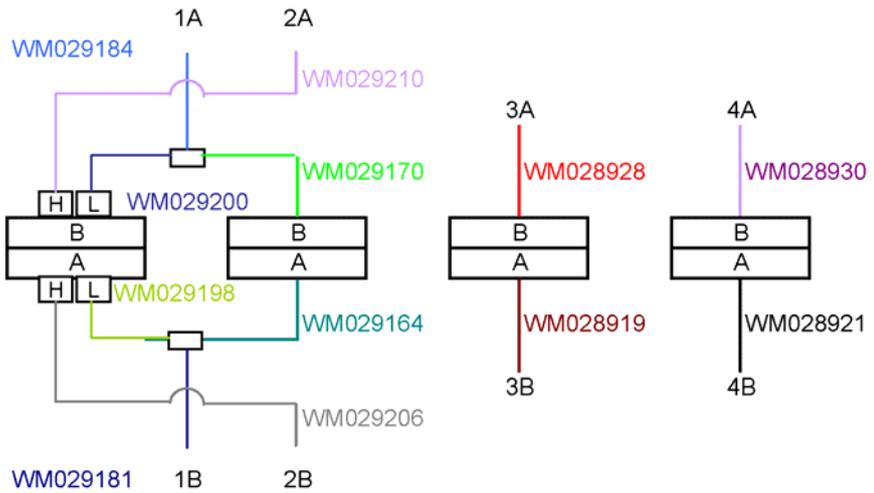
Style  
23-21\*  
34-32\*  
45-43\*

Flow rate  
40

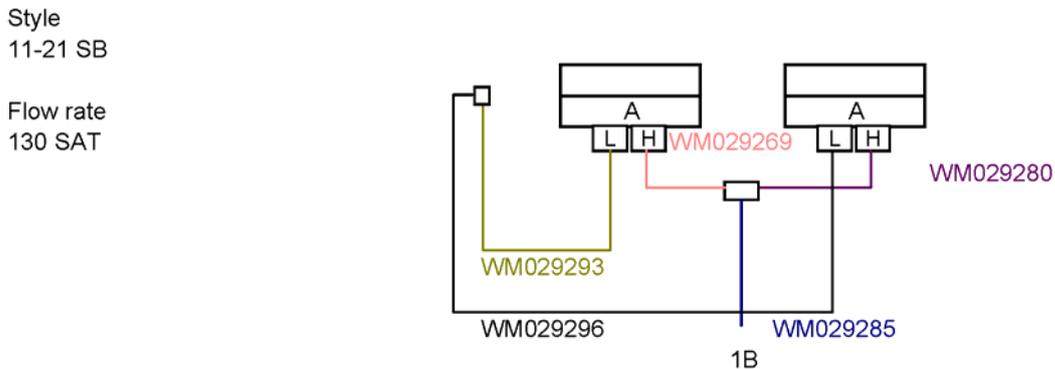
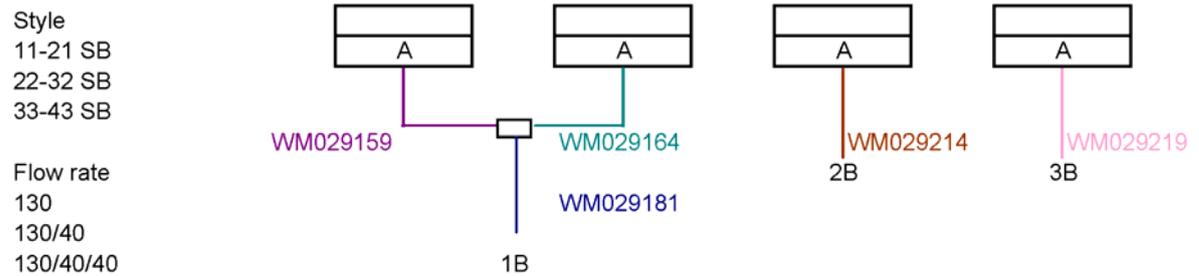
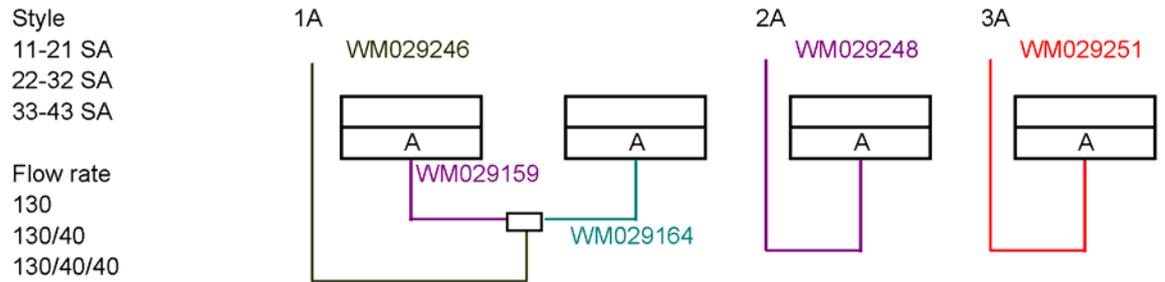
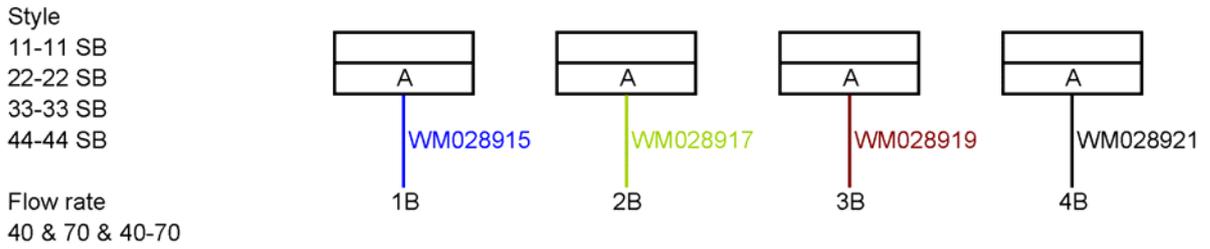
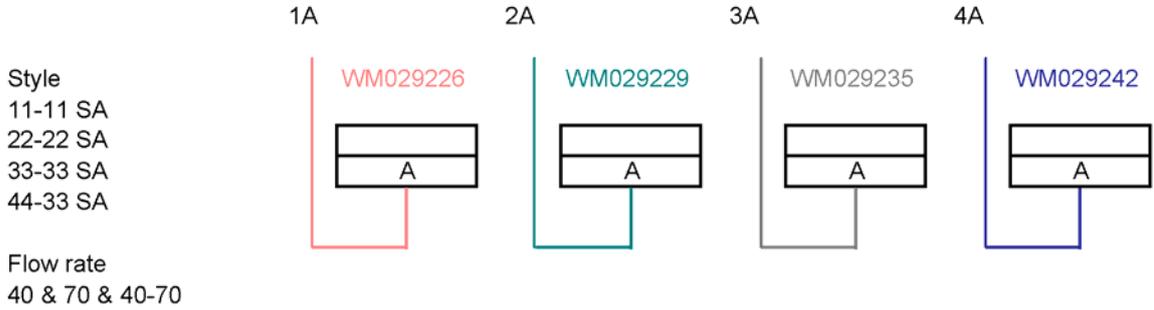


Style  
23-22\*  
34-33\*  
45-44\*

Flow rate  
40/40  
40/40/40  
40/40/40/40

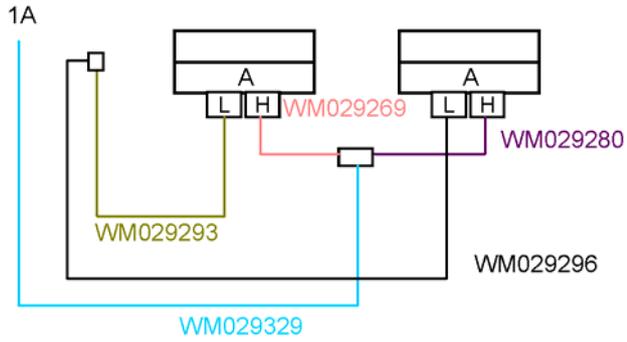


**SINGEL SIDE MODELS**



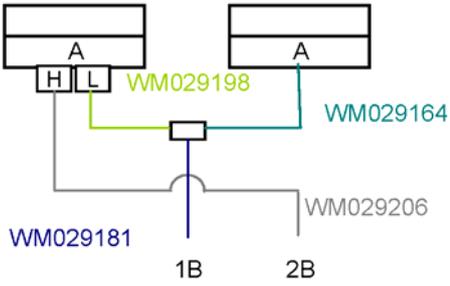
Style  
11-21 SA

Flow rate  
130 SAT



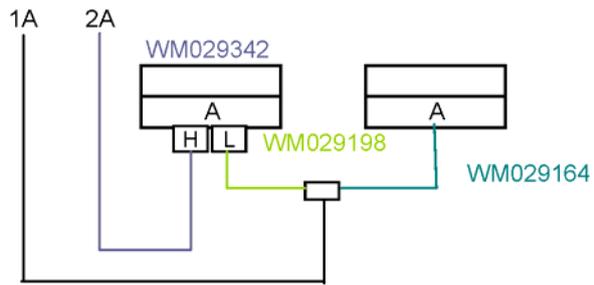
Style  
11-22 SB

Flow rate  
130/40



Style  
11-22 SA

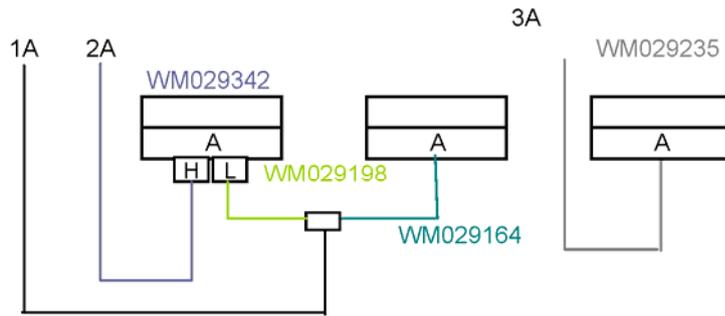
Flow rate  
130/40



WM029246

Style  
22-33 SA

Flow rate  
130/40/40

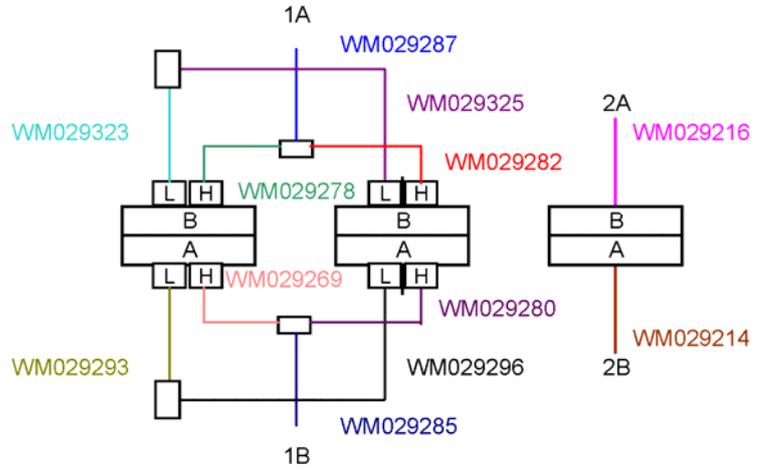


WM029246

**SAT MODELS**

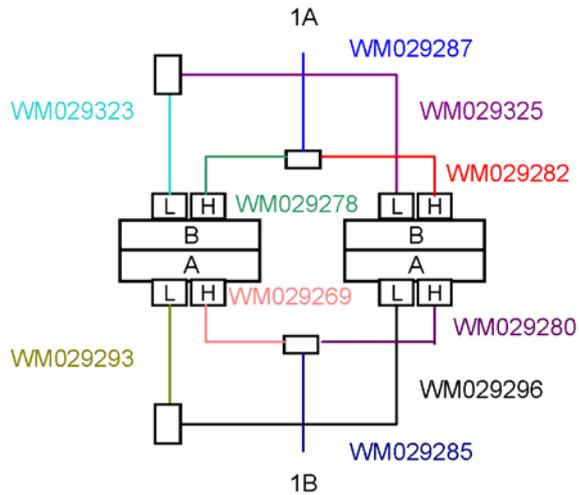
Style  
22-32\*

Flow rate  
130 SAT OUT/40



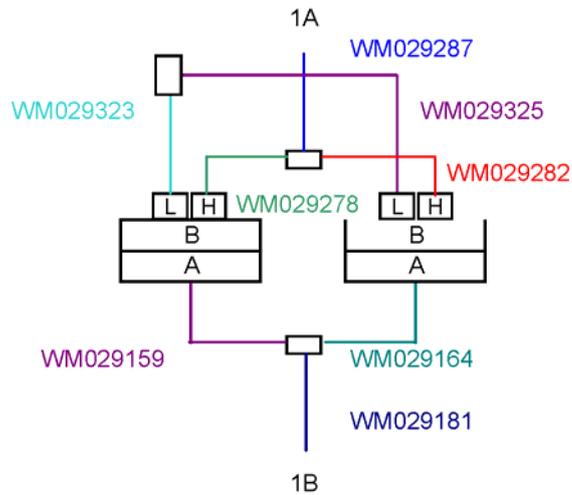
Style  
11-21\*

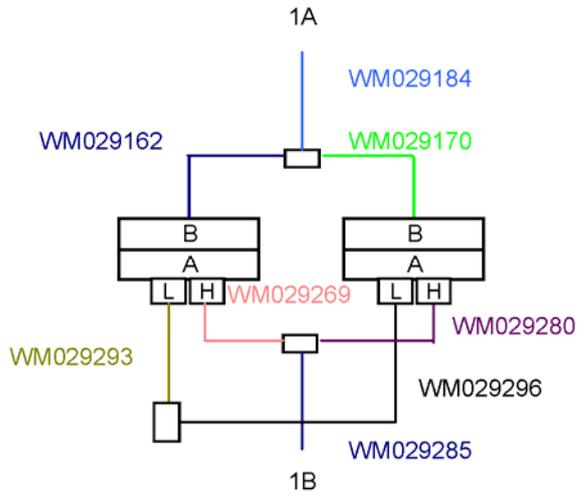
Flow rate  
130 SAT OUT//



Style  
11-211

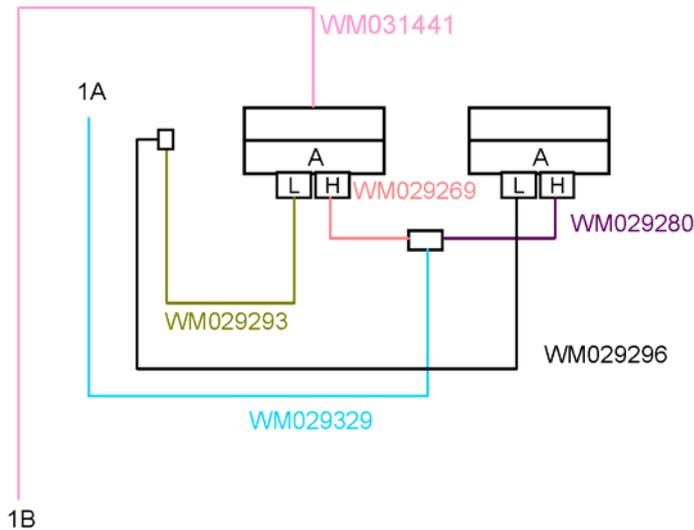
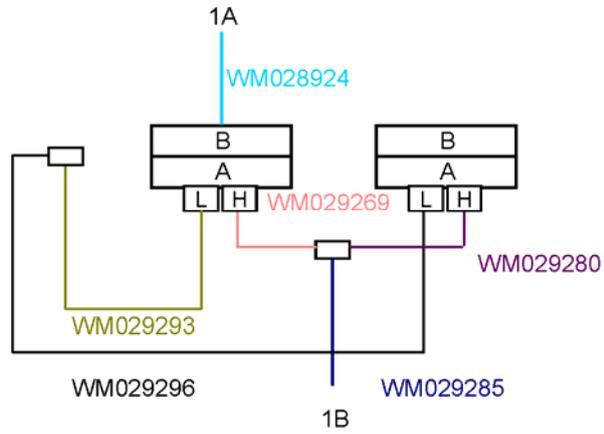
Flow rate  
130 SAT OUT//130





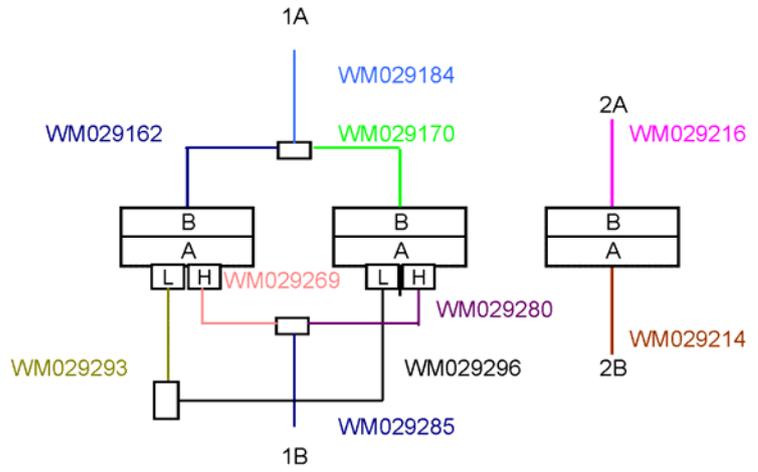
Style  
11-211

Flow rate  
130 SAT OUT//40



Style  
22-322

Flow rate  
130 SAT OUT/40//  
130/40



**Liquid tubes Global Star V HH & HHR**

See also the drawings above.

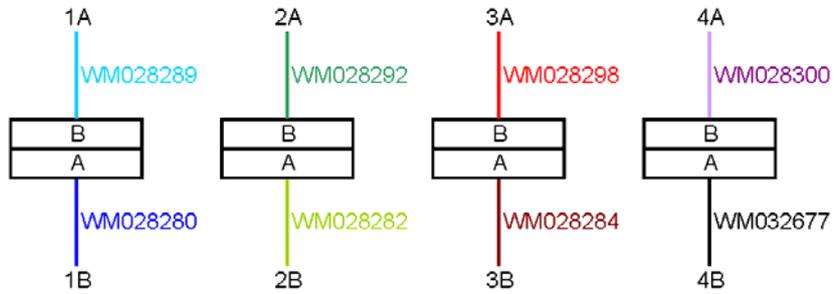
|  | <b>Part number</b> | <b>Description</b>   |
|--|--------------------|--|
|  | WM011609           | Coupling, female double bump, 2 inlet, 1 outlet            |
|  | WM028924           | Side B, hydraulic 1, hose connection 1B                    |
|  | WM028926           | Side B, hydraulic 2, hose connection 2B                    |
|  | WM028928           | Side B, hydraulic 3, hose connection 3B                    |
|  | WM028930           | Side B, hydraulic 4, hose connection 4B                    |
|  | WM028915           | Side A, hydraulic 1, hose connection 1A                    |
|  | WM028917           | Side A, hydraulic 2, hose connection 2A                    |
|  | WM028919           | Side A, hydraulic 3, hose connection 3A                    |
|  | WM028921           | Side A, hydraulic 4, hose connection 4A                    |
|  | WM029162           | Side B, hydraulic 1, to coupling                           |
|  | WM029170           | Side B, hydraulic 2, to coupling                           |
|  | WM029175           | Side B, hydraulic 3, to coupling                           |
|  | WM029179           | Side B, hydraulic 4, to coupling                           |
|  | WM029159           | Side A, hydraulic 1, to coupling                           |
|  | WM029164           | Side A, hydraulic 2, to coupling                           |
|  | WM029172           | Side A, hydraulic 3, to coupling                           |
|  | WM029177           | Side A, hydraulic 4, to coupling                           |
|  | WM029184           | Side B, Coupling - hose connection 1B                      |
|  | WM029181           | Side A, coupling - hose connection 1A                      |
|  | WM029191           | Side B, coupling - hose connection 2B                      |
|  | WM029189           | Side A, coupling - hose connection 2A                      |
|  | WM029210           | Side B, hydraulic 1, duplex valve (U) - hose connection 2B |
|  | WM029206           | Side A, hydraulic 1, duplex valve (U) - hose connection 2A |
|  | WM029200           | Side B, hydraulic 1, duplex valve (L) - coupling           |
|  | WM029198           | Side A, hydraulic 1, duplex valve (L) - coupling           |
|  | WM036828           | Side A, hydraulic 2, hose connection 1A                    |
|  | WM029216           | Side B, hydraulic 3, hose connection 2B                    |
|  | WM029214           | Side A, hydraulic 3, hose connection 2A                    |
|  | WM029222           | Side B, hydraulic 4, hose connection 3B                    |
|  | WM029219           | Side A, hydraulic 4, hose connection 3A                    |
|  | WM029226           | Side A, hydraulic 1, hose connection 1B                    |
|  | WM029229           | Side A, hydraulic 2, hose connection 2B                    |
|  | WM029235           | Side A, hydraulic 3, hose connection 3B                    |
|  | WM029242           | Side A, hydraulic 4, hose connection 4B                    |
|  | WM029248           | Side A, hydraulic 3, hose connection 2B                    |
|  | WM029251           | Side A, hydraulic 4, hose connection 3B                    |
|  | WM029246           | Side B, coupling - hose connection 1B                      |
|  | WM029293           | Side A, hydraulic 1, duplex valve (L), SAT                 |
|  | WM029296           | Side A, hydraulic 2, duplex valve (L), SAT                 |
|  | WM029269           | Side A, hydraulic 1, duplex valve (U) - coupling           |
|  | WM029280           | Side A, hydraulic 2, duplex valve (U) - coupling           |
|  | WM029285           | Side A, coupling - hose connection 1A, SAT model           |
|  | WM029329           | Side A, coupling - hose connection 1B, SAT model           |
|  | WM029342           | Side A, Hydraulic 1, duplex valve (U) - hose connection 2B |
|  | WM029323           | Side B, hydraulic 1, duplex valve (L), SAT                 |
|  | WM029325           | Side B, hydraulic 2, duplex valve (L), SAT                 |
|  | WM029278           | Side B, hydraulic 1, duplex valve (U) - coupling           |
|  | WM029282           | Side B, hydraulic 2, duplex valve (U) - coupling           |
|  | WM029287           | Side B, Coupling - hose connection 1B, SAT model           |
|  | WM031441           | Side B, hydraulic 1, hose connection 1A                    |

**13.2.2 Liquid tubes (HH & HHR) (first two years of production)**

**STANDARD**

Style  
11-11\*  
22-22\*  
33-33\*  
44-44\*

Flow rate  
40/40/40/40  
40-70/40/40/40  
70/40/40/40



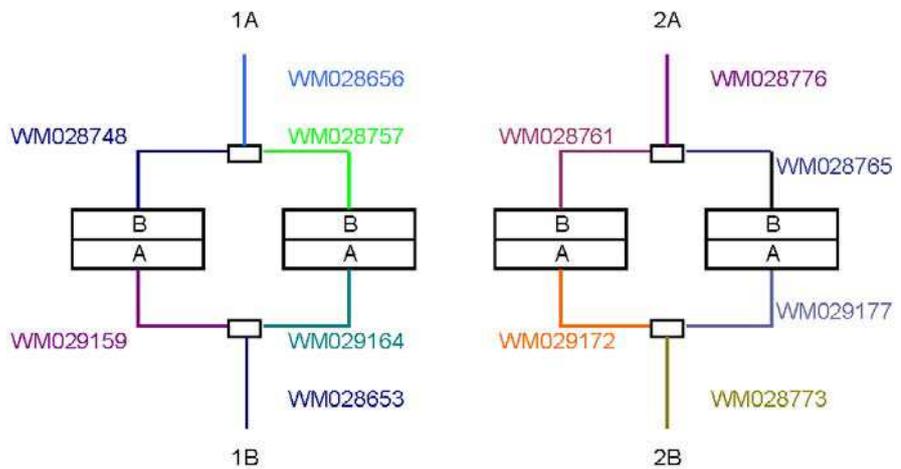
**HIGH FLOW MODELS**

Style  
11-21\*  
22-42\*

Flow rate  
130

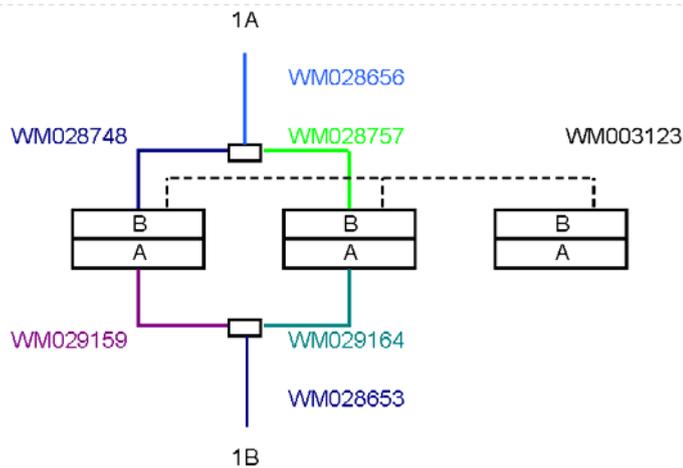
Style  
23-21\*

Flow rate  
40



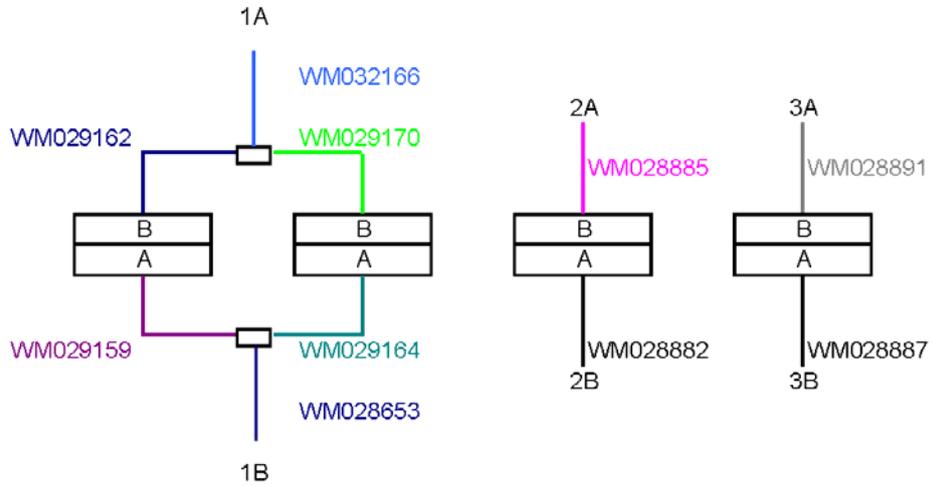
Style  
11-31\*

Flow rate  
130 SIM



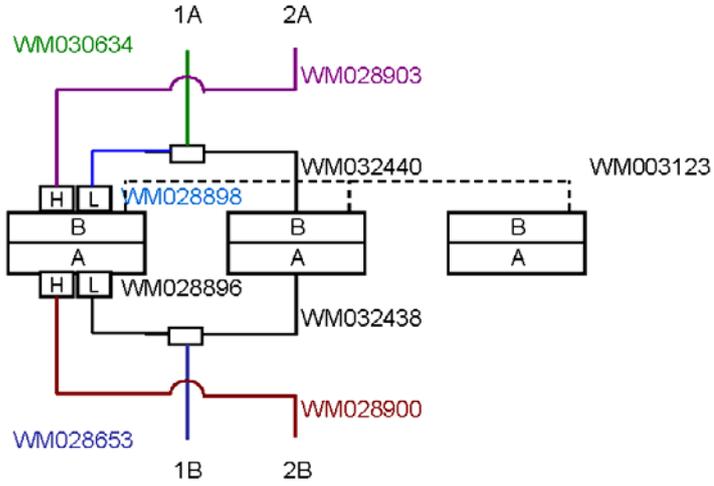
Style  
 22-32\*  
 33-43\*  
 34-32\*  
 45-43\*

Flow rate  
 130/40  
 130/40/40



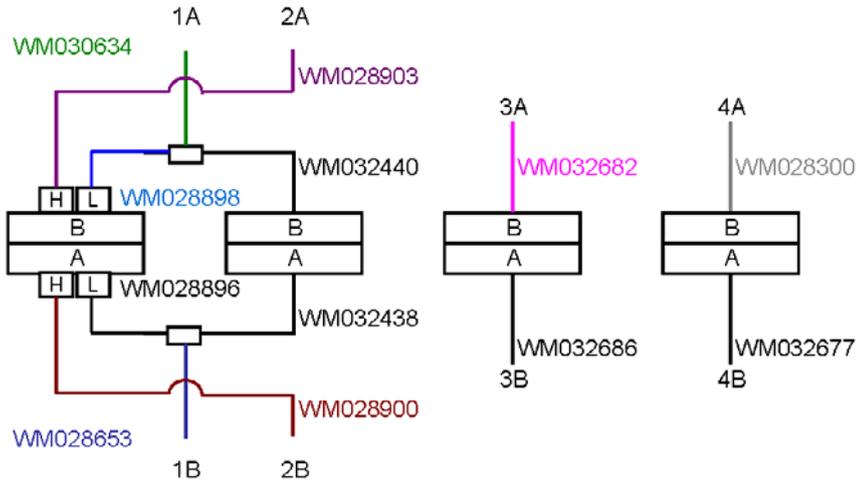
Style  
 11-32\*

Flow rate  
 130 SIM/40



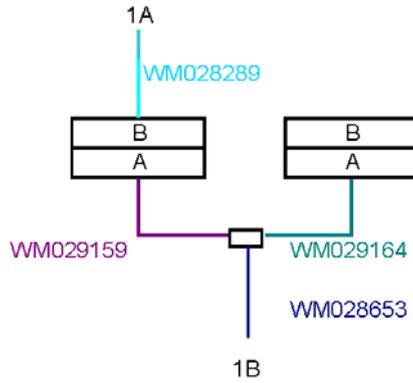
Style  
 11-22\*  
 22-33\*  
 33-44\*

Flow rate  
 130/40  
 130/40/40  
 130/40/40/40



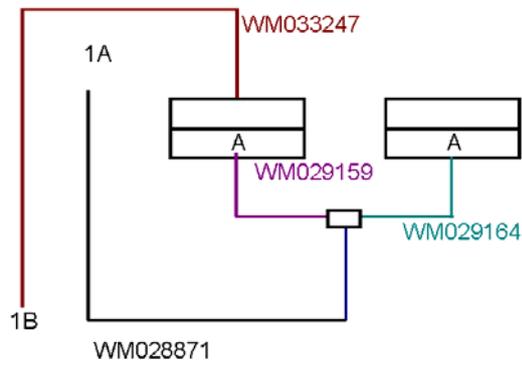
Style  
11-211

Flow rate  
40//130



Style  
11-211

130//40



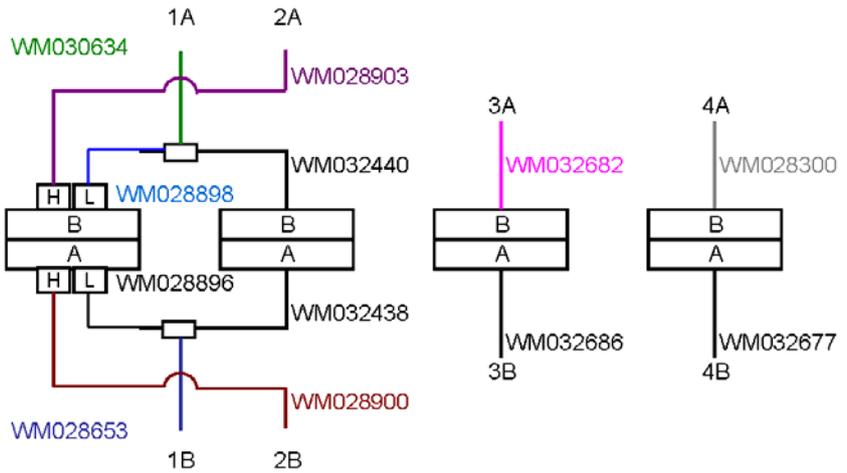
OBS!  
Divider panel can't be used on this model

**BLEND**

Style

23-22\*  
34-33\*  
45-44\*  
46-44\*

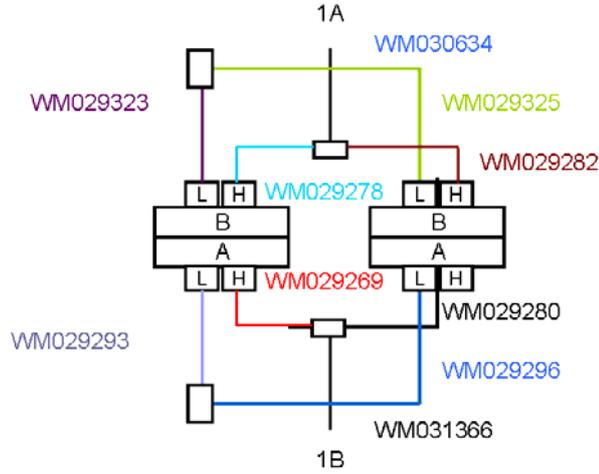
Flow rate  
40/40  
40/40/40  
40/40/40/40



**SAT**

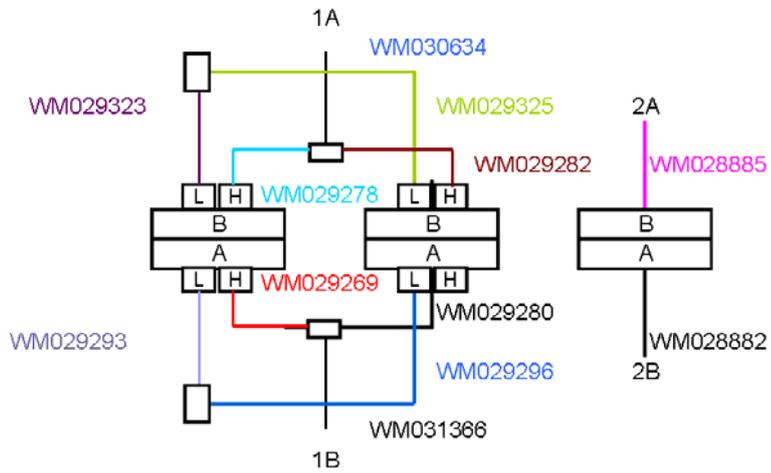
Style  
11-21\*

Flow rate  
SAT OUT 130



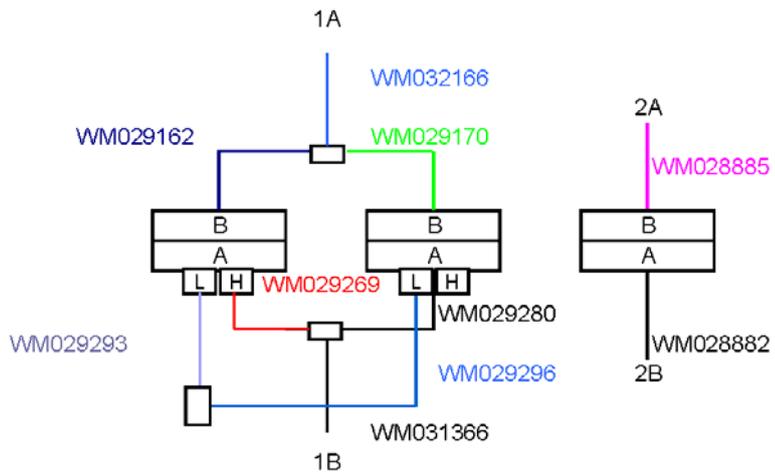
Style  
22-32\*

Flow rate  
130 SAT OUT/40



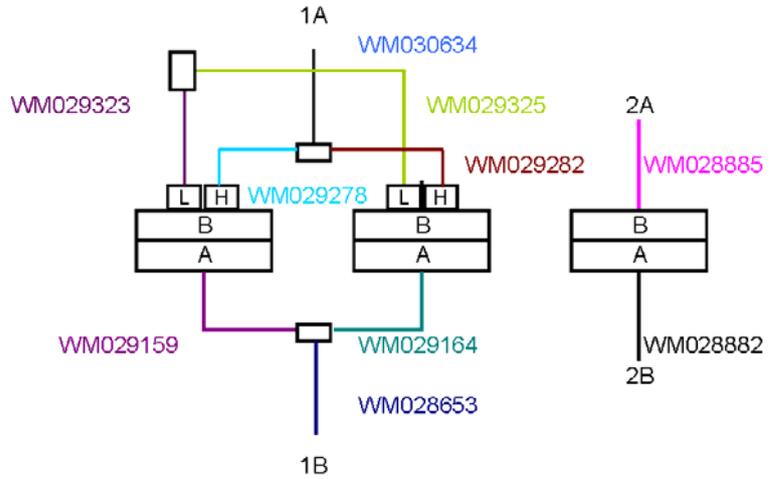
Style  
11-21  
22-32

130//130 SAT B  
130/40 SAT B



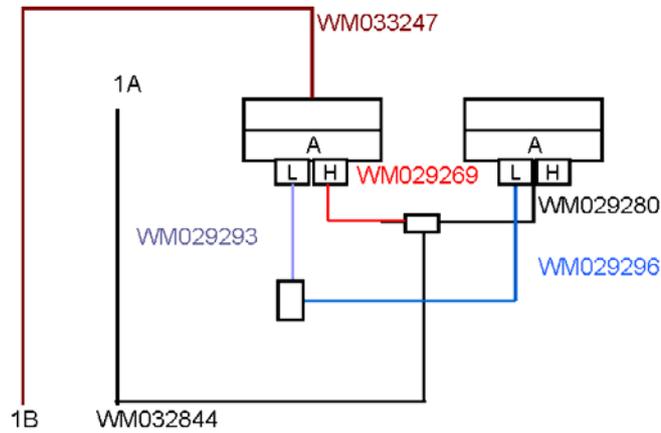
Style  
22-32

Flow rate  
130/40 SAT A



Style  
11-211

Flow rate  
130 SAT OUT//40

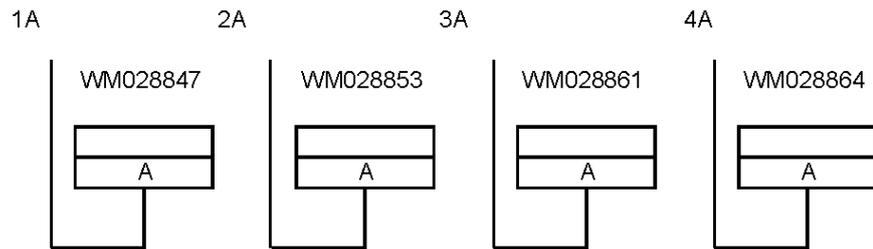


OBS!  
Divider panel can't be used on this model

**SINGEL**

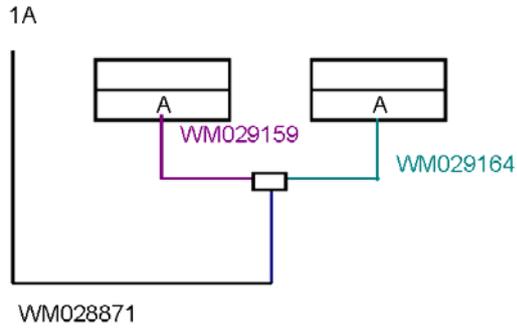
Style  
11-11 SA  
22-22 SA  
33-33 SA  
44-33 SA

Flow rate  
40/40/40/40  
40-70/40/40/40  
70/40/40/40

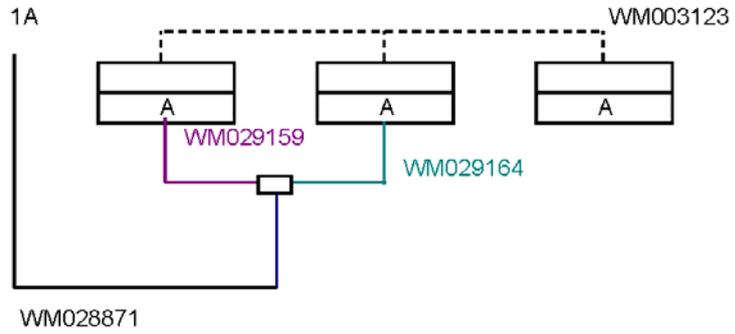


Style  
11-21 SA  
23-21 SA

Flow rate  
130

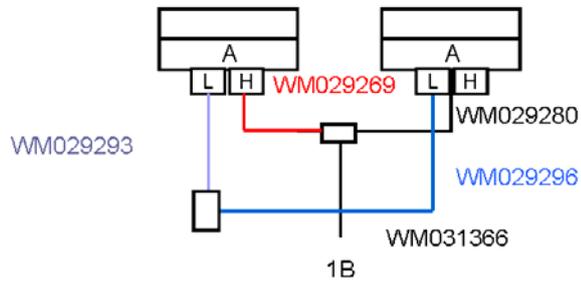


Style  
11-31 SA  
130 SIM



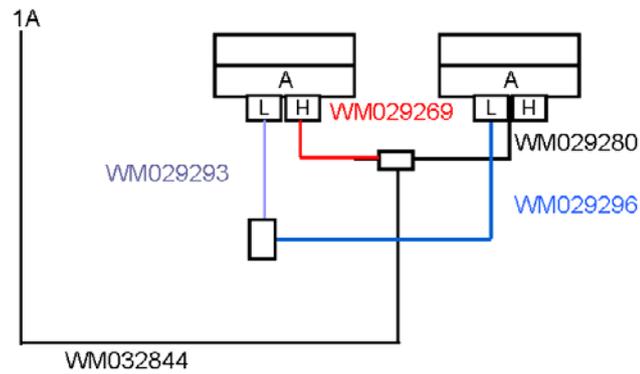
Style  
11-21 SB

Flow rate  
130 SAT



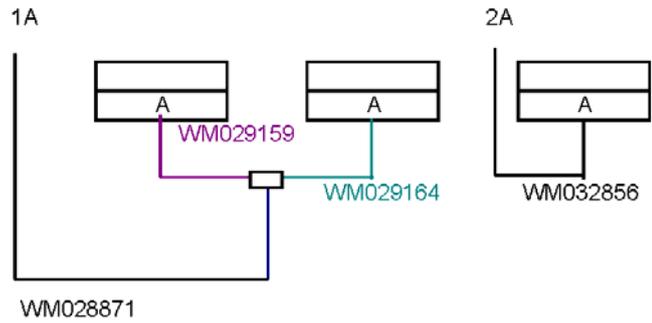
Style  
11-21 SA

Flow rate  
130 SAT



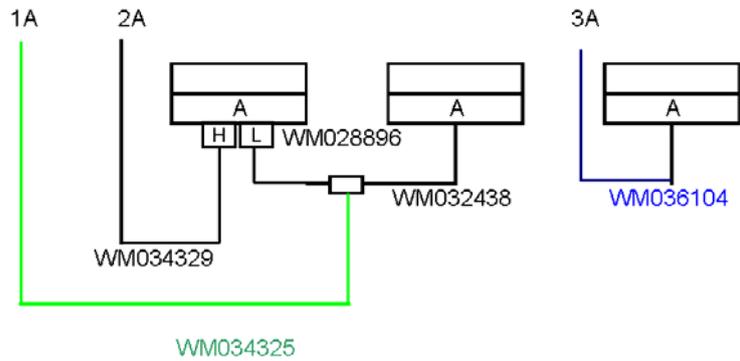
Style  
22-32 SA

Flow rate  
130/40



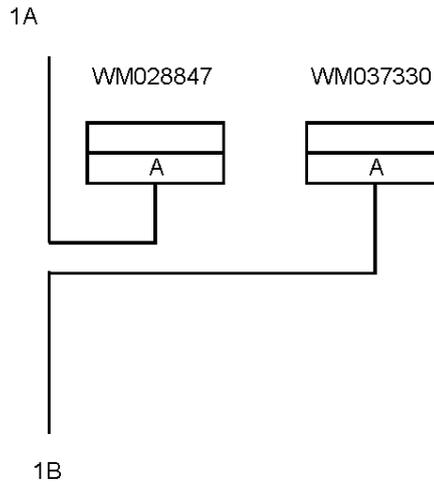
Style  
11-22 SA  
22-33 SA

Flow rate  
130/40  
130/40/40



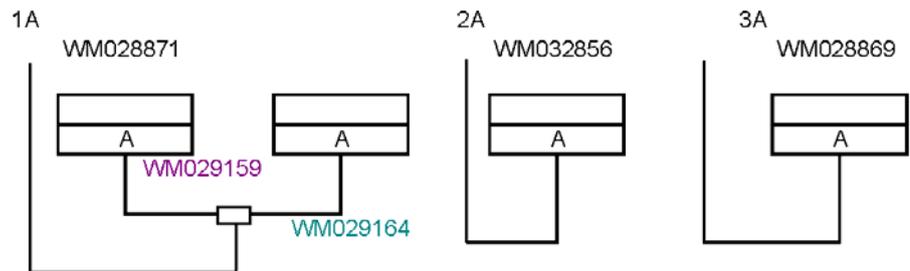
**SPECIAL**

22-211  
40//  
70//  
40-70//



Style  
11-21 SB  
22-32 SB  
33-43 SB

Flow rate  
130  
130/40  
130/40/40



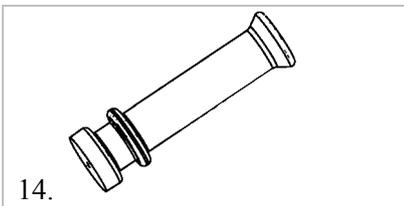
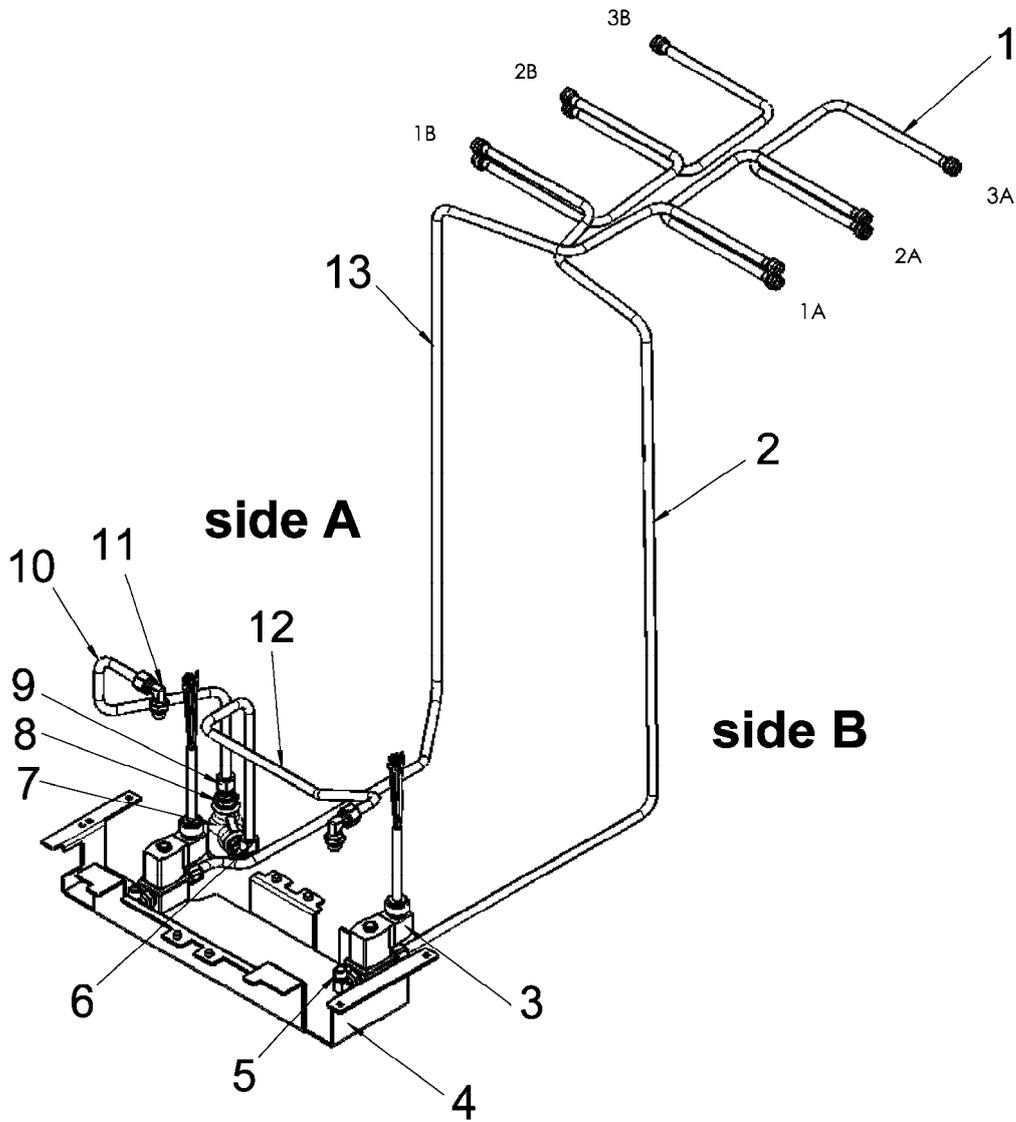
**Liquid tubes (HH & HHR) (first two years of production)**

|  | <b>Part number</b> | <b>Description</b>                               |
|--|--------------------|--|
|  | WM028289           | Side B, hydraulic 1, nozzle 1                    |
|  | WM028292           | Side B, hydraulic 2, nozzle 2                    |
|  | WM028298           | Side B, hydraulic 3, nozzle 3                    |
|  | WM028300           | Side B, hydraulic 4, nozzle 4                    |
|  | WM028280           | Side A, hydraulic 1, nozzle 1                    |
|  | WM028282           | Side A, hydraulic 2, nozzle 2                    |
|  | WM028284           | Side A, hydraulic 3, nozzle 3                    |
|  | WM028286           | Side A, hydraulic 4, nozzle 4                    |
|  | WM028748           | Side B, hydraulic 1, to coupling                 |
|  | WM029159           | Side A, hydraulic 1, to coupling                 |
|  | WM028757           | Side B, hydraulic 2, to coupling                 |
|  | WM029164           | Side A, hydraulic 2, to coupling                 |
|  | WM028761           | Side B,  |
|  | WM029172           | S A, hydraulic 3, to coupling                    |
|  | WM028765           | Side B, hydraulic 4, to coupling                 |
|  | WM029177           | Side A, hydraulic 4, to coupling                 |
|  | WM028656           | Side B, hose 1, coupling - hose 1                |
|  | WM028653           | Side A, hose 1, coupling - hose 1                |
|  | WM028776           | Side B, coupling - hose 2                        |
|  | WM028773           | Side A, Coupling - hose 2                        |
|  | WM029323           | Side B, hydraulic 1, duplex valve (L), SAT       |
|  | WM029325           | Side B, hydraulic 2, duplex valve (L), SAT       |
|  | WM029293           | Side A, hydraulic 1, duplex valve (L), SAT       |
|  | WM029296           | Side A, hydraulic 2, duplex valve (L), SAT       |
|  | WM029278           | Side B, hydraulic 1, duplex valve (U) - coupling |
|  | WM029282           | Side B, hydraulic 2, duplex valve (U) - coupling |
|  | WM029269           | Side A, hydraulic 1, duplex valve (U) - coupling |
|  | WM029280           | Side A, hydraulic 2, duplex valve (U) - coupling |
|  | WM030634           | Side B, hose 1, from coupling                    |
|  | WM031366           | Side A, coupling - hose connection 1A            |
|  | WM028847           | Side A, hydraulic 1, side b, hose connection 1   |
|  | WM028853           | Side A, hydraulic 2, side b, hose connection 2   |
|  | WM028861           | Side A, hydraulic 3, side B, hose connection 3   |
|  | WM028864           | Side A, hydraulic 4, side B, hose connection 4   |



**13.2.3 Tubes vapour - suction (HH & HHR)**

Tubes vapour - suction (HH & HHR), first year of production, see page 70.

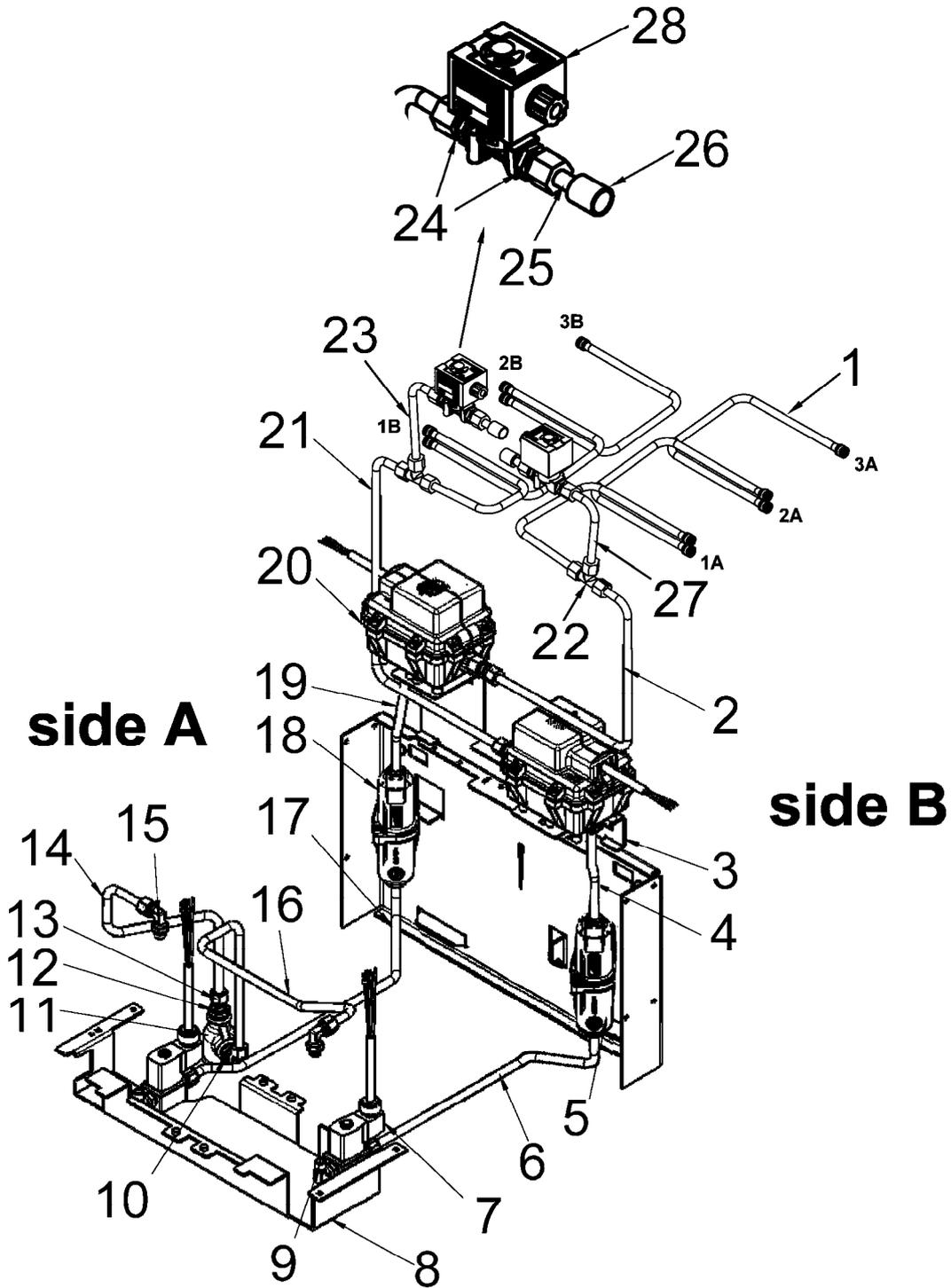


|    | Part number                   | Description  |
|----|-------------------------------|--|
| 1  |                               | <b>Tube, hose adapter - hose adapter</b>             |
|    | WM028933                      | L=141 (each)   |
|    | WM029405                      | L=281 (every two)                                    |
|    | WM029407                      | L=420 (every third)                                  |
| 2  | <b>Pump - hose connection</b> |  |
| 13 | <b>Pump - hose connection</b> |  |
|    | <b>Suction</b>                |  |
|    | <b>Remote</b>                 |  |
|    | Hose connection               | A side B side A side B side                          |
|    | 1                             | WM028948 WM030601 WM028952 WM030667                  |
|    | 2                             | WM029432 WM029439 WM029451 WM029454                  |
|    | 3                             | WM029441 WM029444 WM029549 WM029552                  |
|    | 4                             | WM029446 WM029448 WM029555 WM029557                  |
|    | <b>Pump - hose connection</b> |  |
|    | <b>Suction 1 phase</b>        |  |
|    | <b>Remote 1 phase</b>         |  |
|    | Hose connection               | A side B side A side B side                          |
|    | 1                             | WM030740 WM030601 WM030753 WM030677                  |
|    | 2                             | WM030746 WM029439 WM030758 WM029454                  |
|    | 3                             | WM030748 WM029444 WM030760 WM029552                  |
|    | 4                             | WM030750 WM029448 WM030762 WM029557                  |
|    | <b>Pump - hose connection</b> |  |
|    | <b>Suction singel</b>         |  |
|    | <b>Remote singel</b>          |  |
|    |                               | Singel A Singel B Singel A Singel B                  |
|    | 1                             | WM028950 WM030601 WM028954 WM030677                  |
|    | 2                             | WM030697 WM029439 WM030679 WM029454                  |
|    | 3                             | WM030705 WM029444 WM030681 WM029552                  |
|    | 4                             | WM030710 WM029448 WM030693 WM029557                  |
| 3  | WM001267                      | Solenoid valve, proportional, single, cable 3m       |
| 4  | WM028464                      | Shelf for VR module                                  |
| 5  | WM028456                      | Coupling, 90° male G 1/4, male G 1/4 adj             |
| 6  | WM002055                      | Coupling, 90° male G 3/8, D=10                       |
| 7  | WB000344-0001                 | T-coupling, female Rp1" x Rp1/2" x Rp1/2"            |
| 8  | WB000343-0001                 | Bushing, male R1/2" x female Rp3/8"                  |
| 9  | WM002041                      | Coupling, straight male G 3/8, D=10                  |
| 10 |                               | <b>Tube, vapour, side A, pump - outlet</b>           |
|    | WM028534                      | Suction (3-phase)                                    |
|    | WM028560                      | Remote (3-phase)                                     |
|    | WM030080                      | Suction (1-phase)                                    |
|    | WM030082                      | Remote (1-phase)                                     |
| 11 | WM002051                      | Coupling, 90 ° male G 1/4, D=10                      |
| 12 |                               | <b>Tube, vapour, side B, pump - outlet</b>           |
|    | WM028536                      | Suction  |
|    | WM028566                      | Remote   |
| 13 |                               | see above  |
| 14 | WM031399                      | Plug, d=10, l=50 (for quick hose connector - vapour) |

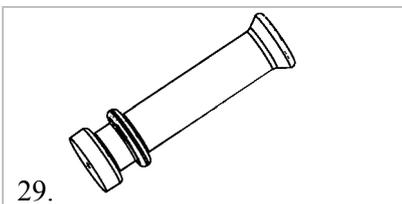
Vapour tubes from pump to outlet, see page 74

**13.2.4 Tubes vapour gate - suction (HH & HHR)**

Tubes vapour gate - suction (HH & HHR), first year of production, see page 72.

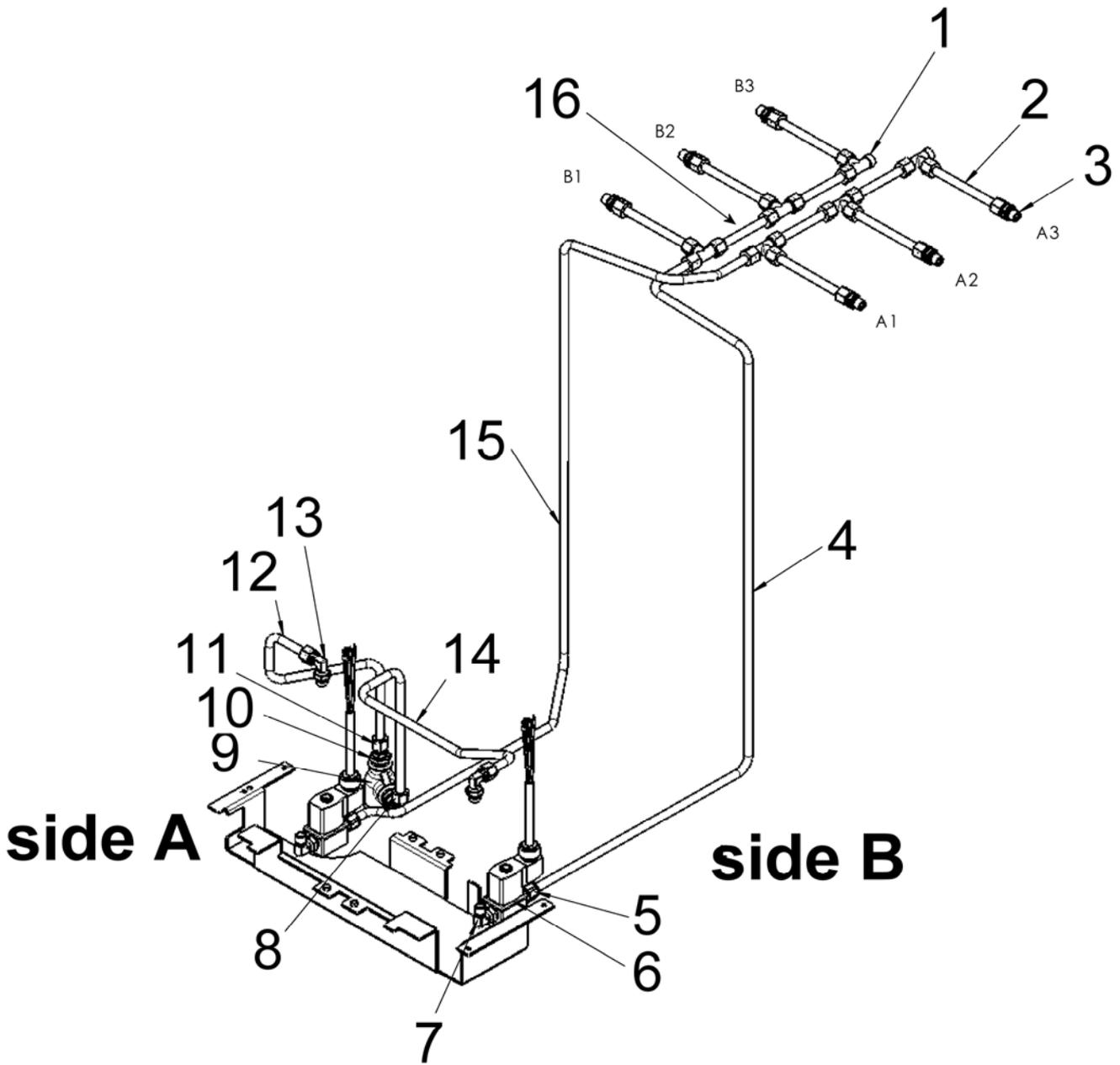


VRM system overview, see page 86.



|                 | Part number                       | Description   |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
|-----------------|-----------------------------------|---|-----------------------------------|--------|--------|----------|---|-----------------------------------|-----------------------------------|-----------------------------------|---|-----------------------------------|-----------------------------------|-----------------------------------|---|-----------------------------------|-----------------------------------|-----------------------------------|---|-----------------------------------|-----------------------------------|-----------------------------------|
| 1               |                                   | <b>Tube, hose adapter - hose adapter</b>  |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
|                 | WM028933                          | L=141 (each)  |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
|                 | WM029405                          | L=281 (every two)   |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
|                 | WM029407                          | L=420 (every third)   |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
| 2               |                                   | <b>Vapour meter - hose connection</b>   |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
| 21              |                                   | <table border="1"> <thead> <tr> <th>Hose connection</th> <th>A side</th> <th>B side</th> <th>single A</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>WM030595<br/>(WM041640 + WM041577)</td> <td>WM030599<br/>(WM041605 + WM041614)</td> <td>WM031380<br/>(WM041640 + WM041577)</td> </tr> <tr> <td>2</td> <td>WM031352<br/>(WM041640 + WM041628)</td> <td>WM031338<br/>(WM041605 + WM041649)</td> <td>WM031382<br/>(WM041640 + WM041628)</td> </tr> <tr> <td>3</td> <td>WM031354<br/>(WM041640 + WM041631)</td> <td>WM031347<br/>(WM041605 + WM041660)</td> <td>WM031384<br/>(WM041640 + WM041631)</td> </tr> <tr> <td>4</td> <td>WM031357<br/>(WM041640 + WM041640)</td> <td>WM031349<br/>(WM041605 + WM041666)</td> <td>WM031386<br/>(WM041640 + WM041640)</td> </tr> </tbody> </table> | Hose connection                   | A side | B side | single A | 1 | WM030595<br>(WM041640 + WM041577) | WM030599<br>(WM041605 + WM041614) | WM031380<br>(WM041640 + WM041577) | 2 | WM031352<br>(WM041640 + WM041628) | WM031338<br>(WM041605 + WM041649) | WM031382<br>(WM041640 + WM041628) | 3 | WM031354<br>(WM041640 + WM041631) | WM031347<br>(WM041605 + WM041660) | WM031384<br>(WM041640 + WM041631) | 4 | WM031357<br>(WM041640 + WM041640) | WM031349<br>(WM041605 + WM041666) | WM031386<br>(WM041640 + WM041640) |
| Hose connection | A side                            | B side  | single A                          |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
| 1               | WM030595<br>(WM041640 + WM041577) | WM030599<br>(WM041605 + WM041614)   | WM031380<br>(WM041640 + WM041577) |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
| 2               | WM031352<br>(WM041640 + WM041628) | WM031338<br>(WM041605 + WM041649)   | WM031382<br>(WM041640 + WM041628) |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
| 3               | WM031354<br>(WM041640 + WM041631) | WM031347<br>(WM041605 + WM041660)   | WM031384<br>(WM041640 + WM041631) |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
| 4               | WM031357<br>(WM041640 + WM041640) | WM031349<br>(WM041605 + WM041666)   | WM031386<br>(WM041640 + WM041640) |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
|                 |                                   | Tubes inside the parentheses is used when solenoid valves are used (option).  |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
| 3               | WM028197                          | Support, L-shape  |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
| 4               | WM038656                          | Tube, vapour meter - damper<br>(for horizontal damper, on picture, WM028526 - see also figure on page 25)   |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
| 5               | WM038082                          | Damper (quick hose connection)  |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
| 6               |                                   | <b>Tube, vapour, side B, damper - valve</b>   |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
|                 | WM038657                          | Suction<br>(for horizontal damper, on picture, WM028532 - see also figure on page 25)   |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
|                 | WM038660                          | Remote<br>(for horizontal damper, on picture, WM028548 - see also figure on page 25)  |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
| 7               | WM001267                          | Solenoid valve, proportional, single, cable 3m  |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
| 8               | WM028464                          | Shelf for VR module   |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
| 9               | WM028456                          | Coupling, 90° male G 1/4, male G 1/4 adj  |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
| 10              | WM002055                          | Coupling, 90° male G 3/8, D=10  |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
| 11              | WB000344-0001                     | T-coupling, female Rp1" x Rp1/2" x Rp1/2"   |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
| 12              | WB000343-0001                     | Bushing, male R1/2" x female Rp3/8"   |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
| 13              | WM002041                          | Coupling, straight male G 3/8, D=10   |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
| 14              |                                   | <b>Tube, vapour, side A, pump - outlet</b>  |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
|                 | WM028534                          | Suction (3-phase)   |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
|                 | WM028560                          | Remote (3-phase)  |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
|                 | WM030080                          | Suction (1-phase)   |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
|                 | WM030082                          | Remote (1-phase)  |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
| 15              | WM002051                          | Coupling, 90 ° male G 1/4, D=10   |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
| 16              |                                   | <b>Tube, vapour, side B, pump - outlet</b>  |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
|                 | WM028536                          | Suction   |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
|                 | WM028566                          | Remote  |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
| 17              |                                   | <b>Tube, vapour, side A, damper - valve</b>   |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
|                 | WM038646                          | Suction (3-phase)   |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
|                 | WM038647                          | Remote (3-phase)  |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
|                 | WM038649                          | Suction (1-phase)   |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
|                 | WM038651                          | Remote (1-phase)  |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
| 18              | WM038082                          | Damper (quick hose connection)  |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
| 19              | WM038654                          | Tube, vapour meter - damper   |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
| 20              | WM038133-0002                     | Vapour meter with cable 2,5m  |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
| 21              |                                   | see above   |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
| 22              | WM020460                          | T-coupling T D=10 (option)  |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
| 23              | WM041620                          | Tube, vapour, T-coupling - check valve (option)   |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
| 24              | WM020593                          | Coupling, straight male GE 1/4" D=10 (option)   |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
| 25              | WM021787                          | Tube, vapour, vapour gate, prop valve to filter, side A, B (option)   |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
| 26              | WM021571                          | Strainer 200 microns (option)   |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
| 27              | WM041622                          | Tube, vapour, T-coupling - check valve (option)   |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
| 28              |                                   | <b>Solenoid valve, on/off, single (option)</b>  |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
|                 | WM021576-0001                     | Cable L=3m  |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
|                 | WM021576-0002                     | Cable L=5m  |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |
| 29              | WM031399                          | Plug, d=10, l=50 (for quick hose connector - vapour)  |                                   |        |        |          |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |   |                                   |                                   |                                   |

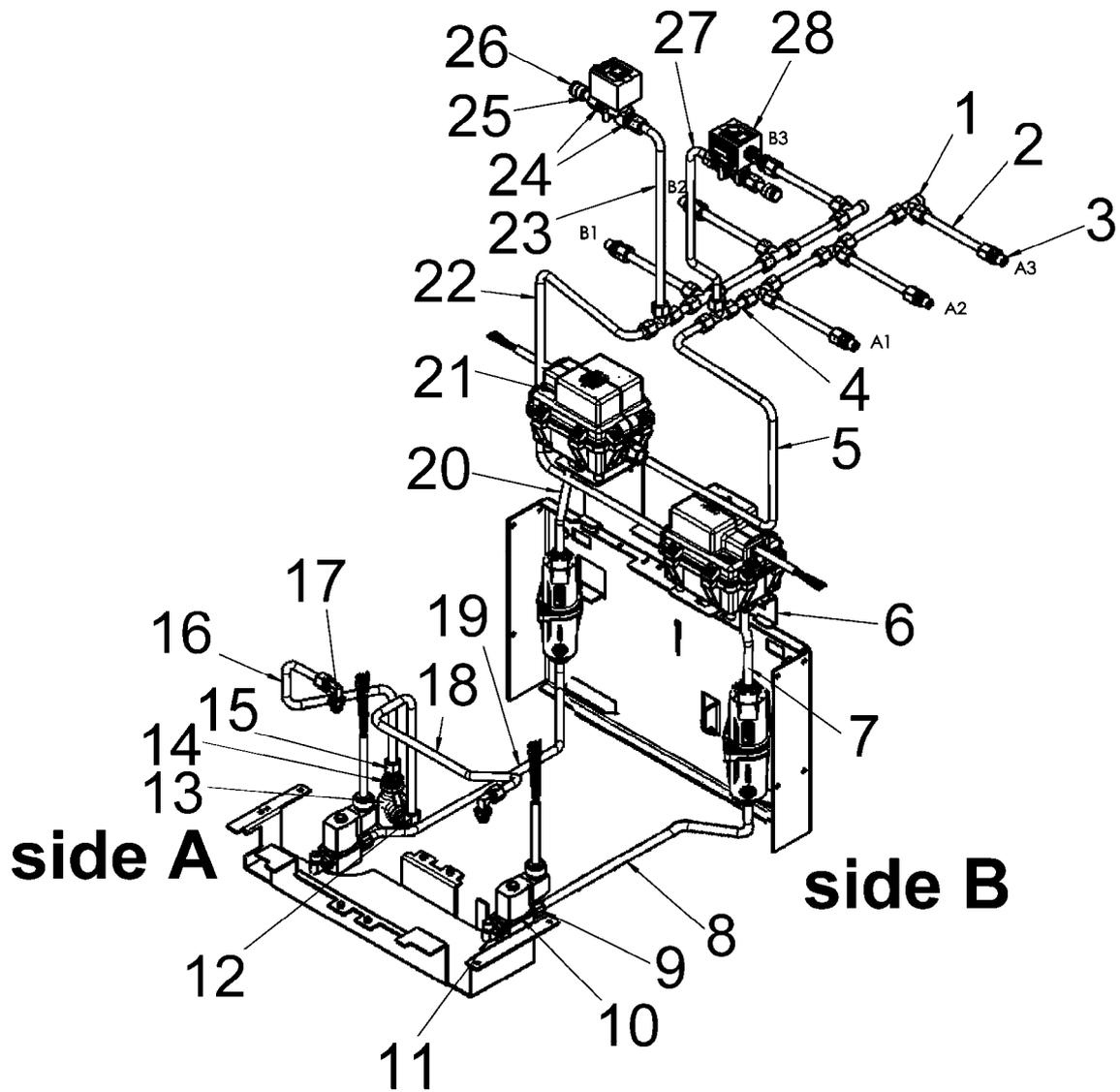
**13.2.5 Tubes vapour - suction (HH & HHR) (first year of production)**



|    | <b>Part number</b> | <b>Description</b>                                    |
|----|--------------------|---|
| 1  | WM020460           | T-coupling T D=10                                     |
| 2  | WM028512           | Tube, vapour, vapour gate adapter - T-coupling, L=142 |
| 3  | WM020593           | Coupling, straight male GE 1/4" D=10                  |
| 4  |                    | <b>Tube, vapour, side A, T-coupling - pump side B</b> |
|    | WM030383           | Suction   |
|    | WM030427           | Remote  |
| 5  | WM002037           | Coupling, straight male G 1/4, D=10                   |
| 6  | WM001267           | Solenoid valve, proportional, single, cable 3m        |
| 7  | WM028456           | Coupling, 90° male G 1/4, male G 1/4 adj              |
| 8  | WM002055           | Coupling, 90° male G 3/8, D=10                        |
| 9  | WB000344-0001      | T-coupling, female Rp1" x Rp1/2" x Rp1/2"             |
| 10 | WB000343-0001      | Bushing, male R1/2" x female Rp3/8"                   |
| 11 | WM002041           | Coupling, straight male G 3/8, D=10                   |
| 12 |                    | <b>Tube, vapour, side A, pump - outlet</b>            |
|    | WM028534           | Suction (3-phase)                                     |
|    | WM028560           | Remote (3-phase)                                      |
|    | WM030080           | Suction (1-phase)                                     |
|    | WM030082           | Remote (1-phase)                                      |
| 13 | WM002051           | Coupling, 90 ° male G 1/4, D=10                       |
| 14 |                    | <b>Tube, vapour, side B, pump - outlet</b>            |
|    | WM028536           | Suction   |
|    | WM028566           | Remote  |
| 15 |                    | <b>Tube, vapour, side B, T-coupling - pump side A</b> |
|    | WM030380           | Suction (3-phase)                                     |
|    | WM030425           | Remote (3-phase)                                      |
|    | WM030429           | Suction (1-phase)                                     |
|    | WM030431           | Remote (1-phase)                                      |
| 16 |                    | <b>Tube, vapour</b>                                   |
|    | WM016719           | L=110 mm (each)                                       |
|    | WM016790           | L=250 mm (every two)                                  |
|    | WM016791           | L=390 mm (every third)                                |

Vapour tubes from pump to outlet, see page 74

**13.2.6 Tubes vapour gate - suction (HH & HHR) (first year of production)**

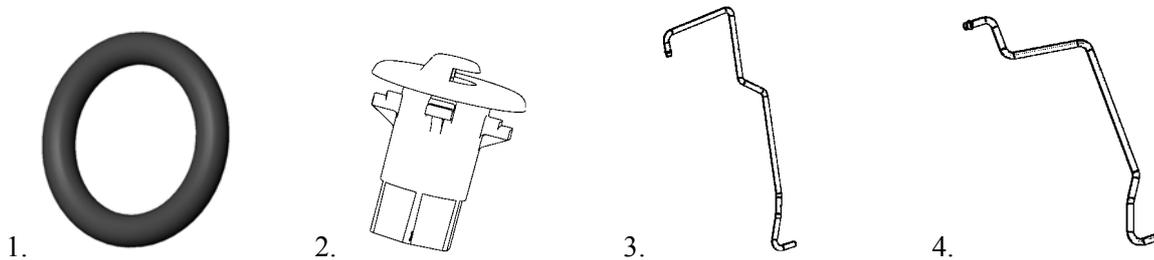


|    | Part number   | Description   |
|----|---------------|---|
|    | WM018634      | Damper  |
| 1  | WM020460      | T-coupling T D=10   |
| 2  | WM028512      | Tube, vapour, vapour gate adapter - T-coupling, L=142   |
| 3  | WM020593      | Coupling, straight male GE 1/4" D=10  |
| 4  |               | <b>Tube, vapour</b>   |
|    | WM023557      | L=51 mm   |
|    | WM016719      | L=110 mm (each)   |
|    | WM016790      | L=250 mm (every two)  |
|    | WM016791      | L=390 mm (every third)  |
| 5  |               | <b>Tube</b>   |
|    | WM030367      | With extra valve  |
|    | WM030371      | Without extra valve   |
|    | WM028507      | With extra valve, single A  |
|    | WM029777      | Without extra valve, single A   |
| 6  | WM028197      | Support, L-shape, vapour recovery meter   |
| 7  | WM037338      | Tube, vapour meter - damper<br>(for horizontal damper, on picture, WM028526 - see also figure on page 25) |
| 8  |               | <b>Tube, vapour, side B, damper - valve</b>   |
|    | WM037340      | Suction (for horizontal damper, on picture, WM028532 - see also figure on page 25)                        |
|    | WM037342      | Remote (for horizontal damper, on picture, WM028548 - see also figure on page 25)                         |
| 9  | WM002037      | Coupling, straight male male G 1/4, D=10  |
| 10 | WM001267      | Solenoid valve, proportional, single, cable 3m  |
| 11 | WM028456      | Coupling, 90° male G 1/4, male G 1/4 adj  |
| 12 | WM002055      | Coupling, 90° male G 3/8, D=10  |
| 13 | WB000344-0001 | T-coupling, female Rp1" x Rp1/2" x Rp1/2"   |
| 14 | WB000343-0001 | Bushing, male R1/2" x female Rp3/8"   |
| 15 | WM002041      | Coupling, straight male G 3/8, D=10   |
| 16 |               | <b>Tube, vapour, side A, pump - outlet</b>  |
|    | WM028534      | Suction (3-phase)   |
|    | WM028560      | Remote (3-phase)  |
|    | WM030080      | Suction (1-phase)   |
|    | WM030082      | Remote (1-phase)  |
| 17 | WM002051      | Coupling, 90 ° male G 1/4, D=10   |
| 18 |               | <b>Tube, vapour, side B, pump - outlet</b>  |
|    | WM028536      | Suction   |
|    | WM028566      | Remote  |
| 19 |               | <b>Tube, vapour, side A, damper - valve</b>   |
|    | WM028528      | Suction (3-phase)   |
|    | WM028546      | Remote (3-phase)  |
|    | WM030076      | Suction (1-phase)   |
|    | WM030078      | Remote (1-phase)  |
| 20 | WM028524      | Tube, vapour meter - damper   |
| 21 | WM019233      | Vapour meter with cable 2,5m  |
| 22 |               | <b>Tube, vapour, side A, T-coupling - vapour meter side B</b>   |
|    | WM030364      | With solenoid valve   |
|    | WM030369      | Without solenoid valve  |
| 23 | WM028496      | Tube, vapour, side A, T-coupling - solenoid valve   |
| 24 | WM020593      | Coupling, straight male GE 1/4" D=10  |
| 25 | WM021787      | Tube, vapour, vapour gate, prop valve to filter, side A, B  |
| 26 | WM021571      | Strainer 200 microns  |
| 27 | WM028499      | Tube, vapour, side B, T-coupling - solenoid valve,  |
| 28 | WM021576      | Solenoid valve, on/off, single  |

**13.2.7 Tubes vapour - from pump to outlet**

| Part number | Description   |
|-------------|---|
| WM028534    | Tube, vapour, side A, pump - outlet, suction, 3 phase   |
| WM028536    | Tube, vapour, side B, pump - outlet, suction, 3 phase   |
| WM030080    | Tube, vapour, side A, pump - outlet, suction, 1 phase   |
| WM028536    | Tube, vapour, side B, pump - outlet, suction, 1 phase   |
| WM028560    | Tube, vapour, side A, pump - outlet, dispenser, 3 phase |
| WM028566    | Tube, vapour, side B, pump - outlet, dispenser, 3 phase |
| WM030082    | Tube, vapour, side A, pump - outlet, dispenser, 1 phase |
| WM028566    | Tube, vapour, side B, pump - outlet, dispenser, 1 phase |

**13.3 Air venting (suction)**



| Part number   | Description  |
|---------------|--|
| 1 WM006700    | O-ring   |
| 2 WM011355    | Plug with strainer, for air venting  |
|               | Tube, air venting (with "single bump")   |
| 3 WM031219    | Xflo™  |
| 4 WM031221    | iMeter   |
| WB000408-0001 | Self tapping screw, Torx, pan head, type C ST4,8 (for air venting tube with "single bump") |
| WB000658-0001 | Washer (for air venting tube with "single bump")   |

**13.3.1 Kit, air venting tube connection for above ground tank**

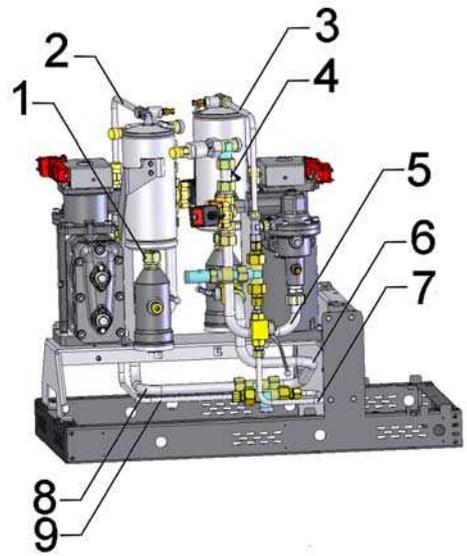
| Part number   | Description  |
|---------------|--|
| WM021448      | Kit, air venting tube connection for above ground tank |
| WB000408-0002 | Self tapping screw, Torx, pan head, type C ST4,8X13    |
| WM021446      | Clamp sheet metal air venting tube                     |
| WM006700      | O-ring, T=2,62 Id=11,91, NBR, Nitrile (2 pc.)          |

See also document WM009812 " Above ground tanks and pipes".

## 13.4 Tubes - LPG

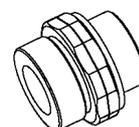
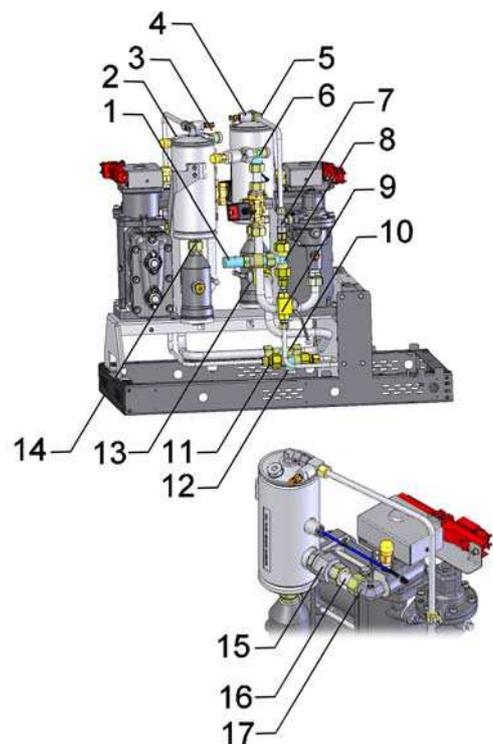
### 13.4.1 Tubes LPG module

|   | Part number | Description  |
|---|-------------|--|
|   | WM004190    | Ring, cutting, DPR 22-L  |
|   | WM004189    | Nut, M 22-L  |
|   | WE001173    | Ring, progressive, DN 12   |
|   | WE001172    | Nut, DN 12   |
|   | WM041913    | Tube L=60 (to hose connector, see also coupling WM041879 kp 13.4.2 (FR)) |
| 1 | WM032511    | Tube fuel delivery, solenoid valve - differential valve                  |
| 2 | WM032490    | Tube, T-coupling - T-coupling  |
| 3 | WM032490    | Tube, T-coupling - T-coupling  |
| 4 | WM039535    | Tube, L=70   |
| 5 |             | <b>Tube fuel delivery, solenoid valve - differential valve</b>           |
|   | WM032511    | Hydraulic A side   |
|   | WM039557    | Hydraulic B side (on picture)  |
| 6 | WM036037    | Tube fuel delivery, inlet - filter, hydraulic A                          |
| 7 | WM036043    | Tube outlet vapour phase, hydraulic A                                    |
| 5 | WM036039    | Tube fuel delivery, inlet - filter, hydraulic B                          |
| 9 | WM036045    | Tube outlet vapour phase, hydraulic B                                    |

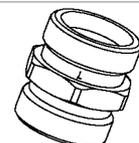


### 13.4.2 Couplings LPG module

|    | Part number   | Description  |
|----|---------------|--|
|    | WM003160      | Sealant Loxeal 58-11, thread sealant                                 |
| 1  | see page 76   | Fill up valve  |
| 2  | see page 76   | Coupling   |
| 3  | WT001138      | Coupling, 90°, male 3/8" TAPER - DN12                                |
| 4  | WM022758      | Coupling, straight, female, 1/4NPTx 3/8NPT                           |
|    | WM003981      | Venting valve  |
| 5  | WT001108-0001 | T-coupling, female - DN12  |
|    | WM032482      | Coupling, straight   |
| 6  | see page 76   | T-coupling   |
| 7  | WT001108      | T-coupling, female - DN12  |
| 8  | WM000925      | T-coupling, male T22-PL  |
| 9  | see page 76   | T-coupling   |
| 10 |               | <b>Coupling</b>  |
|    | WM000925      | T-coupling, male T22-PL  |
|    | WT001141      | Coupling, 90°, DN 22   |
| 11 | WM022693      | Coupling, straight, kor 22-12-PL                                     |
| 12 |               | <b>Coupling</b>  |
|    | WM000925      | T-coupling, male T22-PL  |
|    | WT001141      | Coupling, 90°, DN 22   |
| 13 | WT001096      | Ball valve, female 1/2"  |
| 14 | WM001503      | Coupling, straight, EGE22-LR-ED                                      |
| 15 | WT001074      | Check valve  |
| 16 | WM039535      | Tube, L=70   |
| 17 | WM032461      | Coupling, 90°, WE22L 3/4NPT  |
| 18 | WM025974      | Coupling, straight 3/4" x M30x1,5L, LPG hose                         |
| 19 | WM041879      | Coupling, straight, M30x2 - M30x2 (see also tube WM041913 kp 13.4.1) |



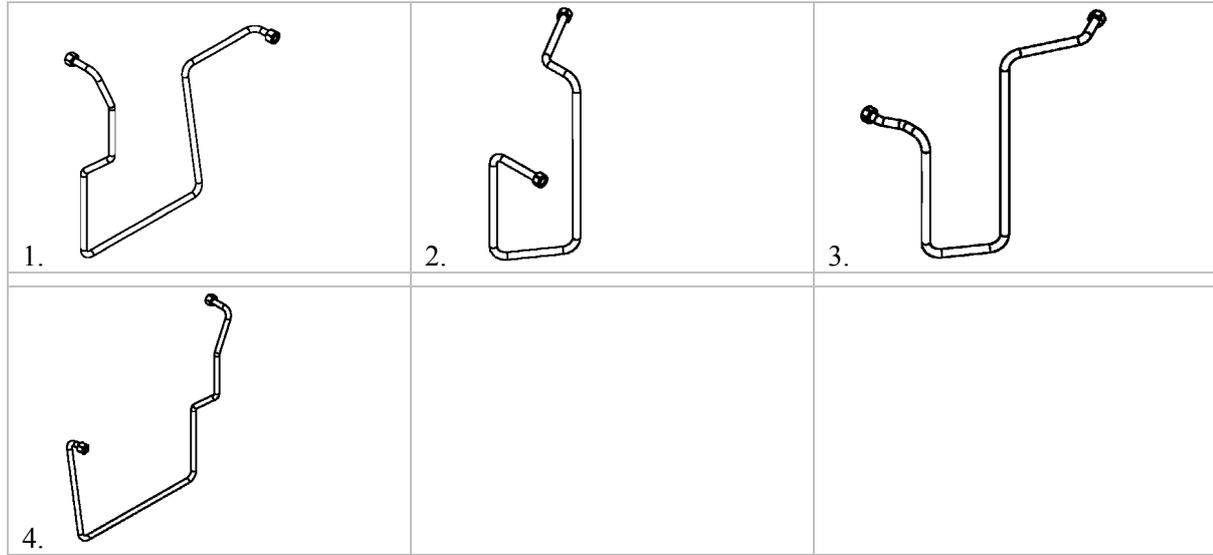
18.



19.

Solenoid valve - see page 38

**13.4.3 Tubes LPG**



|   | Part number | Description                                |
|---|-------------|--|
| 1 | WM034196    | Tube LPG inlet B - pressure gauge B        |
| 2 | WM034200    | Tube, fuel delivery LPG valve A - outlet A |
| 3 | WM034206    | Tube, fuel delivery LPG valve B - outlet B |
| 4 | WM034192    | Tube LPG inlet A - pressure gauge A        |

**13.4.4 Coupling, straight return with fill up valve (LPG)**

| Part number | Description  |
|-------------|--|
| 1           | WM000925 Coupling, T-coupling male T22-PL            |
| 2           | WM022693 Coupling, straight kor 22-12-PL             |
| 3           | WM004189 Nut M 22-L                                  |
| 4           | WM004190 Ring cutting, DPR 22-L                      |
| 5           | WM001468 Coupling, straight red. coupling 3/4NPTxD22 |
| 6           | WM001480 Valve fill up valve                         |
| 7           | WM003160 Sealant Loxeal 58-11, thread sealant        |

**13.4.5 Coupling, T-coupling adjustable, with safety valve D22 (LPG)**

| Part number | Description  |
|-------------|--|
| 1           | WM004952 T-coupling adjustable, ET22-PL            |
| 2           | WM023275 Coupling, straight EGE22L 3/4NPT          |
| 3           | WM022692 Coupling, straight female, 1/4NPTx 3/4NPT |
| 4           | WM002191 Valve safety 25BAR                        |
| 5           | WM003160 Sealant Loxeal 58-11, thread sealant      |

**13.5 Tubes - AdBlue®**

| Part number | Description   |
|-------------|---|
| 1           | WE000571 Coupling, straight male r1"x10, Male double bump |

AdBlue® is a registered trademark of Verband der Automobilindustrie e.V.

## 14 Hanging hardware

### 14.1 Hose

#### 14.1.1 HHR

|  | Part number   | Description                              |
|--|---------------|--|
|  | WM030362-0001 | Hose VR, l=4.06m, black                  |
|  | WM030362-0002 | Hose VR LT, l=4.06m, black               |
|  | WM030213-0001 | Hose id=16mm, l=4.16m, black             |
|  | WM030213-0002 | Hose id=16mm, l=4.16m, LT, black         |
|  | WM030213-0003 | Hose id=16mm, l=4.16m, bio diesel, black |
|  | WM030214-0001 | Hose id=21mm, l=4.16m, black             |
|  | WM030214-0002 | Hose id=21mm, l=4.16m, LT, black         |
|  | WM030214-0003 | Hose id=21mm, l=4.16m, bio diesel, black |
|  | WM030215-0001 | Hose id=25mm, l=4.16m, black             |
|  | WM030215-0002 | Hose id=25mm, l=4.16m, LT, black         |

VR = Vapour Recovery

LT = Low Temperature

#### 14.1.2 HHR (for quick hose connector)

|  | Part number   | Description                     |   |
|--|---------------|---------------------------------|---|
|  | WM031128-0001 | Hose, id=16, l=4,16m            |  |
|  | WM031128-0002 | Hose, LT, id=16, l=4,16m        |   |
|  | WM031128-0003 | Hose, biodiesel, id=16, l=4,16m |   |
|  | WM031129-0001 | Hose, id=21, l=4,16m            |   |
|  | WM031129-0002 | Hose, LT, id=21, l=4,16m        |   |
|  | WM031129-0003 | Hose, biodiesel, id=21, l=4,16m |   |
|  | WM031135-0001 | Hose, vr, l=4,16m               |   |
|  | WM031135-0002 | Hose, LT, vr, l=4,16m           |   |
|  | WM031135-0005 | Hose, vr, l=4,16m               |   |
|  | WM031135-0006 | Hose, LT, vr, l=4,16m           |   |

VR = Vapour Recovery

LT = Low Temperature

### 14.1.3 HH

| Part number   | Description                              |
|---------------|--|
| WM031996-0001 | Hose VR, l=4.22m, black                  |
| WM031996-0002 | Hose VR, l=4.22m, LT, black              |
| WM031997-0001 | Hose id=16mm, l=4.32m, black             |
| WM031997-0002 | Hose id=16mm, l=4.32m, LT, black         |
| WM031997-0003 | Hose id=16mm, l=4.32m, bio diesel, black |
| WM031999-0001 | Hose id=21mm, l=4.32m, black             |
| WM031999-0002 | Hose id=21mm, l=4.32m, LT, black         |
| WM031999-0003 | Hose id=21mm, l=4.32m, bio diesel, black |
| WM032000-0001 | Hose id=25mm, l=4.32m, black             |
| WM032000-0002 | Hose id=25mm, l=4.32m, bio diesel, black |

VR = Vapour Recovery

LT = Low Temperature

### 14.1.4 HH (for quick hose connector)

| Part number   | Description                     |
|---------------|---------------------------------|
| WM032867-0001 | Hose, id=16, l=4,32m            |
| WM032867-0002 | Hose, LT, id=16, l=4,32m        |
| WM032867-0003 | Hose, biodiesel, id=16, l=4,32m |
| WM032869-0001 | Hose, id=21, l=4,32m            |
| WM032869-0002 | Hose, LT, id=21, l=4,32m        |
| WM032869-0003 | Hose, biodiesel, id=21, l=4,32m |
| WM032875-0001 | Hose, vr, l=4,32                |
| WM032875-0002 | Hose, LT, vr, l=4,32            |
| WM032875-0005 | Hose, vr, l=4.32                |
| WM032875-0006 | Hose, LT, vr, l=4.32            |



VR = Vapour Recovery

LT = Low Temperature

### 14.1.5 LPG

| Part number   | Description   |
|---------------|---|
| WM021821-002  | Hose with break-away, Elaflex ARK 19.5, ID=16, L=5.6m |
| WM041807-0001 | Hose, ID 13, L=5.3m (France)                          |

### 14.1.6 AdBlue®

| Part number | Description               |
|-------------|---------------------------|
| WM039970    | Hose AdBlue®, 5.1m, black |

AdBlue® is a registered trademark of Verband der Automobilindustrie e.V.

## 14.2 Nozzle - Elaflex Slimline 2

### INNER VALUES - FEEL THE DIFFERENCE



**STAINLESS STEEL TIPPED SPOUT**  
Enduring protection against wear and tear: even after long service life the fuel flows calm and linear. No spraying, no early shut-off.



**INTEGRATED DIESEL DRIP CATCHER AS STANDARD**  
More cleanliness: Diesel is running down the spout and collected in the Drip Catcher when the nozzle is in the boot. Nozzle cover and configrip stay clean and tidy.



**ECONOMIC COLOUR CODING**  
The easy to fit coloured Product Sleeve (EK 043) enables clear fuel grade identification or branding of the nozzle with company colours. Also available as Splashguard (EK 652).



**ACTIVE PRESSURE CONTROLLED SAFETY SHUT-OFF (DSA)**  
Optional, for additional safety at prepay dispensers and unmanned petrol stations. The DSA shuts off the nozzle after each refuelling operation.



**SENSITIVE CONTROL**  
Topping-off and to the penny dispensing made easy. The new intelligent valve poppet opens without effort, so it is still possible to round up - even with high petrol prices.



**ZVA SLIMLINE 2 GRV INTEGRATED VAPOUR VALVES**  
Not only the 'On/Off' vapour valve GRV, but also the proportional valve GRVP are fully integrated and do not add to the nozzle length. Dry testing with the GRVP has been made even simpler.



Patents pending for new several constructions details.  
Design protection for Europe/China.



**CLEAN FOR DIESEL**  
The optional DRIP STOP spout for ZVA Slimline 2 stops dripping diesel and biodiesel within seconds. The dispenser area stays cleaner. Advantage - satisfied customers and a clean environment. Retrofitting possible.



**IMPROVED DRAIN-OFF**  
Due to forward located components and an improved construction, the nozzle drains off fast. This speeds up refuelling and further helps for a clean environment.



**CLEARLY LESS EFFORT**  
Better refuelling comfort, either with or without hold-open latch. The force to pull the lever has been reduced by more than 30 percent. This is appreciated in countries where a hold-open device is not allowed.



**SELF EXPLANATORY HOLD OPEN SYSTEM**  
New easy to use hold-open latch. Simple disassembly after pulling out the latch pin.



**COMFORTABLE LEVER**  
The composite contoured lever provides a comfortable experience for your hand - especially at low temperatures.



**IMPROVED SHUT-OFF**  
The new 'intelligent valve poppet' minimizes pressure peaks and protects the dispensing system. The poppet also provides for an improved shut-off even under demanding operation conditions, such as vapourising or foaming fuels.

| Part number   | Description  |
|---------------|--|
| WM026214-0001 | 19mm, 8D, spout id=19/od=25                        |
| WM026214-0003 | 19mm, 8D, spout id=16/od=21                        |
| WM026214-0004 | 19mm, 8, spout Id=21/od=25, drip stop              |
| WM026214-0005 | 19mm, 8D, spout id=16/od=21, DSA                   |
| WM026214-0006 | 19mm, 8, spout id=21/od=25, drip stop UK           |
| WM026214-0007 | 19mm, 8, spout id=21/od=25, drip stop, DSA         |
| WM026214-0002 | 19mm, 8D, spout id=16/od=21, ethanol               |
| WM026217-0002 | 19mm, 8D, spout id=21/od=25, black                 |
| WM026217-0003 | 19mm, 8D, spout id=16/od=21, green                 |
| WM026217-0001 | 19mm, 8D, spout id=21/od=25, black, drip stop      |
| WM026217-0004 | 19mm, 8D, spout id=16/od=21, black DSA             |
| WM026217-0006 | 19mm, 8D, spout id=21/od=25, black, drip stop, UK  |
| WM026217-0007 | 19mm, 8D, spout id=21/od=25, black, drip stop, DSA |
| WM026217-0002 | 19mm, 8D, spout id=21/od=25, black                 |
| WM026219-0003 | VR, 8D, spout od=25                                |
| WM026219-0002 | VR, 8D, spout od=21                                |
| WM026219-0004 | VR, 8D, spout od=21, DSA                           |
| WM026219-0001 | VR, 8D, spout od=21, ethanol                       |
| WM026220-0001 | VR, 8D, spout od=21, green                         |
| WM026220-0003 | VR, 8D, spout od=21, black                         |
| WM026220-0002 | VR, 8D, spout od=21, blue ethanol                  |
| WM026221-0003 | VR, id=16/od=21, green, with break-away            |
| WM026221-0004 | Id=21/od=25, black, with break, LT                 |
| WM026221-0005 | Id=21/od=25, black, drip stop, with break, LT      |

| Part number   | Description   |
|---------------|---|
| WM026221-0002 | Id=21/od=25, black, with break, std                         |
| WM026221-0006 | Id=21/od=25, black, drip stop, with break, std              |
| WM026221-0002 | Id=21/od=25, black, with break, std                         |
| WM026221-0004 | Id=21/od=25, black, with break, IT                          |
| WM026221-0008 | Id=16/od=21, with break, std                                |
| WM026221-0007 | Id=16/od=21, with break, LT                                 |
| WM026221-0001 | VR, id=16/od=21, with break-away                            |
| WM026221-0009 | Id=21/od=25, black, with break, DSA                         |
| WM026221-0010 | Id=21/od=25, black, with break, LT, DSA                     |
| WM026221-0011 | Id=21/od=25, black, drip stop, with break, LT, DSA          |
| WM026221-0012 | Id=21/od=25, black, drip stop, with break, DSA              |
| WM026221-0013 | Id=16/od=21, with break, LT, DSA                            |
| WM026221-0014 | Id=16/od=21, with break, DSA                                |
| WM026221-0015 | VR, id=16/od=21, with break-away, DSA                       |
| WM026221-0016 | Id=21/od=25, black, drip stop, with break-away, UK DSA      |
| WM026221-0017 | Id=21/od=25, black, drip stop, with break-away, LT, UK      |
| WM026221-0018 | Id=21/od=25, black, drip stop, with break-away, std, UK     |
| WM026221-0019 | Id=21/od=25, black, drip stop, with break-away, LT, DSA, UK |
| WM026484-0001 | BP VR, light blue   |
| WM026485-0001 | BP light blue   |
| WM026485-0002 | BP dark blue  |

#### 14.2.1 Cover- Elaflex Slimline 2

| Part number   | Description   |
|---------------|---------------|
| WM026428-0001 | Orange        |
| WM026428-0002 | Black         |
| WM026428-0003 | White         |
| WM026428-0004 | Yellow        |
| WM026428-0005 | Blue          |
| WM026428-0006 | Red           |
| WM026428-0007 | Green         |
| WM026428-0008 | Light green   |
| WM026428-0009 | Light yellow  |
| WM026428-0010 | BP dark blue  |
| WM026428-0011 | BP light blue |

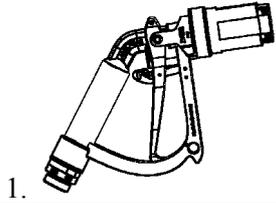
It's the same cover for nozzles with VR and without VR.

#### 14.2.2 Splash guard - Elaflex Slimline 2

| Part number   | Description                          |
|---------------|--------------------------------------|
| WM026471-0002 | Id=24, od=82, green                  |
| WM026471-0005 | Id=24, od=82, black                  |
| WM026471-0006 | Id=24, od=82, green, text UK         |
| WM026471-0003 | Id=24, od=82, blue                   |
| WM026471-0004 | Id=24, od=82, red                    |
| WM026471-0001 | Id=24, od=82, yellow                 |
|               | <b>BP</b>                            |
| WM026471-0007 | Id=24, od=82, BP light blue, text NL |
| WM026471-0009 | Id=24, od=82, BP Light blue, text PT |
| WM026471-0010 | Id=24, od=82, BP Light blue, text ES |
| WM026471-0019 | Id=26, od=92, BP light blue, AT      |
| WM026471-0017 | Id=26, od=92, BP dark blue, AT       |
| WM026471-0018 | Id=26, od=92, BP dark blue, UK       |
| WM026471-0008 | Id=26, od=92, BP light blue, PL      |
| WM026471-0016 | Id=26, od=92, BP dark blue, FR       |
| WM026471-0011 | Id=26, od=92, BP light blue, FR      |
| WM026471-0012 | Id=26, od=92, BP dark blue, NL       |
| WM026471-0013 | Id=26, od=92, BP dark blue, PL       |
| WM026471-0015 | Id=26, od=92, BP dark blue, ES       |
| WM026471-0014 | Id=26, od=92, BP dark blue, PT       |

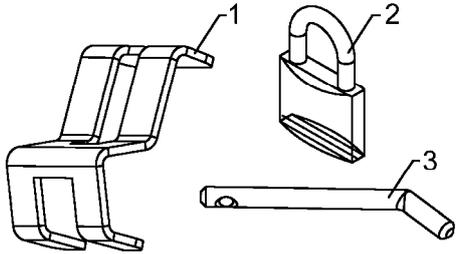
### 14.3 Nozzle - LPG

|   | Part number   | Description           |
|---|---------------|-----------------------|
| 1 |               | Nozzle, Elaflex, ZVG2 |
|   | WM029761-0001 | DISH connection       |
|   | WM029761-0002 | ACME connection       |

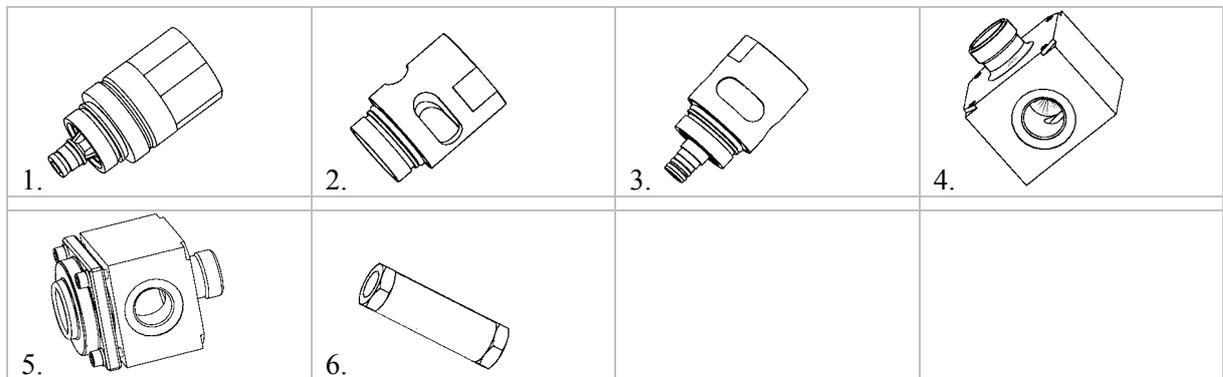


### 14.4 Padlock (HH & HHR)

|   | Part number   | Description     |
|---|---------------|-----------------|
| 1 | WM004686      | Lock LPG nozzle |
| 2 | WM003189      | Padlock         |
| 3 |               | <b>Pin</b>      |
|   | WM002518-0001 | 1 nozzle        |
|   | WM002518-0002 | 2 nozzles       |
|   | WM002518-0003 | 3 nozzles       |
|   | WM002518-0004 | 4 nozzles       |
|   | WM002518-0005 | 5 nozzles       |
|   | WM002518-0006 | 6 nozzles       |



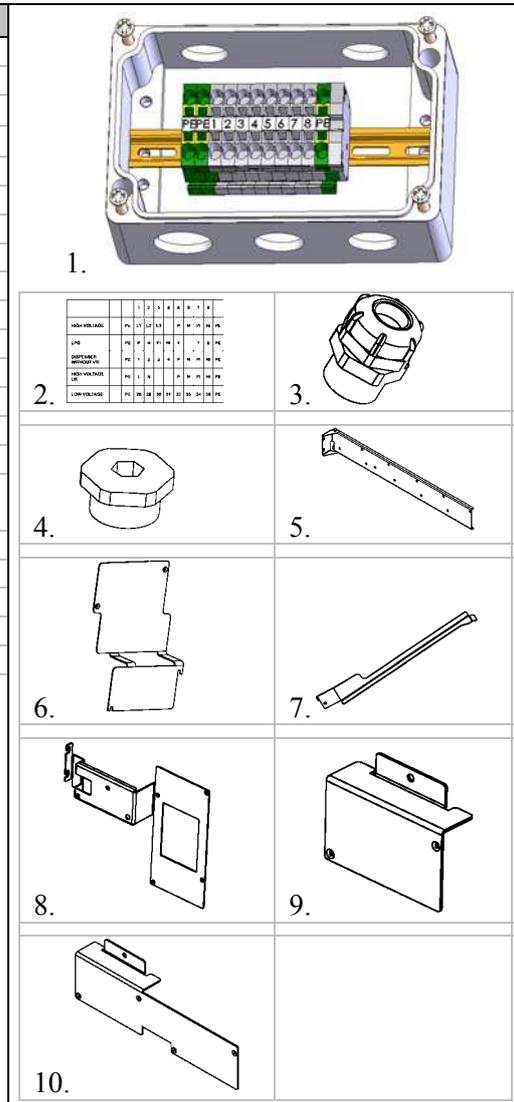
### 14.5 Sight glass and break away



|   | Part number | Description   |
|---|-------------|---|
| 1 | WM002068    | Break away  |
|   |             | <b>Sight glass</b>  |
| 2 | WM002348    | Without vapour (VR)   |
| 3 | WM002030    | With vapour (VR)  |
| 4 | WT001124    | Coupling, 90°, female G3/4", male M30x2 - LPG<br>(see also page 20) |
| 5 | WT001119    | Sight glass - LPG   |
| 6 | WM002174    | Valve break-away - LPG (Bearing, knot, LPG see page 20)             |

# 15 Junction box

|    | Part number   | Description                               |
|----|---------------|---|
| 1  |               | <b>Junction box</b>                       |
|    | WM026839      | All round (on picture)                    |
|    | WM008794      | AdBlue®                                   |
|    | WM008789      | Box with thermostat (AdBlue®)             |
|    | WM008787      | Thermostat                                |
|    | WM003332      | Sticker high voltage                      |
| 2  | WM026770      | Sticker connection label                  |
| 3  |               | <b>Grommet</b>                            |
|    | WM007146      | M16, Ø 6-10 mm                            |
|    | WM001540-0001 | M20, Ø 8-12 mm                            |
|    | WM001540-0002 | M20, Ø 10-14 mm                           |
|    | WM003257      | M25, Ø 13-18 mm                           |
| 4  |               | <b>Grommet blind</b>                      |
|    | WM001591      | M20                                       |
|    | WM003241      | M25                                       |
| 5  | WM028376      | Support, L-shape, junctions box, L=709mm  |
| 6  | WM033178      | Support, Z-shape, (junction boxes option) |
| 7  | WM028378      | Support, Z-shape                          |
| 8  | WM038608      | Support, box shape                        |
| 9  | WM038602      | Support, Z-shape                          |
| 10 | WM039540      | Support, Z-shape, L=305                   |



Cables, see page 91.

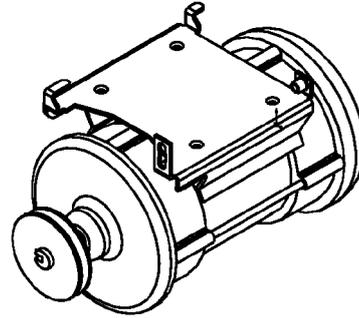
Connection Instruction and Installation instructions, see the ftp-server.  
Please contact your dealer for login information.

## 15.1 Electronic box, B2B

|    | Part number   | Description                                    |    |     |
|----|---------------|--|----|-----|
| 1  | WM038823      | Support, box shape                             | 1. | 2.  |
| 2  | WM038984      | Cover plate                                    |    |     |
| 3  | WM038952      | Support, L-shape holder                        | 3. | 4.  |
| 4  | WM005260      | Connector, panel terminal block 4 socket (1x4) |    |     |
| 5  | WM038799      | Board connection board B2B                     | 5. | 6.  |
| 6  | WM038826      | Support, L-shape board holder, B2B             |    |     |
| 7  | WM038955      | Support, L-shape holder                        | 7. | 8.  |
| 8  | WB000291-0003 | Spacer ID=4.3, OD=8, L=6                       |    |     |
| 9  | WM005074      | Board B2B                                      | 9. | 10. |
| 10 | WM006081      | Support, L-shape                               |    |     |
| 11 | WM033333-0001 | Plastic fastener spacer 4.8, D=3,18            |    |     |
|    | WM007710-0001 | Gasket L=322, H=8                              |    |     |
|    | WM007710-0002 | Gasket L=211, H=8                              |    |     |
|    | WM007708      | Gasket L=318, H=20                             |    |     |
|    | WB000209-0007 | Screw, hexagon socket CAP, M4 x 5              |    |     |
|    | WB000280-0001 | Screw, CSK Socket CAP, M4 x 8                  |    |     |
|    | WB000334-0003 | Screw, hexagon socket CAP, M3 x 12             |    |     |
|    | WB000229-0002 | Lock nut, M4                                   |    |     |

# 16 Motor

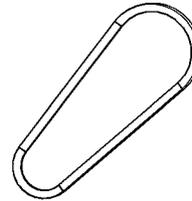
| Part number           | Description                     |
|-----------------------|---------------------------------|
| <b>Motor, 3-phase</b> |                                 |
| WM022320-0008         | 0.75 kW, 230 V, 1430 rpm, 50 Hz |
| WM022320-0007         | 0.75 kW, 400 V, 1430 rpm, 50 Hz |
| use WM022320-0007     | 0.75 kW, 400 V, (Croatia)       |
| WM022323-0007         | 1.1 kW, 230 V, 1400 rpm, 50 Hz  |
| WM022323-0006         | 1.1 kW, 400 V, 1400 rpm, 50 Hz  |
| use WM022323-0006     | 1.1 kW, 400 V, (Croatia)        |
| <b>Motor, 1-phase</b> |                                 |
| WM028249-0001         | 0.75 kW, 230 V, 1450 RPM, 50 Hz |
| WM028248-0001         | 1.1 kW, 230 V, 1400 RPM, 50 Hz  |



## 16.1 Driving belt

| <b>Belt, Z-profile</b> |         |
|------------------------|---------|
| WM004363               | SPZ 792 |
| WM003055               | SPZ 800 |

|   |  |
|---|--|
| <br><b>WARNING!</b> | The driving belt may be replaced only by original belt from Dresser Wayne, otherwise there is a risk of explosion. |
|---|--|



# 17 Vapour recovery

## 17.1 Vapour recovery module - Dürr

MEX 0544 1000K up to 0544 2999K  
 MEX 0544 1000G up to 0544 2999G

Tubes for Global Star V HHR; see page 65 and forwards.

To protect the machines from high ambient temperature a temperature switch is build in. This prevents an overheating of the motor winding. The temperature switch turns off the machine at undue high ambient temperatures.

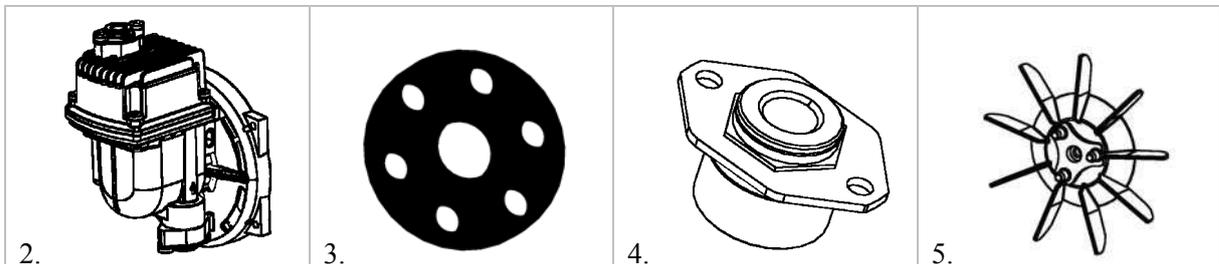


|                     |  |
|---------------------|--|
| <br><b>WARNING!</b> | The flame arresters (and including components) are to be subjected to a visual check, above all for contamination and corrosion, at suitable intervals of time and to be cleaned or replaced if necessary. |
|---------------------|--|

|                     |  |
|---------------------|--|
| <br><b>CAUTION!</b> | The machine starts running again automatically after cooling down. |
|---------------------|--|

|                     |   |
|---------------------|---|
| <br><b>CAUTION!</b> | The piston pump, for technical safety reasons, must not be operated without the flame arrester specified by the manufacturer. |
|---------------------|---|

**NOTE!**  
 The pump must by no means be operated without the rubber element.

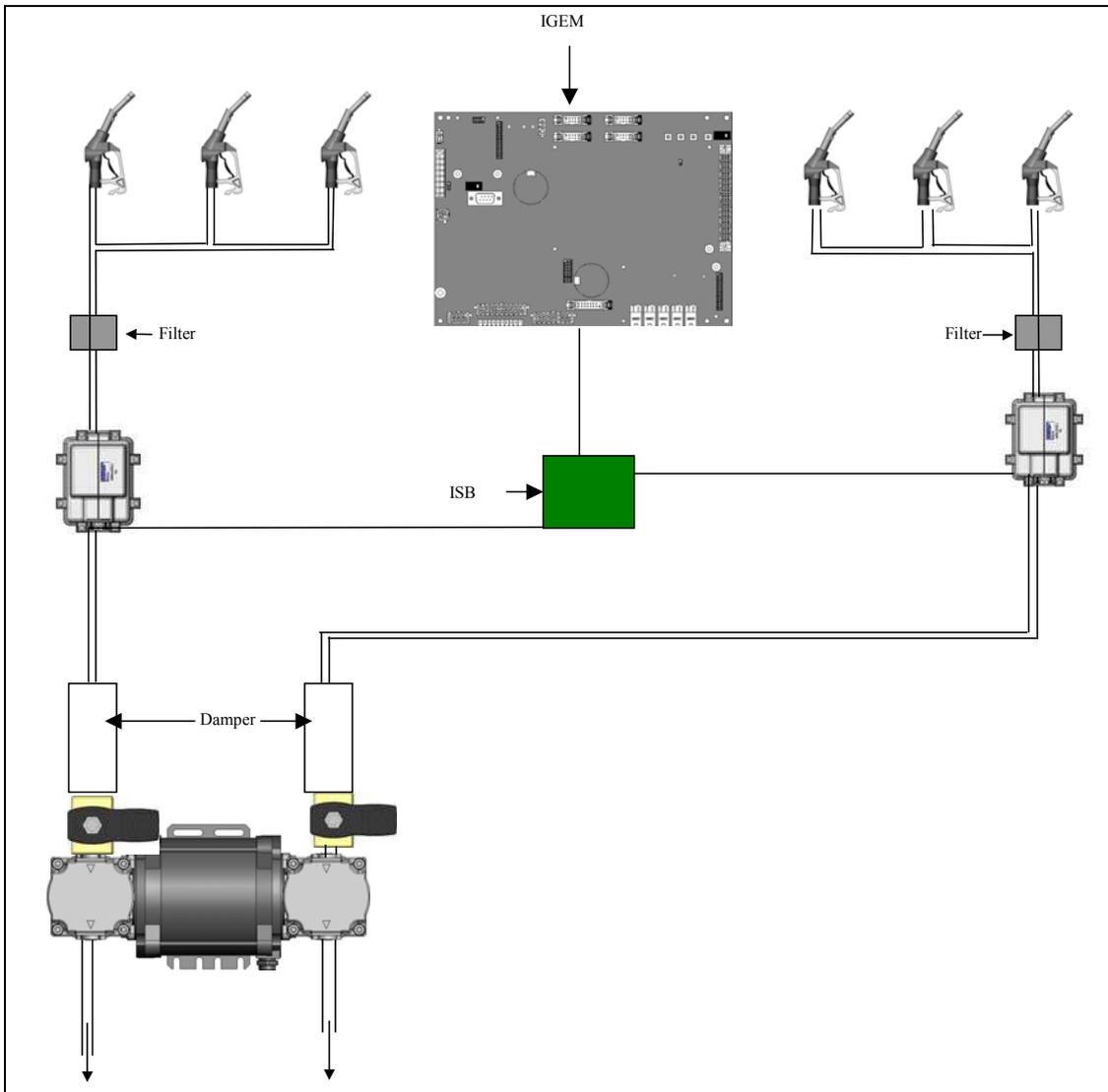


|   | Part number   | Description                                  |
|---|---------------|--|
|   | See page 25   | Shelf for VR module                          |
| 1 |               | <b>Vapour recovery module</b>                |
|   | WM029734      | Motor 1-phase 230V, 1 piston pump            |
|   | WM029735      | Motor 1-phase 230V, 2 piston pumps           |
|   | WM029736      | Motor 3-phase 230V, 1 piston pump            |
|   | WM029737      | Motor 3-phase 230V, 2 piston pumps           |
|   | WM029738      | Motor 3-phase 400V, 1 piston pump            |
|   | WM029739      | Motor 3-phase 400V, 2 piston pumps           |
|   | use WM029738  | Motor 3-phase (Croatia) 400V, 1 piston pump  |
|   | use WM029739  | Motor 3-phase (Croatia) 400V, 2 piston pumps |
| 2 | WM029349      | Vapour pump, complete                        |
| 3 | WM029343      | Rubber coupling                              |
| 4 |               | <b>Flame arrester with O-ring</b>            |
|   | WM029346      | Cylindrical, before December 2010            |
|   | xxxxxx        | Conical, starting in December 2010           |
| 5 | WM029340      | Fan with coupling                            |
|   | WM030532-0001 | Taptite screw, Torx, pan head, M5            |

Vapour tubes; see page 65 and forwards.  
 Vapour tubes from pump to outlet, see page 74.

## 17.2 VR Monitoring

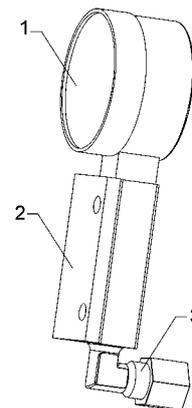
Spare parts, see page 68.



VRM system overview (without self check)

## 17.3 Pressure gauge

| Part number | Description                          |
|-------------|--------------------------------------|
| WM001545    | Pressure gauge ass'y                 |
| WM001544    | Pressure gauge                       |
| WM001812    | Coupling 90°                         |
| WM002449    | Coupling straight                    |
| WM003160    | Sealant Loxeal 58-11, thread sealant |



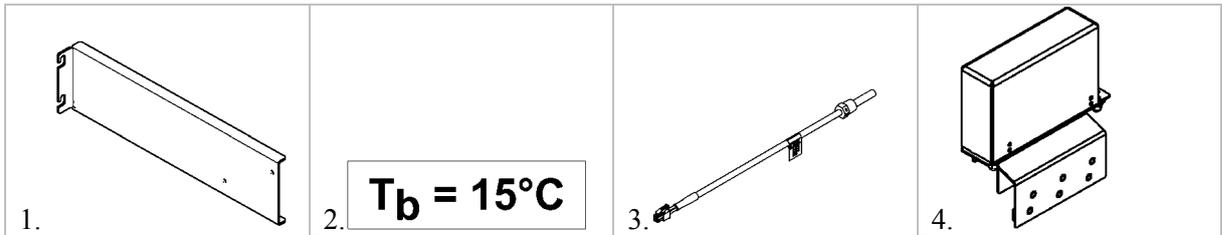
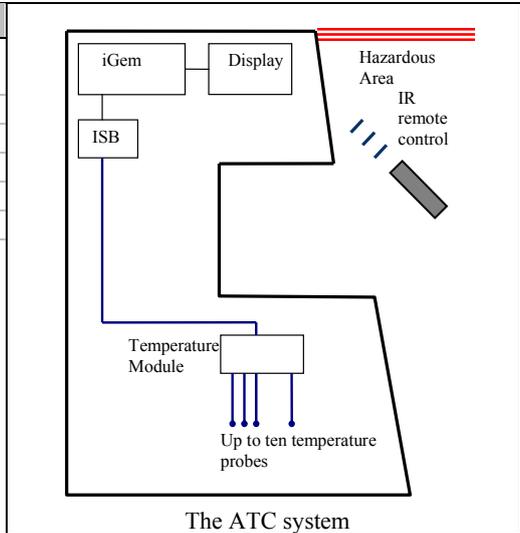
# 18 ATC

## Automatic Temperature Compensation

| Part number               | Description                                  |
|---------------------------|--|
| 1 WM028380                | Support, l-shape, sensor, temperature module |
| 2 WM013631                | Grade sticker, Tb=15 °C, transparent         |
| <b>Temperature probes</b> |  |
| WM019643-0001             | L=1050 mm                                    |
| WM019643-0002             | L=3000 mm                                    |
| 4 WM020675-0011           | Temperature Module (without probes)          |

**WARNING: Contains intrinsically safe equipment**

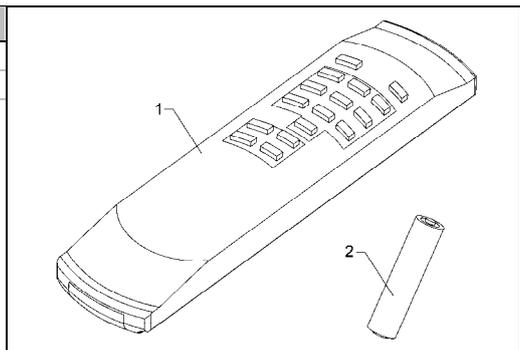
Cables see page 91.  
ISB see page 8.



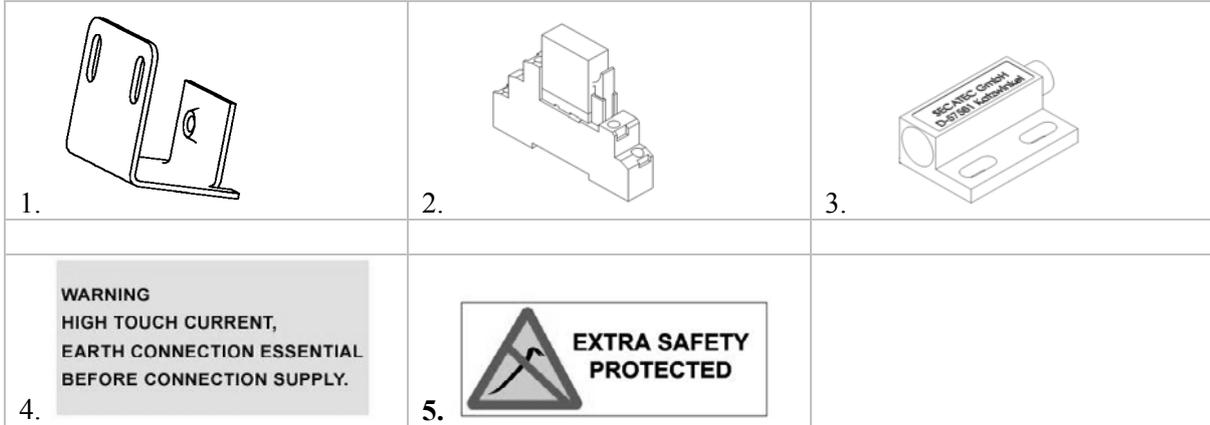
# 19 Remote control

| Part number | Description                 |
|-------------|-----------------------------|
| 1 WM002290  | Remote control with battery |
| 2 WM002289  | Battery LR03 size AAA 1.5V  |

WM023838 - document - "intelligent Global Electronics Module (iGEM) - Maintenance mode"

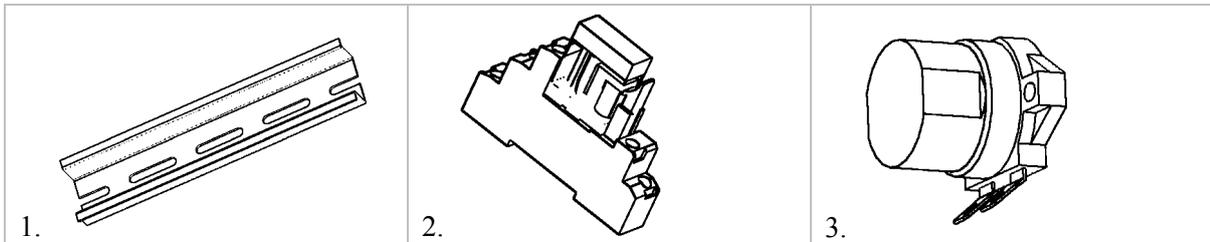


## 20 Anti burglary device



|   | Part number   | Description   |
|---|---------------|---|
| 1 | WM028381      | Support, U-shape, anti-burglar switch               |
| 2 | WM002399      | Relay   |
|   |               | <b>Switch, magnetic reed, 2-wire, normally open</b> |
|   | WM023586-0001 | 0.4 m cable   |
|   | WM023586-0002 | 1.5 m cable   |
|   | WM023586-0003 | 3.0 m cable   |
| 3 | WM001649-0001 | Switch  |
| 4 | WE000544      | Sticker   |
| 5 | WM006679      | Sticker   |

## 21 Tilt switch



|   | Part number | Description                        |
|---|-------------|------------------------------------|
| 1 | WM006842    | Rail TS35, L=80                    |
| 2 | WM002399    | Relay RT114024 with socket and led |
| 3 | WM032909    | Vibration detection switch         |

## 22 Documents

Intelligent Global Electronics Module (iGEM) - Maintenance mode (eng)..... WM023838

### 22.1 Users Manual HH & HHR

|         |          |
|---------|----------|
| CZ      | WM027785 |
| DE      | WM027786 |
| eng     | WM027787 |
| ES      | WM027788 |
| FI      | WM027789 |
| FR      | WM027790 |
| GR      | WM027791 |
| IT      | WM027792 |
| LV      | WM029460 |
| NL      | WM027793 |
| PL      | WM027794 |
| PT      | WM027795 |
| RO      | WM027796 |
| RU      | WM027797 |
| SE      | WM027798 |
| SI      | WM027799 |
| UA      | WM028984 |
| YU (sr) | WM027800 |

You will find the manuals on our FTP server.  
Please contact your dealer for login information.

### 22.2 Users Manual LPG

|         |          |
|---------|----------|
| CZ      | WM033046 |
| DE      | WM033047 |
| EE      | WM033048 |
| eng     | WM033049 |
| FR      | WM033050 |
| IT      | WM033051 |
| NL      | WM033052 |
| PL      | WM033053 |
| PT      | WM033054 |
| RU      | WM033055 |
| SE      | WM033056 |
| SI      | WM033057 |
| UA      | WM033058 |
| YU (sr) | WM033059 |

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### 22.3 Users Manual ADBLue®

|     |          |
|-----|----------|
| CZ  | WM033304 |
| DE  | WM033305 |
| eng | WM033306 |
| ES  | WM033307 |
| FR  | WM033308 |
| IT  | WM033309 |
| LV  | WM034822 |
| NL  | WM033310 |
| RO  | WM033311 |
| RU  | WM033312 |
| SE  | WM033313 |
| SI  | WM033314 |
| UA  | WM033315 |

You will find the manuals on our FTP server.  
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ADBlue® is a registered trademark of Verband der Automobilindustrie e.V.

## 22.4 Drawings

You will find the drawings on our FTP server.  
Please contact your dealer for login information.

|  |           |
|--|-----------|
| Approval drawing - zoning                            | WM027485  |
| Approval drawing (with P&P) - zoning                 | WM027552  |
| Wiring diagram                                       | WM026113  |
| Wiring diagram, B2B                                  | WM038149  |
| Installation wiring diagram / Connection Instruction | WM026636  |
| Translation of text on the drawing (WM026636)        | W8-461493 |

### **Installation Instruction**

|  |           |
|--|-----------|
| Translation of text on the drawings below                  | W8-461496 |
| Gobal Star V LPG   | WM032722  |
| B2B LPG  | WM038659  |
| B2B  | WM038994  |
| Global Star V AdBlue®                                      | WM038959  |
| Translation of text on the drawings below                  | W8-461494 |
| CXX-11, CXX-21, Small cabinet, Suction pump                | WM033015  |
| CXX-22, Small cabinet, Suction pump                        | WM033016  |
| XX-21, Small cabinet, master and slave (SAT), Suction pump | WM037512  |
| CXX-11, CXX-21 & CXX-31, Suction pump                      | WM029083  |
| CXX-32 & CXX-22, Suction pump                              | WM029084  |
| CXX-33, Suction pump                                       | WM029085  |
| CXX-42, Suction pump                                       | WM029087  |
| CXX-43, Suction pump                                       | WM029088  |
| CXX-44, Suction pump                                       | WM029089  |
| CXX-11, CXX-21 & CXX-31, Centrally pump system / Dispenser | WM031420  |
| CXX-32 & CXX-22, Centrally pump system / Dispenser         | WM031421  |
| CXX-33, Centrally pump system / Dispenser                  | WM031422  |
| CXX-42, Centrally pump system / Dispenser                  | WM031424  |
| CXX-43, Centrally pump system / Dispenser                  | WM031425  |
| CXX-44, Centrally pump system / Dispenser                  | WM031426  |

|        |        |
|--------|--------|
| SAT II | 172342 |
|--------|--------|

### 22.4.1 **Foundation Frame**

|                                |                          |
|--------------------------------|--------------------------|
| 2 hydraulics + 1 nozzle module | WM031871                 |
| 2 hydraulics + 2 nozzle module | WM031877                 |
| 3 hydraulics 1 nozzle module   | foundation_frames_c11-11 |
| 3 hydraulics 2 nozzle modules  | foundation_frames_c22-22 |
| 3 hydraulics 3 nozzle modules  | foundation_frames_c33-33 |
| 4 hydraulics 2 nozzle modules  | foundation_frames_c44-42 |
| 4 hydraulics 3 nozzle modules  | foundation_frames_c44-43 |
| 4 hydraulics 4 nozzle modules  | foundation_frames_c44-44 |

## 23 Cables

See also wiring diagram WM026113.  
 You will find the diagram on the ftp server.  
 Please contact your dealer for login information.

|    | Part number   | Description  |
|----|---------------|--|
| 1  | WM025766-0001 | Cable 10x0.34 L=250                                      |
| 2  | WM025759-0001 | Cable 8x0.34 L=250                                       |
| 3  | WM031127-0001 | Cable high voltage 4G2.5 zone L=2000                     |
| 4  | WM025845-0001 | Cable high voltage 5G1.5 zone L=1800                     |
| 5  | WM025757-0001 | Cable 8x0.34 L=400                                       |
| 6  | WM025912-0001 | Cable high voltage 5G1.5 zone L=1800                     |
| 7  | WM025904-0001 | Cable multi 3G0.5 zone L=250, 1x0.5 rd L=100             |
| 8  | WM004092-0001 | Cable multi 1x0.5 rd L=100, 30 1x0.5 bk L=100, 30        |
| 9  | WM025818-0001 | Cable multi 1x0.5 rd L=300, 1x0.5 bk L=300               |
| 10 | WM025811-0001 | Cable multi 1x1.5 bu, 1x1.5 bn, 1x1.5 gr/ye L=300        |
| 11 | WM003861-0002 | Cable flat 16-position 1.27-pitch L=400                  |
| 12 | WM003760-0002 | Cable flat 10-position 1.27-pitch L=520                  |
| 13 | WM003760-0003 | Cable flat 10-position 1.27-pitch L=900                  |
| 14 | WM027179-0001 | Cable multi 4x0.5 , 2x0.5 L=800, 1x0.5 rd,1x0.5 bk L=400 |
| 15 | WM003980-0005 | Cable 2x0.34 L=1300                                      |
| 16 | WM021915-0002 | Cable multi 1x0.5 rd L=1500, 1x0.5 bk L=1500             |
| 17 | WM003984-0001 | Cable 5G0.5 zone sc L=10000                              |
| 18 | WM004105-0001 | Cable single wire 1x0.75 bk L=75                         |
| 19 | WM006833-0003 | Cable 4x0.5 L=350  |
| 20 | WM006833-0002 | Cable 4x0.5 L=200  |
| 21 | WM027757-0001 | Cable 2x0.5 L=200  |
| 22 | WM027757-0002 | Cable 2x0.5 L=350  |
| 23 | WM026329-0001 | Cable flat 10-position 1.27-pitch L=900+900              |
| 24 | WM036349-0001 | Cable 2x0.5 L=500  |
| 25 | WM003722-0001 | Cable multi 1x0.5 rd L=280,130,30; 1x0.5 bk L=280,130,30 |
| 26 | WM003736-0003 | Cable 4x0.34 L=300                                       |
| 27 | WM025854-0001 | Cable 5G0.75 zone L=2500                                 |
| 28 | WM026331-0001 | Cable 5G0.75 zone L=2500                                 |
| 29 | WM004087-0002 | Cable high voltage 4G1.5 zone L=2000                     |
| 30 | WM019845-0001 | Cable 4x0.34 L=500                                       |
| 31 | WM028743-0001 | Cable multi 5G0.75 L=2500, 2x0.5, 2x0.5 L=800            |
| 32 | WM030107-0001 | Cable single wire 1x0.75 bk L=800                        |
| 33 | WM025854-0002 | Cable 5G0.75 zone L=3000                                 |
| 34 | WM003760-0004 | Cable flat 10-position 1.27-pitch L=1400                 |
| 35 | WM031341-0001 | Cable high voltage 5G2.5 zone L=1800                     |
| 36 | WM004126-0001 | Cable single wire 1x10 gn/ye L=10000                     |
| 37 | WM032894-0001 | Cable multi 1x0.5 rd L=300, 1x0.5 bk L=700               |
| 38 | WM032896-0001 | Cable single wire 1x0.5 rd L=800                         |
| 39 | WM006828-0001 | Cable high voltage 3G1.5 zone L=2500                     |
| 40 | WM005466-0001 | Cable 12x0.34 L=800                                      |
| 41 | WM032916-0001 | Cable 2x0.5 L=1000                                       |
| 42 | WM010634-0001 | Cable 2x0.5 zone L=250                                   |
| 43 | WM010634-0002 | Cable 2x0.5 zone L=800                                   |
| 44 | WM038963-0001 | Cable 2x0.5 L=250  |
| 45 | WM032364-0001 | Cable high voltage 5G2.5 zone L=2500                     |

## 23.1 Cables B2B

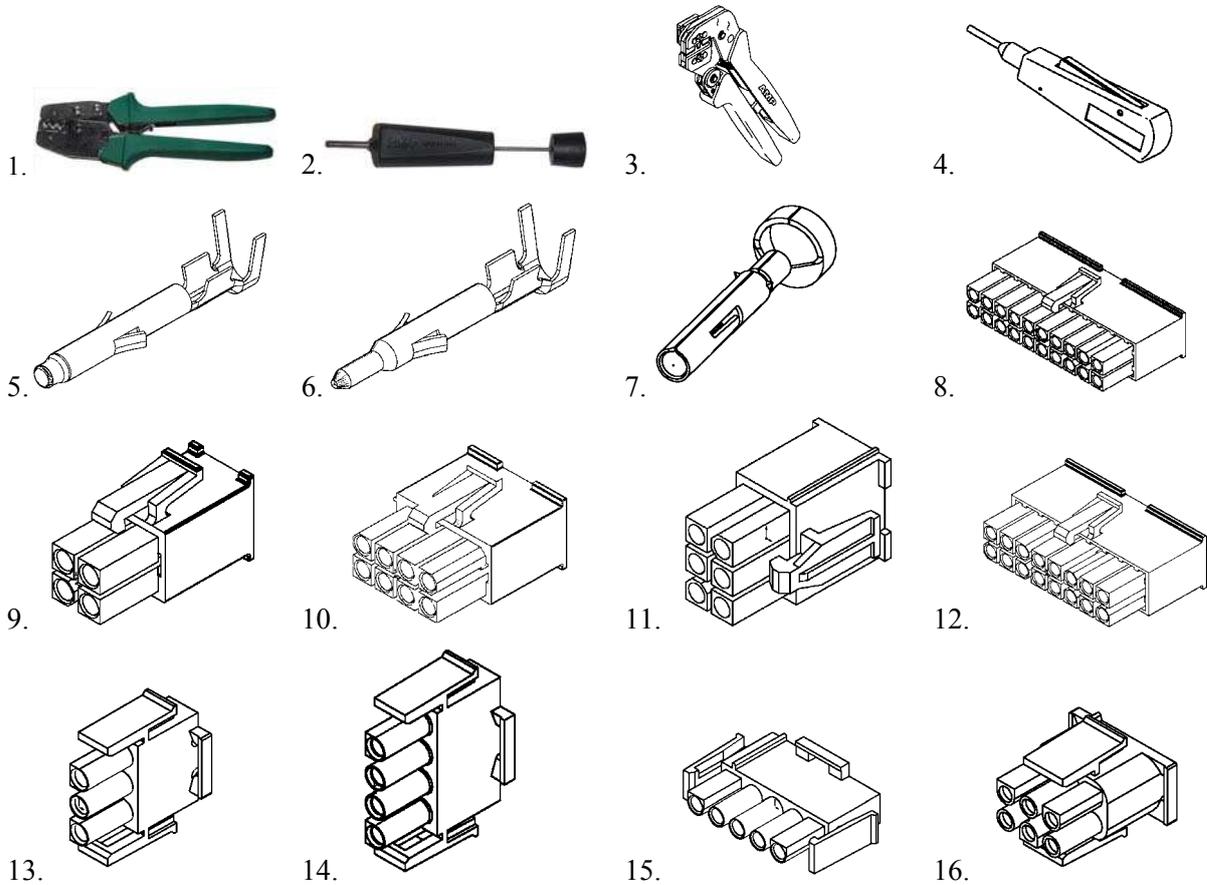
See also wiring diagram WM038149.

You will find the diagram on the ftp server.

Please contact your dealer for login information.

|    | Part number   | Description  |
|----|---------------|--|
| 1  | WM038145-0001 | Cable multi 3 PC 2x0.5 , 3 PC 1x0.5 GR/YE L=200      |
| 2  | WM038830-0001 | Cable 7G0.75 ZONE SC L=5500                          |
| 3  | WM038835-0001 | Cable 12G0.75 zone SC L=5500                         |
| 4  | WM006985-0001 | Cable high voltage 3G1.5 zone L=3000                 |
| 5  | WM025845-0001 | Cable high voltage 5G1.5 zone L=1800                 |
| 6  | WM005231-0001 | Cable twisted pair 8x2x0.34 zone SC L=5500           |
| 7  | WM025912-0001 | Cable high voltage 5G1.5 zone L=1800                 |
| 8  | WM038156-0001 | Cable high voltage 3G1.5 zone L=2000                 |
| 9  | WM031127-0001 | Cable high voltage 4G2.5 zone L=2000                 |
| 10 | WM025759-0001 | Cable 8x0.34 L=250                                   |
| 11 | WM019845-0001 | Cable 4x0.34 L=500                                   |
| 12 | WM030812-0001 | Cable 10x0.34 L=300                                  |
| 13 | WM038832-0001 | Cable twisted pair 8x2x0.34 zone SC L=5500           |
| 14 | WM037854-0001 | Cable high voltage 3G1.5 zone L=250                  |
| 15 | WM025811-0001 | Cable multi 1x0.75 BU, 1x0.75 BN, 1x0.75 GR/YE L=300 |
| 16 | WM003752-0002 | Cable 4x0.34 zone SC Eexi L=2500                     |
| 17 | WM005234-0001 | Cable 4x0.34 zone SC Eexi L=5000                     |
| 18 | WM003861-0003 | Cable flat 16-position 1.27-pitch L=600              |
| 19 | WM003760-0002 | Cable flat 10-position 1.27-pitch L=520              |
| 20 | WM005231-0002 | Cable twisted pair 8x2x0.34 zone SC L=1500           |

## 23.2 Crimp tools and connectors



|     | Part number   | Description  |
|-----|---------------|--|
| 1.  | WM002168      | Crimp tool (mini umnl)                                   |
| 2.  | WM002167      | Extraction tool (mini umnl)                              |
| 3.  | WM029986      | Crimper tool (umnl)                                      |
| 4.  | WM029985      | Extraction tool (umnl)                                   |
| 5.  |               | <b>Socket, mini umnl</b>                                 |
|     | WM002694-0002 | 0.12-0.35 mm <sup>2</sup> (mini umnl)                    |
|     | WM002694-0001 | 0.30-0.89 mm <sup>2</sup> (mini umnl)                    |
| 6.  |               | <b>Pin, mini umnl</b>                                    |
|     | WM002693-0002 | 0.12-0.35 mm <sup>2</sup> (mini umnl)                    |
|     | WM002693-0001 | 0.30-0.89 mm <sup>2</sup> (mini umnl)                    |
| 7.  |               | <b>Socket, umnl</b>                                      |
|     | WM027773-0001 | 0.50-2.00 mm <sup>2</sup> (umnl)                         |
|     |               | <b>Connector, mini umnl</b>                              |
| 8.  | WM003347      | Cable, mini umnl 20 pin (2x10) (for valves)              |
| 9.  | WM002592      | Cable, mini umnl 4 pin (2x2) (for power / spare outputs) |
| 10. | WM002590      | Cable, mini umnl 8 pin (2x4) (for motors)                |
| 11. | WM005227      | Cable, mini umnl 6 pin (2x3)                             |
| 12. | WM002587      | Cable, mini umnl 16 pin (2x8) (for nozzle switch)        |
|     |               | <b>Connector, umnl</b>                                   |
| 13. | WM002601      | Cable, umnl 3 pin (1x3)                                  |
| 14. | WM024983      | Cable, umnl 4 pin (1x4)                                  |
| 15. | WM002602      | Cable, umnl 5 pin (1x5)                                  |
| 16. | WM025911      | Cable, umnl 6 pin (2X3)                                  |

umnl - universal MATE-N-LOK

# 24 Contents - all levels

Consider the environment.

Please don't print this document unless you really need to.

Please find connection Instructions and Installation Instructions on the ftp-server. Contact your dealer for login information.

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FTP-server - Please contact your dealer for login information.

## 26 Market & Service

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## 27 Notes

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# More than a century of experience Über 100 Jahre Erfahrung Mer än 100 års erfarenhet Более, чем столетний опыт работы



**Wayne Dresser** develops, manufactures and markets complete operative systems for fuel handling at service stations. Everything from development and design to efficient production and assembly of components is pursued under one roof.

**Wayne Dresser** entwickelt, produziert und vermarktet komplette funktionierende Systeme für die Abgabe von Kraftstoffen an Tankstellen. Von der Entwicklung über das Design bis zur Herstellung und Installation liefern wir alles aus einer Hand.

**Wayne Dresser** utvecklar, tillverkar och marknadsför kompletta operativa system för drivmedelshandling på servicestationer. Under ett och samma tak ryms allt från utveckling och konstruktion till rationell tillverkning och sammansättning av komponenter.

**Wayne Dresser** разрабатывает, производит и продает совершенные оперативные системы для торговли топливом на станциях обслуживания. Все начиная от разработок и конструкции до эффективного производства и сборки компонентов происходит в пределах одного предприятия.

## Wayne Dresser's operations comprise four interdependent functions:

- Equipment such as petrol pumps, payment terminals, point-of-sale terminals and service station operative systems.
- Software for recording and for internal communication at the station, as well as between the station and the oil company, banks and credit institutes.
- Project design with overall responsibility to the customer.
- Field service, technical support and supply of spare parts.

**Wayne Dresser** makes it easier for the motorist to fill up and make his motoring purchases, while effectively meeting the needs of the service station owner for operating supervision and for conforming to the demands of the authorities for measurement accuracy, minimising pollution and ensuring safety.

## Die Niederlassungen von Wayne Dresser umfassen vier ineinander greifende Bereiche:

- Ausrüstungen wie Zapfsäulen, Zahlterminals, Kassenterminals und Tankstellensysteme
- Software für Registrierung und Kommunikation auf der Tankstelle u. zwischen Station und Mineralölfirma sowie Banken und Kreditinstituten.
- Projektgestaltung mit umfassender Verantwortlichkeit dem Kunden gegenüber.
- Service, technische Unterstützung und Lieferung von Ersatzteilen.

**Wayne Dresser** erleichtert dem Fahrer die Betankung und damit verbundene Einkäufe, unterstützt gleichzeitig den Stationär bei der übersichtlichen Führung seines Betriebes unter Berücksichtigung der behördlichen Vorschriften hinsichtlich Messgenauigkeit, Umwelt- und Sicherheitsauflagen.

## Verksamheten omfattar fyra samverkande delar:

- Utrustning som bensinpumpar, betalterminaler, butiksterminaler och stationsdatorer.
- Programvara för registrering och kommunikation internt på stationen samt mellan stationen och oljebolaget, banker och kreditinstitut.
- Projekttering med totalansvar gentemot uppdragsgivaren.
- Service på fältet, teknisk support och reservdelsförsörjning.

**Wayne Dresser** gör det lättare för bilisten att tanka och handla. Samtidigt tillgodoses stationsägarens krav på en effektiv driftskontroll och myndighetskraven på måtnoggrannhet, miljövänlighet och driftssäkerhet.

## Действия Wayne Dresser включают четыре взаимосвязанных направления:

- Оборудование, например, топливораздаточные колонки, платежные терминалы, терминалы точек продажи и системы управления АЗС.
- Программное обеспечение для регистрации и для внутренней связи на АЗС, а также между АЗС и нефтяной компанией, банками и институциями кредитов.
- Проектирование с полной ответственностью к клиенту.
- Обслуживание на местах, техническая поддержка и поставка запасных частей.

**Wayne Dresser** упрощает процесс заправки и приобретения покупок при эффективном согласовании потребностей владельца АЗС для оперативного управления и для соблюдения требований государственных и метрологических служб, а также уменьшения загрязнения окружающей среды и обеспечения безопасности.