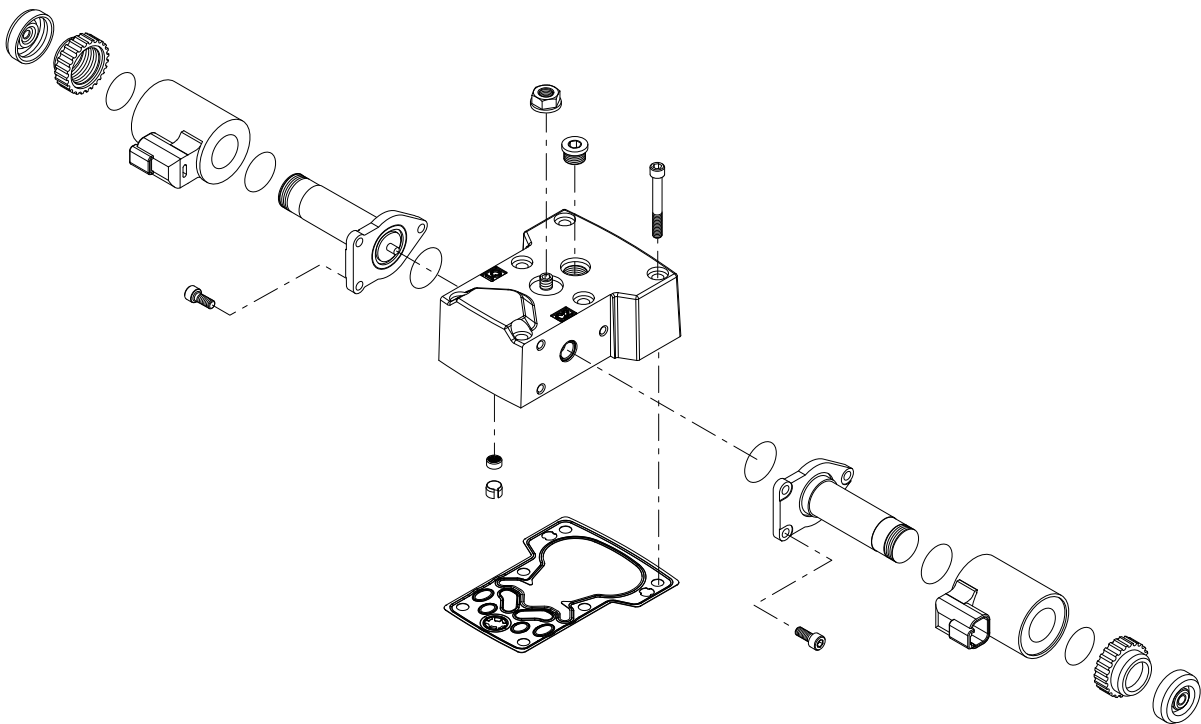


# Variable Displacement Pumps

## H1P 210 and 250cc



## Revision history

*Table of revisions*

| Date          | Changed                                         | Rev  |
|---------------|-------------------------------------------------|------|
| January 2020  | Updated control gasket part numbers             | 0310 |
| June 2019     | Updated part numbers; added new options         | 0309 |
| February 2019 | Added various new options                       | 0308 |
| November 2018 | Added control options T6, T7, T8 and T9         | 0307 |
| May 2018      | Updated graphics                                | 0306 |
| May 2018      | Added control option D4 and filtration option M | 0305 |
| April 2018    | Updated to Engineering Tomorrow design          | 0304 |

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## General information

### Service Parts Identification

The following information and procedure is used to identify the module group, item number, manufacture date, part number, and part name of the parts included in the H1P 210 and 250 cc variable displacement pumps.

The parts listed include all parts which may be used when performing either "Minor Repairs", "Major Repairs" or "Conversions" on the H1P 210 and 250 cc pumps.

### Nameplate

Each unit will have a nameplate affixed to the housing. The nameplate will include the following information:

#### Model Code

The Danfoss model code completely defines the specific unit and must be used when ordering parts to service this product.

#### Model Number

The Danfoss model number is used by the factory in manufacturing. On repeat orders, a complete unit can be ordered by the model number.

#### Serial Number

The Danfoss serial number is used to identify the manufacture date and the unit sequence in the build. The serial number is also used to identify the units warranty time period.

The letter code indicates the location of original manufacture (assembly).

The first number (2 digits) indicates the year of manufacture. The second number (2 digits) indicates the calendar week of manufacture.

The third number (5 digits) is a sequential number used to identify a specific unit.

*Nameplate example*



## General information

### Date code

The date code is defined as the year and week of manufacture. The same item number may list more than one part number. This indicates that there is more than one configuration for that item number. You will see that there are different date codes for the different part numbers. Find the date code of your unit from the nameplate to determine which service part number you need to order.

*Example: The service part desired is item G30*

| Order Code | Item | Date Begin | Date End | Part Number | Part Name                    | Qty. per Model/Kit |
|------------|------|------------|----------|-------------|------------------------------|--------------------|
| 80         | G30  | 89-17      |          | 8000243     | End cap gasket               | 1                  |
|            | G30  |            | 89-16    | 8000151     | End cap gasket (SB-1995-006) | 1                  |

All units using this order code with a date code prior to 89-17 must use part number "8000151." All units with a date code of 89-17 and newer must use part number "8000243."

### About service bulletins

A Service Bulletin Number (SB-\_\_\_\_-\_\_\_\_) may follow the "Part Name" of the part you desire. You must read that Service Bulletin prior to ordering that part. The information contained in these Service Bulletins, as of the print date of this bulletin, are included at the end of this manual. Service Bulletins contain more detailed information such as interchangeability, what additional parts are involved, etc. It is suggested that you add additional Service Bulletins to this manual as you receive them.

## General information

### Procedure to identify a part

The modular design of this product results in a simplified service parts list and part number identification procedure.

The same item numbers are used for same part names on all units within a product type. A part number that has another number following it in parentheses is done to make this a world wide manual.

### Regional part numbers

Some part numbers are region specific and should be ordered accordingly.

As an example, the part number (example: 314583 (9008000-0118)) will be used. The first number is sold in Germany. The number in parentheses is sold in the United States. Customers would order 9008000-0118 if ordering the part in the United States.

### Example of a part identification (H1P 250)

The nameplate on an H1 pump has an Order Code of H1P250 R A A A3 C1 N D8 C F8 E2 L 42 L 42 W P 24 PN NNN NNN. Use the following procedures to determine the part number of the drive shaft used on this pump.

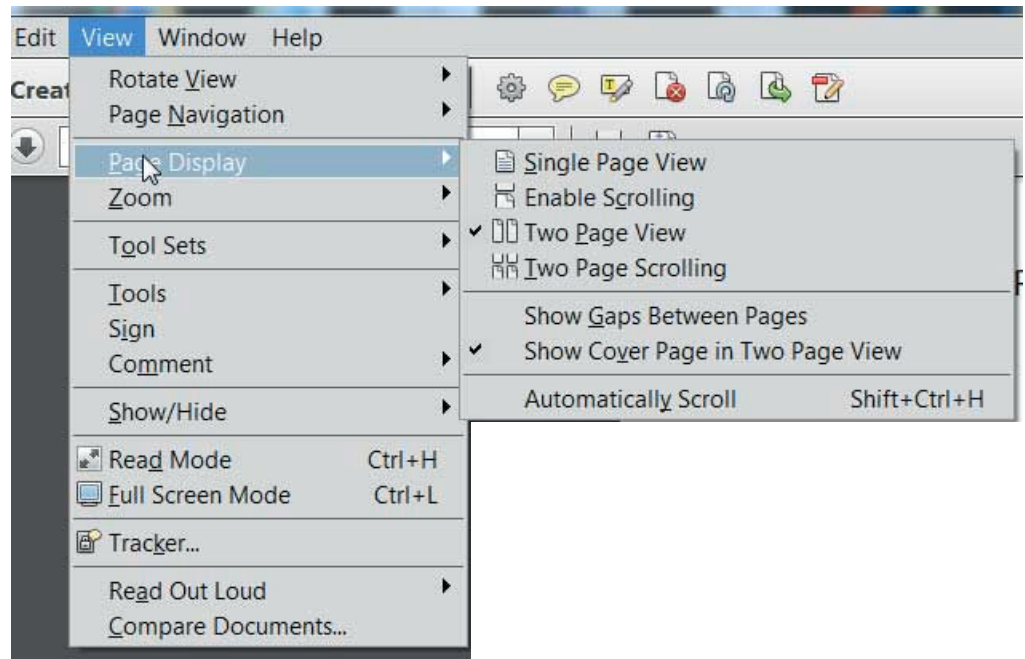
1. Referring to the input shaft module in the [Order code](#) on page 9, the input shaft option for this pump is identified by the code "F8". (H1P250 R A A A3 C1 N D8 C F8 E2 L 42 L 42 W P 24 PN NNN NNN).
2. Referring to the Service Parts List, find the shaft group. Next find the order code that relates to this unit, which is "F8". The shaft is found to be item J100 and part number 11088222.

## General information

### Adobe Acrobat 2-page viewing

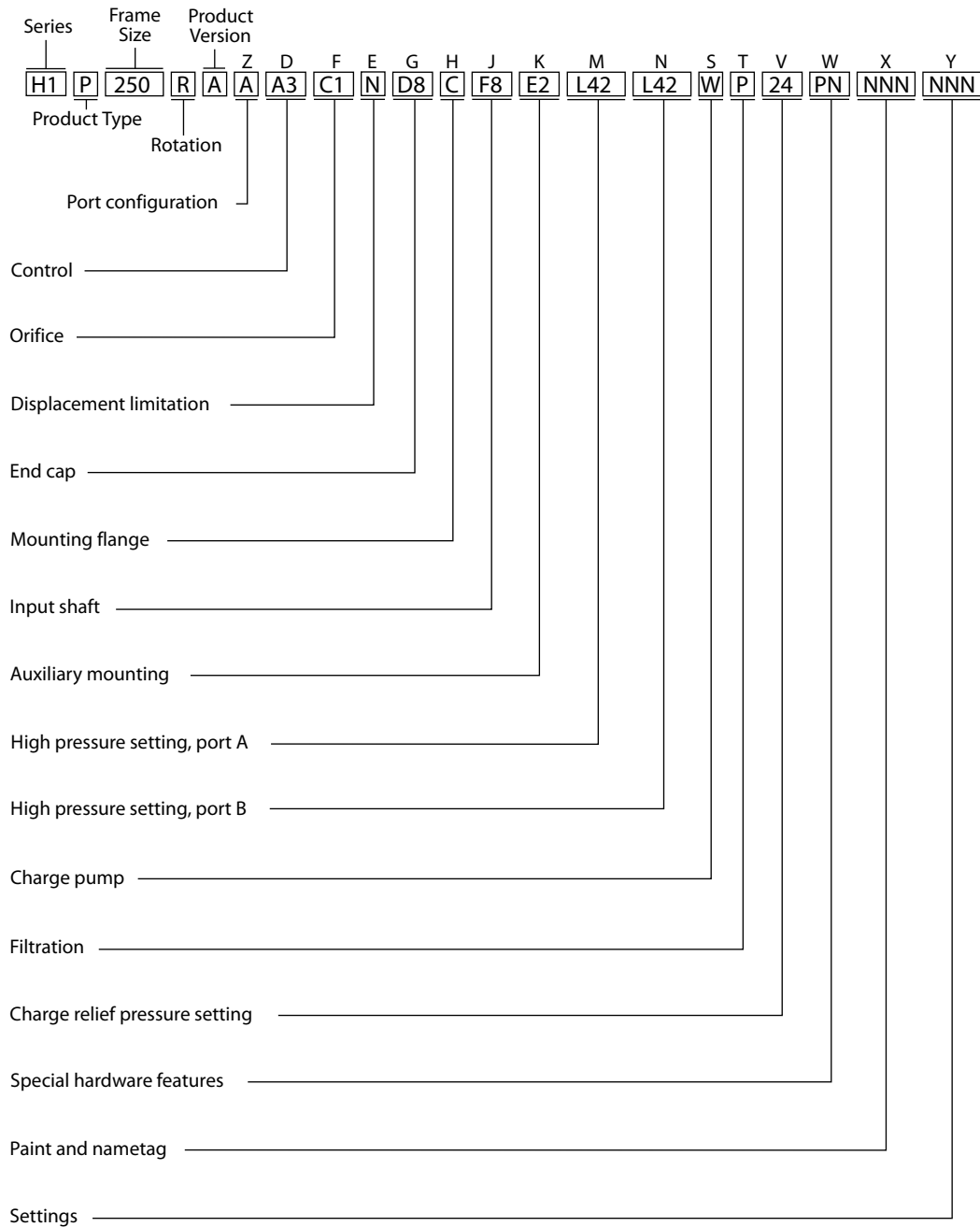
While viewing manual in Adobe Acrobat, the following settings need to be applied to ensure proper page display.

1. Select "View" → "Page Display" → "Two Page View"
2. Select "View" → "Page Display" → "Show Cover Page in Two Page View"



## General information

### Order code

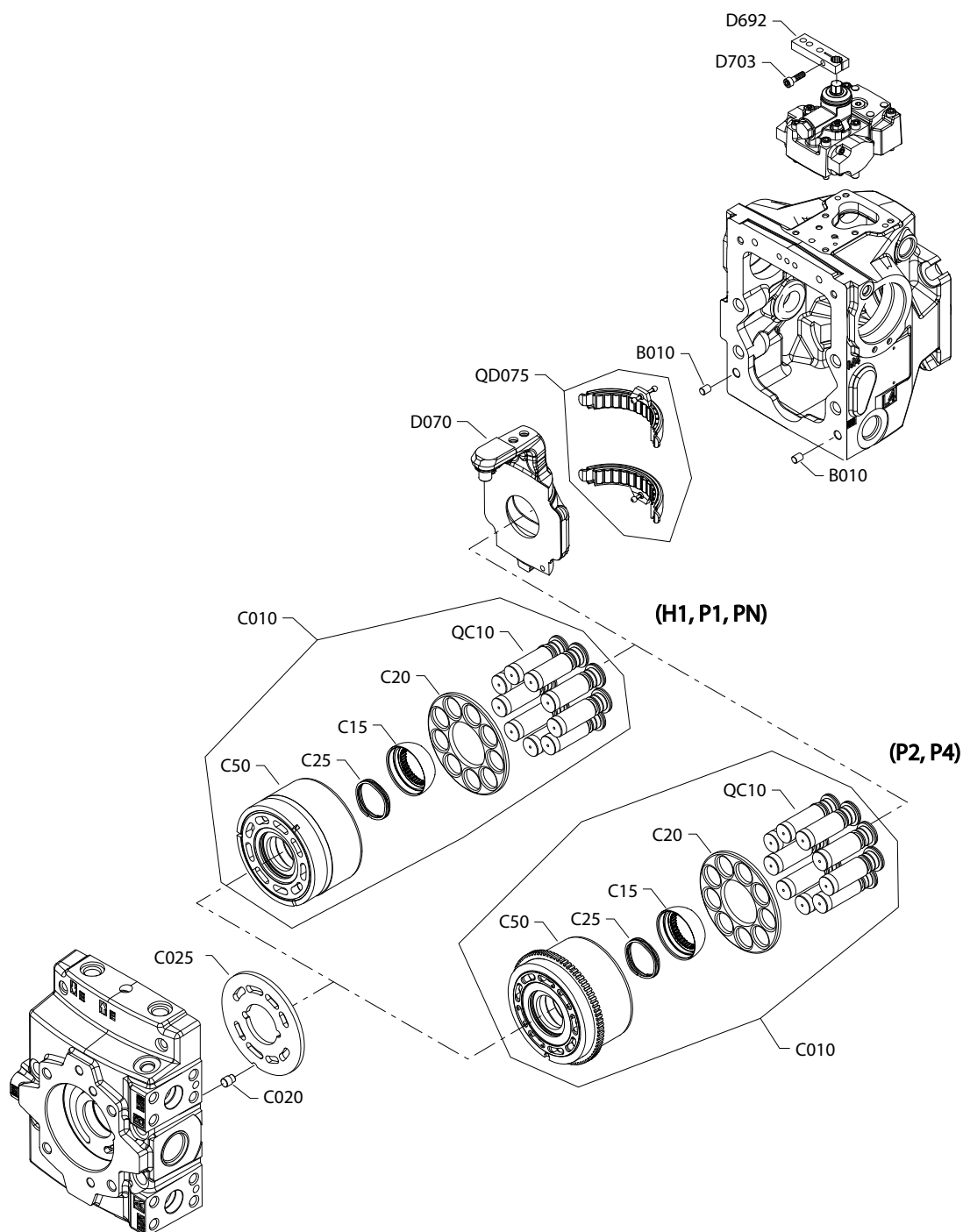


P108 825E

## Common parts and special hardware

### H1P 210/250cc special hardware H1, P1, P2

#### Parts configuration



Generic control and housing used to show port location only.

## Common parts and special hardware

### Common parts list

| Item  | Date Begin | Date End | Part Number  | Part Name                                                              | Qty. per Model/Kit |
|-------|------------|----------|--------------|------------------------------------------------------------------------|--------------------|
| B010  | 14-01      |          | 9004800-3708 | Dowel pin                                                              | 2                  |
| C020  | 14-01      |          | 141128       | Valve plate pin, CCW                                                   | 1                  |
| C020  | 14-01      |          | 141126       | Valve plate pin, CW                                                    | 1                  |
| C15   | 17-47      |          | 11148928     | Slipper retainer ball guide ( <a href="#">SB-2018-008</a> on page 135) | 1                  |
| C20   | 14-01      |          | 11027714     | Slipper retainer, 210cc                                                | 1                  |
| C20   | 14-01      |          | 11027716     | Slipper retainer, 250cc                                                | 1                  |
| C25   | 14-01      |          | 11032034     | Spring washer                                                          | 1                  |
| D070  | 14-01      |          | 11031983     | Swashplate                                                             | 1                  |
| QC10  | 14-01      |          | 11070646     | Slipper/piston kit, 210 cc                                             | 1                  |
| QC10  | 14-01      |          | 11070648     | Slipper/piston kit, 250 cc                                             | 1                  |
| QD075 | 14-01      |          | 11070642     | Swashplate bearing kit                                                 | 1                  |

### Order code: H1

|      |       |  |          |                                                                      |   |
|------|-------|--|----------|----------------------------------------------------------------------|---|
| C010 | 17-47 |  | 11190007 | Cylinder block kit, 210cc ( <a href="#">SB-2018-008</a> on page 135) | 1 |
| C010 | 17-47 |  | 11190008 | Cylinder block kit, 250cc ( <a href="#">SB-2018-008</a> on page 135) | 1 |
| C025 | 14-01 |  | 11083068 | Valve plate, CCW                                                     | 1 |
| C025 | 14-01 |  | 11083069 | Valve plate, CW                                                      | 1 |
| C50  | 14-01 |  | 11124498 | Cylinder block assembly, 210 cc                                      | 1 |
| C50  | 14-01 |  | 11124500 | Cylinder block assembly, 250 cc                                      | 1 |
| D692 | 14-01 |  | 11185938 | Control handle                                                       | 1 |
| D703 | 14-01 |  | 11173701 | Screw, M6 x 20                                                       | 1 |

### Order code: P1

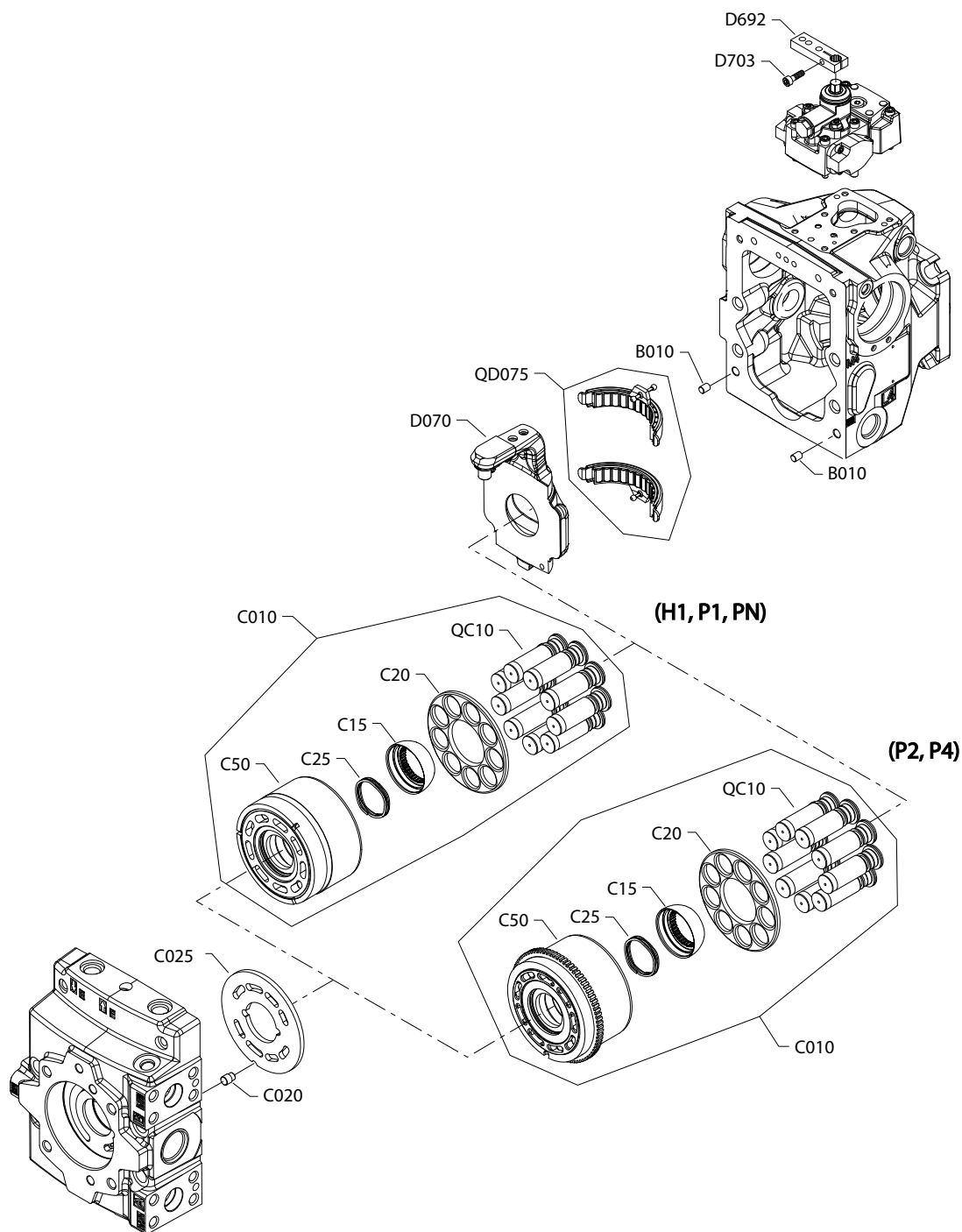
|      |       |  |          |                                                                      |   |
|------|-------|--|----------|----------------------------------------------------------------------|---|
| C010 | 17-47 |  | 11190007 | Cylinder block kit, 210cc ( <a href="#">SB-2018-008</a> on page 135) | 1 |
| C010 | 17-47 |  | 11190008 | Cylinder block kit, 250cc ( <a href="#">SB-2018-008</a> on page 135) | 1 |
| C025 | 15-14 |  | 11083057 | Valve plate, CCW                                                     | 1 |
| C025 | 15-14 |  | 11083065 | Valve plate, CW                                                      | 1 |
| C50  | 15-14 |  | 11124498 | Cylinder block assembly, 210 cc                                      | 1 |
| C50  | 15-14 |  | 11124500 | Cylinder block assembly, 250 cc                                      | 1 |

### Order code: P2

|      |       |  |          |                                                                                    |   |
|------|-------|--|----------|------------------------------------------------------------------------------------|---|
| C010 | 17-47 |  | 11191009 | Cylinder block kit w/speed ring, 210 cc ( <a href="#">SB-2018-008</a> on page 135) | 1 |
| C010 | 17-47 |  | 11191010 | Cylinder block kit w/speed ring, 250cc ( <a href="#">SB-2018-008</a> on page 135)  | 1 |
| C025 | 14-01 |  | 11083057 | Valve plate, CCW                                                                   | 1 |
| C025 | 14-01 |  | 11083065 | Valve plate, CCW                                                                   | 1 |
| C50  | 14-01 |  | 11124499 | Cylinder block w/speed ring assembly, 210 cc                                       | 1 |
| C50  | 14-01 |  | 11124501 | Cylinder block w/speed ring assembly, 250 cc                                       | 1 |

## Common parts and special hardware

### H1P 210/250cc special hardware P4, PN



Generic control and housing used to show port location only.



## Common parts and special hardware

### Common parts list

| Item  | Date Begin | Date End | Part Number  | Part Name                                                              | Qty. per Model/Kit |
|-------|------------|----------|--------------|------------------------------------------------------------------------|--------------------|
| B010  | 14-01      |          | 9004800-3708 | Dowel pin                                                              | 2                  |
| C020  | 14-01      |          | 141128       | Valve plate pin, CCW                                                   | 1                  |
| C020  | 14-01      |          | 141126       | Valve plate pin, CW                                                    | 1                  |
| C15   | 17-47      |          | 11148928     | Slipper retainer ball guide ( <a href="#">SB-2018-008</a> on page 135) | 1                  |
| C20   | 14-01      |          | 11027714     | Slipper retainer, 210cc                                                | 1                  |
| C20   | 14-01      |          | 11027716     | Slipper retainer, 250cc                                                | 1                  |
| C25   | 14-01      |          | 11032034     | Spring washer                                                          | 1                  |
| D070  | 14-01      |          | 11031983     | Swashplate                                                             | 1                  |
| QC10  | 14-01      |          | 11070646     | Slipper/piston kit, 210 cc                                             | 1                  |
| QC10  | 14-01      |          | 11070648     | Slipper/piston kit, 250 cc                                             | 1                  |
| QD075 | 14-01      |          | 11070642     | Swashplate bearing kit                                                 | 1                  |

### Special hardware parts list

#### Order code: P4

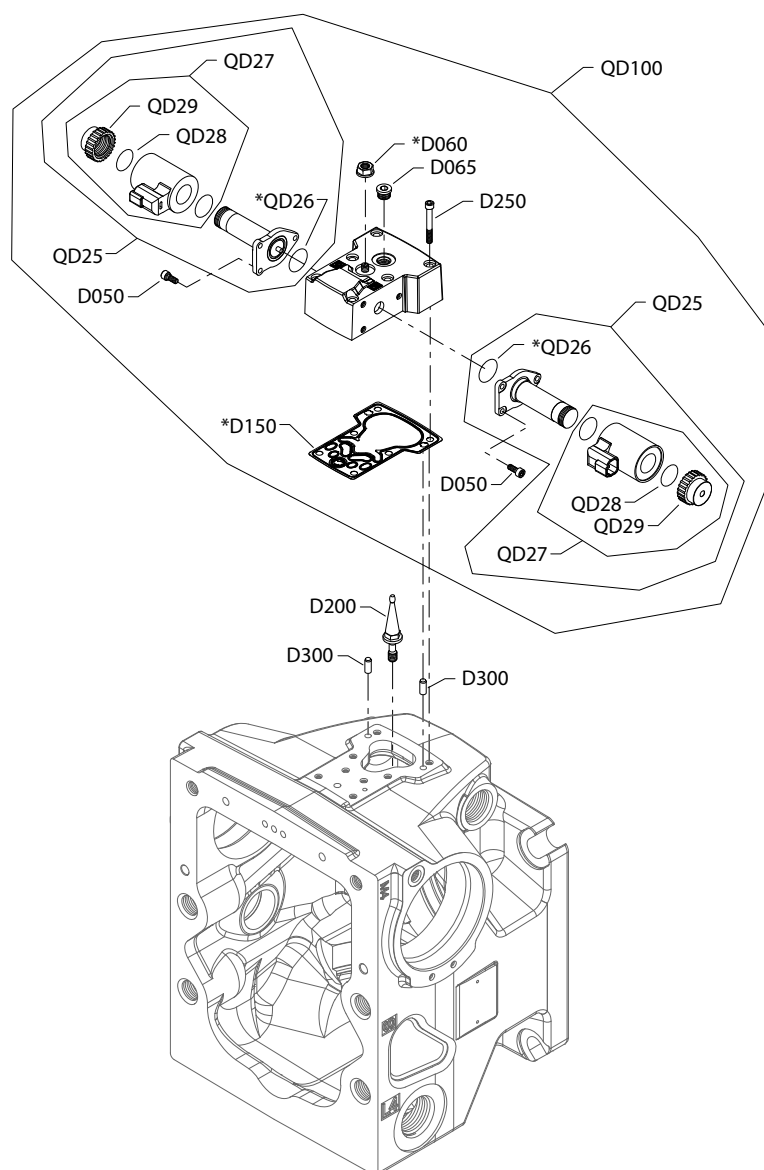
|      |       |  |          |                                                                                   |   |
|------|-------|--|----------|-----------------------------------------------------------------------------------|---|
| C010 | 17-47 |  | 11191009 | Cylinder block kit w/speed ring, 210cc ( <a href="#">SB-2018-008</a> on page 135) | 1 |
| C010 | 17-47 |  | 11191010 | Cylinder block kit w/speed ring, 250cc ( <a href="#">SB-2018-008</a> on page 135) | 1 |
| C025 | 14-01 |  | 11083068 | Valve plate, CCW                                                                  | 1 |
| C025 | 14-01 |  | 11083069 | Valve plate, CW                                                                   | 1 |
| C50  | 14-01 |  | 11124499 | Cylinder block assembly, speed ring, 210 cc                                       | 1 |
| C50  | 14-01 |  | 11124501 | Cylinder block assembly, speed ring, 250 cc                                       | 1 |

#### Order code: PN

|      |       |  |          |                                                                      |   |
|------|-------|--|----------|----------------------------------------------------------------------|---|
| C010 | 17-47 |  | 11191009 | Cylinder block kit, 210cc ( <a href="#">SB-2018-008</a> on page 135) | 1 |
| C010 | 17-47 |  | 11027687 | Cylinder block kit, 250cc ( <a href="#">SB-2018-008</a> on page 135) | 1 |
| C025 | 14-01 |  | 11083068 | Valve plate, CCW                                                     | 1 |
| C025 | 14-01 |  | 11083069 | Valve plate, CW                                                      | 1 |
| C50  | 14-01 |  | 11124498 | Cylinder block assembly, 210 cc                                      | 1 |
| C50  | 14-01 |  | 11124500 | Cylinder block assembly, 250 cc                                      | 1 |

## Controls

### H1P control A2, A3



E100 912E

Generic housing shown.

\* Included in overhaul seal kit Q210

## Controls

### Common parts

| Item | Date Begin | Date End | Part Number           | Part Name                                                            | Qty. per Model/Kit |
|------|------------|----------|-----------------------|----------------------------------------------------------------------|--------------------|
| D050 | 14-01      |          | 716860                | Screw, M5 x 12                                                       | 6                  |
| D060 | 14-01      |          | 612291 (9003508-0008) | Seal nut, M8                                                         | 1                  |
| D065 | 14-01      |          | 327007                | Plug assembly (SAE)                                                  | 1                  |
| D150 | 14-01      |          | 11227209              | Control gasket ( <a href="#">SB-2016-033</a> on page 133)            | 1                  |
| D200 | 14-01      |          | 11202172              | Swash plate feedback link ( <a href="#">SB-2018-025</a> on page 137) | 1                  |
| D250 | 14-01      |          | 505038                | Screw, M6 x 45                                                       | 6                  |
| D300 | 14-01      |          | 310979                | Dowel pin                                                            | 2                  |
| QD26 | 14-01      |          | 11001952              | O-ring                                                               | 2                  |
| QD28 | 14-01      |          | 063172                | O-ring                                                               | 2                  |

### Order code: A2

|       |       |  |          |                                       |   |
|-------|-------|--|----------|---------------------------------------|---|
| QD25  | 14-01 |  | 11012457 | Proportional solenoid, 12v            | 2 |
| QD27  | 14-01 |  | 11028018 | Coil kit, 12v, DEUTSCH connector      | 2 |
| QD29  | 14-01 |  | 11027046 | Coil nut                              | 2 |
| QD100 | 14-01 |  | 11019680 | EDC kit, 12v, DEUTSCH connector, fast | 1 |

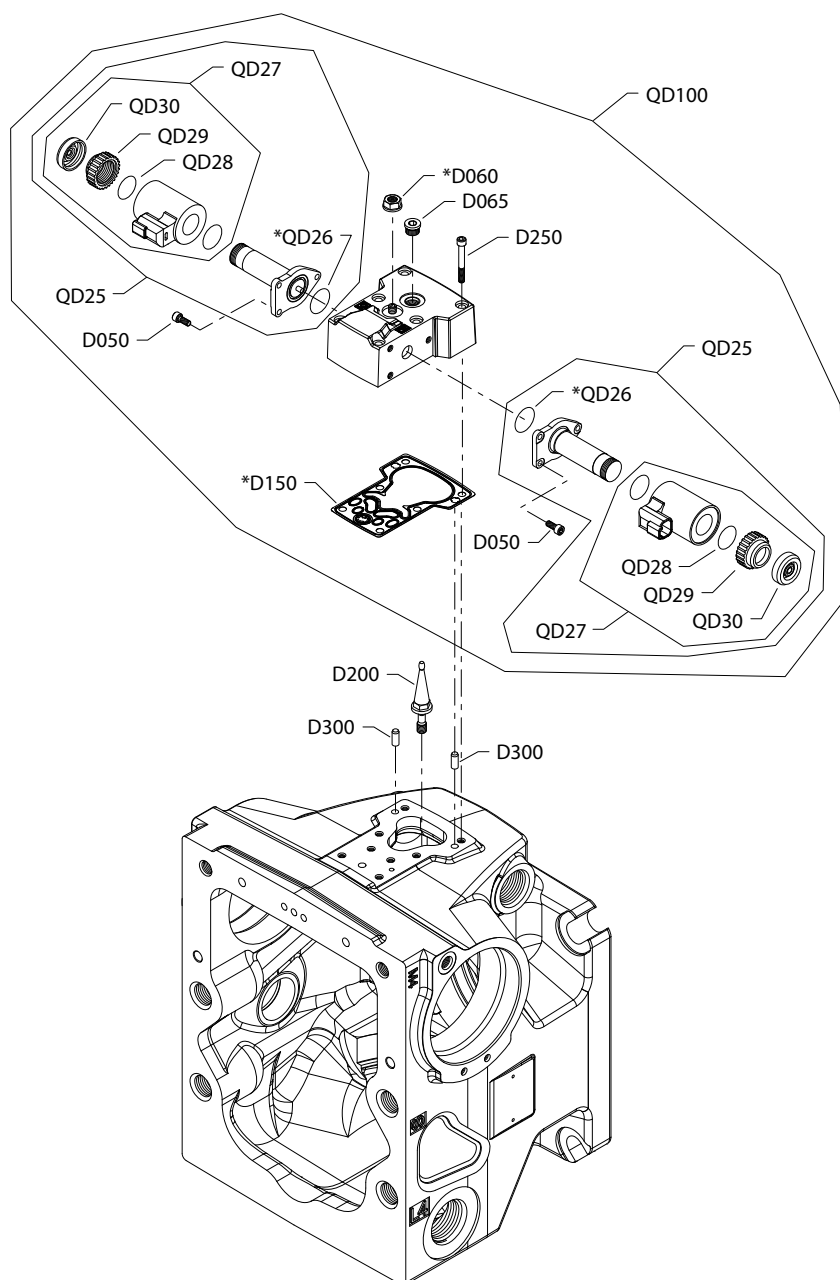
### Order code: A3

|       |       |  |          |                                       |   |
|-------|-------|--|----------|---------------------------------------|---|
| QD25  | 14-01 |  | 11012459 | Proportional solenoid, 24v            | 2 |
| QD27  | 14-01 |  | 11028019 | Coil kit, 24v, DEUTSCH connector      | 2 |
| QD29  | 14-01 |  | 11028024 | Coil nut                              | 2 |
| QD100 | 14-01 |  | 11019681 | EDC kit, 24v, DEUTSCH connector, fast | 1 |

## Controls

### H1P control A4, A5

A4 and A5 configuration



Generic housing shown.

\* Included in overhaul seal kit Q210

## Controls

### Common parts

| Item | Date Begin | Date End | Part Number           | Part Name                                                            | Qty. per Model/Kit |
|------|------------|----------|-----------------------|----------------------------------------------------------------------|--------------------|
| D050 | 14-01      |          | 716860                | Screw, M5 x 12                                                       | 6                  |
| D060 | 14-01      |          | 612291 (9003508-0008) | Seal nut, M8                                                         | 1                  |
| D065 | 14-01      |          | 327007                | Plug assembly                                                        | 1                  |
| D150 | 14-01      |          | 11227209              | Control gasket ( <a href="#">SB-2016-033</a> on page 133)            | 1                  |
| D200 | 14-01      |          | 11202172              | Swash plate feedback link ( <a href="#">SB-2018-025</a> on page 137) | 1                  |
| D250 | 14-01      |          | 505038                | Screw, M6 x 45                                                       | 6                  |
| D300 | 14-01      |          | 310979                | Dowel pin                                                            | 2                  |
| QD26 | 14-01      |          | 11001952              | O-ring                                                               | 2                  |
| QD28 | 14-01      |          | 063172                | O-ring                                                               | 2                  |
| QD30 | 14-01      |          | 11027883              | Cap                                                                  | 2                  |

### Order code: A4

|       |       |  |          |                                                        |   |
|-------|-------|--|----------|--------------------------------------------------------|---|
| QD25  | 14-01 |  | 140750   | Proportional solenoid, 12v                             | 2 |
| QD27  | 14-01 |  | 11004698 | Coil kit, 12v, DEUTSCH connector                       | 2 |
| QD29  | 14-01 |  | 11004749 | Coil nut                                               | 2 |
| QD100 | 14-01 |  | 11019732 | EDC kit, 12v, DEUTSCH connector, fast, manual override | 1 |

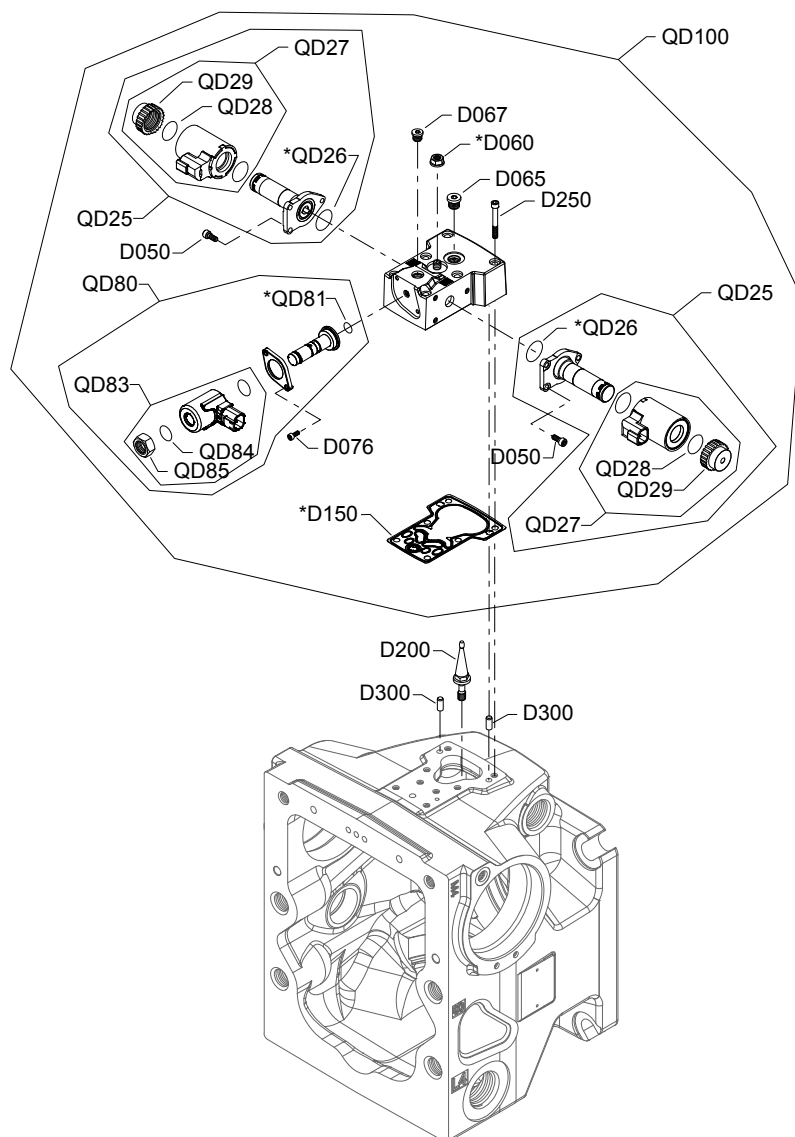
### Order code: A5

|       |       |  |          |                                                        |   |
|-------|-------|--|----------|--------------------------------------------------------|---|
| QD25  | 14-01 |  | 140751   | Proportional solenoid, 24v                             | 2 |
| QD27  | 14-01 |  | 11004700 | Coil kit, 24v, DEUTSCH connector                       | 2 |
| QD29  | 14-01 |  | 11004750 | Coil nut                                               | 2 |
| QD100 | 14-01 |  | 11019733 | EDC kit, 24v, DEUTSCH connector, fast, manual override | 1 |

## Controls

### H1P control E6, E7

*E6 and E7 configuration*



Generic housing shown.

Option E7 is available in SAE and metric. Please order accordingly.

\* Included in overhaul seal kit Q210

## Controls

### Common parts

| Item | Date Begin | Date End | Part Number           | Part Name                                                            | Qty. per Model/Kit |
|------|------------|----------|-----------------------|----------------------------------------------------------------------|--------------------|
| D050 | 14-01      |          | 716860                | Screw, M5 x 12                                                       | 6                  |
| D060 | 14-01      |          | 612291 (9003508-0008) | Seal nut, M8                                                         | 1                  |
| D065 | 14-01      |          | 327007                | Plug assembly (SAE)                                                  | 1                  |
| D067 | 14-01      |          | 327007                | Plug assembly (SAE)                                                  | 1                  |
| D076 | 14-01      |          | 067694                | Screw, M4 x 10                                                       | 2                  |
| D150 | 14-01      |          | 11227209              | Control gasket ( <a href="#">SB-2016-033</a> on page 133)            | 1                  |
| D200 | 14-01      |          | 11202172              | Swash plate feedback link ( <a href="#">SB-2018-025</a> on page 137) | 1                  |
| D250 | 14-01      |          | 505038                | Screw, M6 x 45                                                       | 6                  |
| D300 | 14-01      |          | 310979                | Dowel pin                                                            | 2                  |
| QD26 | 14-01      |          | 11001952              | O-ring                                                               | 2                  |
| QD28 | 14-01      |          | 063172                | O-ring                                                               | 2                  |
| QD81 | 14-01      |          | 11152257              | O-ring                                                               | 1                  |
| QD85 | 14-01      |          | 11140394              | Coil nut                                                             | 1                  |

### Order code: E6

|       |       |  |          |                                  |   |
|-------|-------|--|----------|----------------------------------|---|
| QD25  | 14-01 |  | 11012459 | Proportional solenoid, 12v       | 2 |
| QD27  | 14-01 |  | 11028019 | Coil kit, 24v, DEUTSCH connector | 2 |
| QD29  | 14-01 |  | 11028024 | Coil nut                         | 2 |
| QD80  | 14-01 |  | 11231201 | Solenoid valve, on/off, 24v      | 1 |
| QD83  | 14-01 |  | 11232697 | Coil kit, 24v                    | 1 |
| QD84  | 14-01 |  | 11232752 | O-ring                           | 1 |
| QD100 | 14-01 |  | 11147423 | EDC kit, 24v, CCO                | 1 |

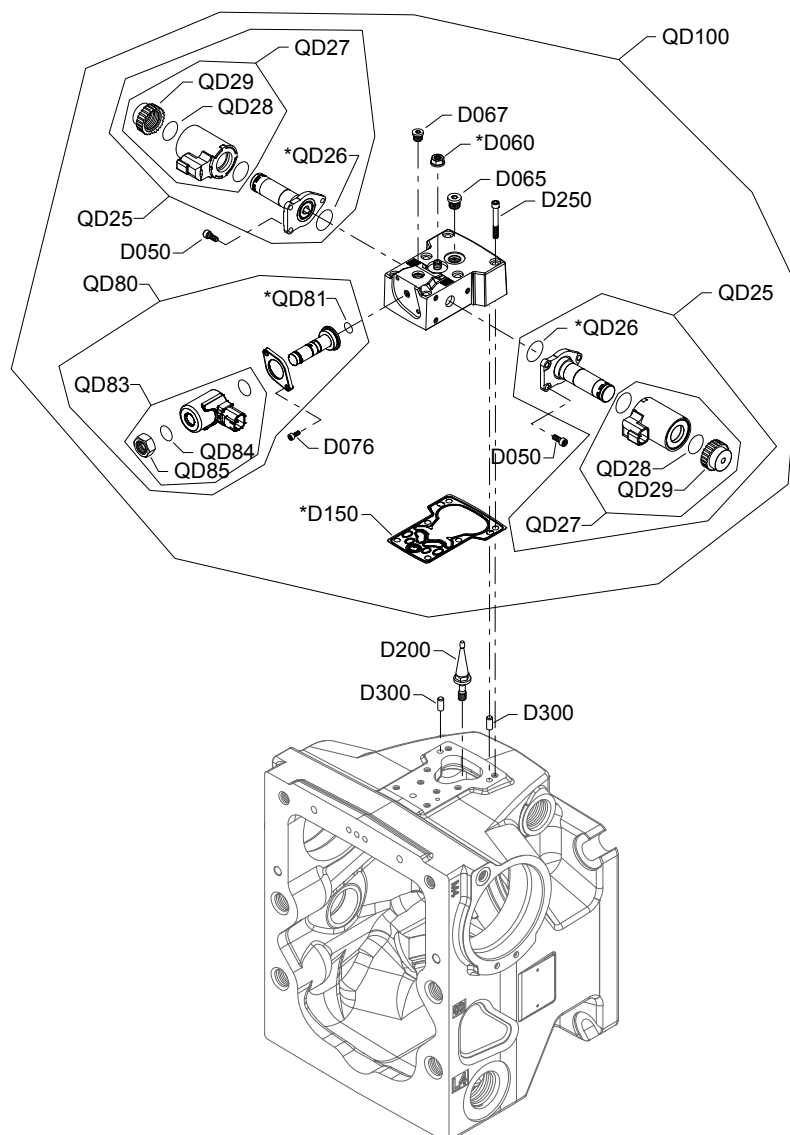
### Order code: E7

|       |       |  |          |                                   |   |
|-------|-------|--|----------|-----------------------------------|---|
| D065  | 16-09 |  | 5000572  | Plug assembly (metric)            | 1 |
| D067  | 16-09 |  | 5000572  | Plug assembly, (metric)           | 1 |
| QD25  | 14-01 |  | 11012457 | Proportional solenoid, 12v        | 2 |
| QD27  | 14-01 |  | 11028018 | Coil kit, 124v, DEUTSCH connector | 2 |
| QD29  | 14-01 |  | 11027046 | Coil nut                          | 2 |
| QD80  | 14-01 |  | 11129914 | Solenoid valve, on/off, 12v       | 1 |
| QD83  | 14-01 |  | 11147301 | Coil kit, 12v                     | 1 |
| QD84  | 14-01 |  | 11140393 | O-ring                            | 1 |
| QD100 | 14-01 |  | 11147471 | EDC kit, 12v, CCO (SAE)           | 1 |
| QD100 | 16-09 |  | 11164610 | EDC kit, 12v, CCO (metric)        | 1 |

## Controls

### H1P control E8

#### Parts configuration



Generic housing shown.

\* Included in overhaul seal kit Q210



## Controls

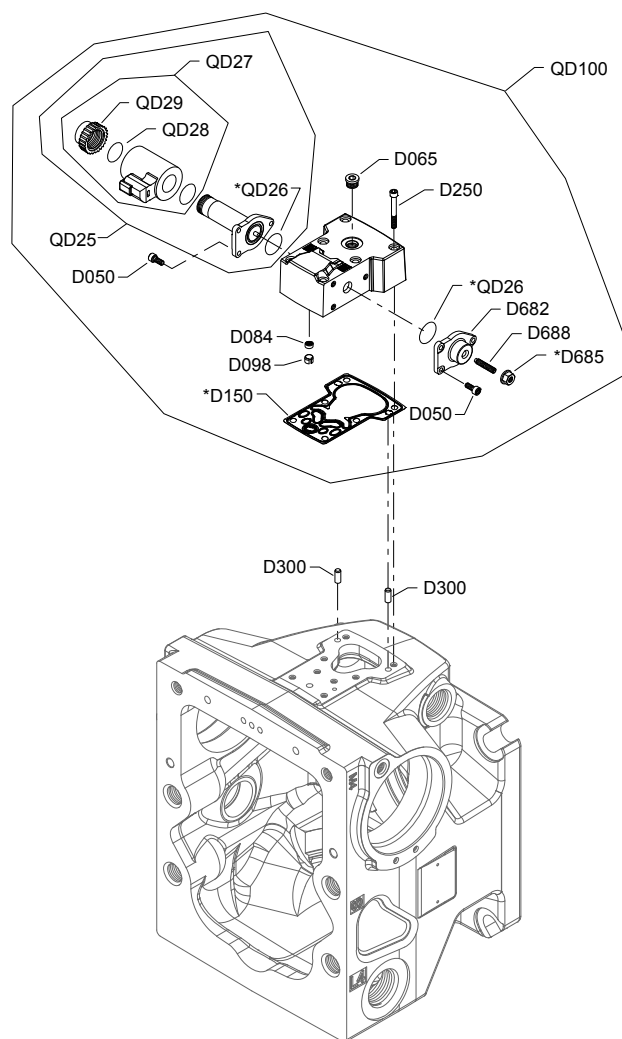
Order code: E8

| Item  | Date Begin | Date End | Part Number           | Part Name                                                           | Qty. per Model/Kit |
|-------|------------|----------|-----------------------|---------------------------------------------------------------------|--------------------|
| D050  | 14-01      |          | 716860                | Screw, M5 x 12                                                      | 6                  |
| D060  | 14-01      |          | 612291 (9003508-0008) | Seal nut, M8                                                        | 1                  |
| D065  | 14-01      |          | 327007                | Plug assembly                                                       | 1                  |
| D067  | 14-01      |          | 327007                | Plug assembly                                                       | 1                  |
| D076  | 14-01      |          | 067694                | Screw, M4 x 10                                                      | 2                  |
| D150  | 14-01      |          | 11227209              | Control gasket ( <a href="#">SB-2016-033</a> on page 133)           | 1                  |
| D200  | 14-01      |          | 11202172              | Swashplate feedback link ( <a href="#">SB-2018-025</a> on page 137) | 1                  |
| D250  | 14-01      |          | 505038                | Screw, M6 x 45                                                      | 6                  |
| D300  | 14-01      |          | 310979                | Dowel pin                                                           | 2                  |
| QD25  | 14-01      |          | 11012459              | Proportional solenoid, 24v                                          | 2                  |
| QD26  | 14-01      |          | 11001952              | O-ring                                                              | 2                  |
| QD27  | 14-01      |          | 11028019              | Coil kit, 24v, DEUTSCH connector                                    | 2                  |
| QD28  | 14-01      |          | 063172                | O-ring                                                              | 2                  |
| QD29  | 14-01      |          | 11028024              | Coil nut                                                            | 2                  |
| QD80  | 14-01      |          | 11129915              | Solenoid vale, on/off, 24v                                          | 1                  |
| QD81  | 14-01      |          | 11152257              | O-ring                                                              | 1                  |
| QD83  | 14-01      |          | 11147332              | Coil kit, 24v                                                       | 1                  |
| QD84  | 14-01      |          | 11140393              | O-ring                                                              | 1                  |
| QD85  | 14-01      |          | 11140394              | Coil nut                                                            | 1                  |
| QD100 | 14-01      |          | 11147472              | EDC kit, 24v, CCO                                                   | 1                  |

## Controls

### H1P control F1, F2

*F1 and F2 configuration*



Generic housing shown.

#### **Warning**

This control is for Fan Drive systems only. Use in other systems could result in unintended movement of machine or its elements. Loss of the input signal to this control will cause the pump to produce maximum flow. Contact Danfoss or an authorized distributor with questions regarding the use of this product.

\* Included in overhaul seal kit Q210

## Controls

### Common parts

| Item | Date Begin | Date End | Part Number           | Part Name                                                 | Qty. per Model/Kit |
|------|------------|----------|-----------------------|-----------------------------------------------------------|--------------------|
| D050 | 14-01      |          | 716860                | Screw, M5 x 12                                            | 6                  |
| D065 | 14-01      |          | 327007                | Plug assembly                                             | 1                  |
| D150 | 14-01      |          | 11227209              | Control gasket ( <a href="#">SB-2016-033</a> on page 133) | 1                  |
| D250 | 14-01      |          | 505038                | Screw, M6 x 45                                            | 6                  |
| D300 | 14-01      |          | 310979                | Dowel pin                                                 | 2                  |
| D682 | 14-01      |          | 11079441              | Flange                                                    | 1                  |
| D685 | 14-01      |          | 612291 (9003508-0008) | Seal nut, M8                                              | 1                  |
| D688 | 14-01      |          | 11079453              | Adjusting screw                                           | 1                  |
| QD26 | 14-01      |          | 11001952              | O-ring                                                    | 2                  |
| QD28 | 14-01      |          | 063172                | O-ring                                                    | 1                  |

### Order code: F1

|       |       |  |          |                                  |   |
|-------|-------|--|----------|----------------------------------|---|
| QD25  | 14-01 |  | 11012457 | Proportional solenoid, 12v       | 1 |
| QD27  | 14-01 |  | 11028018 | Coil kit, 12v, DEUTSCH connector | 1 |
| QD29  | 14-01 |  | 11027046 | Coil nut                         | 1 |
| QD100 | 14-01 |  | 11081306 | FDC kit, 12v, DEUTSCH connector  | 1 |

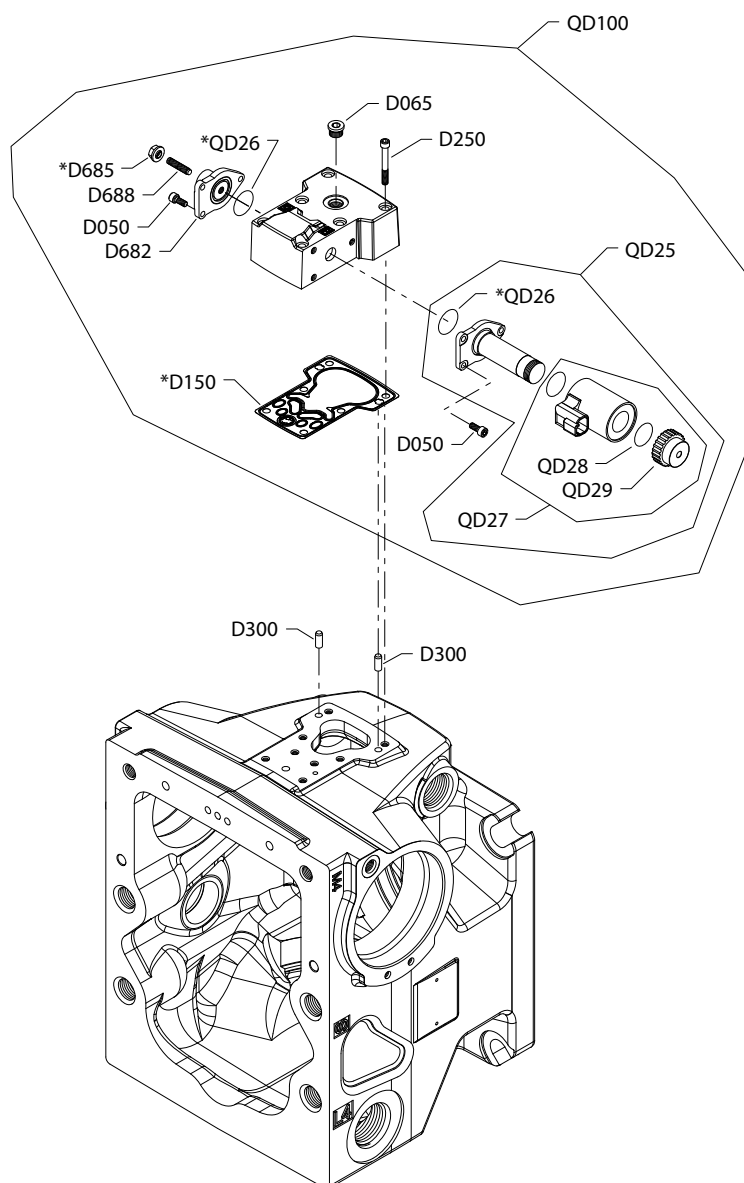
### Order code: F2

|       |       |  |          |                                  |   |
|-------|-------|--|----------|----------------------------------|---|
| QD25  | 14-01 |  | 11012459 | Proportional solenoid, 24v       | 1 |
| QD27  | 14-01 |  | 11028019 | Coil kit, 24v, DEUTSCH connector | 1 |
| QD29  | 14-01 |  | 11028024 | Coil nut                         | 1 |
| QD100 | 14-01 |  | 11081307 | FDC kit, 24v, DEUTSCH connector  | 1 |

## Controls

### H1P control F4

*F4 configuration*



Generic housing shown.

\* Included in overhaul seal kit

## Controls

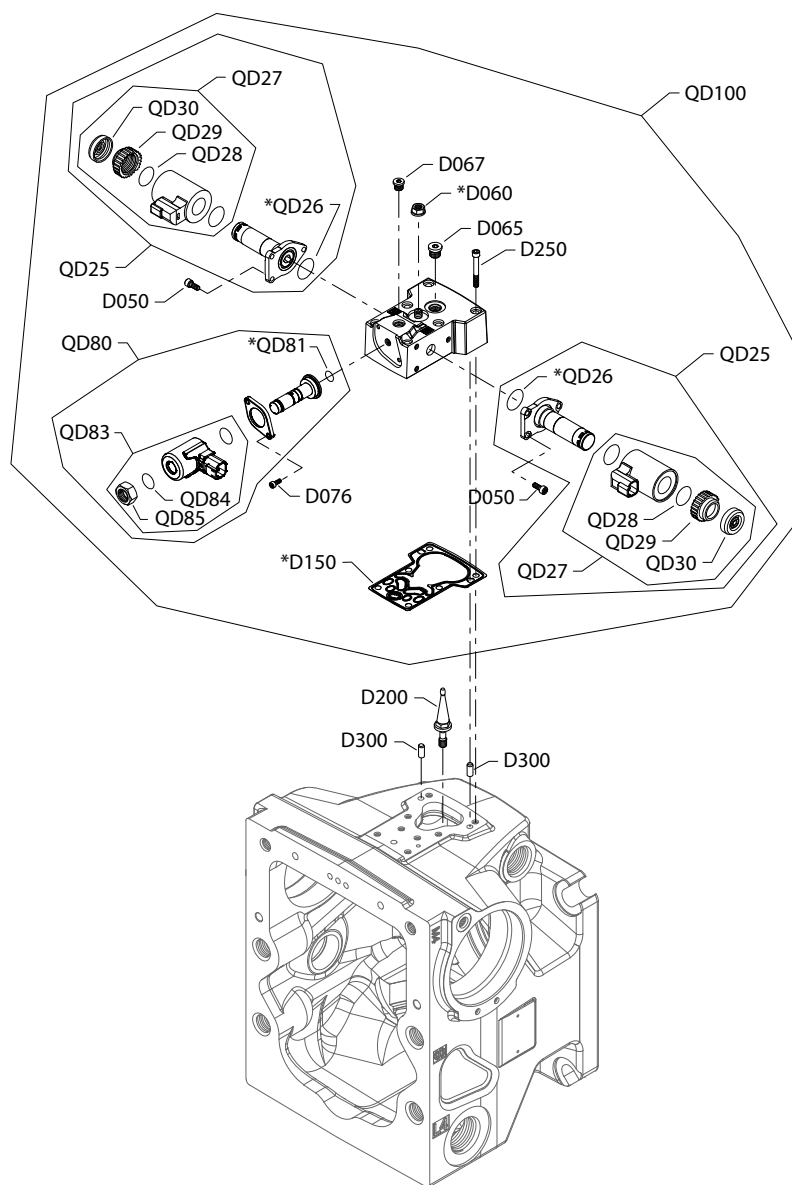
Order code: F4

| Item  | Date Begin | Date End | Part Number           | Part Name                                                 | Qty. per Model/Kit |
|-------|------------|----------|-----------------------|-----------------------------------------------------------|--------------------|
| D050  | 14-01      |          | 716860                | Screw, M5 x 12                                            | 6                  |
| D065  | 14-01      |          | 327007                | Plug assembly                                             | 1                  |
| D150  | 14-01      |          | 11227209              | Control gasket ( <a href="#">SB-2016-033</a> on page 133) | 1                  |
| D250  | 14-01      |          | 505038                | Screw, M6 x 45                                            | 6                  |
| D300  | 14-01      |          | 310979                | Dowel pin                                                 | 2                  |
| D682  | 14-01      |          | 11079441              | Flange                                                    | 1                  |
| D685  | 14-01      |          | 612291 (9003508-0008) | Seal nut, M8                                              | 1                  |
| D688  | 14-01      |          | 11079453              | Adjusting screw                                           | 1                  |
| QD25  | 14-01      |          | 11012459              | Proportional solenoid, 24v                                | 1                  |
| QD26  | 14-01      |          | 11001952              | O-ring                                                    | 2                  |
| QD27  | 14-01      |          | 11028019              | Coil kit, 24v, DEUTSCH connector                          | 1                  |
| QD28  | 14-01      |          | 063172                | O-ring                                                    | 1                  |
| QD29  | 14-01      |          | 11028024              | Coil nut                                                  | 1                  |
| QD100 | 14-01      |          | 11174982              | FDC kit, 24v, DEUTSCH connector                           | 1                  |

## Controls

### H1P control G8

G8 configuration



Generic housing shown.

\* Included in overhaul seal kit Q210

## Controls

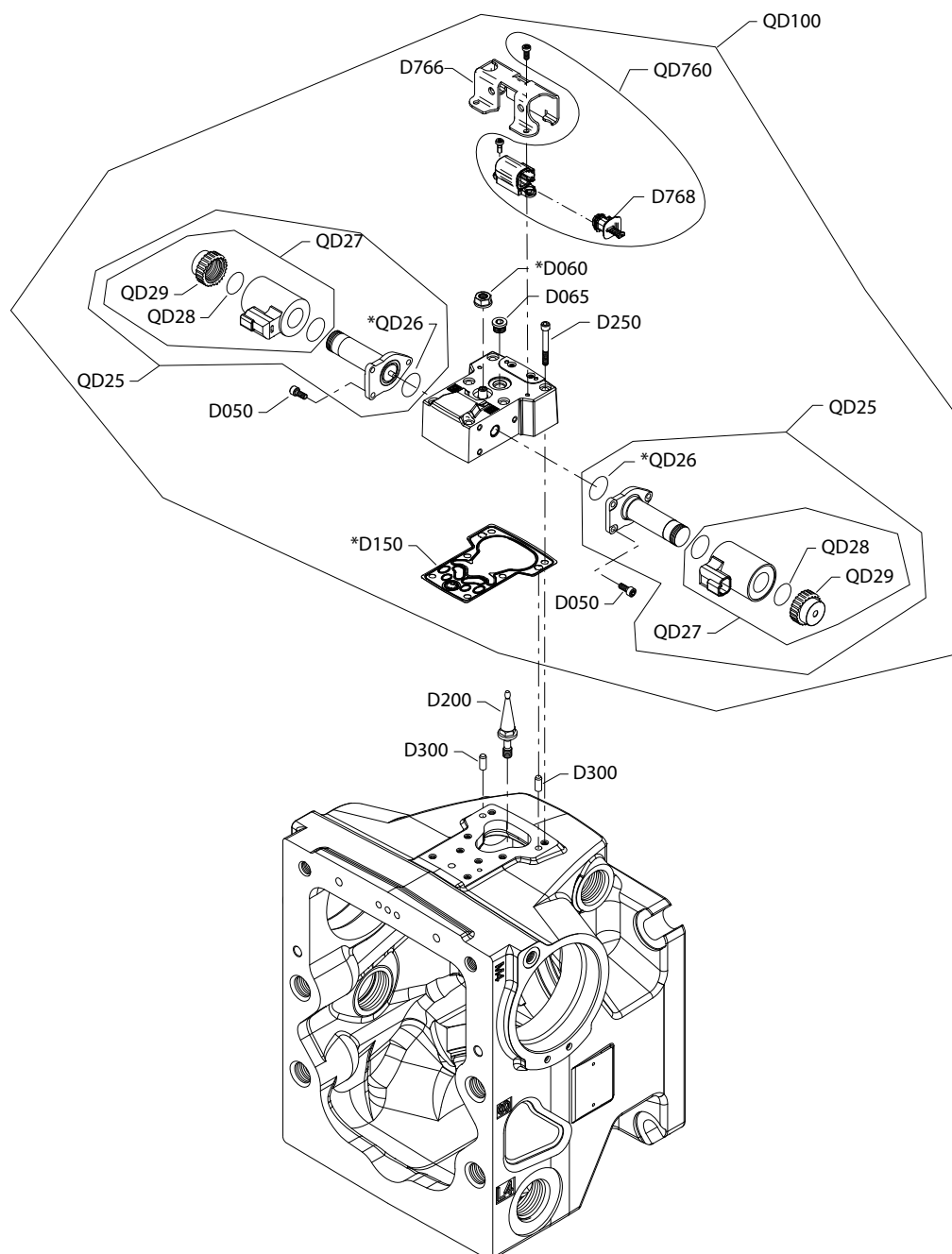
Order code: G8

| Item  | Date Begin | Date End | Part Number           | Part Name                                                            | Qty. per Model/Kit |
|-------|------------|----------|-----------------------|----------------------------------------------------------------------|--------------------|
| D050  | 14-01      |          | 716860                | Screw, M5 x 12                                                       | 6                  |
| D060  | 14-01      |          | 612291 (9003508-0008) | Seal nut, M8                                                         | 1                  |
| D065  | 14-01      |          | 327007                | Plug assembly                                                        | 1                  |
| D067  | 14-01      |          | 327007                | Plug assembly                                                        | 1                  |
| D076  | 14-01      |          | 067694                | Screw, M4 x 10                                                       | 2                  |
| D150  | 14-01      |          | 11227209              | Control gasket ( <a href="#">SB-2016-033</a> on page 133)            | 1                  |
| D200  | 14-01      |          | 11202172              | Swash plate feedback link ( <a href="#">SB-2018-025</a> on page 137) | 1                  |
| D250  | 14-01      |          | 505038                | Screw, M6 x 45                                                       | 6                  |
| D300  | 14-01      |          | 310979                | Dowel pin                                                            | 2                  |
| QD25  | 14-01      |          | 140750                | Proportional solenoid, 12v                                           | 2                  |
| QD26  | 14-01      |          | 11001952              | O-ring                                                               | 2                  |
| QD27  | 14-01      |          | 11004698              | Coil kit, 12v, DEUTSCH connector                                     | 2                  |
| QD28  | 14-01      |          | 063172                | O-ring                                                               | 2                  |
| QD29  | 14-01      |          | 11004749              | Coil nut                                                             | 2                  |
| QD30  | 14-01      |          | 11027883              | Cap                                                                  | 2                  |
| QD80  | 14-01      |          | 11129914              | Solenoid vale, on/off, 12v                                           | 1                  |
| QD81  | 14-01      |          | 11152257              | O-ring                                                               | 1                  |
| QD83  | 14-01      |          | 11147301              | Coil kit, 12v                                                        | 1                  |
| QD84  | 14-01      |          | 11140393              | O-ring                                                               | 1                  |
| QD85  | 14-01      |          | 11140394              | Coil nut                                                             | 1                  |
| QD100 | 14-01      |          | 11155365              | EDC kit, 12v, CCO, MOR                                               | 1                  |

## Controls

### H1P control H2, H3

#### Parts configuration



Generic housing shown

\* Included in overhaul seal kit Q210



## Controls

### Common parts

| Item  | Date Begin | Date End | Part Number | Part Name                | Qty. per Model/Kit |
|-------|------------|----------|-------------|--------------------------|--------------------|
| D050  | 18-11      |          | 716860      | Screw, M5 x 12           | 6                  |
| D060  | 18-11      |          | 612291      | Seal nut                 | 1                  |
| D065  | 18-11      |          | 327007      | Plug assembly            | 1                  |
| D150  | 18-11      |          | 11227209    | Control gasket           | 1                  |
| D200  | 18-11      |          | 11202172    | Swashplate feedback link | 1                  |
| D250  | 18-11      |          | 505038      | Screw, M6 x 45           | 6                  |
| D300  | 18-11      |          | 310979      | Dowel pin                | 2                  |
| D766  | 18-11      |          | 11187406    | Protection cover         | 1                  |
| D768  | 18-11      |          | 11184617    | Paint cover              | 1                  |
| QD26  | 18-11      |          | 11001952    | O-ring                   | 2                  |
| QD28  | 18-11      |          | 063172      | O-ring                   | 2                  |
| QD760 | 18-11      |          | 11201819    | EDC sensor service kit   | 1                  |

### Order code: H2

|       |       |  |          |                                  |   |
|-------|-------|--|----------|----------------------------------|---|
| QD100 | 18-11 |  | 11196619 | EDC kit, 12v, ASNSR              | 1 |
| QD25  | 18-11 |  | 11012457 | Proportional solenoid, 12v       | 2 |
| QD27  | 18-11 |  | 11028018 | Coil kit, 12V, DEUTSCH connector | 2 |
| QD29  | 18-11 |  | 11027046 | Nut                              | 2 |

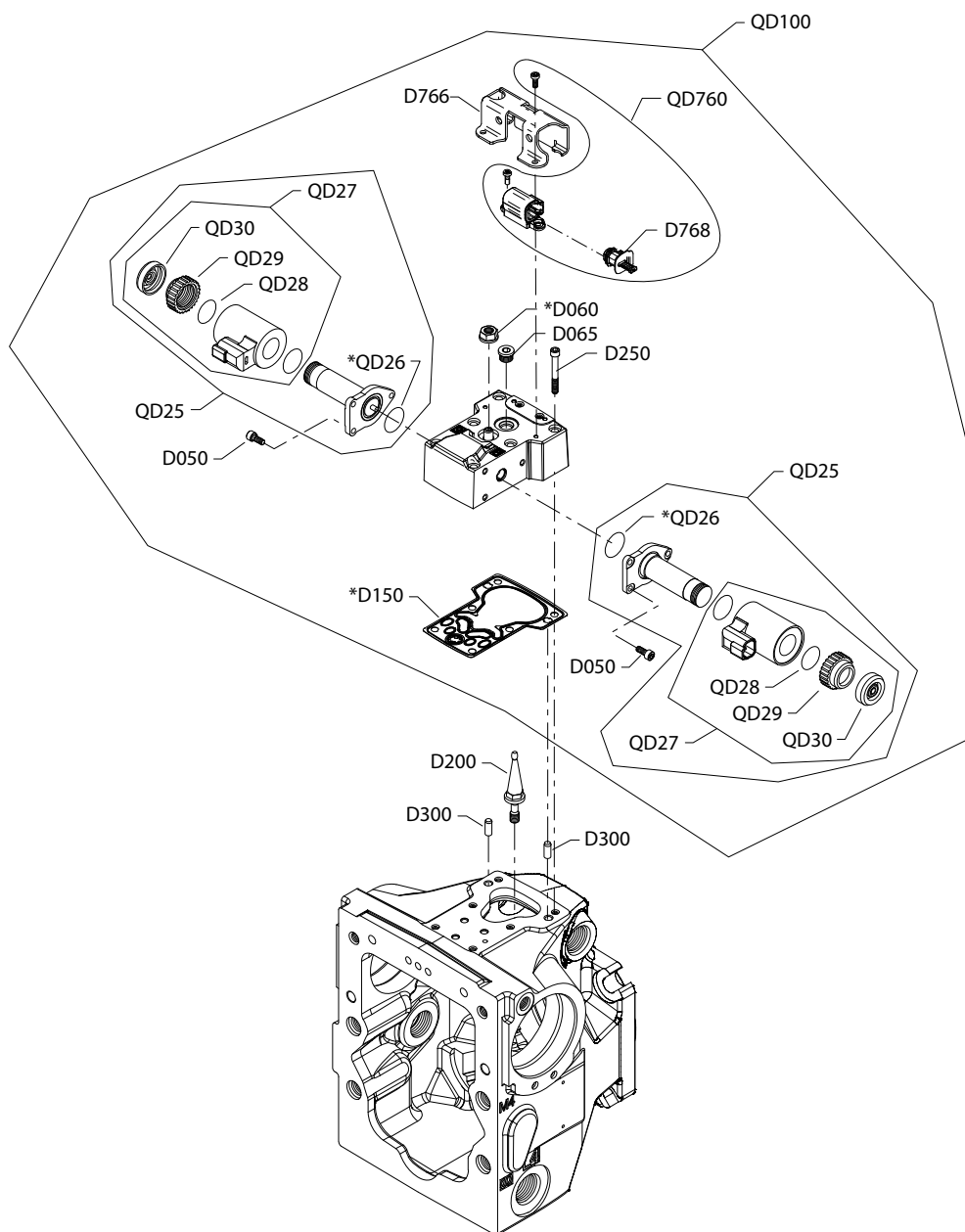
### Order code: H3

|       |       |  |          |                                 |   |
|-------|-------|--|----------|---------------------------------|---|
| QD100 | 18-11 |  | 11179280 | EDC kit, 24v, ASNSR             | 1 |
| QD25  | 18-11 |  | 11012459 | Proportional solenoid, 24v      | 2 |
| QD27  | 18-11 |  | 11028019 | Coil kit, 24v DEUTSCH connector | 2 |
| QD29  | 18-11 |  | 11028024 | Nut                             | 2 |

## Controls

### H1P control H6, H7

#### Parts configuration



Generic housing shown

\* Included in overhaul seal kit Q210

## Controls

### Common parts

| Item  | Date Begin | Date End | Part Number | Part Name                | Qty. per Model/Kit |
|-------|------------|----------|-------------|--------------------------|--------------------|
| D050  | 18-13      |          | 716860      | Screw, M5 x 12           | 6                  |
| D060  | 18-13      |          | 612291      | Seal nut                 | 1                  |
| D065  | 18-13      |          | 327007      | Plug assembly            | 1                  |
| D150  | 18-13      |          | 11227209    | Control gasket           | 1                  |
| D200  | 18-13      |          | 11202172    | Swashplate feedback link | 1                  |
| D250  | 18-13      |          | 505038      | Screw, M6 x 45           | 6                  |
| D300  | 18-13      |          | 310979      | Dowel pin                | 2                  |
| D766  | 18-13      |          | 11187406    | Protection cover         | 1                  |
| D768  | 18-13      |          | 11184617    | Paint cover              | 1                  |
| QD26  | 18-13      |          | 11001952    | O-ring                   | 2                  |
| QD28  | 18-13      |          | 063172      | O-ring                   | 2                  |
| QD30  | 18-13      |          | 11027883    | Cap                      | 2                  |
| QD760 | 18-13      |          | 11201819    | EDC sensor service kit   | 1                  |

### Order code: H6

|       |       |  |          |                                  |   |
|-------|-------|--|----------|----------------------------------|---|
| QD100 | 18-13 |  | 11179281 | EDC kit, 12V                     | 1 |
| QD25  | 18-13 |  | 140750   | Proportional solenoid, 12V       | 2 |
| QD27  | 18-13 |  | 11004698 | Coil kit, 12V, DEUTSCH connector | 2 |
| QD29  | 18-13 |  | 11004749 | Coil nut                         | 2 |

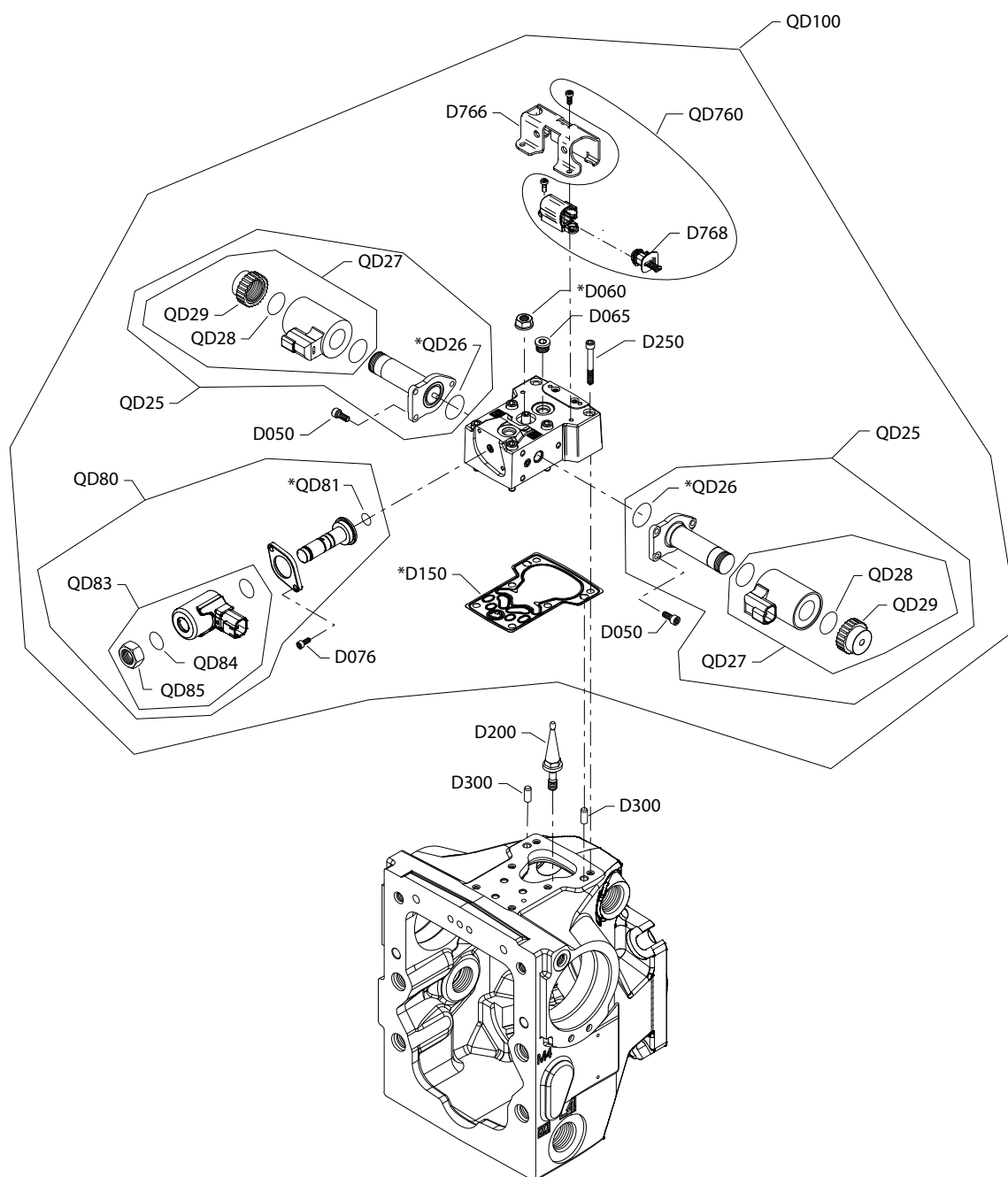
### Order code: H7

|       |       |  |          |                                  |   |
|-------|-------|--|----------|----------------------------------|---|
| QD100 | 18-13 |  | 11179292 | EDC kit, 24V                     | 1 |
| QD25  | 18-13 |  | 140751   | Proportional solenoid, 24V       | 2 |
| QD27  | 18-13 |  | 11004700 | Coil kit, 24V, DEUTSCH connector | 2 |
| QD29  | 18-13 |  | 11004750 | Coil nut                         | 2 |

## Controls

### H1P control H8, H9

#### Parts configuration



Generic housing shown

Option H8 is available in SAE and metric configurations. Please order accordingly.

\* Included in overhaul seal kit Q210

## Controls

### Common parts

| Item  | Date Begin | Date End | Part Number | Part Name                | Qty. per Model/Kit |
|-------|------------|----------|-------------|--------------------------|--------------------|
| D050  | 18-13      |          | 716860      | Screw, M5 x 12           | 6                  |
| D060  | 18-13      |          | 612291      | Seal nut                 | 1                  |
| D065  | 18-13      |          | 327007      | Plug assembly            | 1                  |
| D067  | 18-13      |          | 327007      | Plug assembly            | 1                  |
| D076  | 18-13      |          | 067694      | Screw, M4 x 10           | 2                  |
| D150  | 18-13      |          | 11227209    | Control gasket           | 1                  |
| D200  | 18-13      |          | 11202172    | Swashplate feedback link | 1                  |
| D250  | 18-13      |          | 505038      | Screw, M6 x 45           | 6                  |
| D300  | 18-13      |          | 310979      | Dowel pin                | 2                  |
| D766  | 18-13      |          | 11187406    | Protection cover         | 1                  |
| D768  | 18-13      |          | 11184617    | Paint cover              | 1                  |
| QD28  | 18-13      |          | 063172      | O-ring                   | 2                  |
| QD84  | 18-13      |          | 11140393    | O-ring                   | 1                  |
| QD85  | 18-13      |          | 11140394    | Nut                      | 1                  |
| QD760 | 18-13      |          | 11201819    | EDC sensor service kit   | 1                  |

### Order code: H8

|       |       |  |          |                                  |   |
|-------|-------|--|----------|----------------------------------|---|
| QD100 | 18-13 |  | 11179293 | EDC kit, 12V                     | 1 |
| QD100 | 16-30 |  | 11182566 | EDC kit, 12v ASNSR (metric)      | 1 |
| QD25  | 18-13 |  | 11012457 | Proportional solenoid, 12V       | 2 |
| QD27  | 18-13 |  | 11028018 | Coil kit, 12V, DEUTSCH connector | 2 |
| QD29  | 18-13 |  | 11027046 | Coil nut                         | 2 |
| QD80  | 18-13 |  | 11129914 | Solenoid, 12V, DEUTSCH connector | 1 |
| QD83  | 18-13 |  | 11136347 | Coil kit, 12V, DEUTSCH connector | 1 |

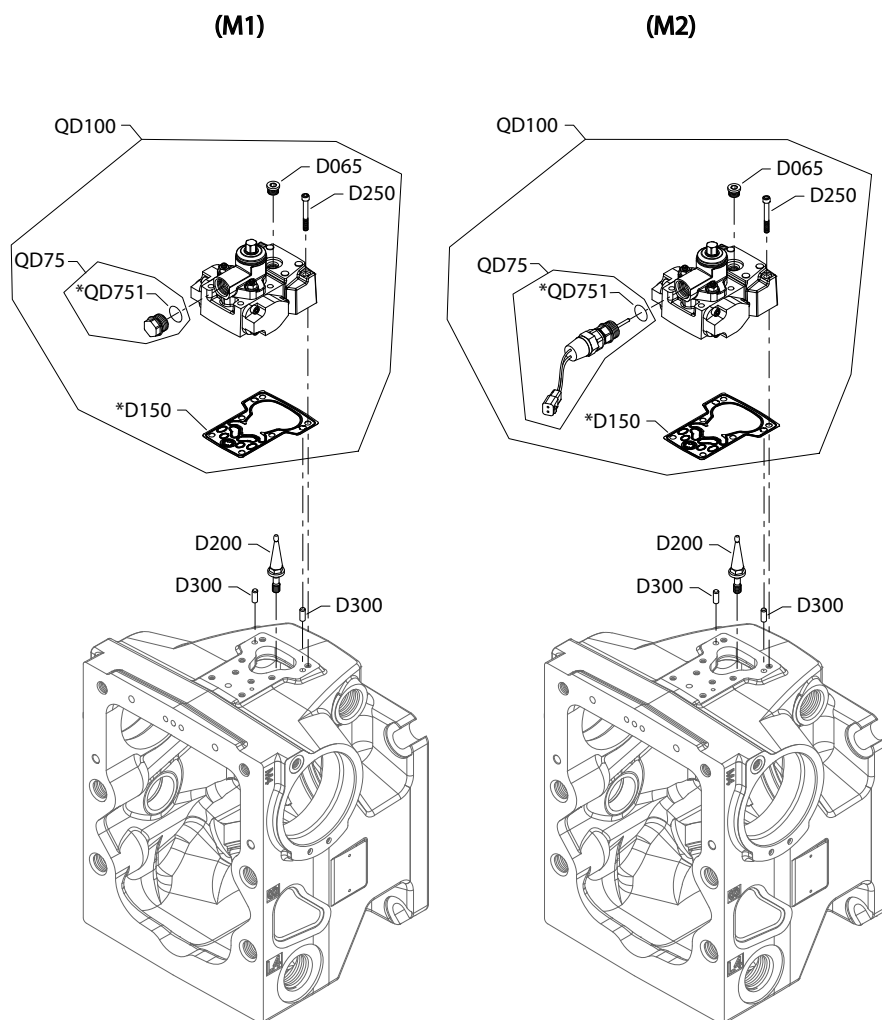
### Order code: H9

|       |       |  |          |                                  |   |
|-------|-------|--|----------|----------------------------------|---|
| QD100 | 18-13 |  | 11179296 | EDC kit, 24V                     | 1 |
| QD25  | 18-13 |  | 11012459 | Proportional solenoid, 24V       | 2 |
| QD27  | 18-13 |  | 11028019 | Coil kit, 24V, DEUTSCH connector | 2 |
| QD29  | 18-13 |  | 11028024 | Coil nut                         | 2 |
| QD80  | 18-13 |  | 11129915 | Solenoid, 24V, DEUTSCH connector | 1 |
| QD83  | 18-13 |  | 11147332 | Coil kit, 24V, DEUTSCH connector | 1 |

## Controls

### H1P control M1, M2

*M1 and M2 configuration*



Generic housing shown

\* Included in overhaul seal kit

## Controls

### Common parts

| Item  | Date Begin | Date End | Part Number           | Part Name                                                           | Qty. per Model/Kit |
|-------|------------|----------|-----------------------|---------------------------------------------------------------------|--------------------|
| D065  | 14-01      |          | 327007                | Plug assembly                                                       | 1                  |
| D150  | 14-01      |          | 11227209              | Control gasket ( <a href="#">SB-2016-033</a> on page 133)           | 1                  |
| D200  | 14-01      |          | 11202172              | Swashplate feedback link ( <a href="#">SB-2018-025</a> on page 137) | 1                  |
| D250  | 14-01      |          | 505038                | Screw, M6 x 45                                                      | 6                  |
| D300  | 14-01      |          | 310979                | Dowel pin                                                           | 2                  |
| QD751 | 14-01      |          | 001131 (9004201-5000) | O-ring                                                              | 1                  |

### Order code: M1

|       |       |  |          |                      |   |
|-------|-------|--|----------|----------------------|---|
| QD75  | 14-01 |  | 11119332 | Spring seat assembly | 1 |
| QD100 | 14-01 |  | 11141225 | MDC kit              | 1 |

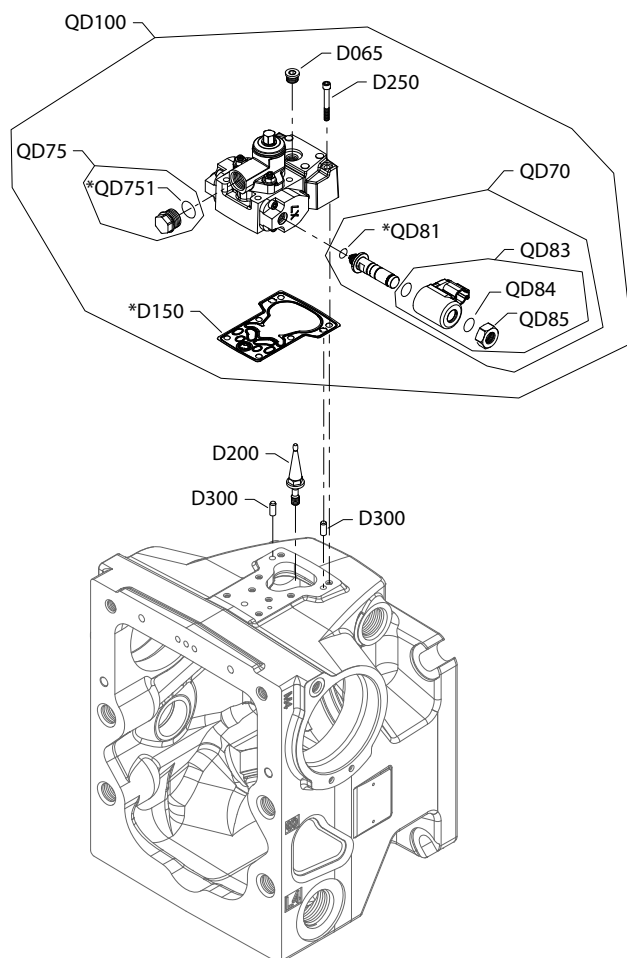
### Order code: M2

|       |       |  |          |                                           |   |
|-------|-------|--|----------|-------------------------------------------|---|
| QD75  | 14-01 |  | 11126847 | Spring seat/neutral start switch assembly | 1 |
| QD100 | 14-01 |  | 11141236 | MDC kit                                   | 1 |

## Controls

### H1P control M3, M4

*M3 and M4 configuration*



Generic housing shown

\* Included in overhaul seal kit Q210



## Controls

### Common parts

| Item  | Date Begin | Date End | Part Number           | Part Name                                                           | Qty. per Model/Kit |
|-------|------------|----------|-----------------------|---------------------------------------------------------------------|--------------------|
| D065  | 14-01      |          | 327007                | Plug assembly                                                       | 1                  |
| D150  | 14-01      |          | 11227209              | Control gasket ( <a href="#">SB-2016-033</a> on page 133)           | 1                  |
| D200  | 14-01      |          | 11202172              | Swashplate feedback link ( <a href="#">SB-2018-025</a> on page 137) | 1                  |
| D250  | 14-01      |          | 505038                | Screw, M6 x 45                                                      | 6                  |
| D300  | 14-01      |          | 310979                | Dowel pin                                                           | 2                  |
| QD81  | 14-01      |          | 11152257              | O-ring                                                              | 1                  |
| QD84  | 14-01      |          | 11140393              | O-ring                                                              | 1                  |
| QD85  | 14-01      |          | 11140394              | Coil nut                                                            | 1                  |
| QD751 | 14-01      |          | 001131 (9004201-5000) | O-ring                                                              | 1                  |

### Order code: M3

|       |       |  |          |                      |   |
|-------|-------|--|----------|----------------------|---|
| QD70  | 14-01 |  | 11129916 | Solenoid valve, 12v  | 1 |
| QD75  | 14-01 |  | 11119332 | Spring seat assembly | 1 |
| QD83  | 14-01 |  | 11136347 | Coil kit, 12v        | 1 |
| QD100 | 14-01 |  | 11218976 | MDC kit, 12v, CCO    | 1 |

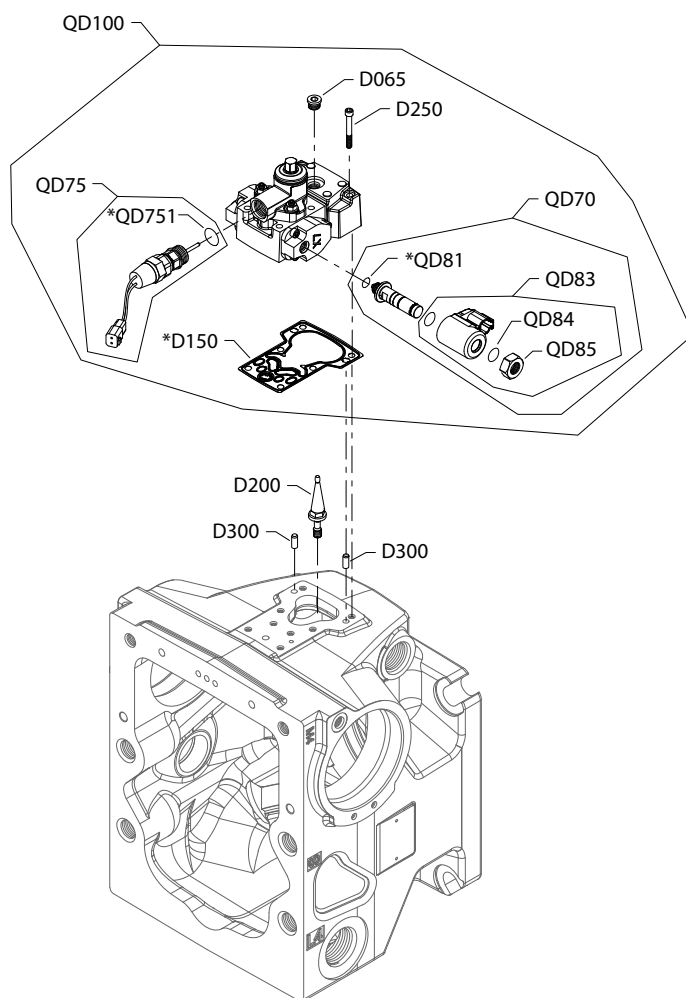
### Order code: M4

|       |       |  |          |                     |   |
|-------|-------|--|----------|---------------------|---|
| QD70  | 14-01 |  | 11129917 | Solenoid valve, 24v | 1 |
| QD83  | 14-01 |  | 11136348 | Coil kit, 24v, CCO  | 1 |
| QD100 | 14-01 |  | 11218977 | MDC kit, 24v        | 1 |

## Controls

### H1P control M5, M6

M5 and M6 configuration



Generic housing shown

\* Included in overhaul seal kit Q210

## Controls

### Common parts

| Item  | Date Begin | Date End | Part Number           | Part Name                                                           | Qty. per Model/Kit |
|-------|------------|----------|-----------------------|---------------------------------------------------------------------|--------------------|
| D065  | 14-01      |          | 327007                | Plug assembly                                                       | 1                  |
| D150  | 14-01      |          | 11227209              | Control gasket ( <a href="#">SB-2016-033</a> on page 133)           | 1                  |
| D200  | 14-01      |          | 11202172              | Swashplate feedback link ( <a href="#">SB-2018-025</a> on page 137) | 1                  |
| D250  | 14-01      |          | 505038                | Screw, M6 x 45                                                      | 6                  |
| D300  | 14-01      |          | 310979                | Dowel pin                                                           | 2                  |
| QD75  | 14-01      |          | 11126847              | Spring seat/neutral start switch assembly                           | 1                  |
| QD81  | 14-01      |          | 11152257              | O-ring                                                              | 1                  |
| QD84  | 14-01      |          | 11140393              | O-ring                                                              | 1                  |
| QD85  | 14-01      |          | 11140394              | Coil nut                                                            | 1                  |
| QD751 | 14-01      |          | 001131 (9004201-5000) | O-ring                                                              | 1                  |

### Order code: M5

|       |       |  |          |                                                  |   |
|-------|-------|--|----------|--------------------------------------------------|---|
| QD70  | 14-01 |  | 11129916 | Solenoid valve, 12v                              | 1 |
| QD83  | 14-01 |  | 11136347 | Coil kit, 12v                                    | 1 |
| QD100 | 14-01 |  | 11218978 | MDC kit, 12v, neutral start switch assembly, CCO | 1 |

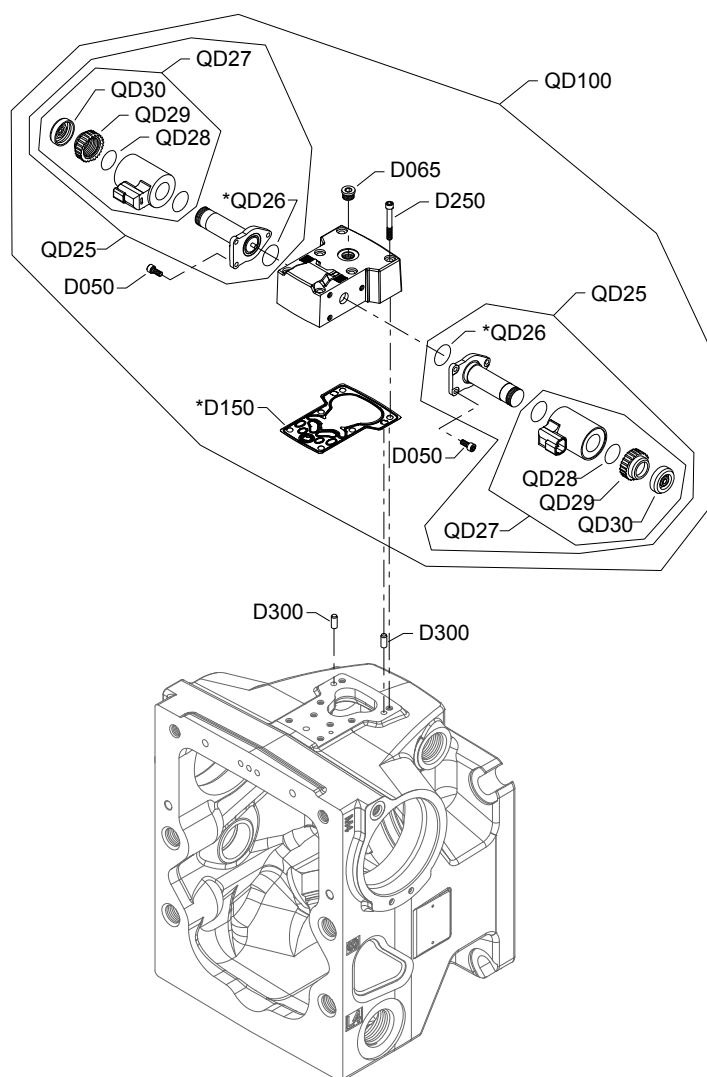
### Order code: M6

|       |       |  |          |                                                  |   |
|-------|-------|--|----------|--------------------------------------------------|---|
| QD70  | 14-01 |  | 11129917 | Solenoid valve, 24v                              | 1 |
| QD83  | 14-01 |  | 11136348 | Coil kit, 24v                                    | 1 |
| QD100 | 14-01 |  | 11218979 | MDC kit, 24v, neutral start switch assembly, CCO | 1 |

## Controls

### H1P control N1, N2

N1 and N2 configuration



Generic housing shown

\* Included in overhaul seal kit Q210

## Controls

### Common parts

| Item | Date Begin | Date End | Part Number | Part Name      | Qty. per Model/Kit |
|------|------------|----------|-------------|----------------|--------------------|
| D050 | 16-30      |          | 716860      | Screw, M5 x 12 | 6                  |
| D065 | 16-30      |          | 327007      | Plug assembly  | 1                  |
| D150 | 16-30      |          | 11227209    | Control gasket | 1                  |
| D250 | 16-30      |          | 505038      | Screw, M6 x 45 | 6                  |
| D300 | 16-30      |          | 310979      | Dowel pin      | 2                  |
| QD26 | 16-30      |          | 11001952    | O-ring         | 2                  |
| QD28 | 16-30      |          | 063172      | O-ring         | 2                  |
| QD30 | 16-30      |          | 11027883    | Cap            | 2                  |

### Order code: N1

|       |       |  |          |                                                           |   |
|-------|-------|--|----------|-----------------------------------------------------------|---|
| QD25  | 16-30 |  | 140750   | Proportional solenoid, 12v, DEUTSCH connector             | 2 |
| QD27  | 16-30 |  | 11004698 | Coil kit, 12v, DEUTSCH connector                          | 2 |
| QD29  | 16-30 |  | 11004749 | Coil nut                                                  | 2 |
| QD100 | 16-30 |  | 11147921 | NFPE control kit, 12v, manual override, DEUTSCH connector | 1 |

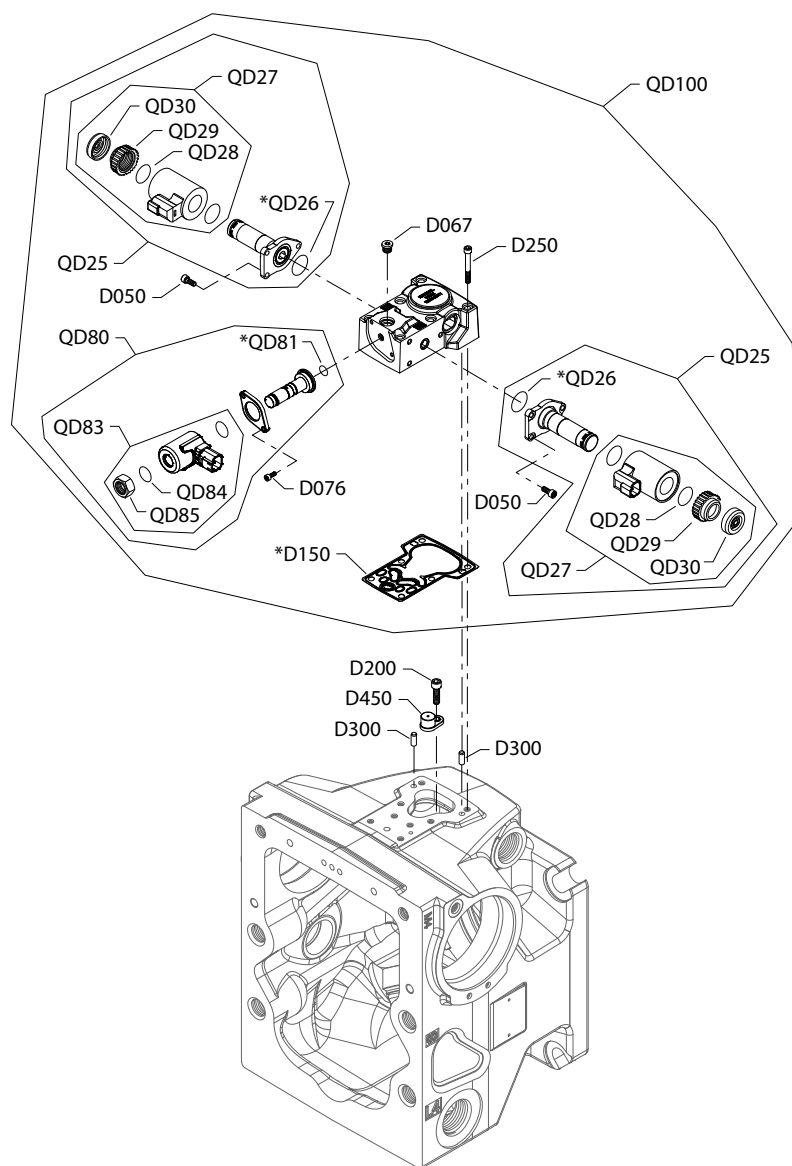
### Order code: N2

|       |       |  |          |                                                           |   |
|-------|-------|--|----------|-----------------------------------------------------------|---|
| QD25  | 16-30 |  | 140751   | Proportional solenoid, 24v, DEUTSCH connector             | 2 |
| QD27  | 16-30 |  | 11004700 | Coil kit, 24v, DEUTSCH connector                          | 2 |
| QD29  | 16-30 |  | 11004750 | Coil nut                                                  | 2 |
| QD100 | 16-30 |  | 11147925 | NFPE control kit, 24v, manual override, DEUTSCH connector | 1 |

## Controls

### H1P control N3, N4

*N3 and N4 configuration*



Generic housing shown

\* Included in overhaul seal kit Q210

## Controls

### Common parts

| Item | Date Begin | Date End | Part Number | Part Name        | Qty. per Model/Kit |
|------|------------|----------|-------------|------------------|--------------------|
| D050 | 16-30      |          | 716860      | Screw, M5 x 12   | 6                  |
| D067 | 16-30      |          | 327007      | Plug assembly    | 1                  |
| D076 | 16-30      |          | 067694      | Screw, M4 x 10   | 2                  |
| D150 | 16-30      |          | 11227209    | Control gasket   | 1                  |
| D200 | 16-30      |          | 141472      | Screw, special   | 1                  |
| D250 | 16-30      |          | 505038      | Screw, M6 x 45   | 6                  |
| D300 | 16-30      |          | 310979      | Dowel pin        | 2                  |
| D450 | 16-30      |          | 11003097    | Magnetic carrier | 1                  |
| QD26 | 16-30      |          | 11001952    | O-ring           | 2                  |
| QD28 | 16-30      |          | 063172      | O-ring           | 2                  |
| QD29 | 16-30      |          | 11004749    | Coil nut         | 2                  |
| QD30 | 16-30      |          | 11027883    | Cap              | 2                  |
| QD81 | 16-30      |          | 11152257    | O-ring           | 1                  |
| QD84 | 16-30      |          | 11140393    | O-ring           | 1                  |
| QD85 | 16-30      |          | 11140394    | Nut              | 1                  |

### Order code: N3

|       |       |  |          |                                  |   |
|-------|-------|--|----------|----------------------------------|---|
| QD25  | 16-30 |  | 140750   | Proportional solenoid, 12v       | 2 |
| QD27  | 16-30 |  | 11004698 | Coil kit, 12v, DEUTSCH connector | 2 |
| QD80  | 16-30 |  | 11129914 | Solenoid, 12V, DEUTSCH connector | 1 |
| QD83  | 16-30 |  | 11147301 | Coil kit, 12V, DEUTSCH connector | 1 |
| QD100 | 16-30 |  | 11147920 | NFPE control kit, 12v, CCO       | 1 |

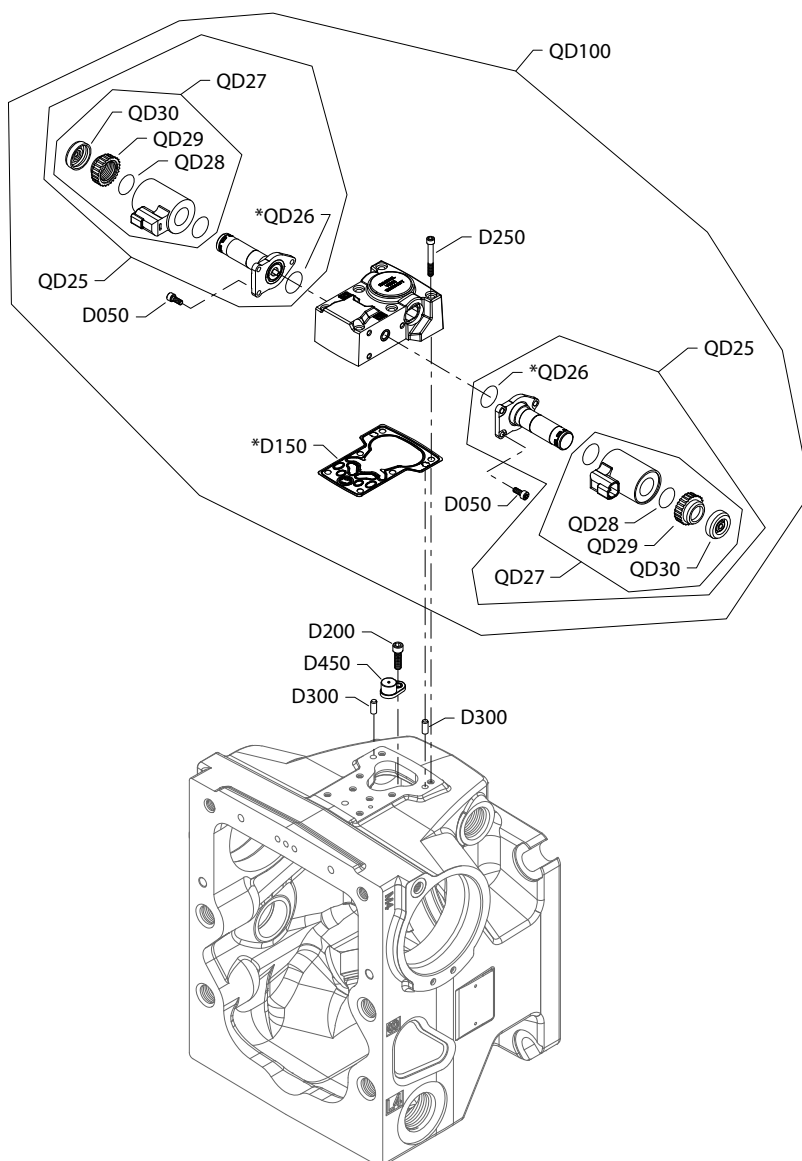
### Order code: N4

|       |       |  |          |                                  |   |
|-------|-------|--|----------|----------------------------------|---|
| QD25  | 16-30 |  | 140751   | Proportional solenoid, 24v       | 2 |
| QD27  | 16-30 |  | 11004700 | Coil kit, 24v, DEUTSCH connector | 2 |
| QD80  | 16-30 |  | 11129915 | Solenoid, 24V, DEUTSCH connector | 1 |
| QD83  | 16-30 |  | 11147332 | Coil kit, 24V, DEUTSCH connector | 1 |
| QD100 | 16-30 |  | 11147924 | NFPE control kit, 24v, CCO       | 1 |

## Controls

### H1P control N5, N6

*N5 and N6 configuration*



Generic housing shown

\* Included in overhaul seal kit Q210



## Controls

### Common parts

| Item | Date Begin | Date End | Part Number | Part Name        | Qty. per Model/Kit |
|------|------------|----------|-------------|------------------|--------------------|
| D050 | 16-30      |          | 716860      | Screw, M5 x 12   | 6                  |
| D150 | 16-30      |          | 11227209    | Control gasket   | 1                  |
| D200 | 16-30      |          | 141472      | Screw, special   | 1                  |
| D250 | 16-30      |          | 505038      | Screw, M6 x 45   | 6                  |
| D300 | 16-30      |          | 310979      | Dowel pin        | 2                  |
| D450 | 16-30      |          | 11003097    | Magnetic carrier | 1                  |
| QD26 | 16-30      |          | 11001952    | O-ring           | 2                  |
| QD28 | 16-30      |          | 063172      | O-ring           | 2                  |
| QD29 | 16-30      |          | 11004749    | Coil nut         | 2                  |
| QD30 | 16-30      |          | 11027883    | Cap              | 2                  |

### Order code: N5

|       |       |  |          |                                        |   |
|-------|-------|--|----------|----------------------------------------|---|
| QD25  | 16-30 |  | 140750   | Proportional solenoid, 12v             | 2 |
| QD27  | 16-30 |  | 11004698 | Coil kit, 12v, DEUTSCH connector       | 2 |
| QD100 | 16-30 |  | 11147918 | NFPE control kit, 12v, manual override | 1 |

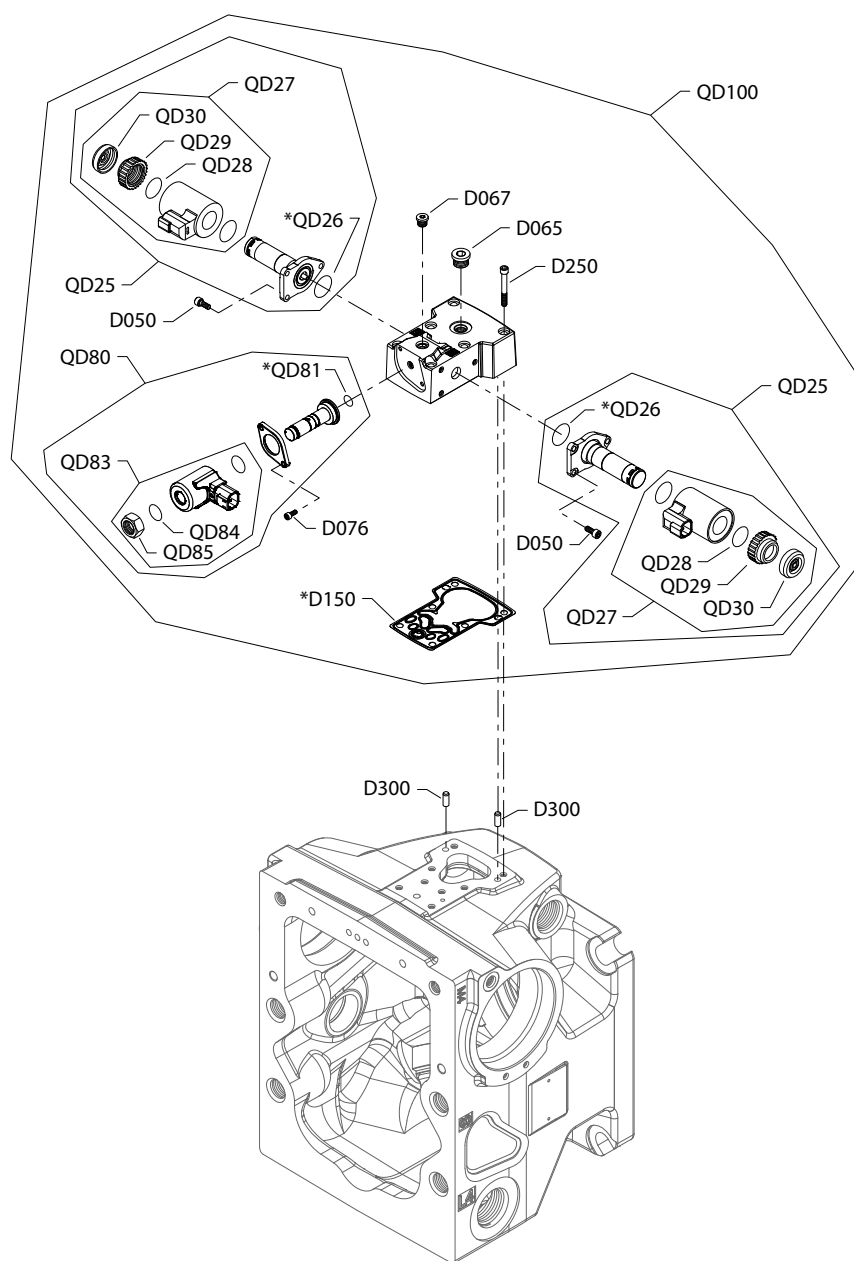
### Order code: N6

|       |       |  |          |                                        |   |
|-------|-------|--|----------|----------------------------------------|---|
| QD25  | 16-30 |  | 140751   | Proportional solenoid, 24v             | 2 |
| QD27  | 16-30 |  | 11004700 | Coil kit, 24v, DEUTSCH connector       | 2 |
| QD100 | 16-30 |  | 11147922 | NFPE control kit, 24v, manual override | 1 |

## Controls

### H1P control N7, N8

N7 and N8 configuration



Generic housing shown

\* Included in overhaul seal kit Q210

## Controls

### Common parts

| Item | Date Begin | Date End | Part Number | Part Name      | Qty. per Model/Kit |
|------|------------|----------|-------------|----------------|--------------------|
| D050 | 16-30      |          | 716860      | Screw, M5 x 12 | 6                  |
| D067 | 16-30      |          | 327007      | Plug assembly  | 1                  |
| D076 | 16-30      |          | 067694      | Screw, M4 x 10 | 1                  |
| D150 | 16-30      |          | 11227209    | Control gasket | 1                  |
| D250 | 16-30      |          | 505038      | Screw, M6 x 45 | 6                  |
| D300 | 16-30      |          | 310979      | Dowel pin      | 2                  |
| QD26 | 16-30      |          | 11001952    | O-ring         | 2                  |
| QD28 | 16-30      |          | 063172      | O-ring         | 2                  |
| QD30 | 16-30      |          | 11027883    | Cap            | 2                  |
| QD81 | 16-30      |          | 11152257    | O-ring         | 1                  |
| QD84 | 16-30      |          | 11140393    | O-ring         | 1                  |
| QD85 | 16-30      |          | 11140394    | Nut            | 1                  |

### Order code: N7

|       |       |  |          |                                  |   |
|-------|-------|--|----------|----------------------------------|---|
| QD25  | 16-30 |  | 140750   | Proportional solenoid, 12v       | 2 |
| QD27  | 16-30 |  | 11004698 | Coil kit, 12v, DEUTSCH connector | 2 |
| QD29  | 16-30 |  | 11004749 | Coil nut                         | 2 |
| QD80  | 16-30 |  | 11129914 | Solenoid, 12V, DEUTSCH connector | 1 |
| QD83  | 16-30 |  | 11147301 | Coil kit, 12V, DEUTSCH connector | 1 |
| QD100 | 16-30 |  | 11147919 | NFPE control kit, 12v, CCO       | 1 |

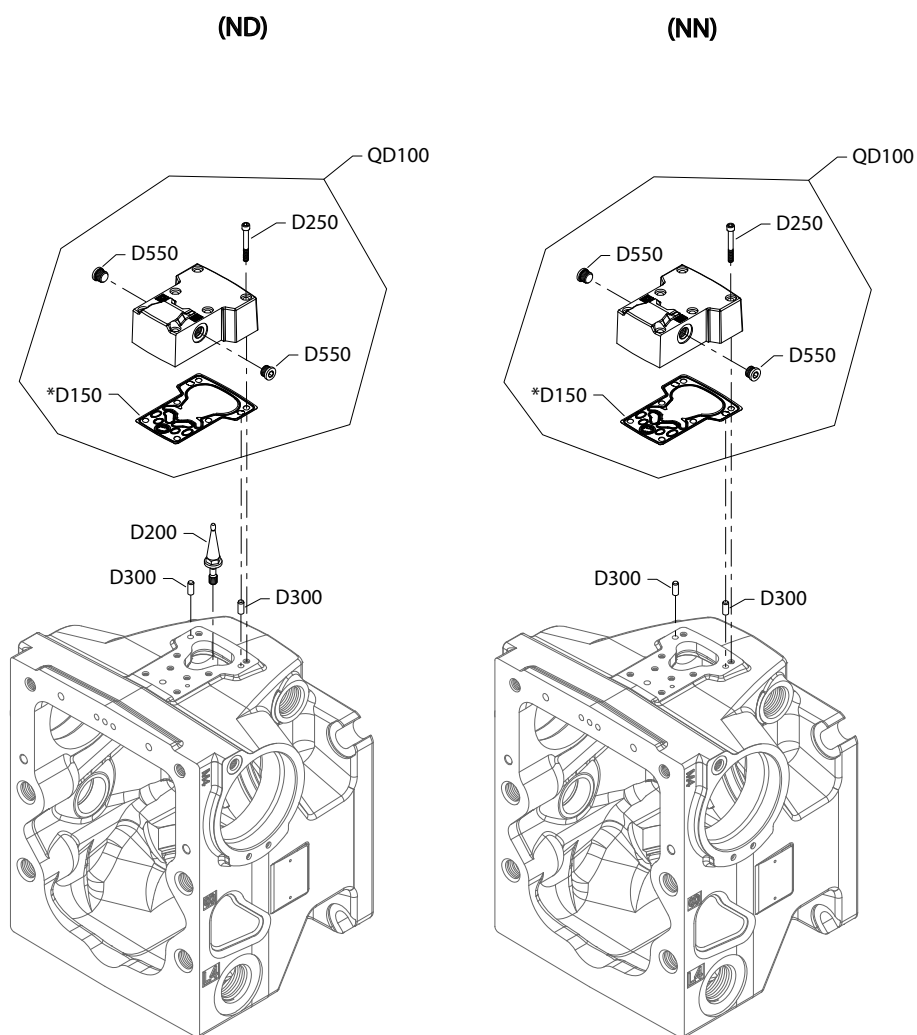
### Order code: N8

|       |       |  |          |                                  |   |
|-------|-------|--|----------|----------------------------------|---|
| QD25  | 16-30 |  | 140751   | Proportional solenoid, 24v       | 2 |
| QD27  | 16-30 |  | 11004700 | Coil kit, 24v, DEUTSCH connector | 2 |
| QD29  | 16-30 |  | 11004750 | Coil nut                         | 2 |
| QD80  | 16-30 |  | 11129915 | Solenoid, 24V, DEUTSCH connector | 1 |
| QD83  | 16-30 |  | 11147332 | Coil kit, 24V, DEUTSCH connector | 1 |
| QD100 | 16-30 |  | 11147923 | NFPE control kit, 24v, CCO       | 1 |

## Controls

### H1P control ND, NN

*ND and NN configuration*



Generic housing shown

\* Included in overhaul seal kit Q210

## Controls

Order code: ND

| Item  | Date Begin | Date End | Part Number | Part Name                | Qty. per Model/Kit |
|-------|------------|----------|-------------|--------------------------|--------------------|
| D150  | 16-02      |          | 11227209    | Control gasket           | 1                  |
| D200  | 16-02      |          | 11202172    | Swashplate feedback link | 1                  |
| D250  | 16-02      |          | 505038      | Screw, M6 x 45           | 6                  |
| D300  | 16-02      |          | 310979      | Dowel pin                | 2                  |
| D550  | 16-02      |          | 140644      | Plug assembly            | 2                  |
| QD100 | 16-02      |          | 11121984    | Control cover kit        | 1                  |

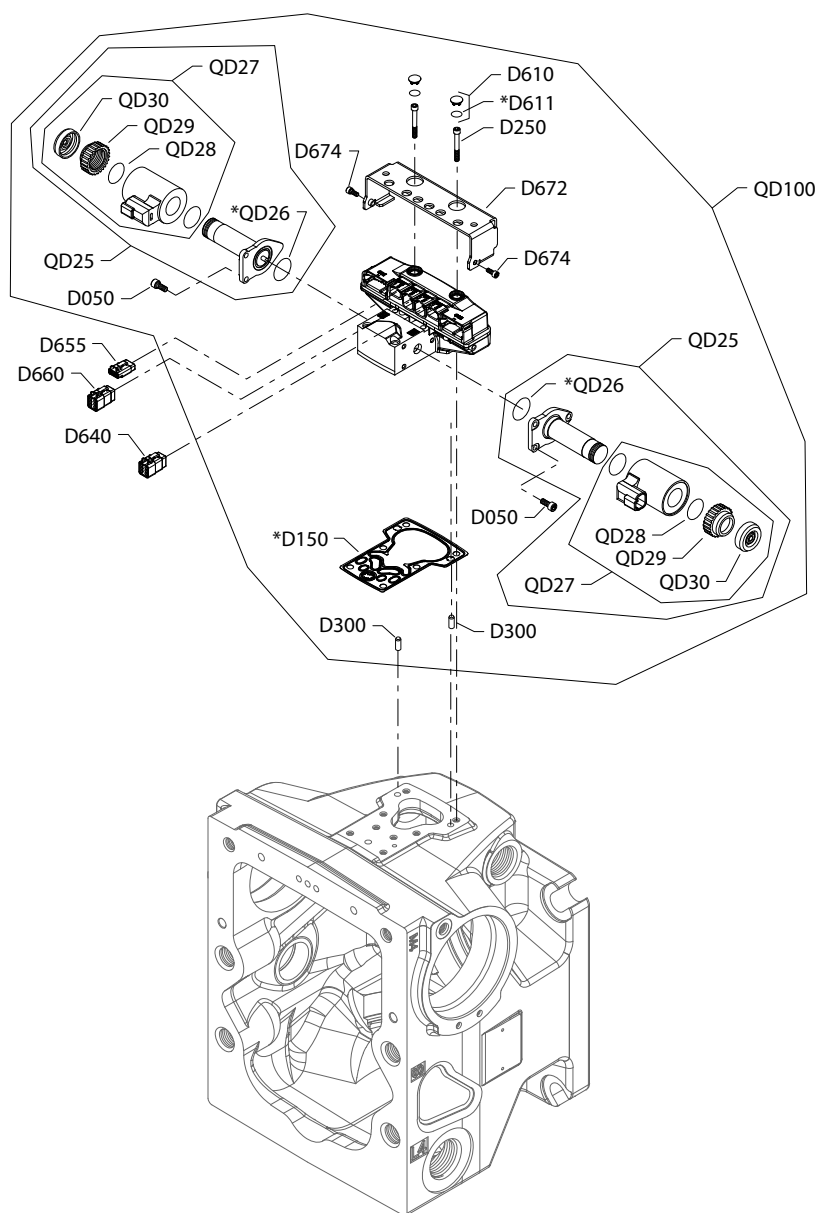
Order code: NN

|       |       |  |          |                                                           |   |
|-------|-------|--|----------|-----------------------------------------------------------|---|
| D150  | 14-01 |  | 11227209 | Control gasket ( <a href="#">SB-2016-033</a> on page 133) | 1 |
| D250  | 14-01 |  | 505038   | Screw, M6 x 45                                            | 6 |
| D300  | 14-01 |  | 310979   | Dowel pin                                                 | 2 |
| D550  | 14-01 |  | 140644   | Plug assembly                                             | 2 |
| QD100 | 14-01 |  | 11121984 | Control cover kit                                         | 1 |

## Controls

### H1P control P5

P5 configuration



Generic housing shown

\* Included in overhaul kit Q210

## Controls

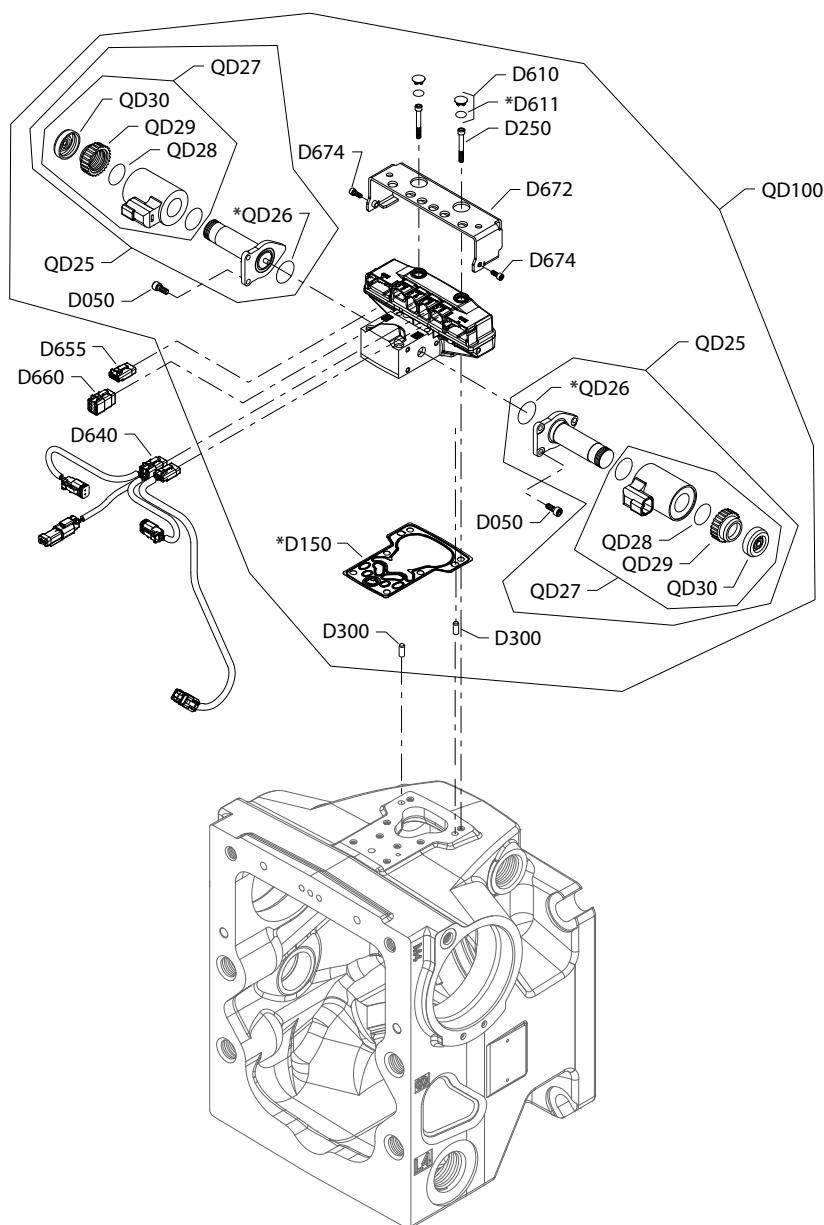
Order code: P5

| Item  | Date Begin | Date End | Part Number | Part Name                                    | Qty. per Model/Kit |
|-------|------------|----------|-------------|----------------------------------------------|--------------------|
| D050  | 17-15      |          | 716860      | Screw, M5 x 12                               | 6                  |
| D150  | 17-15      |          | 11227209    | Control gasket                               | 1                  |
| D250  | 17-15      |          | 505038      | Screw, M6 x 45                               | 6                  |
| D300  | 17-15      |          | 11036469    | Dowel pin                                    | 2                  |
| D610  | 17-15      |          | 11000467    | Plug assembly                                | 2                  |
| D611  | 17-15      |          | 11066774    | O-ring                                       | 2                  |
| D640  | 17-15      |          | 11084822    | Blank, connector DTM 06-6S                   | 1                  |
| D655  | 17-15      |          | 11084827    | Blank, connector DTM 06-3S                   | 1                  |
| D660  | 17-15      |          | 11084822    | Blank, connector DTM 06-6S                   | 1                  |
| D672  | 17-15      |          | 11151875    | Protection                                   | 1                  |
| D674  | 17-15      |          | 716860      | Screw, M5 x 12                               | 2                  |
| QD25  | 17-15      |          | 140750      | Proportional solenoid, 12 volt               | 2                  |
| QD26  | 17-15      |          | 11001952    | O-ring                                       | 2                  |
| QD27  | 17-15      |          | 11004698    | Coil kit, 12v, DEUTSCH connector             | 2                  |
| QD28  | 17-15      |          | 063172      | O-ring                                       | 2                  |
| QD29  | 17-15      |          | 11004749    | Coil nut                                     | 2                  |
| QD30  | 17-15      |          | 11027883    | Cap                                          | 2                  |
| QD100 | 17-15      |          | 11147941    | Automotive control kit, 12v, manual override | 1                  |

## Controls

**H1P control P6, P7**

### *P6 and P7 configuration*



## Generic housing shown

\* Included in overhaul seal kit Q210



## Controls

### Common parts

| Item | Date Begin | Date End | Part Number | Part Name                  | Qty. per Model/Kit |
|------|------------|----------|-------------|----------------------------|--------------------|
| D050 | 16-30      |          | 716860      | Screw, M5 x 12             | 6                  |
| D150 | 16-30      |          | 11227209    | Control gasket             | 1                  |
| D250 | 16-30      |          | 505038      | Screw, M6 x 45             | 6                  |
| D300 | 16-30      |          | 11036469    | Dowel pin                  | 2                  |
| D610 | 16-30      |          | 11000467    | Plug assembly              | 2                  |
| D611 | 16-30      |          | 11066774    | O-ring                     | 2                  |
| D640 | 16-30      |          | 11023348    | AC wiring harness          | 1                  |
| D655 | 16-30      |          | 11084827    | Blank, connector DTM 06-3S | 1                  |
| D660 | 16-30      |          | 11084822    | Blank, connector DTM 06-6S | 1                  |
| D672 | 16-30      |          | 11151875    | Protection                 | 1                  |
| D674 | 16-30      |          | 716860      | Screw, M5 x 12             | 2                  |
| QD26 | 16-30      |          | 11001952    | O-ring                     | 2                  |
| QD28 | 16-30      |          | 063172      | O-ring                     | 2                  |
| QD29 | 16-30      |          | 11004749    | Coil nut                   | 2                  |
| QD30 | 16-30      |          | 11027883    | Cap                        | 2                  |

### Order code: P6

|       |       |  |          |                                              |   |
|-------|-------|--|----------|----------------------------------------------|---|
| QD25  | 16-30 |  | 140750   | Proportional solenoid, 12 volt               | 2 |
| QD27  | 16-30 |  | 11004698 | Coil kit, 12v, DEUTSCH connector             | 2 |
| QD100 | 16-30 |  | 11147941 | Automotive control kit, 12v, manual override | 1 |

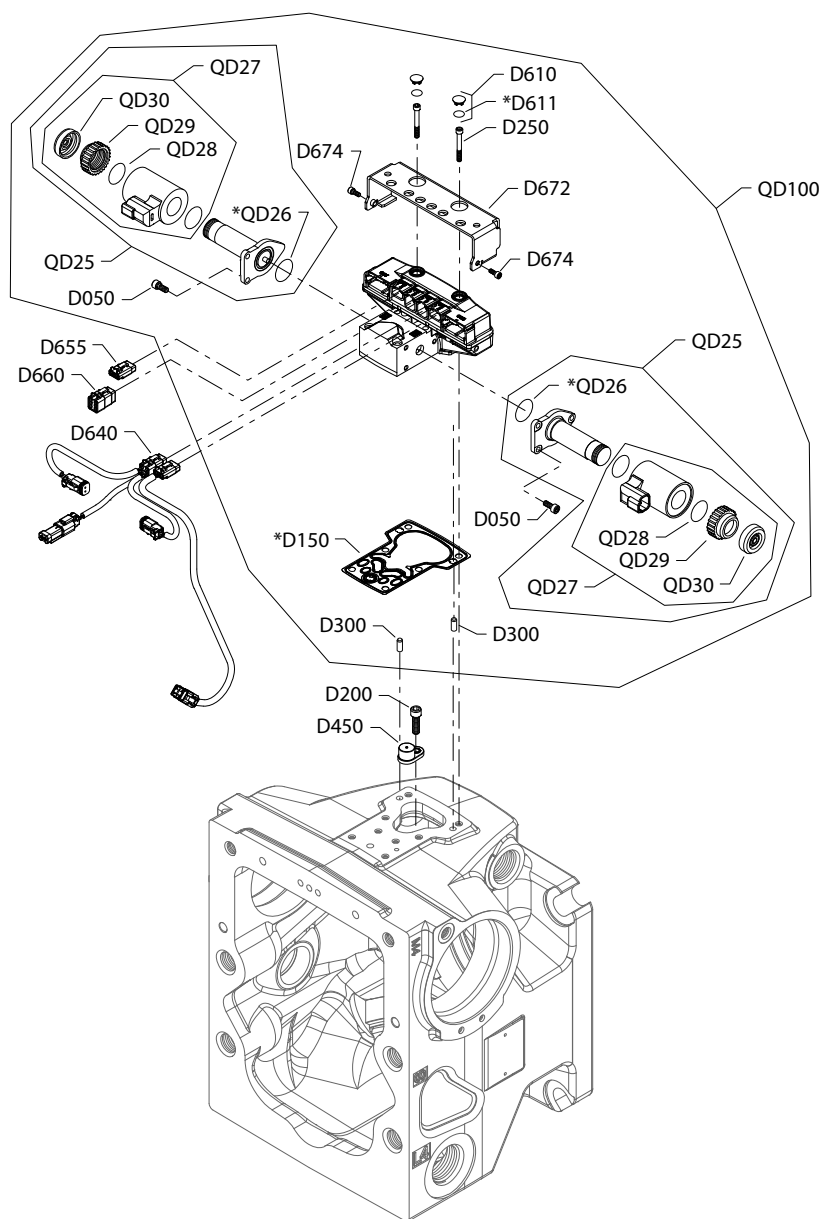
### Order code: P7

|       |       |  |          |                                              |   |
|-------|-------|--|----------|----------------------------------------------|---|
| QD25  | 16-30 |  | 140751   | Proportional solenoid, 24 volt               | 2 |
| QD27  | 16-30 |  | 11004700 | Coil kit, 24v, DEUTSCH connector             | 2 |
| QD100 | 16-30 |  | 11147943 | Automotive control kit, 24v, manual override | 1 |

## Controls

### H1P control P8, P9

*P8 and P9 configuration*



Generic housing shown

\* Included in overhaul seal kit Q210

## Controls

### Common parts

| Item | Date Begin | Date End | Part Number | Part Name                  | Qty. per Model/Kit |
|------|------------|----------|-------------|----------------------------|--------------------|
| D050 | 16-30      |          | 716860      | Screw, M5 x 12             | 6                  |
| D150 | 16-30      |          | 11227209    | Control gasket             | 1                  |
| D200 | 16-30      |          | 141472      | Screw, special             | 1                  |
| D250 | 16-30      |          | 505038      | Screw, M6 x 45             | 6                  |
| D300 | 16-30      |          | 11036469    | Dowel pin                  | 2                  |
| D450 | 16-30      |          | 11003097    | Magnetic carrier           | 1                  |
| D610 | 16-30      |          | 11000467    | Plug assembly              | 2                  |
| D611 | 16-30      |          | 11066774    | O-ring                     | 2                  |
| D640 | 16-30      |          | 11023348    | AC wiring harness          | 1                  |
| D655 | 16-30      |          | 11084827    | Blank, connector DTM 06-3S | 1                  |
| D660 | 16-30      |          | 11084822    | Blank, connector DTM 06-6S | 1                  |
| D672 | 16-30      |          | 11151875    | Protection                 | 1                  |
| D674 | 16-30      |          | 716860      | Screw, M5 x 12             | 2                  |
| QD26 | 16-30      |          | 11001952    | O-ring                     | 2                  |
| QD28 | 16-30      |          | 063172      | O-ring                     | 2                  |
| QD30 | 16-30      |          | 11027883    | Cap                        | 2                  |

### Order code: P8

|       |       |  |          |                                              |   |
|-------|-------|--|----------|----------------------------------------------|---|
| QD25  | 16-30 |  | 140750   | Proportional solenoid, 12 volt               | 2 |
| QD27  | 16-30 |  | 11004698 | Coil kit, 12v, DEUTSCH connector             | 2 |
| QD29  | 16-30 |  | 11004749 | Coil nut                                     | 2 |
| QD100 | 16-30 |  | 11147940 | Automotive control kit, 12v, manual override | 1 |

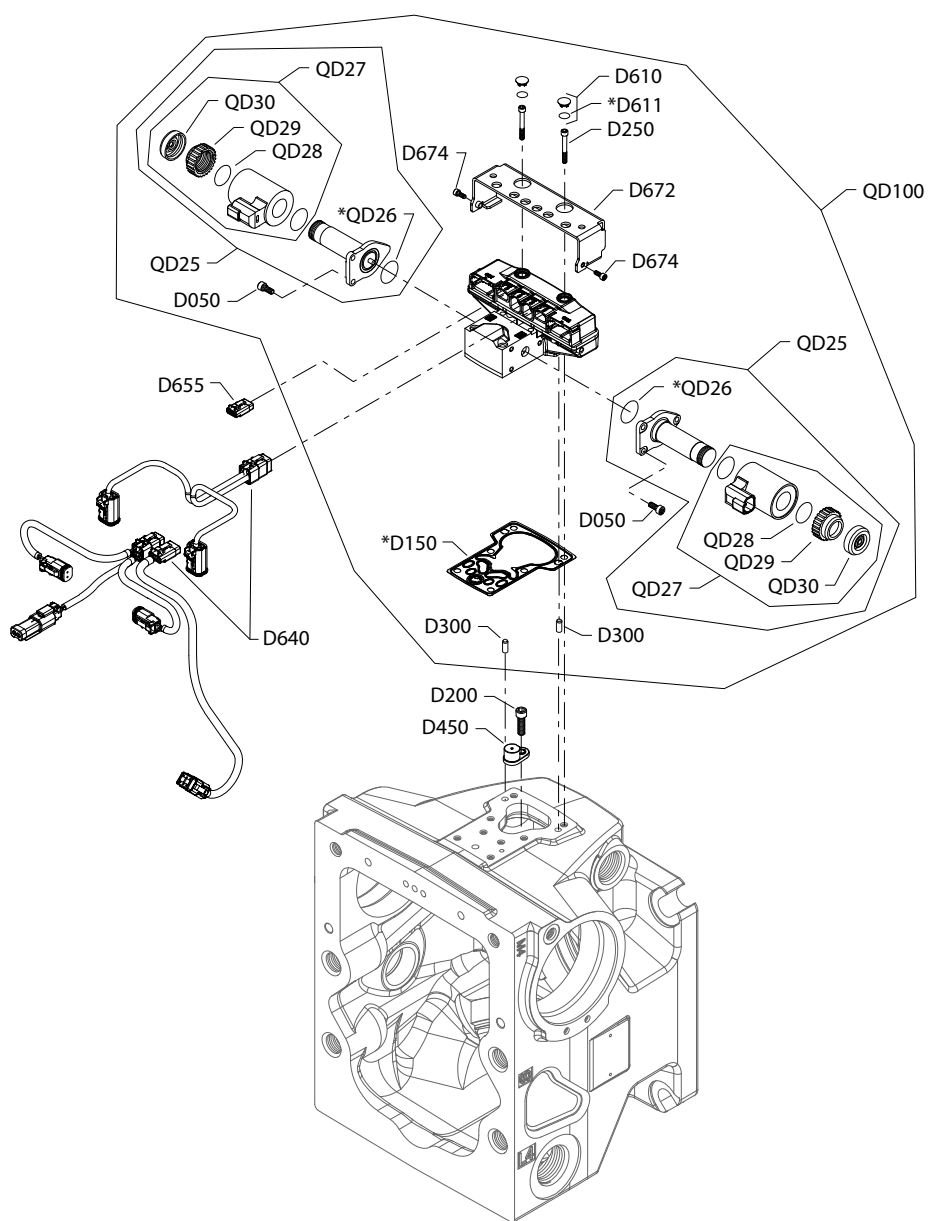
### Order code: P9

|       |       |  |          |                                              |   |
|-------|-------|--|----------|----------------------------------------------|---|
| QD25  | 16-30 |  | 140751   | Proportional solenoid, 24 volt               | 2 |
| QD27  | 16-30 |  | 11004700 | Coil kit, 24v, DEUTSCH connector             | 2 |
| QD29  | 16-30 |  | 11004750 | Coil nut                                     | 2 |
| QD100 | 16-30 |  | 11147942 | Automotive control kit, 24v, manual override | 1 |

## Controls

### H1P control R1, R2

*R1 and R2 configuration*



Generic housing shown

\* Included in overhaul seal kit Q210

## Controls

### Common parts

| Item | Date Begin | Date End | Part Number | Part Name                  | Qty. per Model/Kit |
|------|------------|----------|-------------|----------------------------|--------------------|
| D050 | 16-30      |          | 716860      | Screw, M5 x 12             | 6                  |
| D150 | 16-30      |          | 11227209    | Control gasket             | 1                  |
| D200 | 16-30      |          | 141472      | Screw, special             | 1                  |
| D250 | 16-30      |          | 505038      | Screw, M6 x 45             | 6                  |
| D300 | 16-30      |          | 11036469    | Dowel pin                  | 2                  |
| D450 | 16-30      |          | 11003097    | Magnetic carrier           | 1                  |
| D610 | 16-30      |          | 11000467    | Plug assembly              | 2                  |
| D611 | 16-30      |          | 11066774    | O-ring                     | 2                  |
| D640 | 16-30      |          | 11105876    | AC wiring harness          | 1                  |
| D655 | 16-30      |          | 11084827    | Blank, connector DTM 06-3S | 1                  |
| D672 | 16-30      |          | 11151875    | Protection                 | 1                  |
| D674 | 16-30      |          | 716860      | Screw, M5 x 12             | 2                  |
| QD26 | 16-30      |          | 11001952    | O-ring                     | 2                  |
| QD28 | 16-30      |          | 063172      | O-ring                     | 2                  |
| QD30 | 16-30      |          | 11027883    | Cap                        | 2                  |

### Order code: R1

|       |       |  |          |                                              |   |
|-------|-------|--|----------|----------------------------------------------|---|
| QD25  | 16-30 |  | 140750   | Proportional solenoid, 12 volt               | 2 |
| QD27  | 16-30 |  | 11004698 | Coil kit, 12v, DEUTSCH connector             | 2 |
| QD29  | 16-30 |  | 11004749 | Coil nut                                     | 2 |
| QD100 | 16-30 |  | 11147940 | Automotive control kit, 12v, manual override | 1 |

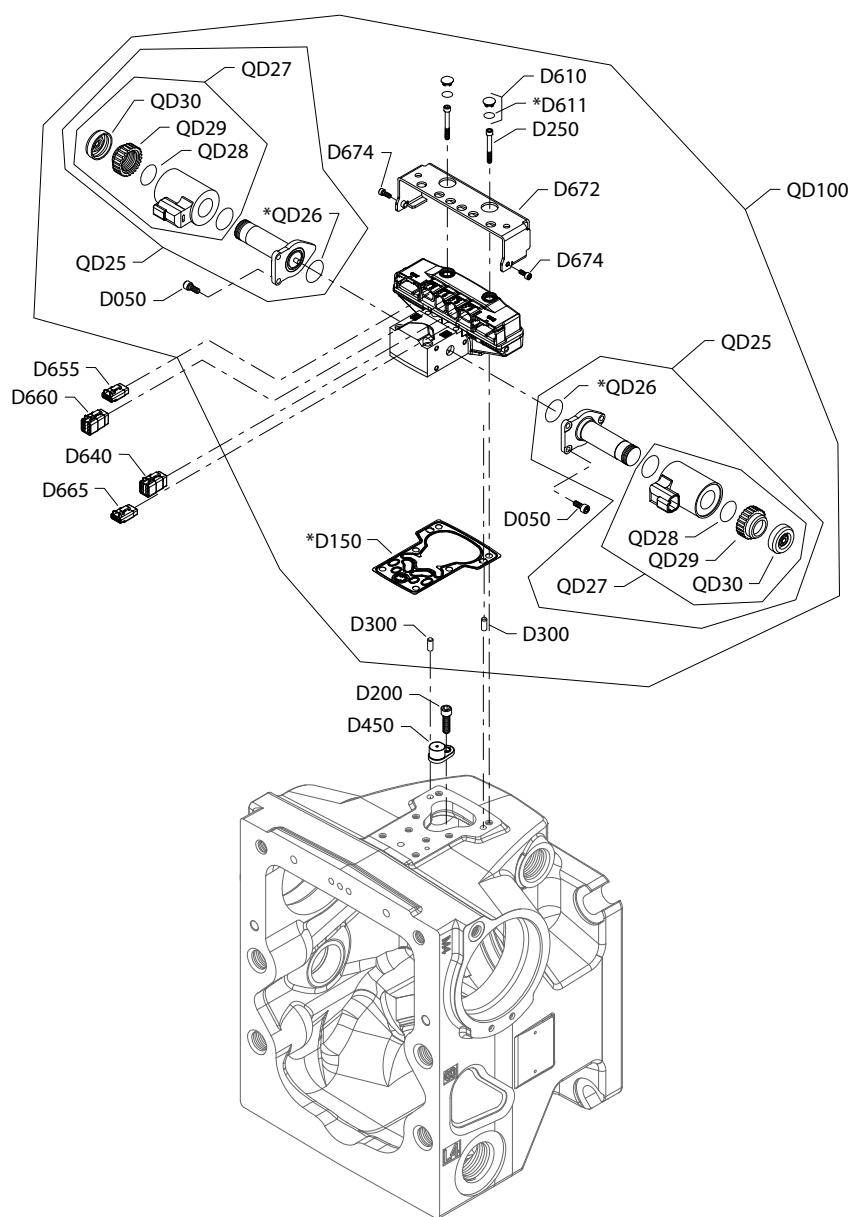
### Order code: R2

|       |       |  |          |                                              |   |
|-------|-------|--|----------|----------------------------------------------|---|
| QD25  | 16-30 |  | 140751   | Proportional solenoid, 24 volt               | 2 |
| QD27  | 16-30 |  | 11004700 | Coil kit, 24v, DEUTSCH connector             | 2 |
| QD29  | 16-30 |  | 11004750 | Coil nut                                     | 2 |
| QD100 | 16-30 |  | 11147942 | Automotive control kit, 24v, manual override | 1 |

## Controls

### H1P control R3

*R3 configuration*



Generic housing shown

\* Included in overhaul seal kit Q210

## Controls

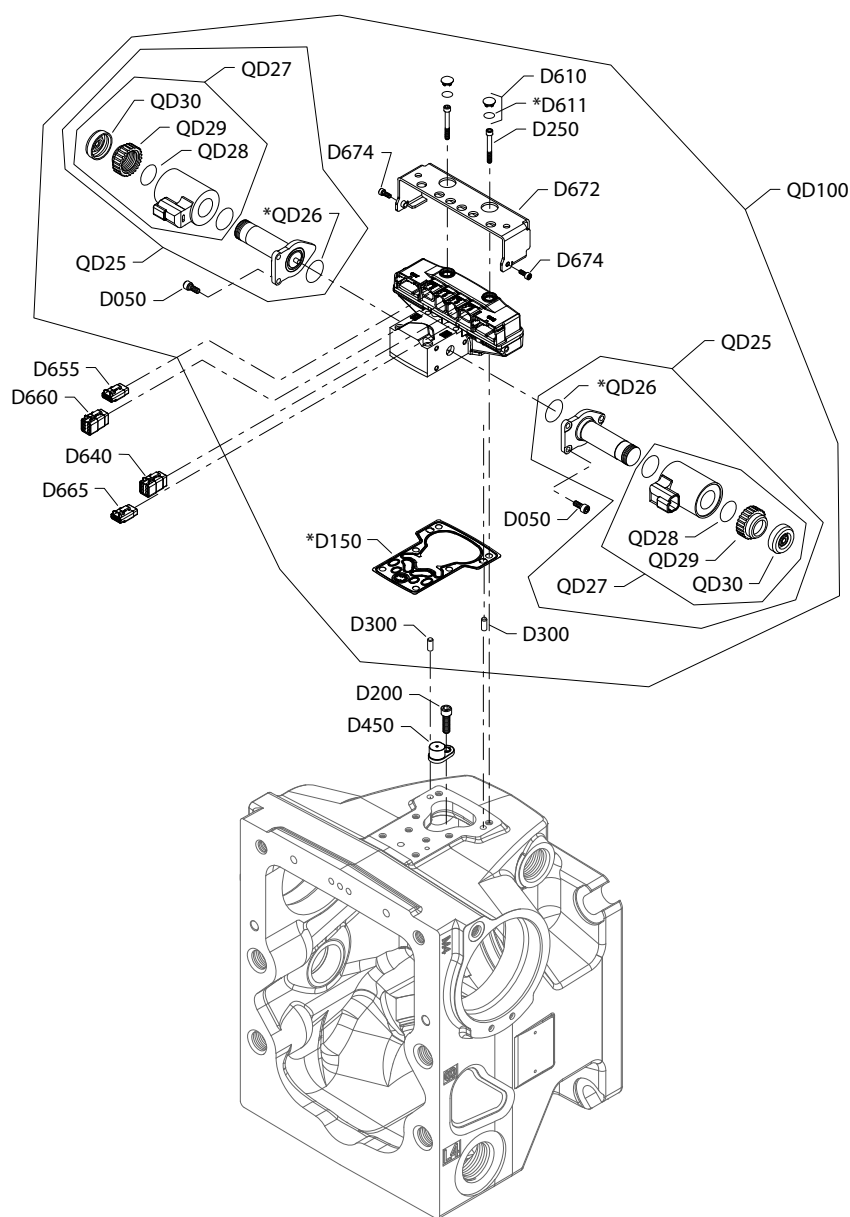
Order code: R3

| Item  | Date Begin | Date End | Part Number | Part Name                                    | Qty. per Model/Kit |
|-------|------------|----------|-------------|----------------------------------------------|--------------------|
| D050  | 16-17      |          | 716860      | Screw, M5 x 12                               | 6                  |
| D150  | 16-17      |          | 11227209    | Control gasket                               | 1                  |
| D200  | 16-17      |          | 141472      | Screw, special                               | 1                  |
| D250  | 16-17      |          | 505038      | Screw, M6 x 45                               | 6                  |
| D300  | 16-17      |          | 11036469    | Dowel pin                                    | 2                  |
| D450  | 16-17      |          | 11003097    | Magnetic carrier                             | 1                  |
| D610  | 16-17      |          | 11000467    | Plug assembly                                | 2                  |
| D611  | 16-17      |          | 11066774    | O-ring                                       | 2                  |
| D640  | 16-17      |          | 11084822    | Blank, connector DTM 06-6S                   | 1                  |
| D655  | 16-17      |          | 11084827    | Blank, connector DTM 06-3S                   | 1                  |
| D660  | 16-17      |          | 11084822    | Blank, connector DTM 06-6S                   | 1                  |
| D665  | 16-17      |          | 11084827    | Blank, connector DTM 06-3S                   | 1                  |
| D672  | 16-17      |          | 11151875    | Protection                                   | 1                  |
| D674  | 16-17      |          | 716860      | Screw, M5 x 12                               | 2                  |
| QD25  | 16-17      |          | 140751      | Proportional solenoid, 24 volt               | 2                  |
| QD26  | 16-17      |          | 11001952    | O-ring                                       | 2                  |
| QD27  | 16-17      |          | 11004700    | Coil kit, 24v, DEUTSCH connector             | 2                  |
| QD28  | 16-17      |          | 063172      | O-ring                                       | 2                  |
| QD29  | 16-17      |          | 11004750    | Coil nut                                     | 2                  |
| QD30  | 16-17      |          | 11027883    | Cap                                          | 2                  |
| QD100 | 16-17      |          | 11147943    | Automotive control kit, 24v, manual override | 1                  |

## Controls

### H1P control R4

R4 configuration



Generic housing shown

\* Included in overhaul seal kit Q210



## Controls

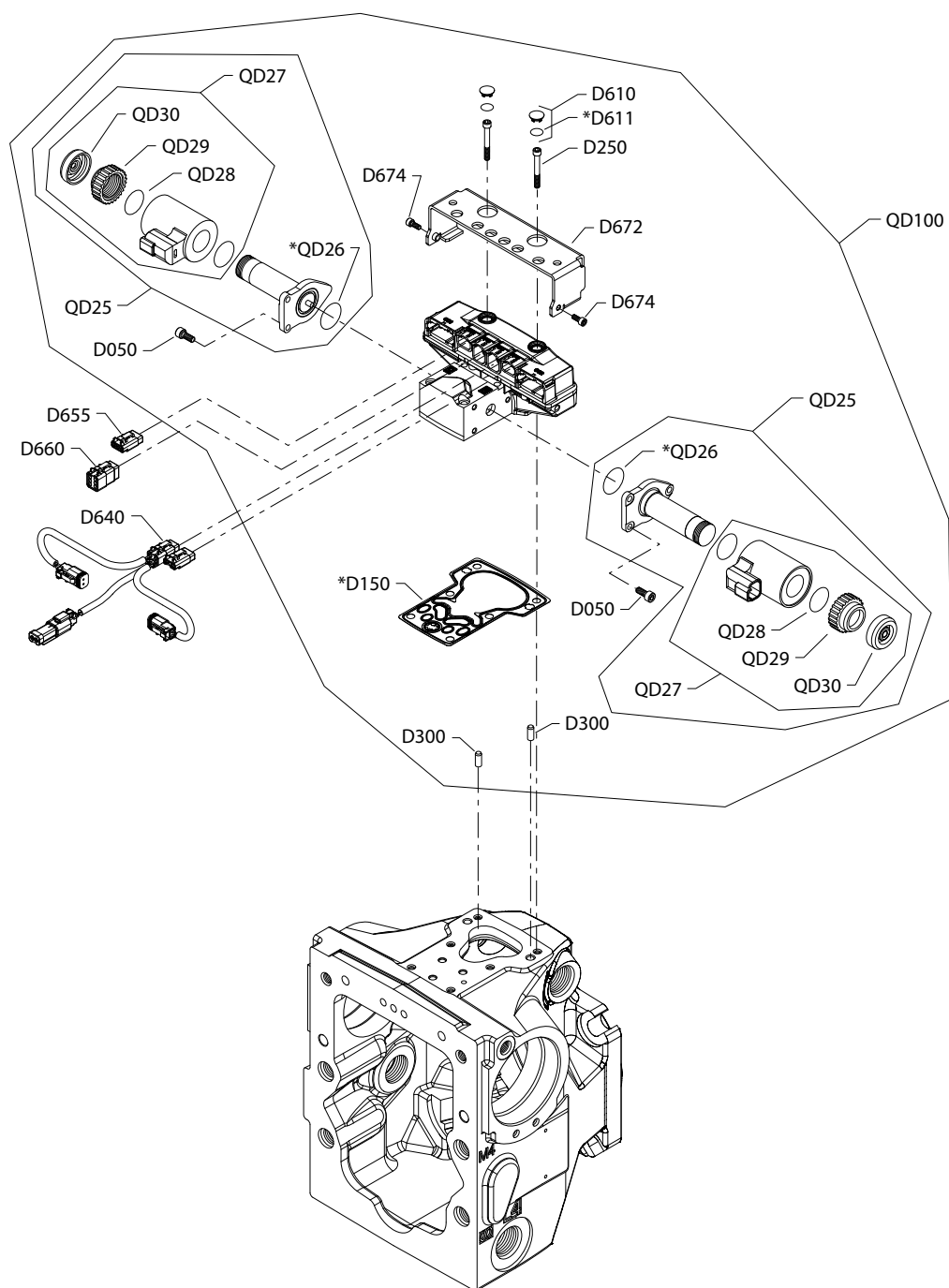
Order code: R4

| Item  | Date Begin | Date End | Part Number | Part Name                                    | Qty. per Model/Kit |
|-------|------------|----------|-------------|----------------------------------------------|--------------------|
| D050  | 17-15      |          | 716860      | Screw, M5 x 12                               | 6                  |
| D150  | 17-15      |          | 11227209    | Control gasket                               | 1                  |
| D200  | 17-15      |          | 141472      | Screw, special                               | 1                  |
| D250  | 17-15      |          | 505038      | Screw, M6 x 45                               | 6                  |
| D300  | 17-15      |          | 11036469    | Dowel pin                                    | 2                  |
| D450  | 17-15      |          | 11003097    | Magnetic carrier                             | 1                  |
| D610  | 17-15      |          | 11000467    | Plug assembly                                | 2                  |
| D611  | 17-15      |          | 11066774    | O-ring                                       | 2                  |
| D640  | 17-15      |          | 11084822    | Blank, connector DTM 06-6S                   | 1                  |
| D655  | 17-15      |          | 11084827    | Blank, connector DTM 06-3S                   | 1                  |
| D660  | 17-15      |          | 11084822    | Blank, connector DTM 06-6S                   | 1                  |
| D665  | 17-15      |          | 11084827    | Blank, connector DTM 06-3S                   | 1                  |
| D672  | 17-15      |          | 11151875    | Protection                                   | 1                  |
| D674  | 17-15      |          | 716860      | Screw, M5 x 12                               | 2                  |
| QD25  | 17-15      |          | 140750      | Proportional solenoid, 12 volt               | 2                  |
| QD26  | 17-15      |          | 11001952    | O-ring                                       | 2                  |
| QD27  | 17-15      |          | 11004698    | Coil kit, 12v, DEUTSCH connector             | 2                  |
| QD28  | 17-15      |          | 063172      | O-ring                                       | 2                  |
| QD29  | 17-15      |          | 11004749    | Coil nut                                     | 2                  |
| QD30  | 17-15      |          | 11027883    | Cap                                          | 2                  |
| QD100 | 17-15      |          | 11147940    | Automotive control kit, 12v, manual override | 1                  |

## Controls

### H1P control T6, T7

#### Parts configuration



Generic housing shown

\* Included in overhaul seal kit Q210

## Controls

Order code: T6

| Item  | Date Begin | Date End | Part Number | Part Name                                    | Qty. per Model/Kit |
|-------|------------|----------|-------------|----------------------------------------------|--------------------|
| D050  | 18-15      |          | 716860      | Screw, M5 x 12                               | 6                  |
| D150  | 18-15      |          | 11227209    | Control Gasket                               | 1                  |
| D250  | 18-15      |          | 505038      | Screw, M6 x 45                               | 6                  |
| D300  | 18-15      |          | 11036469    | Dowel pin                                    | 2                  |
| D610  | 18-15      |          | 11000467    | Plug assembly                                | 2                  |
| D611  | 18-15      |          | 11066774    | O-ring                                       | 1                  |
| D640  | 18-15      |          | 11197432    | AC wiring harness                            | 1                  |
| D655  | 18-15      |          | 11084827    | Blank, connector DTM 06-3S                   | 1                  |
| D660  | 18-15      |          | 11084822    | Blank, connector DTM 06-6S                   | 1                  |
| D665  | 18-15      |          | 11084827    | Blank, connector DTM 06-3S                   | 1                  |
| D672  | 18-15      |          | 11151875    | Protection                                   | 1                  |
| D674  | 18-15      |          | 716860      | Screw, M5 x 12                               | 2                  |
| QD100 | 18-15      |          | 11147941    | Automotive control kit, 12v, manual override | 1                  |
| QD25  | 18-15      |          | 140750      | Proportional solenoid, 12v                   | 2                  |
| QD26  | 18-15      |          | 11001952    | O-ring                                       | 2                  |
| QD27  | 18-15      |          | 11004698    | Coil kit, 12v, DEUTSCH connector             | 2                  |
| QD28  | 18-15      |          | 063172      | O-ring                                       | 2                  |
| QD29  | 18-15      |          | 11004749    | Coil nut                                     | 2                  |
| QD30  | 18-15      |          | 11027883    | Cap                                          | 2                  |

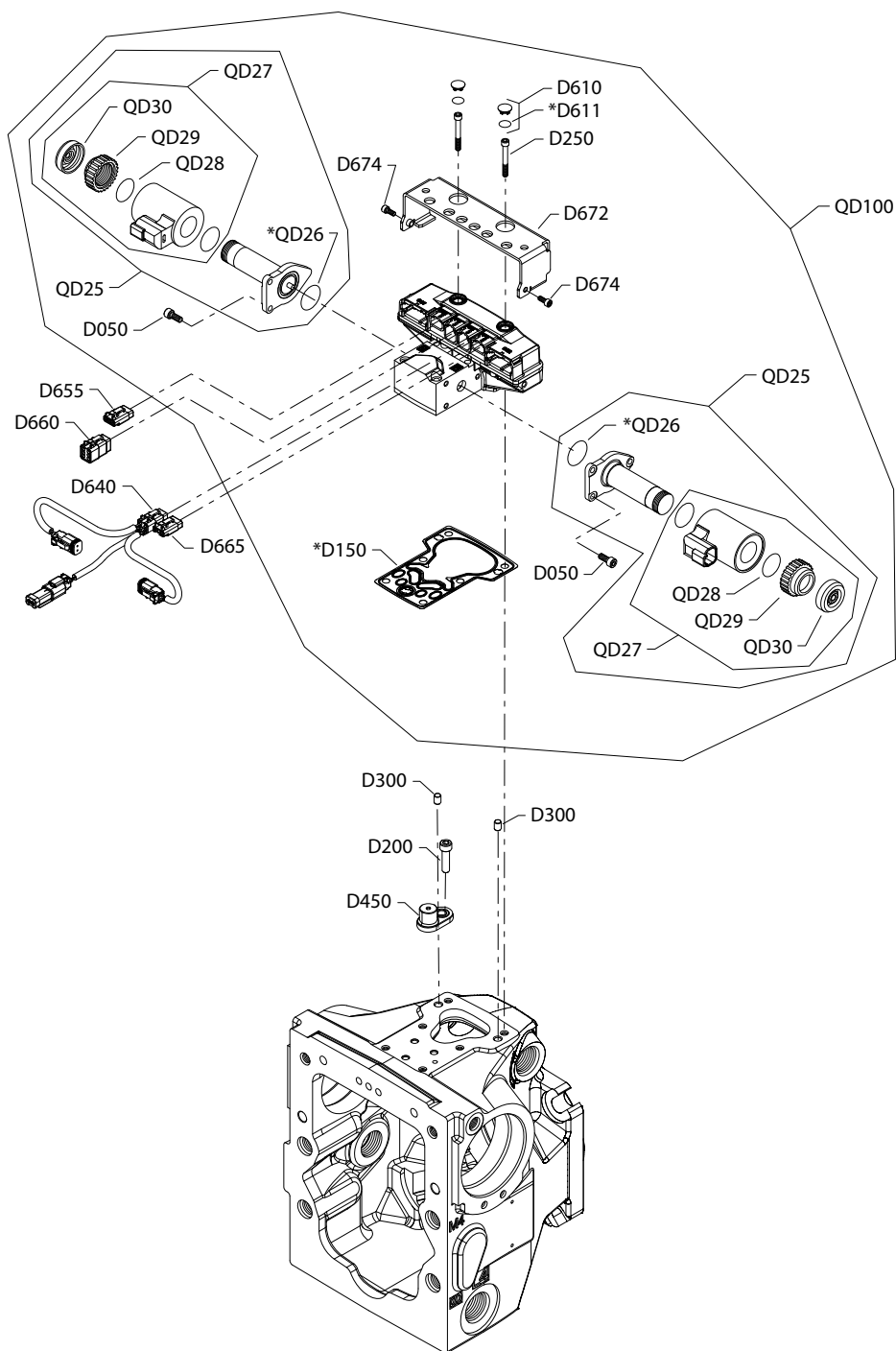
Order code: T7

|       |       |  |          |                                              |   |
|-------|-------|--|----------|----------------------------------------------|---|
| D050  | 18-15 |  | 716860   | Screw, M5 x 12                               | 6 |
| D150  | 18-15 |  | 11227209 | Control gasket                               | 1 |
| D250  | 18-15 |  | 505038   | Screw, M6 x 45                               | 6 |
| D300  | 18-15 |  | 11036469 | Dowel pin                                    | 2 |
| D610  | 18-15 |  | 11000467 | Plug assembly                                | 2 |
| D611  | 18-15 |  | 11066774 | O-ring                                       | 1 |
| D640  | 18-15 |  | 11197432 | AC wiring harness                            | 1 |
| D655  | 18-15 |  | 11084827 | Blank, connector DTM 06-3S                   | 1 |
| D660  | 18-15 |  | 11084822 | Blank, connector DTM 06-6S                   | 1 |
| D665  | 18-15 |  | 11084827 | Blank, connector DTM 06-3S                   | 1 |
| D672  | 18-15 |  | 11151875 | Protection                                   | 1 |
| D674  | 18-15 |  | 716860   | Screw, M5 x 12                               | 2 |
| QD100 | 18-15 |  | 11147943 | Automotive control kit, 24v, manual override | 1 |
| QD25  | 18-15 |  | 140751   | Proportional solenoid, 24v                   | 2 |
| QD26  | 18-15 |  | 11001952 | O-ring                                       | 2 |
| QD27  | 18-15 |  | 11004700 | Coil kit, 24v, DEUTSCH connector             | 2 |
| QD28  | 18-15 |  | 063172   | O-ring                                       | 2 |
| QD29  | 18-15 |  | 11004750 | Coil nut                                     | 2 |
| QD30  | 18-15 |  | 11027883 | Cap                                          | 2 |

## Controls

### H1P control T8, T9

#### Parts configuration



Generic housing shown

\* Included in overhaul seal kit Q210

## Controls

Order code: T8

| Item  | Date Begin | Date End | Part Number | Part Name                                    | Qty. per Model/Kit |
|-------|------------|----------|-------------|----------------------------------------------|--------------------|
| D050  | 18-12      |          | 716860      | Screw, M5 x 12                               | 6                  |
| D150  | 18-12      |          | 11227209    | Control gasket                               | 1                  |
| D200  | 18-12      |          | 141472      | Screw, special                               | 1                  |
| D250  | 18-12      |          | 505038      | Screw, M6 x 45                               | 6                  |
| D300  | 18-12      |          | 11036469    | Dowel pin                                    | 2                  |
| D450  | 18-12      |          | 11003097    | Magnet carrier                               | 1                  |
| D610  | 18-12      |          | 11000467    | Plug assembly                                | 2                  |
| D611  | 18-12      |          | 11066774    | O-ring                                       | 1                  |
| D640  | 18-12      |          | 11197432    | AC wiring harness                            | 1                  |
| D655  | 18-12      |          | 11084827    | Blank, connector DTM 06-3S                   | 1                  |
| D660  | 18-12      |          | 11084822    | Blank, connector DTM 06-6S                   | 1                  |
| D665  | 18-12      |          | 11084827    | Blank, connector DTM 06-3S                   | 1                  |
| D672  | 18-12      |          | 11151875    | Protection                                   | 1                  |
| D674  | 18-12      |          | 716860      | Screw, M5 x 12                               | 2                  |
| QD100 | 18-12      |          | 11147940    | Automotive control kit, 12v, manual override | 1                  |
| QD25  | 18-12      |          | 140750      | Proportional solenoid, 12v                   | 2                  |
| QD26  | 18-12      |          | 11001952    | O-ring                                       | 2                  |
| QD27  | 18-12      |          | 11004698    | Coil kit, 12v, DEUTSCH connector             | 2                  |
| QD28  | 18-12      |          | 063172      | O-ring                                       | 2                  |
| QD29  | 18-12      |          | 11004749    | Coil nut                                     | 2                  |
| QD30  | 18-12      |          | 11027883    | Cap                                          | 2                  |

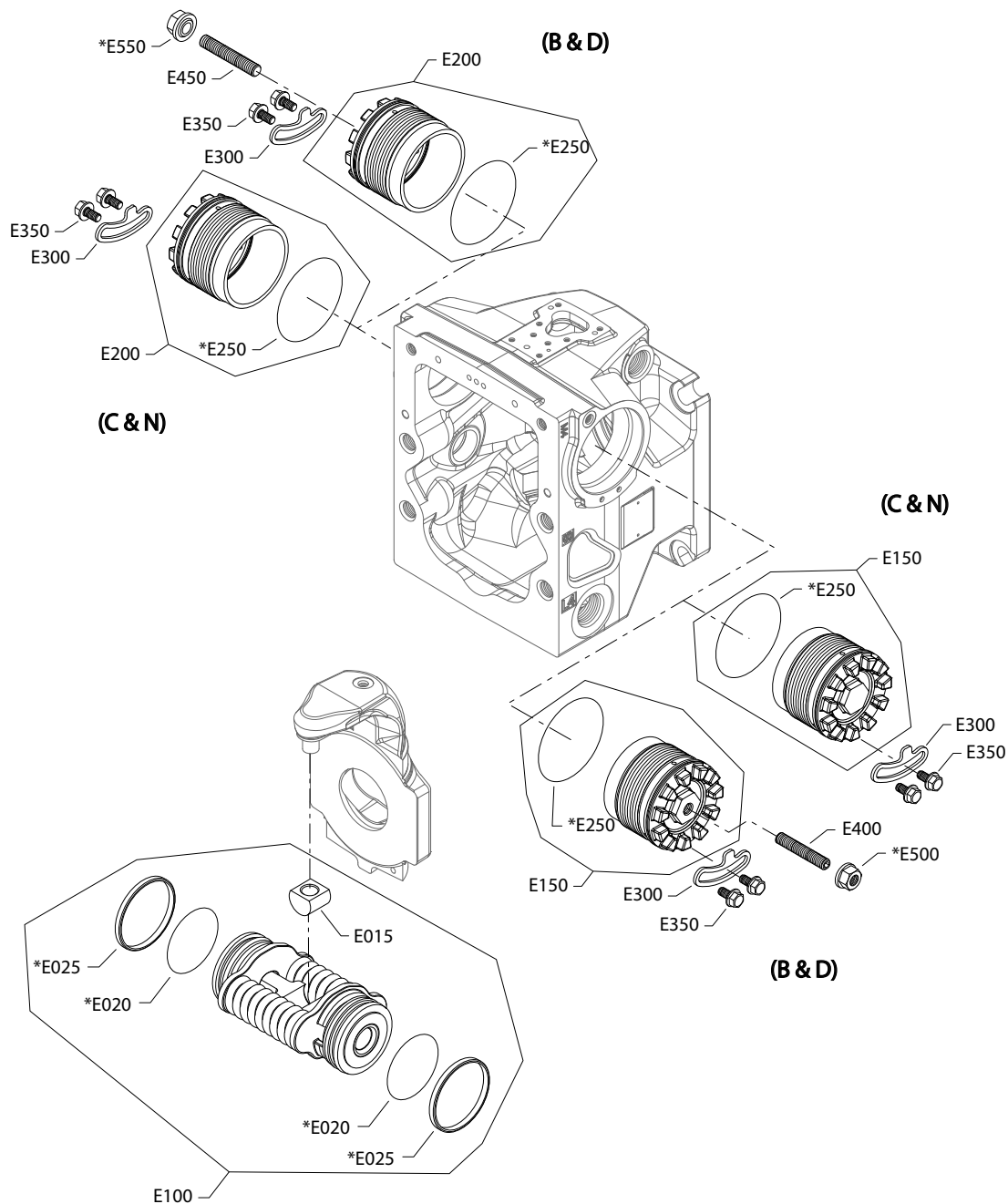
Order code: T9

|       |       |  |          |                                              |   |
|-------|-------|--|----------|----------------------------------------------|---|
| D150  | 18-12 |  | 11227209 | Control gasket                               | 1 |
| D200  | 18-12 |  | 141472   | Screw, special                               | 1 |
| D250  | 18-12 |  | 505038   | Screw, M6 x 45                               | 6 |
| D450  | 18-12 |  | 11003097 | Magnet carrier                               | 1 |
| D610  | 18-12 |  | 11000467 | Plug assembly                                | 2 |
| D611  | 18-12 |  | 11066774 | O-ring                                       | 1 |
| D640  | 18-12 |  | 11197432 | AC wiring harness                            | 1 |
| D655  | 18-12 |  | 11084827 | Blank, connector DTM 06-3S                   | 1 |
| D660  | 18-12 |  | 11084822 | Blank, connector DTM 06-6S                   | 1 |
| D665  | 18-15 |  | 11084827 | Blank, connector DTM 06-3S                   | 1 |
| D672  | 18-12 |  | 11151875 | Protection                                   | 1 |
| D674  | 18-12 |  | 716860   | Screw, M5 x 12                               | 2 |
| QD100 | 18-12 |  | 11147942 | Automotive control kit, 24v, manual override | 1 |
| QD25  | 18-12 |  | 140751   | Proportional solenoid, 24v                   | 2 |
| QD26  | 18-12 |  | 11001952 | O-ring                                       | 2 |
| QD27  | 18-12 |  | 11004700 | Coil kit, 24v, DEUTSCH connector             | 2 |
| QD28  | 18-12 |  | 063172   | O-ring                                       | 2 |
| QD29  | 18-12 |  | 11004750 | Coil nut                                     | 2 |
| QD30  | 18-12 |  | 11027883 | Cap                                          | 2 |

## Displacement limitation

### H1P Displacement limitation

#### Parts configuration



\* Included in overhaul seal kit Q210

## Displacement limitation

### Common parts

| Item | Date Begin | Date End | Part Number | Part Name      | Qty. per Model/Kit |
|------|------------|----------|-------------|----------------|--------------------|
| E015 | 14-01      |          | 11141992    | Slider block   | 1                  |
| E020 | 14-01      |          | 545434      | O-ring         | 2                  |
| E025 | 14-01      |          | 11075562    | Piston ring    | 2                  |
| E250 | 14-01      |          | 733295      | O-ring         | 2                  |
| E300 | 14-01      |          | 11033382    | Locking plate  | 2                  |
| E350 | 14-01      |          | 508438      | Screw, M6 x 12 | 4                  |

### Order code: B

|      |       |  |          |                         |   |
|------|-------|--|----------|-------------------------|---|
| E100 | 14-01 |  | 11061435 | Servo piston assembly   | 1 |
| E150 | 14-01 |  | 11089776 | Servo cylinder assembly | 1 |
| E200 | 14-01 |  | 11089776 | Servo cylinder assembly | 1 |
| E400 | 14-01 |  | 11000798 | Set screw               | 1 |
| E450 | 14-01 |  | 11000798 | Set screw               | 1 |
| E500 | 14-01 |  | 649822   | Seal nut, M14           | 1 |
| E550 | 14-01 |  | 649822   | Seal nut, M14           | 1 |

### Order code: C

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| E100 | 14-01 |  | 11061436 | Servo piston assy. w/nested springs | 1 |
| E150 | 14-01 |  | 11089777 | Servo cylinder assembly             | 1 |
| E200 | 14-01 |  | 11089777 | Servo cylinder assembly             | 1 |

### Order code: D

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| E100 | 14-01 |  | 11061436 | Servo piston assy. w/nested springs | 1 |
| E150 | 14-01 |  | 11089776 | Servo cylinder assembly             | 1 |
| E200 | 14-01 |  | 11089776 | Servo cylinder assembly             | 1 |
| E400 | 14-01 |  | 11000798 | Set screw                           | 1 |
| E450 | 14-01 |  | 11000798 | Set screw                           | 1 |
| E500 | 14-01 |  | 649822   | Seal nut, M14                       | 1 |
| E550 | 14-01 |  | 649822   | Seal nut, M14                       | 1 |

### Order code: N

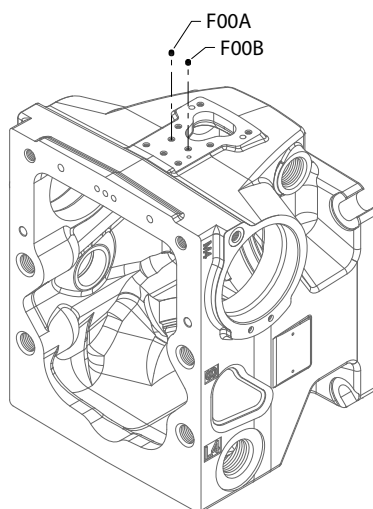
|      |       |  |          |                         |   |
|------|-------|--|----------|-------------------------|---|
| E100 | 14-01 |  | 11061435 | Servo piston assembly   | 1 |
| E150 | 14-01 |  | 11089777 | Servo cylinder assembly | 1 |
| E200 | 14-01 |  | 11089777 | Servo cylinder assembly | 1 |

## Orifice

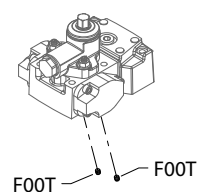
### H1P orifice C-D

Parts configuration

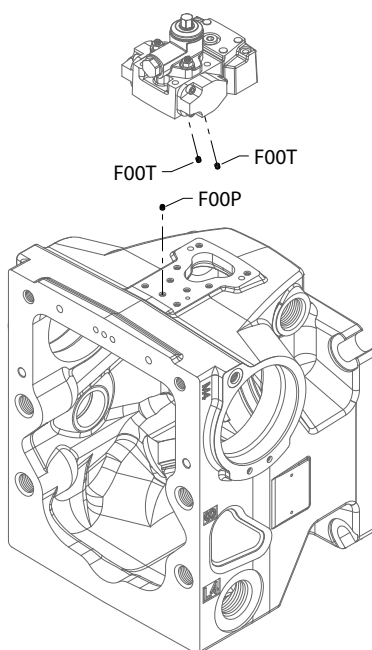
**(C1, C2, C4, D8, E1)**



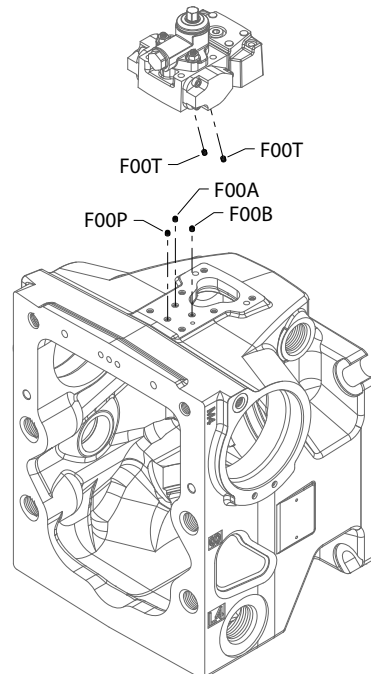
**(C6 & C7)**



**(D3 & D6)**



**(D4)**



E103 361E

Generic controls and housings shown.



## Orifice

### Order code: C1

| Item | Date Begin | Date End | Part Number | Part Name                  | Qty. per Model/Kit |
|------|------------|----------|-------------|----------------------------|--------------------|
| F00A | 14-01      |          | 140611      | Orifice, 0.8, M6 x 0.75 mm | 1                  |
| F00B | 14-01      |          | 140611      | Orifice, 0.8, M6 x 0.75 mm | 1                  |

### Order code: C2

|      |       |  |        |                            |   |
|------|-------|--|--------|----------------------------|---|
| F00A | 14-01 |  | 140754 | Orifice, 1.3, M6 x 0.75 mm | 1 |
| F00B | 14-01 |  | 140754 | Orifice, 1.3, M6 x 0.75 mm | 1 |

### Order code: C3

|          |  |  |  |  |  |
|----------|--|--|--|--|--|
| No parts |  |  |  |  |  |
|----------|--|--|--|--|--|

### Order code: C4

|      |       |  |        |                            |   |
|------|-------|--|--------|----------------------------|---|
| F00A | 14-01 |  | 140757 | Orifice, 1.8, M6 x 0.75 mm | 1 |
| F00B | 14-01 |  | 140757 | Orifice, 1.8, M6 x 0.75 mm | 1 |

### Order code: C6

|      |       |  |          |                            |   |
|------|-------|--|----------|----------------------------|---|
| F00T | 14-01 |  | 11151734 | Orifice, 1.0, M6 x 0.75 mm | 2 |
|------|-------|--|----------|----------------------------|---|

### Order code: C7

|      |       |  |        |                            |   |
|------|-------|--|--------|----------------------------|---|
| F00T | 14-01 |  | 140754 | Orifice, 1.3, M6 x 0.75 mm | 2 |
|------|-------|--|--------|----------------------------|---|

### Order code: D3

|      |       |  |          |                            |   |
|------|-------|--|----------|----------------------------|---|
| F00P | 14-01 |  | 140754   | Orifice, 1.3, M6 x 0.75 mm | 1 |
| F00T | 14-01 |  | 11151734 | Orifice, 1.0 M6 x 0.75 mm  | 2 |

### Order code: D4

|      |       |  |          |                            |   |
|------|-------|--|----------|----------------------------|---|
| F00A | 14-01 |  | 140754   | Orifice, 1.3, M6 x 0.75 mm | 1 |
| F00B | 14-01 |  | 140754   | Orifice, 1.3, M6 x 0.75 mm | 1 |
| F00P | 14-01 |  | 140754   | Orifice, 1.3, M6 x 0.75 mm | 1 |
| F00T | 14-01 |  | 11151734 | Orifice, 1.0 M6 x 0.75 mm  | 2 |

### Order code: D6

|      |       |  |        |                            |   |
|------|-------|--|--------|----------------------------|---|
| F00P | 14-01 |  | 140754 | Orifice, 1.3, M6 x 0.75 mm | 1 |
| F00T | 14-01 |  | 140754 | Orifice, 1.3, M6 x 0.75 mm | 2 |

### Order code: D8

|      |       |  |          |                           |   |
|------|-------|--|----------|---------------------------|---|
| F00A | 17-07 |  | 11189557 | Orifice, 2.3, M6 x 0.75mm | 1 |
| F00B | 17-07 |  | 11189557 | Orifice, 2.3, M6 x 0.75mm | 1 |

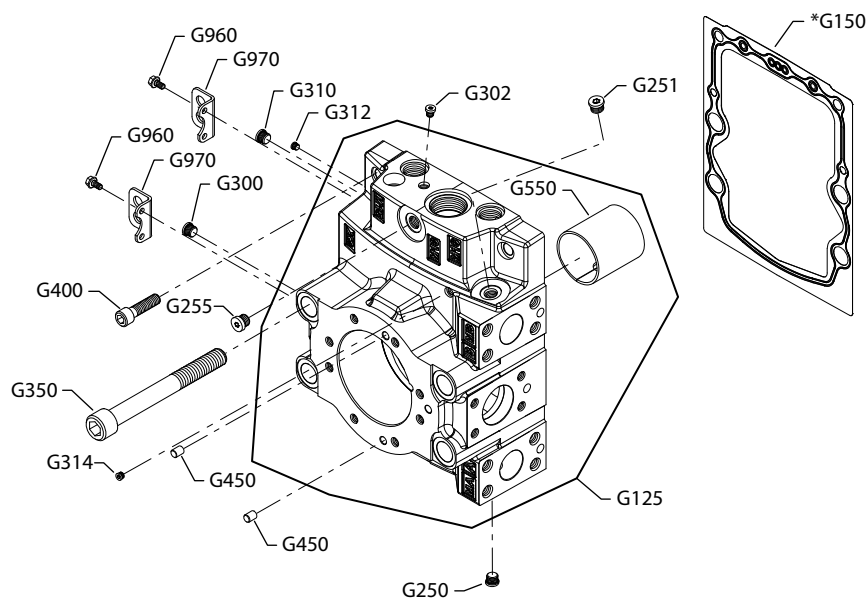
### Order code: E1

|      |       |  |          |                         |   |
|------|-------|--|----------|-------------------------|---|
| F00A | 17-09 |  | 11151734 | Orifice, 1.0, M6 x 0.75 | 1 |
| F00B | 17-09 |  | 11151734 | Orifice, 1.0, M6 x 0.75 | 1 |

## End cap

### H1P 210/250cc end cap D4

Parts configuration



This option is only available in metric configurations.

\* Included in overhaul seal kit Q210

## End cap

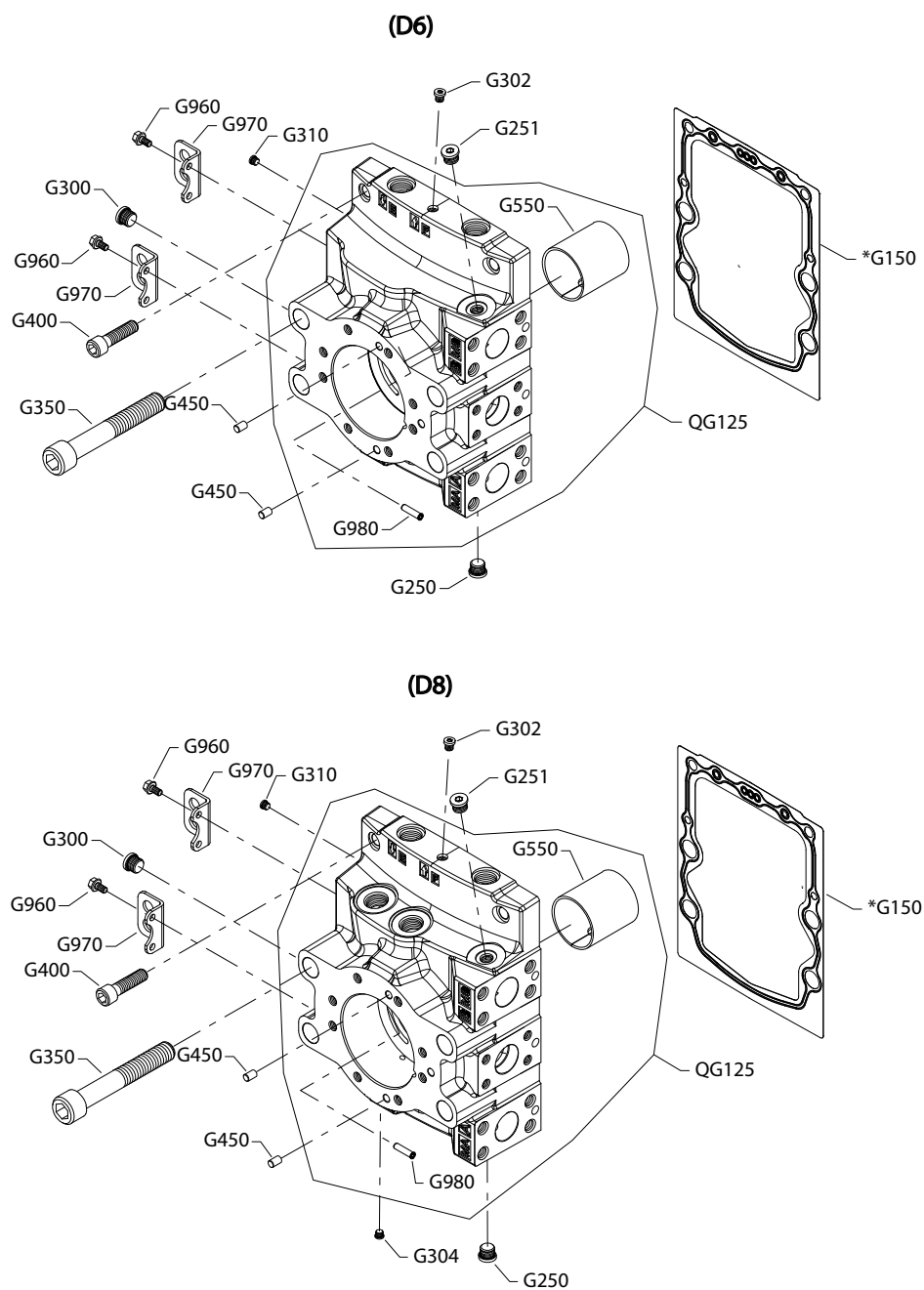
Order code: D4

| Item | Date Begin | Date End | Part Number  | Part Name           | Qty. per Model/Kit |
|------|------------|----------|--------------|---------------------|--------------------|
| G125 | 16-42      |          | 11185406     | End cap assembly    | 1                  |
| G150 | 16-42      |          | 11061613     | End cap gasket      | 1                  |
| G250 | 16-42      |          | 11178808     | Plug assembly       | 1                  |
| G251 | 16-42      |          | 11178808     | Plug assembly       | 1                  |
| G255 | 16-42      |          | 11178808     | Plug assembly       | 1                  |
| G300 | 16-42      |          | 11178808     | Plug assembly       | 1                  |
| G302 | 16-42      |          | 11040532     | Plug assembly       | 1                  |
| G310 | 16-42      |          | 11178808     | Plug assembly       | 1                  |
| G312 | 16-42      |          | 11040532     | Plug assembly       | 1                  |
| G350 | 16-42      |          | 11061858     | Screw, M24 x 180    | 4                  |
| G400 | 16-42      |          | 11061859     | Screw, M14 x 55     | 2                  |
| G450 | 16-42      |          | 9004800-3708 | Dowel pin           | 2                  |
| G550 | 16-42      |          | 11061889     | Journal bearing     | 1                  |
| G960 | 16-42      |          | 508438       | Screw, M6 x 12      | 4                  |
| G970 | 16-42      |          | 4460311      | Lifting bracket     | 2                  |
| G980 | 16-42      |          | 11000229     | Lubrication orifice | 1                  |

## End cap

### H1P 210/250cc end cap D6, D8

*D6 and D8 configuration*



\* Included in overhaul seal kit Q210

## End cap

### Common parts

| Item | Date Begin | Date End | Part Number  | Part Name           | Qty. per Model/Kit |
|------|------------|----------|--------------|---------------------|--------------------|
| G150 | 14-01      |          | 11061613     | End cap gasket      | 1                  |
| G250 | 14-01      |          | 140644       | Plug assembly       | 1                  |
| G251 | 14-01      |          | 140644       | Plug assembly       | 1                  |
| G300 | 14-01      |          | 140644       | Plug assembly       | 1                  |
| G302 | 14-01      |          | 11040532     | Plug assembly       | 1                  |
| G310 | 14-01      |          | 11040532     | Plug assembly       | 1                  |
| G350 | 14-01      |          | 11061858     | Screw, M24 x 180    | 4                  |
| G400 | 14-01      |          | 11061859     | Screw, M14 x 55     | 2                  |
| G450 | 14-01      |          | 9004800-3708 | Dowel pin           | 2                  |
| G550 | 14-01      |          | 11061889     | Journal bearing     | 1                  |
| G960 | 14-01      |          | 508438       | Screw, M6 x 12      | 4                  |
| G970 | 14-01      |          | 4460311      | Lifting bracket     | 2                  |
| G980 | 14-01      |          | 11000229     | Lubrication orifice | 1                  |

### Order code: D6

|      |       |  |          |                       |   |
|------|-------|--|----------|-----------------------|---|
| G125 | 14-01 |  | 11061890 | End cap assembly, CW  | 1 |
| G125 | 14-01 |  | 11061915 | End cap assembly, CCW | 1 |

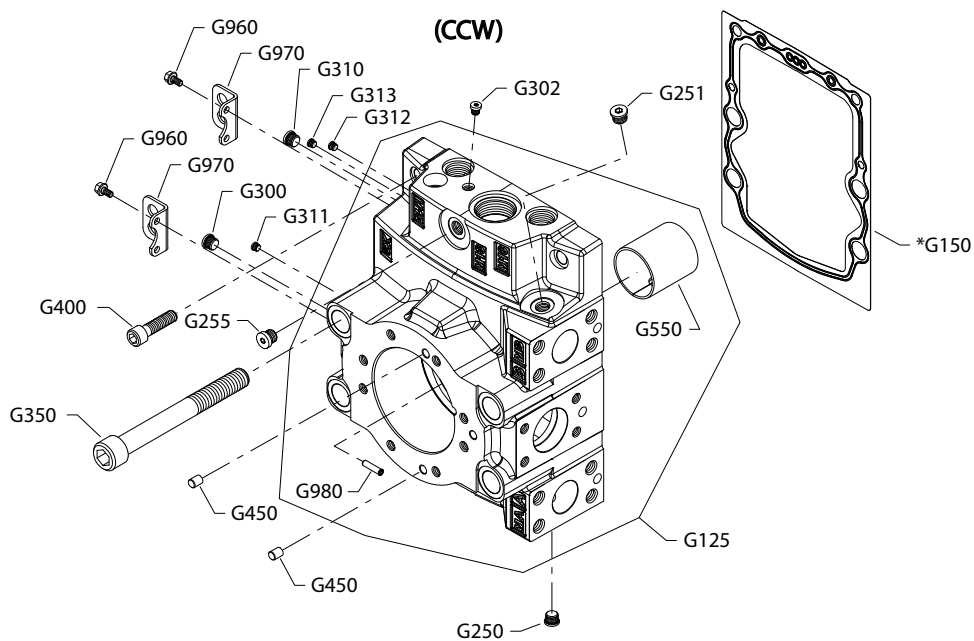
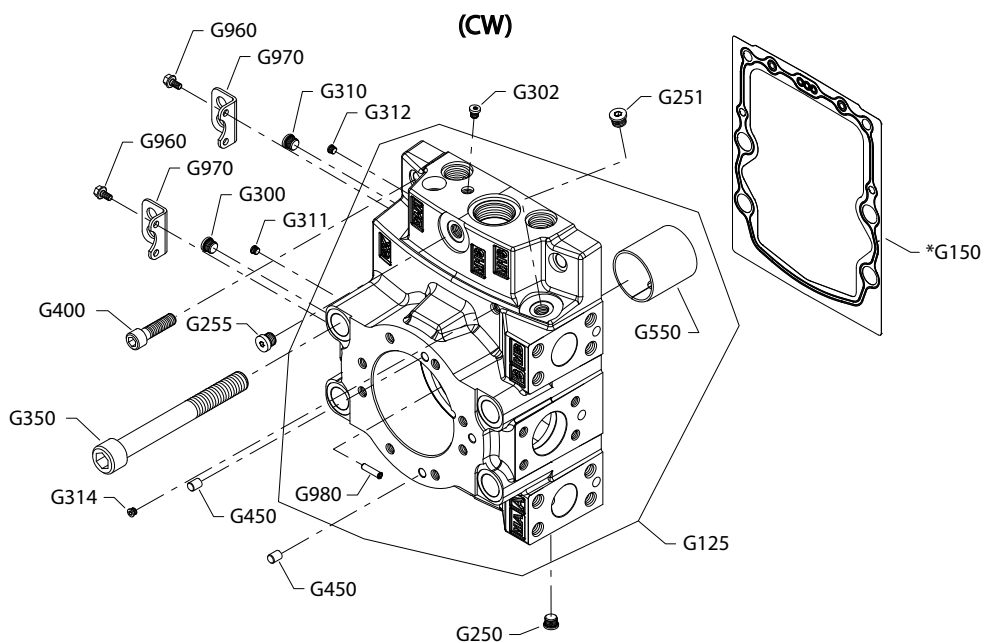
### Order code: D8

|      |       |  |          |                       |   |
|------|-------|--|----------|-----------------------|---|
| G125 | 14-01 |  | 11061913 | End cap assembly, CW  | 1 |
| G125 | 14-01 |  | 11061917 | End cap assembly, CCW | 1 |

## End cap

### H1P 210/250cc end cap J1

*J1 (clockwise and counterclockwise) configuration*



\* Included in overhaul seal kit Q210

Option J1 (CW) is available in SAE and metric. Please order accordingly.

## End cap

### Common parts

| Item | Date Begin | Date End | Part Number  | Part Name           | Qty. per Model/Kit |
|------|------------|----------|--------------|---------------------|--------------------|
| G150 | 14-01      |          | 11061613     | End cap gasket      | 1                  |
| G250 | 14-01      |          | 140644       | Plug assembly (SAE) | 1                  |
| G251 | 14-01      |          | 140644       | Plug assembly (SAE) | 1                  |
| G255 | 14-01      |          | 140644       | Plug assembly (SAE) | 1                  |
| G300 | 14-01      |          | 140644       | Plug assembly (SAE) | 1                  |
| G302 | 14-01      |          | 11040532     | Plug assembly (SAE) | 1                  |
| G310 | 14-01      |          | 140644       | Plug assembly (SAE) | 1                  |
| G311 | 14-01      |          | 11040532     | Plug assembly (SAE) | 1                  |
| G350 | 14-01      |          | 11061858     | Screw, M24 x 180    | 4                  |
| G400 | 14-01      |          | 11061859     | Screw, M14 x 55     | 2                  |
| G450 | 14-01      |          | 9004800-3708 | Dowel pin           | 2                  |
| G550 | 14-01      |          | 11061889     | Journal bearing     | 1                  |
| G960 | 14-01      |          | 508438       | Screw, M6 x 12      | 4                  |
| G970 | 14-01      |          | 4460311      | Lifting bracket     | 2                  |
| G980 | 14-01      |          | 11000229     | Lubrication orifice | 1                  |

### Order code: J1 (CW)

|      |       |  |          |                           |   |
|------|-------|--|----------|---------------------------|---|
| G125 | 14-01 |  | 11147364 | End cap assembly          | 1 |
| G125 | 14-01 |  | 11164438 | End cap assembly (metric) | 1 |
| G250 | 14-01 |  | 11178808 | Plug assembly (metric)    | 1 |
| G251 | 14-01 |  | 11178808 | Plug assembly (metric)    | 1 |
| G255 | 14-01 |  | 11178808 | Plug assembly (metric)    | 1 |
| G300 | 14-01 |  | 11178808 | Plug assembly (metric)    | 1 |
| G310 | 14-01 |  | 11178808 | Plug assembly (metric)    | 1 |
| G312 | 14-01 |  | 11040532 | Plug assembly (SAE)       | 2 |

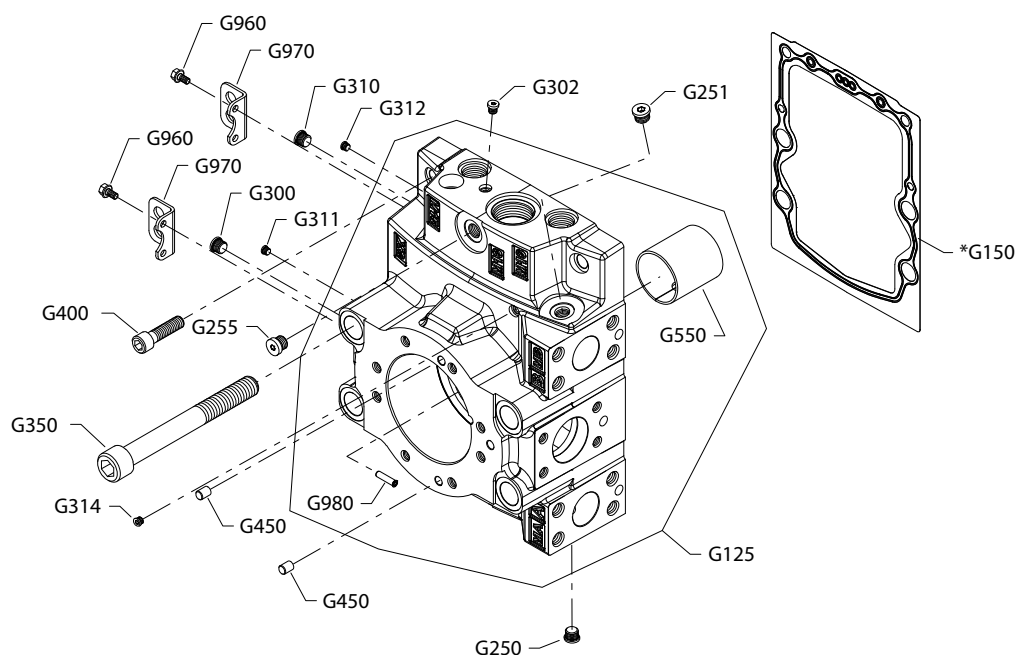
### Order code: J1 (CCW)

|      |       |  |          |                  |   |
|------|-------|--|----------|------------------|---|
| G125 | 14-01 |  | 11168442 | End cap assembly | 1 |
| G312 | 14-01 |  | 11040532 | Plug assembly    | 1 |

## End cap

### H1P 210/250cc end cap J4

*J4 configuration*



\* Included in overhaul seal kit Q210



## End cap

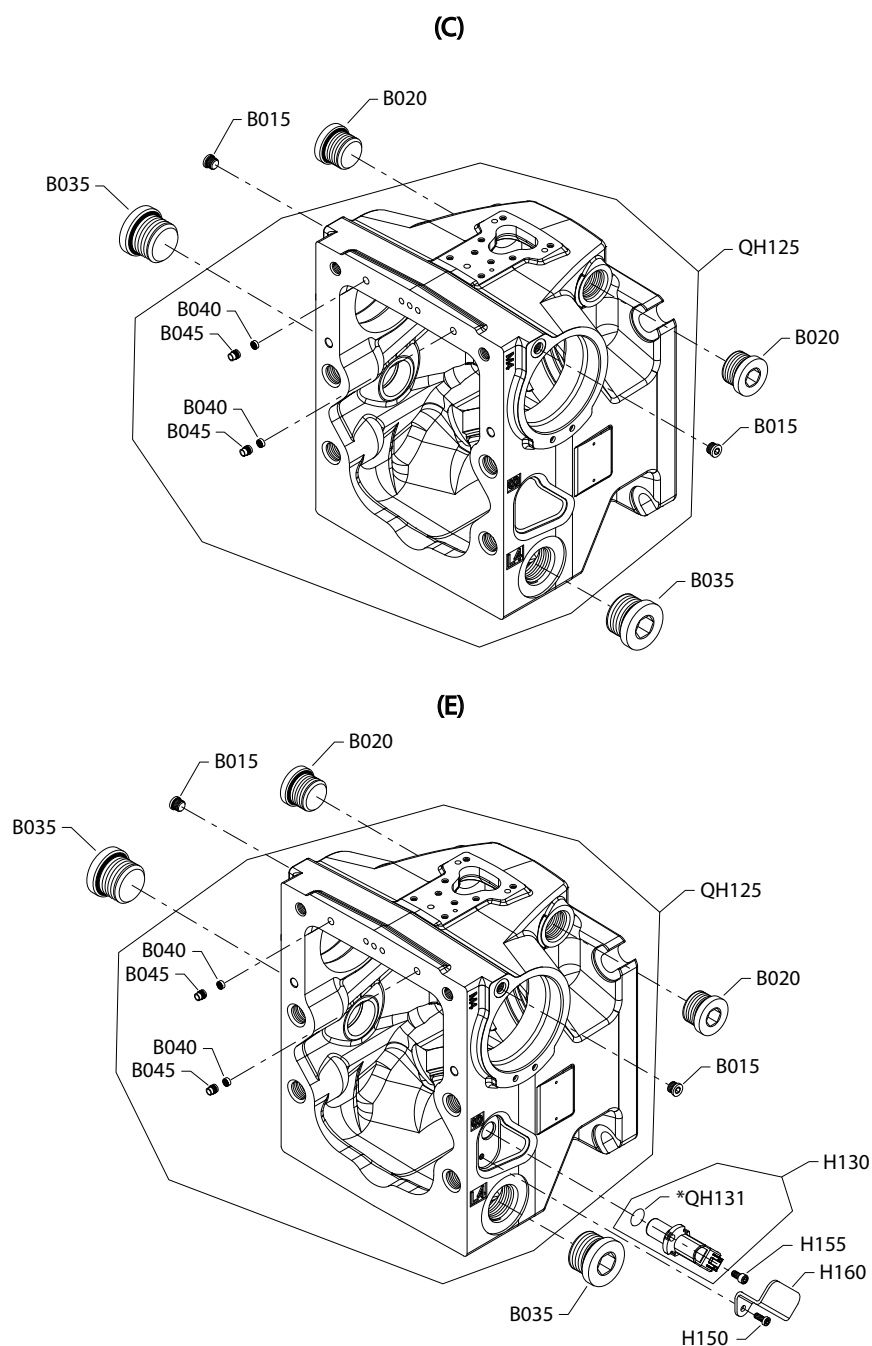
Order code: J4

| Item | Date Begin | Date End | Part Number  | Part Name            | Qty. per Model/Kit |
|------|------------|----------|--------------|----------------------|--------------------|
| G125 | 14-01      |          | 11169764     | End cap assembly, CW | 1                  |
| G150 | 14-01      |          | 11061613     | End cap gasket       | 1                  |
| G250 | 14-01      |          | 140644       | Plug assembly        | 1                  |
| G251 | 14-01      |          | 140644       | Plug assembly        | 1                  |
| G252 | 14-01      |          | 140644       | Plug assembly        | 1                  |
| G255 | 14-01      |          | 140644       | Plug assembly        | 1                  |
| G300 | 14-01      |          | 140644       | Plug assembly        | 1                  |
| G302 | 14-01      |          | 11040532     | Plug assembly        | 1                  |
| G310 | 14-01      |          | 140644       | Plug assembly        | 1                  |
| G311 | 14-01      |          | 11040532     | Plug assembly        | 1                  |
| G312 | 14-01      |          | 11040532     | Plug assembly        | 1                  |
| G314 | 14-01      |          | 11040532     | Plug assembly        | 1                  |
| G350 | 14-01      |          | 11061858     | Screw, M24 x 180     | 4                  |
| G400 | 14-01      |          | 11061859     | Screw, M14 x 55      | 2                  |
| G450 | 14-01      |          | 9004800-3708 | Dowel pin            | 2                  |
| G550 | 14-01      |          | 11061889     | Journal bearing      | 1                  |
| G960 | 14-01      |          | 508438       | Screw, M6 x 12       | 4                  |
| G970 | 14-01      |          | 4460311      | Lifting bracket      | 2                  |
| G980 | 14-01      |          | 11000229     | Lubrication orifice  | 1                  |

## Housing

### H1P 210/250cc housing C, E

*C and E configuration*



\* Included in overhaul seal kit Q210

Option C is available in SAE and metric. Please order accordingly.

## Housing

### Common parts

| Item | Date Begin | Date End | Part Number           | Part Name                | Qty. per Model/Kit |
|------|------------|----------|-----------------------|--------------------------|--------------------|
| B015 | 14-01      |          | 140642                | Plug assembly (SAE)      | 2                  |
| B020 | 14-01      |          | 320002 (9005110-9200) | Plug assembly (SAE)      | 2                  |
| B035 | 14-01      |          | 676734 (9005110-9500) | Plug assembly (SAE)      | 2                  |
| B040 | 14-01      |          | 140967                | Screen, 8 mm, 125 micron | 2                  |
| B045 | 14-01      |          | 11062684              | Screen retainer          | 2                  |

### Order code: C

|       |       |  |          |                             |   |
|-------|-------|--|----------|-----------------------------|---|
| B015  | 14-01 |  | 5000572  | Plug assembly, M12 (metric) | 2 |
| B020  | 14-01 |  | 11164204 | Plug assembly, M33 (metric) | 2 |
| B035  | 14-01 |  | 11164205 | Plug assembly, M42 (metric) | 2 |
| QH125 | 14-01 |  | 11078868 | Housing assembly (SAE)      | 1 |
| QH125 | 14-01 |  | 11164609 | Housing assembly (metric)   | 1 |

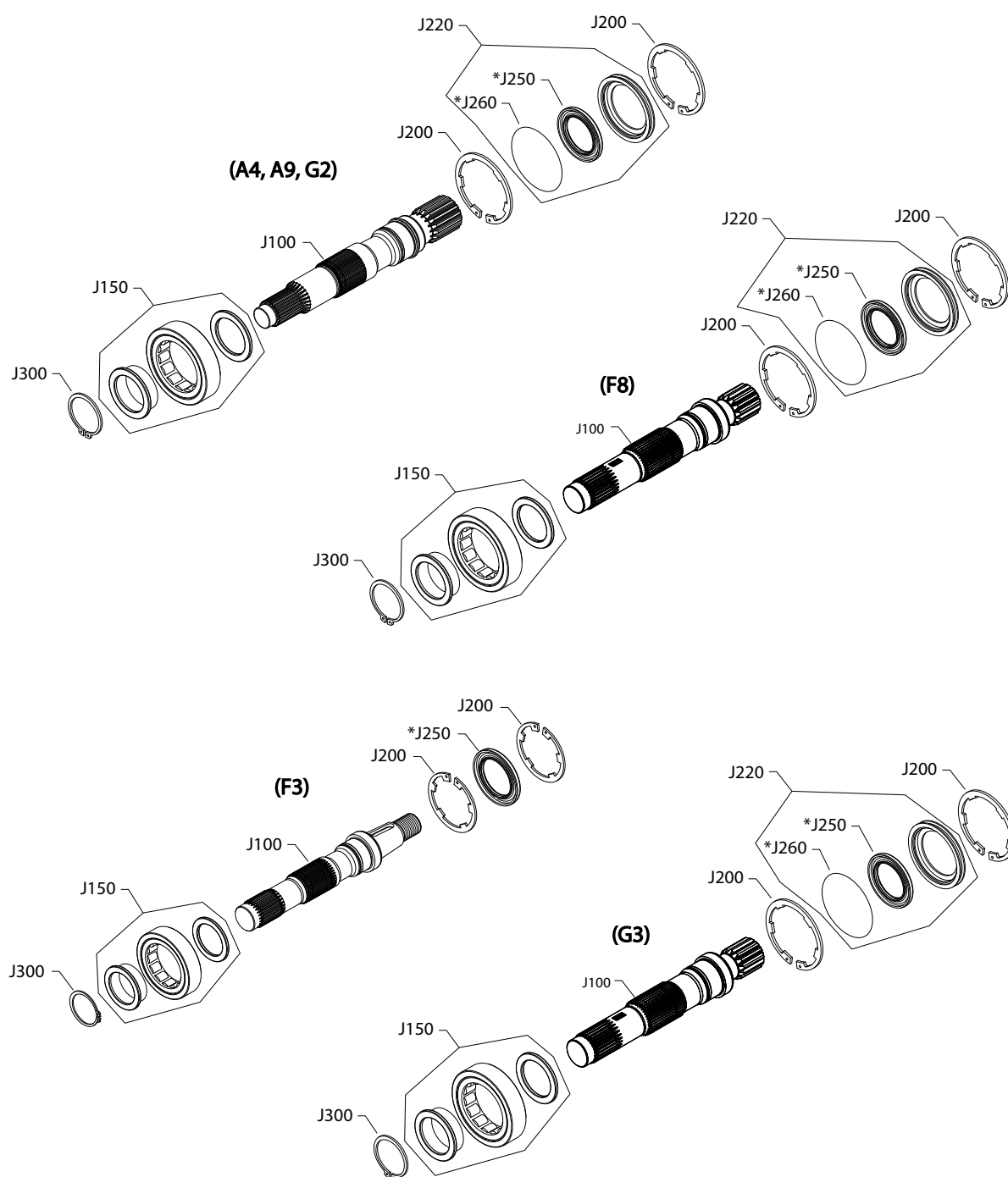
### Order code: E

|       |       |  |          |                        |   |
|-------|-------|--|----------|------------------------|---|
| H130  | 14-01 |  | 149055   | Speed sensor assembly  | 1 |
| H150  | 14-01 |  | 508438   | Screw, M6 x 12         | 1 |
| H155  | 14-01 |  | 376749   | Screw, M6 x 12         | 1 |
| H160  | 14-01 |  | 11186383 | Speed sensor protector | 1 |
| QH125 | 14-01 |  | 11078867 | Housing assembly       | 1 |
| QH131 | 14-01 |  | 11013397 | O-ring                 | 1 |

## Shaft

### H1P 210/250cc shaft A4-G3

#### Shaft configuration



\* Included in overhaul seal kit

## Shaft

Order code: A4

| Item | Date Begin | Date End | Part Number | Part Name                                                              | Qty. per Model/Kit |
|------|------------|----------|-------------|------------------------------------------------------------------------|--------------------|
| J100 | 17-37      |          | 11179446    | Shaft, 27 tooth spline, M16 ( <a href="#">SB-2018-008</a> on page 135) | 1                  |
| J150 | 14-01      |          | 11031971    | Roller bearing                                                         | 1                  |
| J200 | 14-01      |          | 11062141    | Retaining ring                                                         | 2                  |
| J220 | 14-01      |          | 11061439    | Shaft seal assembly                                                    | 1                  |
| J250 | 14-01      |          | 11024711    | Lip seal                                                               | 1                  |
| J260 | 14-01      |          | 056754      | O-ring                                                                 | 1                  |
| J300 | 14-01      |          | 11062140    | Retaining ring                                                         | 1                  |

Order code: A9

|      |       |  |          |                                                                   |   |
|------|-------|--|----------|-------------------------------------------------------------------|---|
| J100 | 17-37 |  | 11179947 | Shaft, 27 tooth spline ( <a href="#">SB-2018-008</a> on page 135) | 1 |
| J150 | 15-08 |  | 11031971 | Roller bearing                                                    | 1 |
| J200 | 15-08 |  | 11062141 | Retaining ring                                                    | 2 |
| J220 | 15-08 |  | 11157700 | Shaft seal assembly                                               | 1 |
| J250 | 15-08 |  | 11066133 | Lip seal                                                          | 1 |
| J260 | 15-08 |  | 056754   | O-ring                                                            | 1 |
| J300 | 15-08 |  | 11062140 | Retaining ring                                                    | 1 |

Order code: F3

|      |       |  |          |                                                                   |   |
|------|-------|--|----------|-------------------------------------------------------------------|---|
| J100 | 17-36 |  | 11179450 | Shaft, 17 tooth spline ( <a href="#">SB-2018-008</a> on page 135) | 1 |
| J150 | 11-20 |  | 11031971 | Roller bearing                                                    | 1 |
| J200 | 11-20 |  | 11062141 | Retaining ring                                                    | 2 |
| J220 | 11-20 |  | 11061439 | Shaft seal assembly                                               | 1 |
| J250 | 11-20 |  | 11024711 | Lip seal                                                          | 1 |
| J260 | 11-20 |  | 056754   | O-ring                                                            | 1 |
| J300 | 11-20 |  | 11062140 | Retaining ring                                                    | 1 |

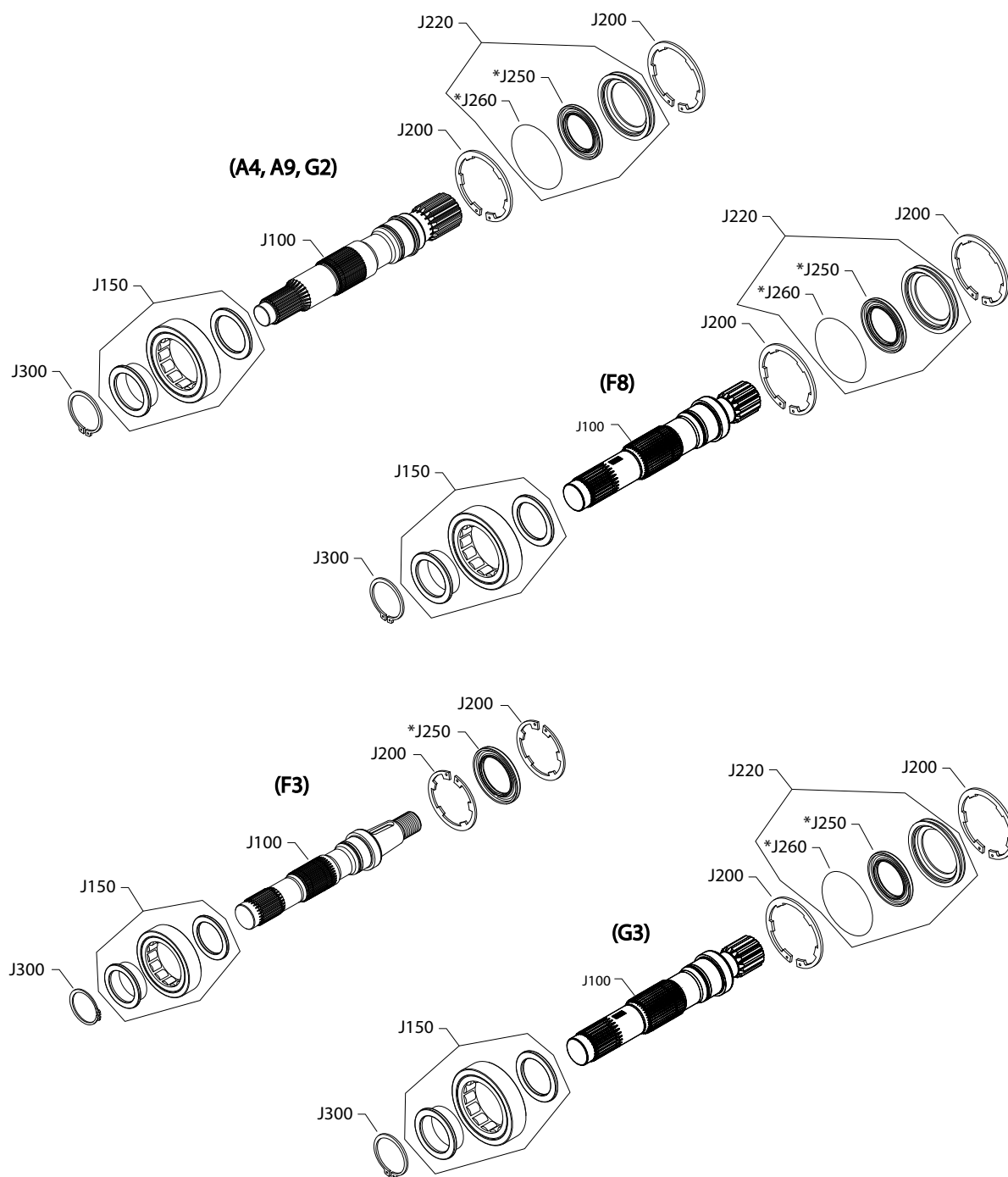
Order code: F8

|      |       |  |          |                                                                   |   |
|------|-------|--|----------|-------------------------------------------------------------------|---|
| J100 | 17-37 |  | 11179448 | Shaft, 17 tooth spline ( <a href="#">SB-2018-008</a> on page 135) | 1 |
| J150 | 14-01 |  | 11031971 | Roller bearing                                                    | 1 |
| J200 | 14-01 |  | 11062141 | Retaining ring                                                    | 2 |
| J220 | 14-01 |  | 11061439 | Shaft seal assembly                                               | 1 |
| J250 | 14-01 |  | 11024711 | Lip seal                                                          | 1 |
| J260 | 14-01 |  | 056754   | O-ring                                                            | 1 |
| J300 | 14-01 |  | 11062140 | Retaining ring                                                    | 1 |

[Parts continue to the next 2 pages.](#)

## Shaft

### Shaft configuration



\* Included in overhaul seal kit

## Shaft

Order code: G2

| Item | Date Begin | Date End | Part Number | Part Name                                                         | Qty. per Model/Kit |
|------|------------|----------|-------------|-------------------------------------------------------------------|--------------------|
| J100 | 17-37      |          | 11179447    | Shaft, 27 tooth spline ( <a href="#">SB-2018-008</a> on page 135) | 1                  |
| J150 | 14-01      |          | 11031971    | Roller bearing                                                    | 1                  |
| J200 | 14-01      |          | 11062141    | Retaining ring                                                    | 2                  |
| J220 | 14-01      |          | 11061439    | Shaft seal assembly                                               | 1                  |
| J250 | 14-01      |          | 11024711    | Lip seal                                                          | 1                  |
| J260 | 14-01      |          | 056754      | O-ring                                                            | 1                  |
| J300 | 14-01      |          | 11062140    | Retaining ring                                                    | 1                  |

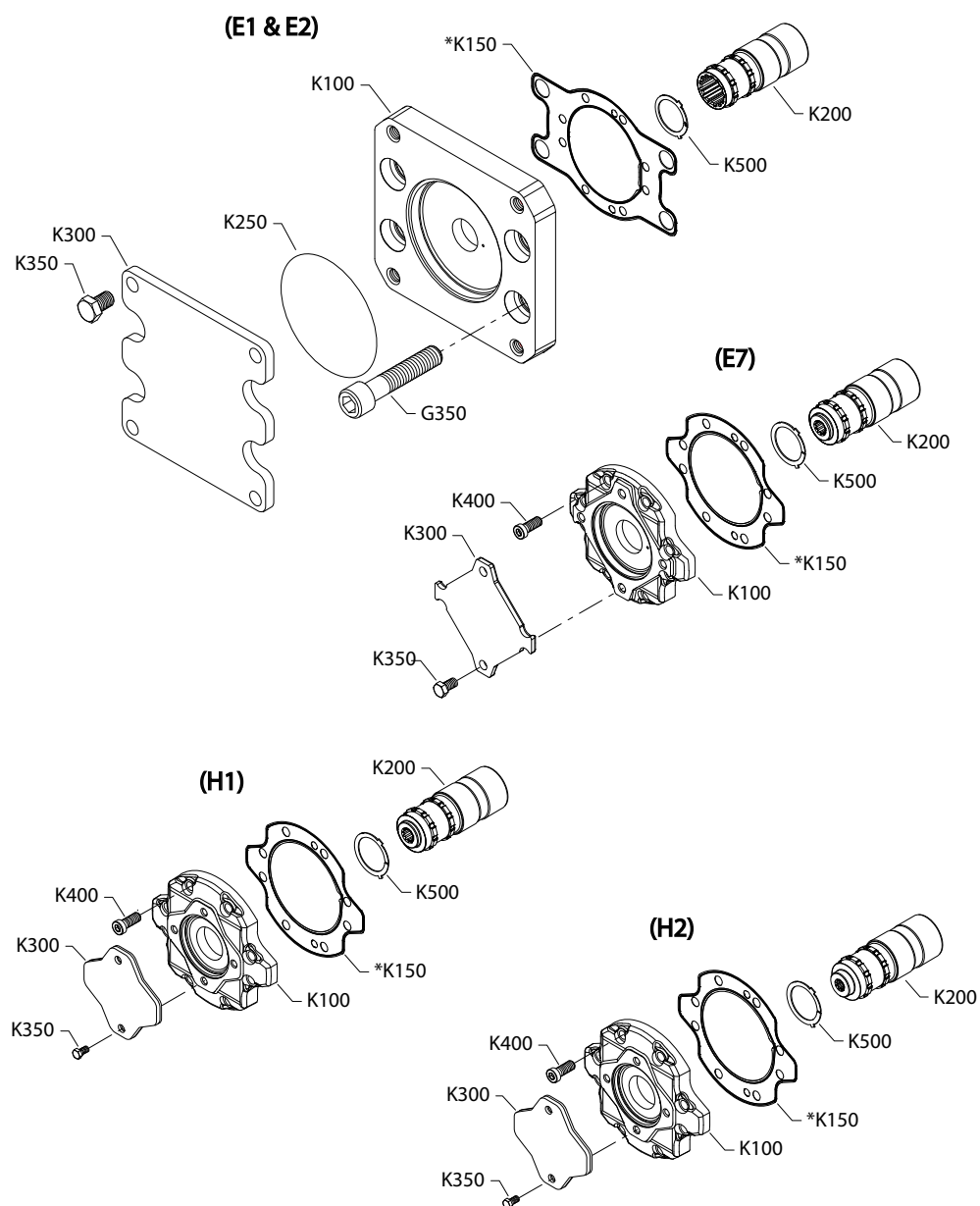
Order code: G3

|      |       |  |          |                                                                   |   |
|------|-------|--|----------|-------------------------------------------------------------------|---|
| J100 | 17-37 |  | 11179449 | Shaft, 13 tooth spline ( <a href="#">SB-2018-008</a> on page 135) | 1 |
| J150 | 14-01 |  | 11031971 | Roller bearing                                                    | 1 |
| J200 | 14-01 |  | 11062141 | Retaining ring                                                    | 2 |
| J220 | 14-01 |  | 11061439 | Shaft seal assembly                                               | 1 |
| J250 | 14-01 |  | 11024711 | Lip seal                                                          | 1 |
| J260 | 14-01 |  | 056754   | O-ring                                                            | 1 |
| J300 | 14-01 |  | 11062140 | Retaining ring                                                    | 1 |

## Auxiliary mounting

### H1P 210/250cc aux mounting E1-H2

#### Parts configuration



\* Included in overhaul seal kit Q210



## Auxiliary mounting

Order code: E1

| Item | Date Begin | Date End | Part Number | Part Name                   | Qty. per Model/Kit |
|------|------------|----------|-------------|-----------------------------|--------------------|
| K100 | 14-01      |          | 11069794    | Adapter flange, SAE E       | 1                  |
| K150 | 14-01      |          | 11069670    | Adapter seal                | 1                  |
| K200 | 14-01      |          | 11031960    | Charge pump shaft, 13 tooth | 1                  |
| K250 | 14-01      |          | 505068      | O-ring                      | 1                  |
| K300 | 14-01      |          | 11157214    | Flange cover                | 1                  |
| K350 | 14-01      |          | 11024165    | Screw, M20 x 30             | 2                  |
| K500 | 14-01      |          | 11001182    | Thrust washer               | 1                  |

Order code: E2

|      |       |  |          |                             |   |
|------|-------|--|----------|-----------------------------|---|
| K100 | 14-01 |  | 11069794 | Adapter flange, SAE E       | 1 |
| K150 | 14-01 |  | 11069670 | Adapter seal                | 1 |
| K200 | 14-01 |  | 11082010 | Charge pump shaft, 27 tooth | 1 |
| K250 | 14-01 |  | 505068   | O-ring                      | 1 |
| K300 | 14-01 |  | 11157214 | Flange cover                | 1 |
| K350 | 14-01 |  | 11024165 | Screw, M20 x 30             | 2 |
| K500 | 14-01 |  | 11001182 | Thrust washer               | 1 |

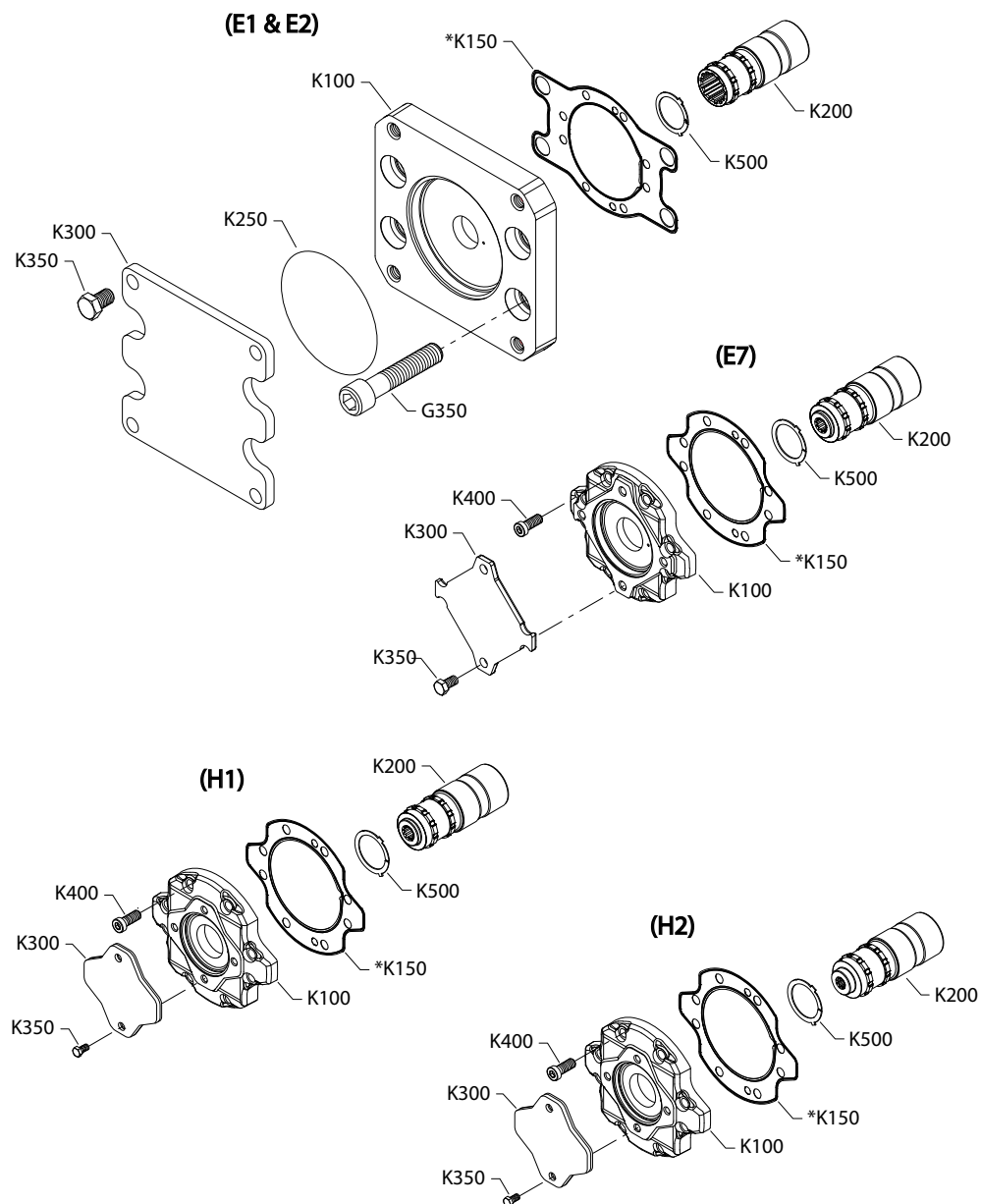
Order code: E7

|      |       |  |          |                             |   |
|------|-------|--|----------|-----------------------------|---|
| K100 | 16-08 |  | 11002192 | Adapter flange, SAE B       | 1 |
| K150 | 16-08 |  | 11002236 | Adapter seal                | 1 |
| K200 | 16-08 |  | 11138993 | Charge pump shaft, 15 tooth | 1 |
| K300 | 16-08 |  | 11023747 | Flange cover                | 1 |
| K350 | 16-08 |  | 509528   | Screw, M12 x 20             | 2 |
| K400 | 16-08 |  | 140700   | Screw, M12 x 30             | 8 |
| K500 | 16-08 |  | 11001182 | Thrust washer               | 1 |

[Parts continue to the next 2 pages.](#)

## Auxiliary mounting

### Parts configuration



\* Included in overhaul seal kit Q210

## Auxiliary mounting

Order code: H1

| Item | Date Begin | Date End | Part Number | Part Name                   | Qty. per Model/Kit |
|------|------------|----------|-------------|-----------------------------|--------------------|
| K100 | 14-01      |          | 11002191    | Adapter flange, SAE A       | 1                  |
| K150 | 14-01      |          | 11002236    | Adapter seal                | 1                  |
| K200 | 14-01      |          | 11031956    | Charge pump shaft, 11 tooth | 1                  |
| K300 | 14-01      |          | 11017125    | Flange cover                | 1                  |
| K350 | 14-01      |          | 370247      | Screw, M10 x 20             | 2                  |
| K400 | 14-01      |          | 140700      | Screw, M12 x 30             | 8                  |
| K500 | 14-01      |          | 11001182    | Thrust washer               | 1                  |

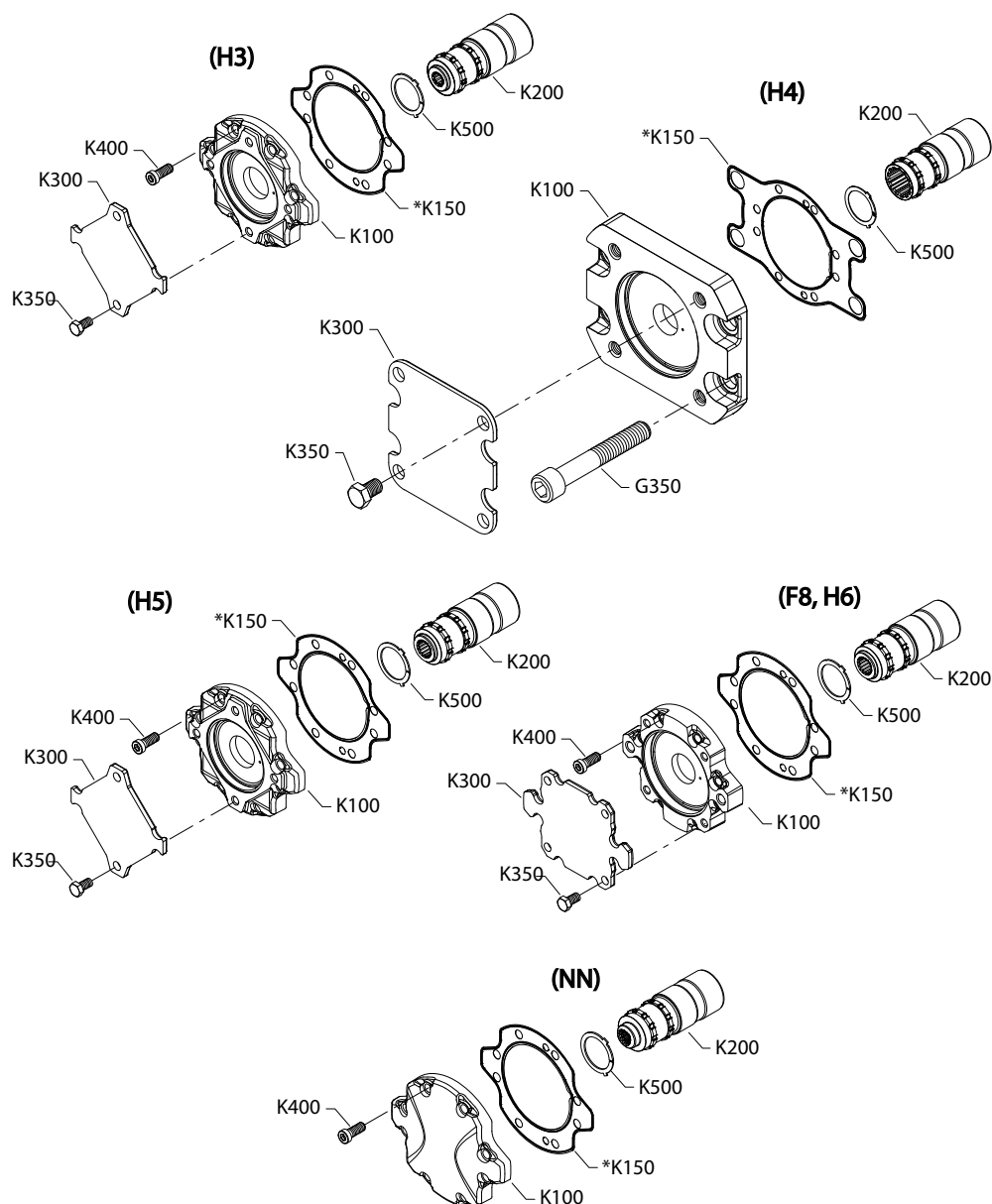
Order code: H2

|      |       |  |          |                            |   |
|------|-------|--|----------|----------------------------|---|
| K100 | 14-01 |  | 11002191 | Adapter flange, SAE A      | 1 |
| K150 | 14-01 |  | 11002236 | Adapter seal               | 1 |
| K200 | 14-01 |  | 11031955 | Charge pump shaft, 9 tooth | 1 |
| K300 | 14-01 |  | 11017125 | Flange cover               | 1 |
| K350 | 14-01 |  | 370247   | Screw, M10 x 20            | 2 |
| K400 | 14-01 |  | 140700   | Screw, M12 x 30            | 8 |
| K500 | 14-01 |  | 11001182 | Thrust washer              | 1 |

## Auxiliary mounting

### H1P 210/250cc aux mounting F8-NN

#### Parts configuration



\* Included in overhaul seal kit Q210

## Auxiliary mounting

Order code: F8

| Item | Date Begin | Date End | Part Number | Part Name                                | Qty. per Model/Kit |
|------|------------|----------|-------------|------------------------------------------|--------------------|
| K100 | 19-03      |          | 11138744    | Adapter flange, SAE C                    | 1                  |
| K150 | 19-03      |          | 11002236    | Adapter seal                             | 1                  |
| K200 | 19-03      |          | 11230582    | Charge pump shaft, 23 tooth, 16/32 pitch | 1                  |
| K300 | 19-03      |          | 11165485    | Flange cover                             | 1                  |
| K350 | 19-03      |          | 509528      | Screw, M12 x 20                          | 4                  |
| K400 | 19-03      |          | 140700      | Screw, M12 x 30                          | 8                  |
| K500 | 19-03      |          | 11001182    | Thrust washer                            | 1                  |

Order code: H3

|      |       |  |          |                                          |   |
|------|-------|--|----------|------------------------------------------|---|
| K100 | 14-01 |  | 11002192 | Adapter flange, SAE B                    | 1 |
| K150 | 14-01 |  | 11002236 | Adapter seal                             | 1 |
| K200 | 14-01 |  | 11031957 | Charge pump shaft, 13 tooth, 16/32 pitch | 1 |
| K300 | 14-01 |  | 11023747 | Flange cover                             | 1 |
| K350 | 14-01 |  | 509528   | Screw, M12 x 20                          | 2 |
| K400 | 14-01 |  | 140700   | Screw, M12 x 30                          | 8 |
| K500 | 14-01 |  | 11001182 | Thrust washer                            | 1 |

Order code: H4

|      |       |  |          |                                         |   |
|------|-------|--|----------|-----------------------------------------|---|
| K100 | 14-01 |  | 11069791 | Adapter flange, SAE D                   | 1 |
| K150 | 14-01 |  | 11069670 | Adapter seal                            | 1 |
| K200 | 14-01 |  | 11031960 | Charge pump shaft, 13 tooth, 8/16 pitch | 1 |
| K300 | 14-01 |  | 11023751 | Flange cover                            | 1 |
| K350 | 14-01 |  | 11024165 | Screw, M20 x 30                         | 4 |
| K500 | 14-01 |  | 11001182 | Thrust washer                           | 1 |

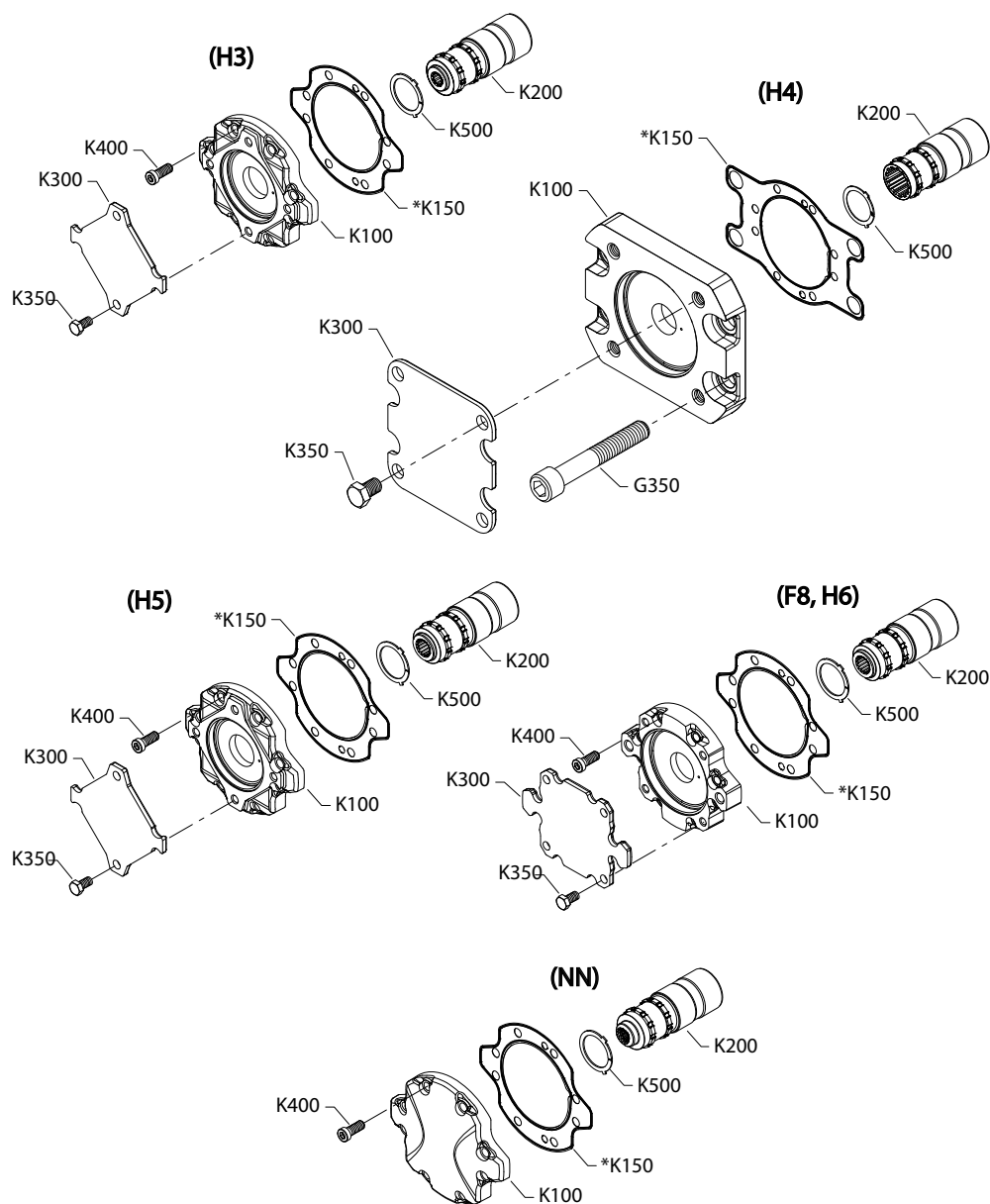
Order code: H5

|      |       |  |          |                                          |   |
|------|-------|--|----------|------------------------------------------|---|
| K100 | 14-01 |  | 11002192 | Adapter flange, SAE B                    | 1 |
| K150 | 14-01 |  | 11002236 | Adapter seal                             | 1 |
| K200 | 14-01 |  | 11031958 | Charge pump shaft, 15 tooth, 16/32 pitch | 1 |
| K300 | 14-01 |  | 11023747 | Flange cover                             | 1 |
| K350 | 14-01 |  | 509528   | Screw, M12 x 20                          | 2 |
| K400 | 14-01 |  | 140700   | Screw, M12 x 30                          | 8 |
| K500 | 14-01 |  | 11001182 | Thrust washer                            | 1 |

[Parts continue to the next 2 pages.](#)

## Auxiliary mounting

### Parts configuration



\* Included in overhaul seal kit Q210

## Auxiliary mounting

Order code: H6

| Item | Date Begin | Date End | Part Number | Part Name                                                        | Qty. per Model/Kit |
|------|------------|----------|-------------|------------------------------------------------------------------|--------------------|
| K100 | 14-01      |          | 11138744    | Adapter flange, SAE C ( <a href="#">SB-2018-036</a> on page 138) | 1                  |
| K150 | 14-01      |          | 11002236    | Adapter seal                                                     | 1                  |
| K200 | 14-01      |          | 11191011    | Charge pump shaft, 14 tooth, 12/24 pitch                         | 1                  |
| K300 | 14-01      |          | 11165485    | Flange cover                                                     | 1                  |
| K350 | 14-01      |          | 509528      | Screw, M12 x 20                                                  | 4                  |
| K400 | 14-01      |          | 140700      | Screw, M12 x 30 ( <a href="#">SB-2018-036</a> on page 138)       | 8                  |
| K500 | 14-01      |          | 11001182    | Thrust washer                                                    | 1                  |

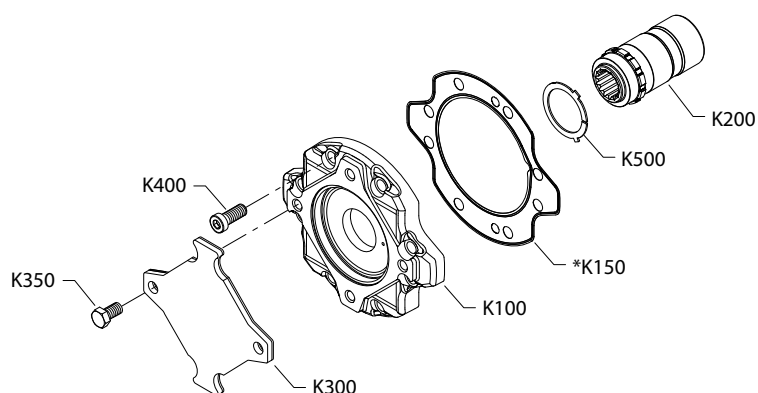
Order code: NN

|      |       |  |          |                                         |   |
|------|-------|--|----------|-----------------------------------------|---|
| K100 | 14-01 |  | 11002194 | Adapter flange, no pad                  | 1 |
| K150 | 14-01 |  | 11002236 | Adapter seal                            | 1 |
| K200 | 14-01 |  | 11031955 | Charge pump shaft, 9 tooth, 16/32 pitch | 1 |
| K400 | 14-01 |  | 140700   | Screw, M12 x 30                         | 8 |
| K500 | 14-01 |  | 11001182 | Thrust washer                           | 1 |

## Auxiliary mounting

### H1P 210/250cc aux mounting P6

*Parts configuration*





## Auxiliary mounting

Order code: P6

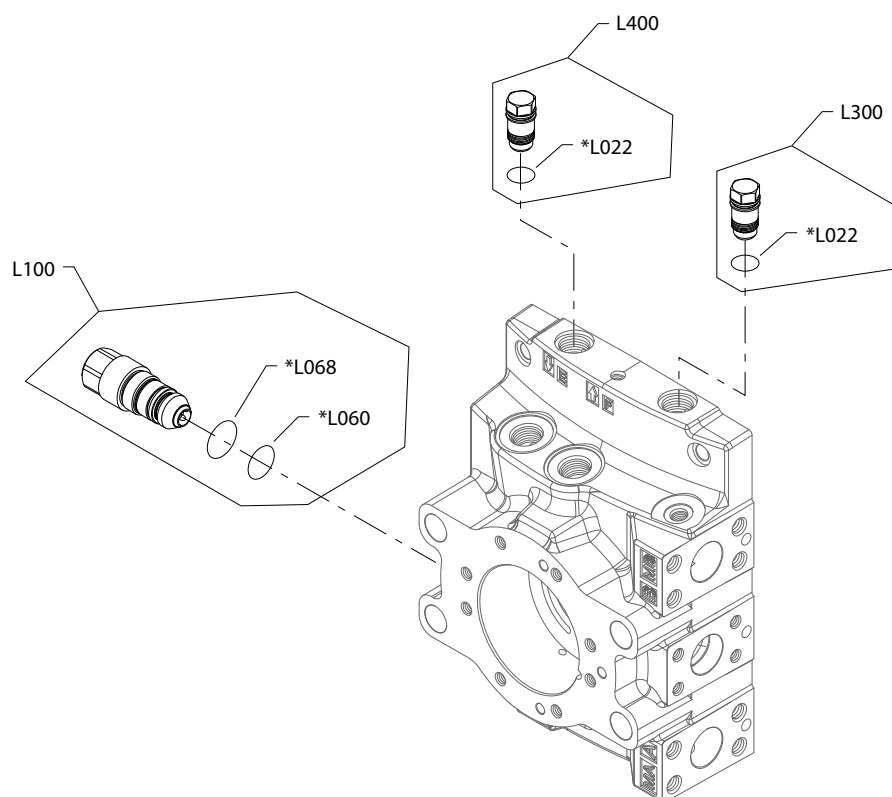
| Item | Date Begin | Date End | Part Number | Part Name                                | Qty. per Model/Kit |
|------|------------|----------|-------------|------------------------------------------|--------------------|
| K100 | 14-43      |          | 11002192    | Adapter flange assembly, SAE B           | 1                  |
| K150 | 14-43      |          | 11002236    | Adapter seal                             | 1                  |
| K200 | 14-43      |          | 11152424    | Charge pump shaft, 14 tooth, 12/24 pitch | 1                  |
| K300 | 14-43      |          | 11023747    | Cover                                    | 1                  |
| K350 | 14-43      |          | 509528      | Screw, M12 x 20                          | 2                  |
| K400 | 14-43      |          | 140700      | Screw, M12 x 30                          | 8                  |
| K500 | 14-43      |          | 11001182    | Thrust washer                            | 1                  |

## High pressure settings

### Port A

#### H1P 210/250cc high pressure setting K20-K46

*K20-K46 configuration*



Generic end cap shown

\* Included in overhaul seal kit Q210

## High pressure settings

### Common parts

| Item | Date Begin | Date End | Part Number | Part Name | Qty. per Model/Kit |
|------|------------|----------|-------------|-----------|--------------------|
| L022 | 14-01      |          | 504207      | O-ring    | 1                  |
| L060 | 14-01      |          | 365023      | O-ring    | 1                  |
| L068 | 14-01      |          | 11052201    | O-ring    | 1                  |

### Order code: K20

|      |       |  |          |                                                            |   |
|------|-------|--|----------|------------------------------------------------------------|---|
| L100 | 14-01 |  | 11049144 | High pressure relief valve, 200 bar                        | 1 |
| L300 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CCW rotation pump, 200 bar | 1 |
| L400 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CW rotation pump, 200 bar  | 1 |

### Order code: K23

|      |       |  |          |                                                            |   |
|------|-------|--|----------|------------------------------------------------------------|---|
| L100 | 14-01 |  | 11049146 | High pressure relief valve, 230 bar                        | 1 |
| L300 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CCW rotation pump, 230 bar | 1 |
| L400 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CW rotation pump, 230 bar  | 1 |

### Order code: K25

|      |       |  |          |                                                            |   |
|------|-------|--|----------|------------------------------------------------------------|---|
| L100 | 14-01 |  | 11049147 | High pressure relief valve, 250 bar                        | 1 |
| L300 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CCW rotation pump, 250 bar | 1 |
| L400 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CW rotation pump, 250 bar  | 1 |

### Order code: K28

|      |       |  |          |                                                            |   |
|------|-------|--|----------|------------------------------------------------------------|---|
| L100 | 14-01 |  | 11049148 | High pressure relief valve, 280 bar                        | 1 |
| L300 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CCW rotation pump, 280 bar | 1 |
| L400 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CW rotation pump, 280 bar  | 1 |

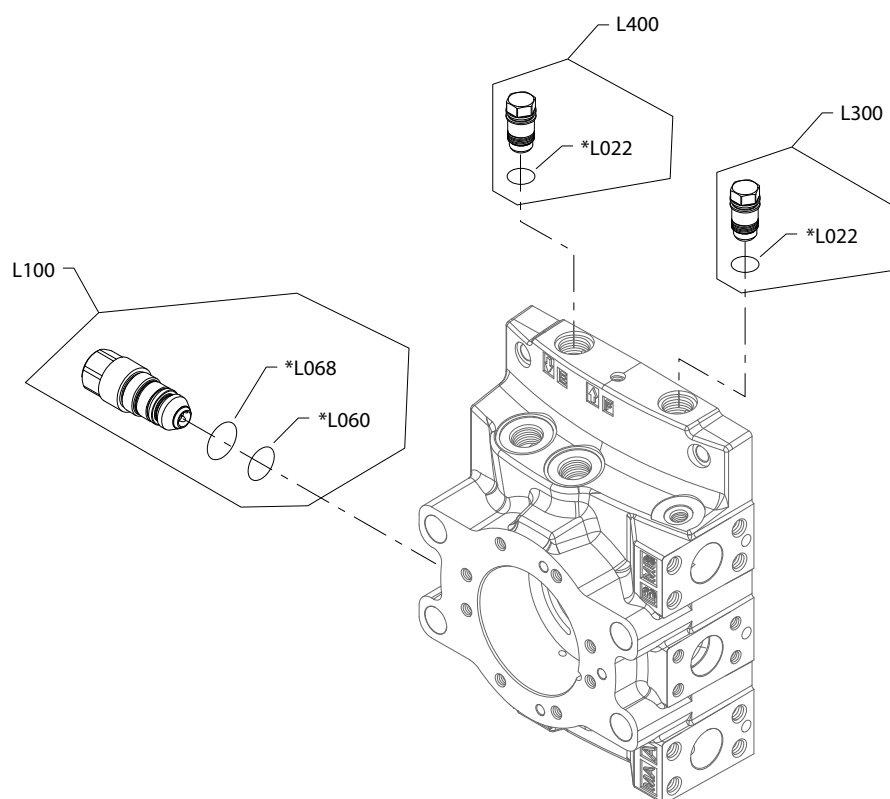
### Order code: K30

|      |       |  |          |                                                            |   |
|------|-------|--|----------|------------------------------------------------------------|---|
| L100 | 14-01 |  | 11049149 | High pressure relief valve, 300 bar                        | 1 |
| L300 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CCW rotation pump, 300 bar | 1 |
| L400 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CW rotation pump, 300 bar  | 1 |

[Parts continue to the next 2 pages.](#)

## High pressure settings

*K20-K46 configuration*



Generic end cap shown

\* Included in overhaul seal kit Q210

## High pressure settings

Order code: K33

| Item | Date Begin | Date End | Part Number | Part Name                                                  | Qty. per Model/Kit |
|------|------------|----------|-------------|------------------------------------------------------------|--------------------|
| L100 | 14-01      |          | 11049150    | High pressure relief valve, 330 bar                        | 1                  |
| L300 | 14-01      |          | 11002302    | Pressure limiter plug assembly, CCW rotation pump, 330 bar | 1                  |
| L400 | 14-01      |          | 11002302    | Pressure limiter plug assembly, CW rotation pump, 330 bar  | 1                  |

Order code: K35

|      |       |  |          |                                                            |   |
|------|-------|--|----------|------------------------------------------------------------|---|
| L100 | 14-01 |  | 11049151 | High pressure relief valve, 350 bar                        | 1 |
| L300 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CCW rotation pump, 350 bar | 1 |
| L400 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CW rotation pump, 350 bar  | 1 |

Order code: K38

|      |       |  |          |                                                            |   |
|------|-------|--|----------|------------------------------------------------------------|---|
| L100 | 14-01 |  | 11049152 | High pressure relief valve, 380 bar                        | 1 |
| L300 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CCW rotation pump, 380 bar | 1 |
| L400 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CW rotation pump, 380 bar  | 1 |

Order code: K40

|      |       |  |          |                                                            |   |
|------|-------|--|----------|------------------------------------------------------------|---|
| L100 | 14-01 |  | 11049153 | High pressure relief valve, 400 bar                        | 1 |
| L300 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CCW rotation pump, 400 bar | 1 |
| L400 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CW rotation pump, 400 bar  | 1 |

Order code: K42

|      |       |  |          |                                                            |   |
|------|-------|--|----------|------------------------------------------------------------|---|
| L100 | 14-01 |  | 11049154 | High pressure relief valve, 420 bar                        | 1 |
| L300 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CCW rotation pump, 420 bar | 1 |
| L400 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CW rotation pump, 420 bar  | 1 |

Order code: K45

|      |       |  |          |                                                            |   |
|------|-------|--|----------|------------------------------------------------------------|---|
| L100 | 14-01 |  | 11049155 | High pressure relief valve, 450 bar                        | 1 |
| L300 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CCW rotation pump, 450 bar | 1 |
| L400 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CW rotation pump, 450 bar  | 1 |

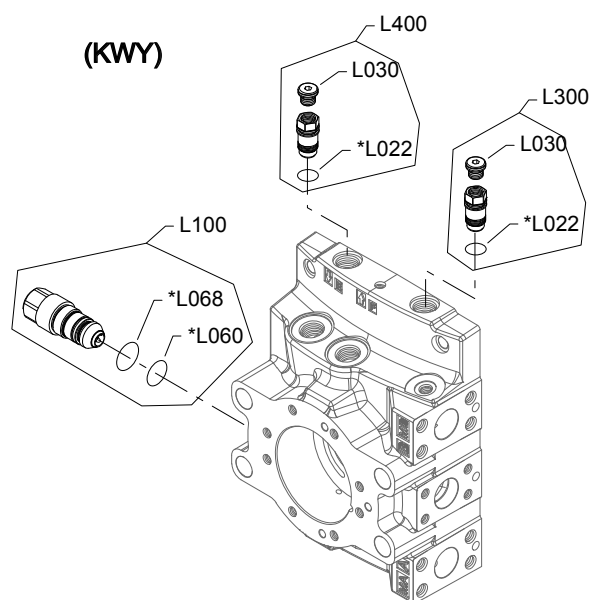
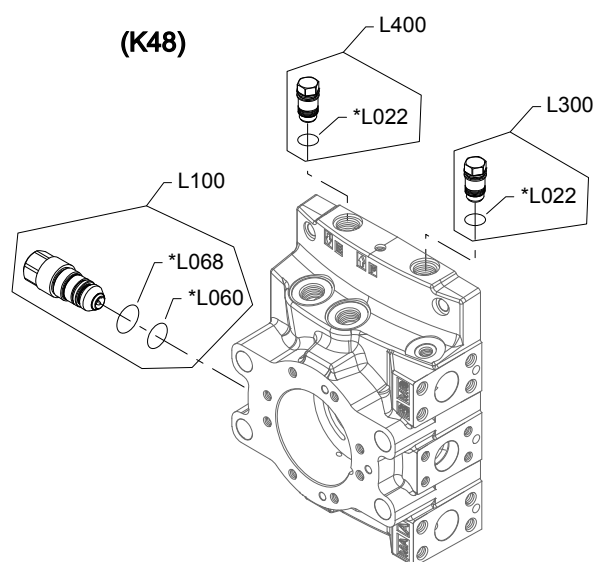
Order code: K46

|      |       |  |          |                                                            |   |
|------|-------|--|----------|------------------------------------------------------------|---|
| L100 | 14-01 |  | 11106573 | High pressure relief valve, 460 bar                        | 1 |
| L300 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CCW rotation pump, 460 bar | 1 |
| L400 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CW rotation pump, 460 bar  | 1 |

## High pressure settings

### H1P 210/250cc high pressure setting K48-L35

*K48-L35 configuration*



Generic end caps shown

\* Included in overhaul seal kit Q210

## High pressure settings

### Common parts

| Item | Date Begin | Date End | Part Number | Part Name | Qty. per Model/Kit |
|------|------------|----------|-------------|-----------|--------------------|
| L022 | 14-01      |          | 504207      | O-ring    | 1                  |
| L060 | 14-01      |          | 365023      | O-ring    | 1                  |
| L068 | 14-01      |          | 11052201    | O-ring    | 1                  |

### Order code: K48

|      |       |  |          |                                                   |   |
|------|-------|--|----------|---------------------------------------------------|---|
| L100 | 14-01 |  | 11049156 | High pressure relief valve, 480 bar               | 1 |
| L300 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CCW rotation pump | 1 |
| L400 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CW rotation pump  | 1 |

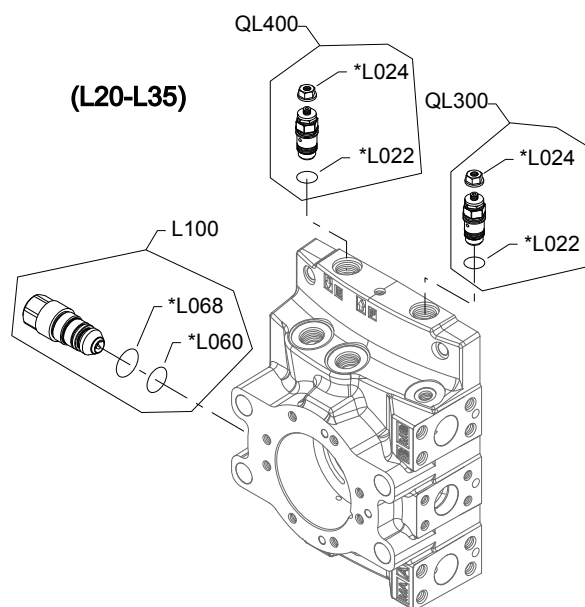
### Order code: KKY

|      |       |  |          |                                                  |   |
|------|-------|--|----------|--------------------------------------------------|---|
| L030 | 14-01 |  | 513443   | Plug assembly                                    | 1 |
| L100 | 14-01 |  | 11049155 | High pressure relief valve, 450 bar              | 1 |
| L300 | 14-01 |  | 11035112 | Pressure sensor plug assembly, CCW rotation pump | 1 |
| L400 | 14-01 |  | 11035112 | Pressure sensor plug assembly, CW rotation pump  | 1 |

## High pressure settings

### H1P 210/250cc high pressure setting L20-L35

*Parts configuration*



Generic end cap shown

\* Included in overhaul seal kit Q210



## High pressure settings

### Common parts

| Item | Date Begin | Date End | Part Number | Part Name | Qty. per Model/Kit |
|------|------------|----------|-------------|-----------|--------------------|
| L022 | 14-01      |          | 504207      | O-ring    | 1                  |
| L060 | 14-01      |          | 365023      | O-ring    | 1                  |
| L068 | 14-01      |          | 11052201    | O-ring    | 1                  |

### Order code: L20

|       |       |  |          |                                                |   |
|-------|-------|--|----------|------------------------------------------------|---|
| L024  | 14-01 |  | 336826   | Seal nut, M10                                  | 1 |
| L100  | 14-01 |  | 11049147 | High pressure relief valve, 250 bar            | 1 |
| QI300 | 14-01 |  | 11119002 | Pressure limiter kit, adjustable, CCW, 200 bar |   |
| QI400 | 14-01 |  | 11119002 | Pressure limiter kit, adjustable, CW, 200 bar  |   |

### Order code: L23

|       |       |  |          |                                                |   |
|-------|-------|--|----------|------------------------------------------------|---|
| L024  | 14-01 |  | 336826   | Seal nut, M10                                  | 1 |
| L100  | 14-01 |  | 11049148 | High pressure relief valve, 280 bar            | 1 |
| QI300 | 14-01 |  | 11119002 | Pressure limiter kit, adjustable, CCW, 230 bar |   |
| QI400 | 14-01 |  | 11119002 | Pressure limiter kit, adjustable, CW, 230 bar  |   |

### Order code: L25

|       |       |  |          |                                                |   |
|-------|-------|--|----------|------------------------------------------------|---|
| L024  | 14-01 |  | 336826   | Seal nut, M10                                  | 1 |
| L100  | 14-01 |  | 11049149 | High pressure relief valve, 300 bar            | 1 |
| QI300 | 14-01 |  | 11119002 | Pressure limiter kit, adjustable, CCW, 250 bar |   |
| QI400 | 14-01 |  | 11119002 | Pressure limiter kit, adjustable, CW, 250 bar  |   |

### Order code: L30

|       |       |  |          |                                                |   |
|-------|-------|--|----------|------------------------------------------------|---|
| L024  | 14-01 |  | 336826   | Seal nut, M10                                  | 1 |
| L100  | 14-01 |  | 11049151 | High pressure relief valve, 350 bar            | 1 |
| QI300 | 14-01 |  | 11119002 | Pressure limiter kit, adjustable, CCW, 300 bar |   |
| QI400 | 14-01 |  | 11119002 | Pressure limiter kit, adjustable, CW, 300 bar  |   |

### Order code: L33

|       |       |  |          |                                                |   |
|-------|-------|--|----------|------------------------------------------------|---|
| L024  | 14-01 |  | 336826   | Seal nut, M10                                  | 1 |
| L100  | 14-01 |  | 11049152 | High pressure relief valve, 380 bar            | 1 |
| QI300 | 14-01 |  | 11119002 | Pressure limiter kit, adjustable, CCW, 330 bar |   |
| QI400 | 14-01 |  | 11119002 | Pressure limiter kit, adjustable, CW, 330 bar  |   |

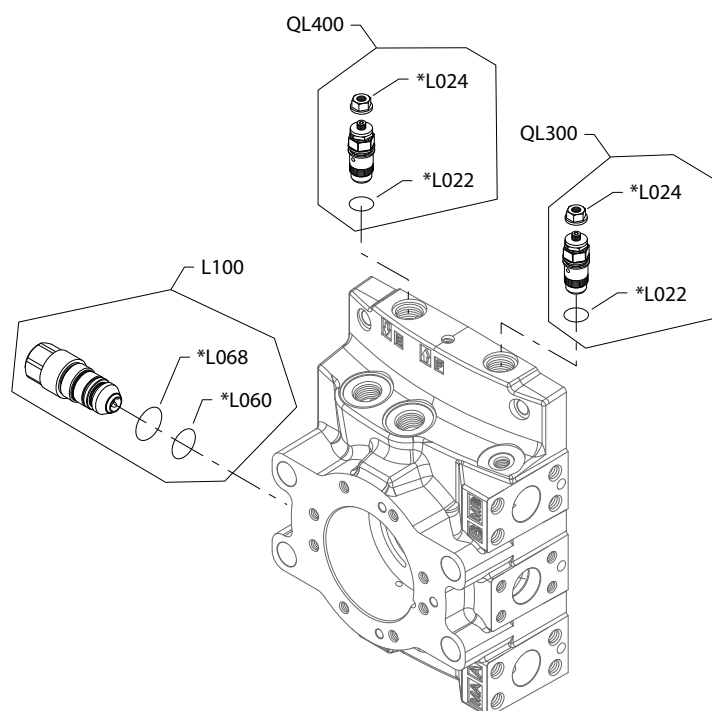
### Order code: L35

|       |       |  |          |                                                |   |
|-------|-------|--|----------|------------------------------------------------|---|
| L024  | 14-01 |  | 336826   | Seal nut, M10                                  | 1 |
| L100  | 14-01 |  | 11049153 | High pressure relief valve, 400 bar            | 1 |
| QI300 | 14-01 |  | 11119002 | Pressure limiter kit, adjustable, CCW, 350 bar |   |
| QI400 | 14-01 |  | 11119002 | Pressure limiter kit, adjustable, CW, 350 bar  |   |

## High pressure settings

### H1P 210/250cc high pressure setting L38-L47

*L38-L47 configuration*



Generic end cap shown

\* Included in overhaul seal kit Q210

## High pressure settings

### Common parts

| Item | Date Begin | Date End | Part Number | Part Name | Qty. per Model/Kit |
|------|------------|----------|-------------|-----------|--------------------|
| L022 | 14-01      |          | 504207      | O-ring    | 1                  |
| L024 | 14-01      |          | 336826      | Seal nut  | 1                  |
| L060 | 14-01      |          | 365023      | O-ring    | 1                  |
| L068 | 14-01      |          | 11052201    | O-ring    | 1                  |

### Order code: L38

|       |       |  |          |                                                |   |
|-------|-------|--|----------|------------------------------------------------|---|
| L100  | 14-01 |  | 11049154 | High pressure relief valve, 420 bar            | 1 |
| QL300 | 14-01 |  | 11119002 | Pressure limiter kit, adjustable, CCW, 380 bar | 1 |
| QL400 | 14-01 |  | 11119002 | Pressure limiter kit, adjustable, CW, 380 bar  | 1 |

### Order code: L40

|       |       |  |          |                                                |   |
|-------|-------|--|----------|------------------------------------------------|---|
| L100  | 14-01 |  | 11049155 | High pressure relief valve, 450 bar            | 1 |
| QL300 | 14-01 |  | 11119002 | Pressure limiter kit, adjustable, CCW, 400 bar | 1 |
| QL400 | 14-01 |  | 11119002 | Pressure limiter kit, adjustable, CW, 400 bar  | 1 |

### Order code: L41

|       |       |  |          |                                                |   |
|-------|-------|--|----------|------------------------------------------------|---|
| L100  | 14-01 |  | 11049155 | High pressure relief valve, 450 bar            | 1 |
| QL300 | 14-01 |  | 11119002 | Pressure limiter kit, adjustable, CCW, 410 bar | 1 |
| QL400 | 14-01 |  | 11119002 | Pressure limiter kit, adjustable, CW, 410 bar  | 1 |

### Order code: L42

|       |       |  |          |                                                |   |
|-------|-------|--|----------|------------------------------------------------|---|
| L024  | 14-01 |  | 336826   | Seal nut                                       | 1 |
| L100  | 14-01 |  | 11049155 | High pressure relief valve, 450 bar            | 1 |
| QL300 | 14-01 |  | 11119002 | Pressure limiter kit, adjustable, CCW, 420 bar | 1 |
| QL400 | 14-01 |  | 11119002 | Pressure limiter kit, adjustable, CW, 420 bar  | 1 |

### Order code: L43

|       |       |  |          |                                                |   |
|-------|-------|--|----------|------------------------------------------------|---|
| L024  | 14-01 |  | 336826   | Seal nut                                       | 1 |
| L100  | 14-01 |  | 11049156 | High pressure relief valve, 480 bar            | 1 |
| QL300 | 14-01 |  | 11119002 | Pressure limiter kit, adjustable, CCW, 430 bar | 1 |
| QL400 | 14-01 |  | 11119002 | Pressure limiter kit, adjustable, CW, 430 bar  | 1 |

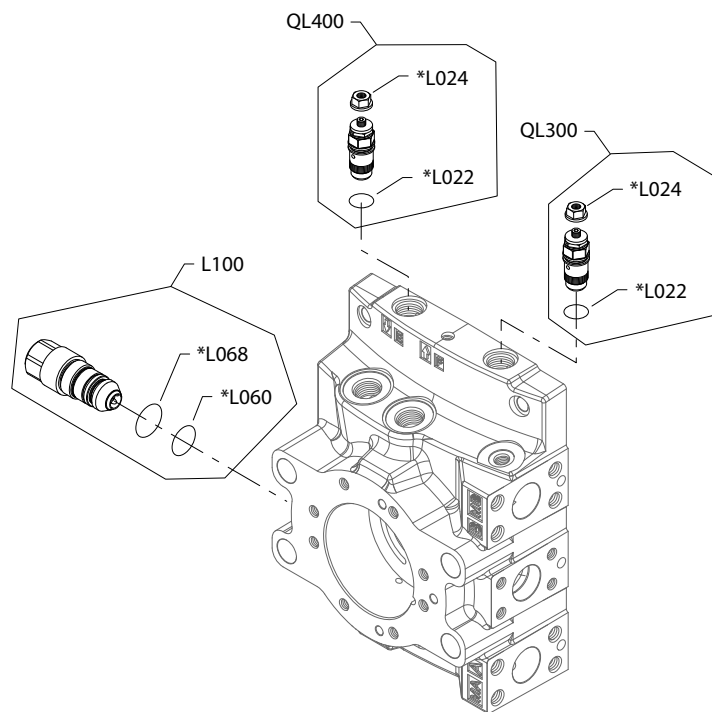
### Order code: L44

|       |       |  |          |                                                |   |
|-------|-------|--|----------|------------------------------------------------|---|
| L024  | 14-01 |  | 336826   | Seal nut                                       | 1 |
| L100  | 14-01 |  | 11049156 | High pressure relief valve, 480 bar            | 1 |
| QL300 | 14-01 |  | 11119002 | Pressure limiter kit, adjustable, CCW, 440 bar | 1 |
| QL400 | 14-01 |  | 11119002 | Pressure limiter kit, adjustable, CW, 440 bar  | 1 |

[Parts continue to the next 2 pages.](#)

## High pressure settings

L38-L47 configuration



Generic end cap shown

\* Included in overhaul seal kit Q210

## High pressure settings

Order code: L45

| Item  | Date Begin | Date End | Part Number | Part Name                                      | Qty. per Model/Kit |
|-------|------------|----------|-------------|------------------------------------------------|--------------------|
| L024  | 14-01      |          | 336826      | Seal nut                                       | 1                  |
| L100  | 14-01      |          | 11049156    | High pressure relief valve, 480 bar            | 1                  |
| QL300 | 14-01      |          | 11119002    | Pressure limiter kit, adjustable, CCW, 450 bar | 1                  |
| QL400 | 14-01      |          | 11119002    | Pressure limiter kit, adjustable, CW, 450 bar  | 1                  |

Order code: L46

|       |       |  |          |                                                |   |
|-------|-------|--|----------|------------------------------------------------|---|
| L024  | 14-01 |  | 336826   | Seal nut                                       | 1 |
| L100  | 14-01 |  | 11049157 | High pressure relief valve, 510 bar            | 1 |
| QL300 | 14-01 |  | 11119002 | Pressure limiter kit, adjustable, CCW, 460 bar | 1 |
| QL400 | 14-01 |  | 11119002 | Pressure limiter kit, adjustable, CW, 460 bar  | 1 |

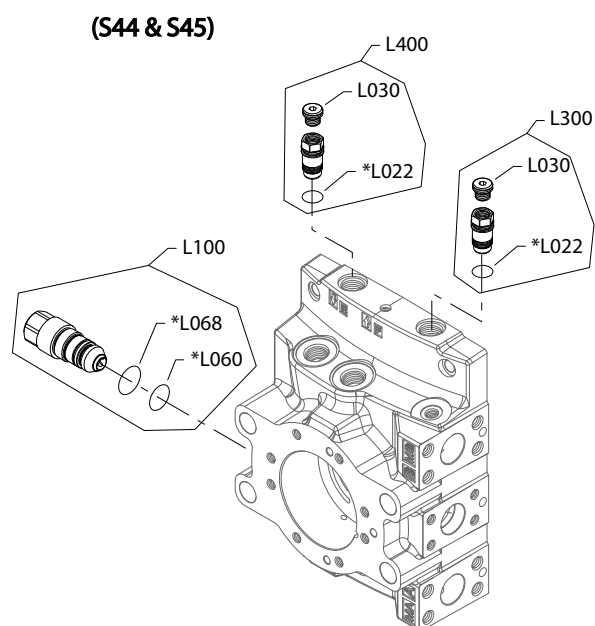
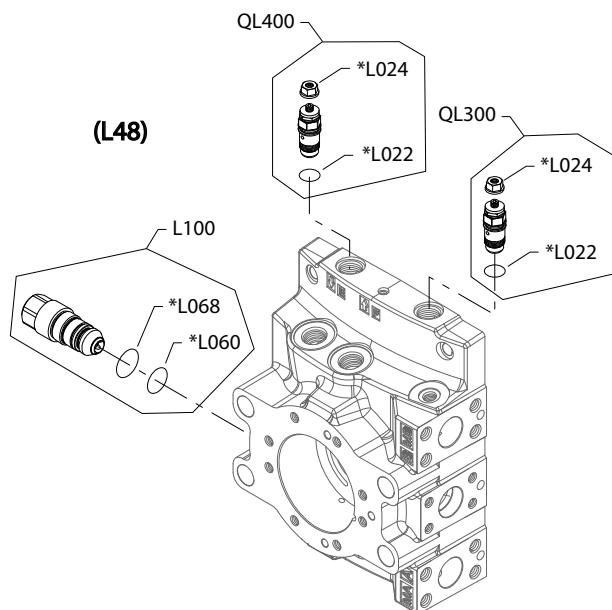
Order code: L47

|       |       |  |          |                                                |   |
|-------|-------|--|----------|------------------------------------------------|---|
| L024  | 14-01 |  | 336826   | Seal nut                                       | 1 |
| L100  | 14-01 |  | 11049157 | High pressure relief valve, 510 bar            | 1 |
| QL300 | 14-01 |  | 11119002 | Pressure limiter kit, adjustable, CCW, 470 bar | 1 |
| QL400 | 14-01 |  | 11119002 | Pressure limiter kit, adjustable, CW, 470 bar  | 1 |

## High pressure settings

### H1P 210/250 high pressure setting L48-S45

Parts configuration



Generic end caps shown

\* Included in overhaul seal kit Q210

## High pressure settings

### Common parts

| Item | Date Begin | Date End | Part Number | Part Name | Qty. per Model/Kit |
|------|------------|----------|-------------|-----------|--------------------|
| L022 | 14-01      |          | 504207      | O-ring    | 1                  |
| L060 | 14-01      |          | 365023      | O-ring    | 1                  |
| L068 | 14-01      |          | 11052201    | O-ring    | 1                  |

### Order code: L48

|       |       |  |          |                                     |   |
|-------|-------|--|----------|-------------------------------------|---|
| L024  | 14-01 |  | 336826   | Seal nut                            | 1 |
| L100  | 14-01 |  | 11049157 | High pressure relief valve, 510 bar | 1 |
| QL300 | 14-01 |  | 11119002 | Pressure limiter, adjustable, CCW   | 1 |
| QL400 | 14-01 |  | 11119002 | Pressure limiter, adjustable, CW    | 1 |

### Order code: S44

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L030 | 14-01 |  | 140644   | Plug assembly                       | 1 |
| L100 | 14-01 |  | 11116160 | High pressure relief valve, 440 bar | 1 |
| L300 | 14-01 |  | 11085422 | Pressure sensor plug assembly, CCW  | 1 |
| L400 | 14-01 |  | 11085422 | Pressure sensor plug assembly, CW   | 1 |

### Order code: S45

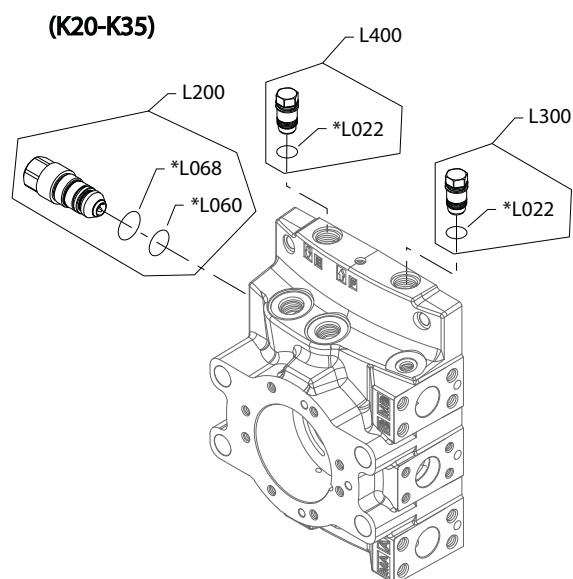
|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L030 | 14-01 |  | 140644   | Plug assembly                       | 1 |
| L100 | 14-01 |  | 11049155 | High pressure relief valve, 450 bar | 1 |
| L300 | 14-01 |  | 11085422 | Pressure sensor plug assembly, CCW  | 1 |
| L400 | 14-01 |  | 11085422 | Pressure sensor plug assembly, CW   | 1 |

## High pressure settings

### Port B

#### H1P 210/250 high pressure setting (Port B) K20-K35

Parts configuration



Generic end cap shown

\* Included in overhaul seal kit Q210



## High pressure settings

### Common parts

| Item | Date Begin | Date End | Part Number | Part Name | Qty. per Model/Kit |
|------|------------|----------|-------------|-----------|--------------------|
| L022 | 14-01      |          | 504207      | O-ring    | 1                  |
| L060 | 14-01      |          | 365023      | O-ring    | 1                  |
| L068 | 14-01      |          | 11052201    | O-ring    | 1                  |

### Order code: K20

|       |       |  |          |                                                            |   |
|-------|-------|--|----------|------------------------------------------------------------|---|
| L200  | 14-01 |  | 11049144 | High pressure relief valve, 200 bar                        | 1 |
| QL300 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CW rotation pump, 200 bar  | 1 |
| QL400 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CCW rotation pump, 200 bar | 1 |

### Order code: K23

|       |       |  |          |                                                            |   |
|-------|-------|--|----------|------------------------------------------------------------|---|
| L200  | 14-01 |  | 11049146 | High pressure relief valve, 230 bar                        | 1 |
| QL300 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CW rotation pump, 230 bar  | 1 |
| QL400 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CCW rotation pump, 230 bar | 1 |

### Order code: K25

|       |       |  |          |                                                            |   |
|-------|-------|--|----------|------------------------------------------------------------|---|
| L200  | 14-01 |  | 11049147 | High pressure relief valve, 250 bar                        | 1 |
| QL300 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CW rotation pump, 250 bar  | 1 |
| QL400 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CCW rotation pump, 250 bar | 1 |

### Order code: K28

|       |       |  |          |                                                            |   |
|-------|-------|--|----------|------------------------------------------------------------|---|
| L200  | 14-01 |  | 11049148 | High pressure relief valve, 280 bar                        | 1 |
| QL300 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CW rotation pump, 280 bar  | 1 |
| QL400 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CCW rotation pump, 280 bar | 1 |

### Order code: K30

|       |       |  |          |                                                            |   |
|-------|-------|--|----------|------------------------------------------------------------|---|
| L200  | 14-01 |  | 11049149 | High pressure relief valve, 300 bar                        | 1 |
| QL300 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CW rotation pump, 300 bar  | 1 |
| QL400 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CCW rotation pump, 300 bar | 1 |

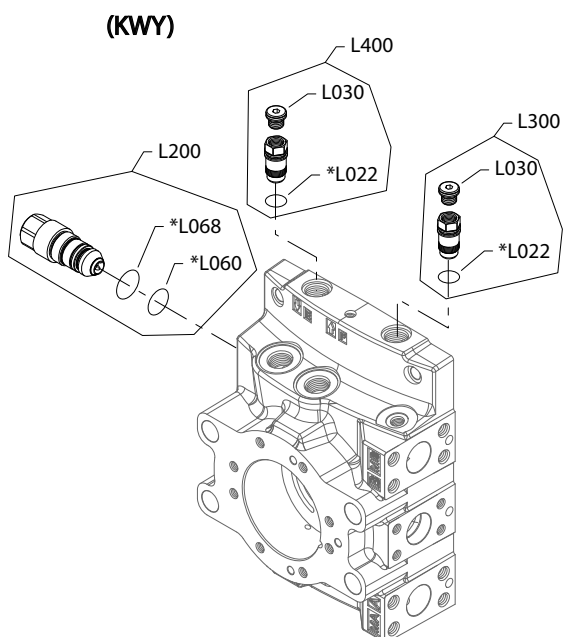
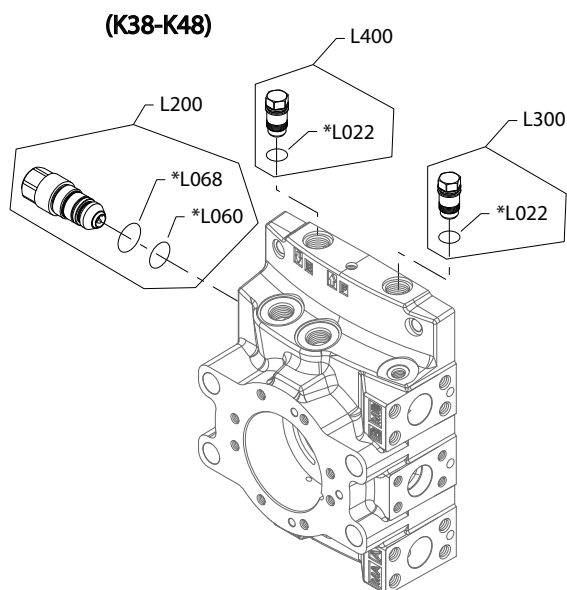
### Order code: K35

|       |       |  |          |                                                            |   |
|-------|-------|--|----------|------------------------------------------------------------|---|
| L200  | 14-01 |  | 11049151 | High pressure relief valve, 350 bar                        | 1 |
| QL300 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CW rotation pump, 350 bar  | 1 |
| QL400 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CCW rotation pump, 350 bar | 1 |

## High pressure settings

### H1P 210/250cc high pressure setting (Port B) K38-KWY

Parts configuration



Generic housing shown

\* Included in overhaul seal kit Q210

## High pressure settings

### Common parts

| Item | Date Begin | Date End | Part Number | Part Name | Qty. per Model/Kit |
|------|------------|----------|-------------|-----------|--------------------|
| L022 | 14-01      |          | 504207      | O-ring    | 1                  |
| L060 | 14-01      |          | 365023      | O-ring    | 1                  |
| L068 | 14-01      |          | 11052201    | O-ring    | 1                  |

### Order code: K38

|       |       |  |          |                                                            |   |
|-------|-------|--|----------|------------------------------------------------------------|---|
| L200  | 14-01 |  | 11049152 | High pressure relief valve, 380 bar                        | 1 |
| QL300 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CW rotation pump, 380 bar  | 1 |
| QL400 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CCW rotation pump, 380 bar | 1 |

### Order code: K40

|       |       |  |          |                                                            |   |
|-------|-------|--|----------|------------------------------------------------------------|---|
| L200  | 14-01 |  | 11049153 | High pressure relief valve, 400 bar                        | 1 |
| QL300 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CW rotation pump, 400 bar  | 1 |
| QL400 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CCW rotation pump, 400 bar | 1 |

### Order code: K42

|       |       |  |          |                                                            |   |
|-------|-------|--|----------|------------------------------------------------------------|---|
| L200  | 14-01 |  | 11049154 | High pressure relief valve, 420 bar                        | 1 |
| QL300 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CW rotation pump, 420 bar  | 1 |
| QL400 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CCW rotation pump, 420 bar | 1 |

### Order code: K45

|       |       |  |          |                                                            |   |
|-------|-------|--|----------|------------------------------------------------------------|---|
| L200  | 14-01 |  | 11049155 | High pressure relief valve, 450 bar                        | 1 |
| QL300 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CW rotation pump, 450 bar  | 1 |
| QL400 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CCW rotation pump, 450 bar | 1 |

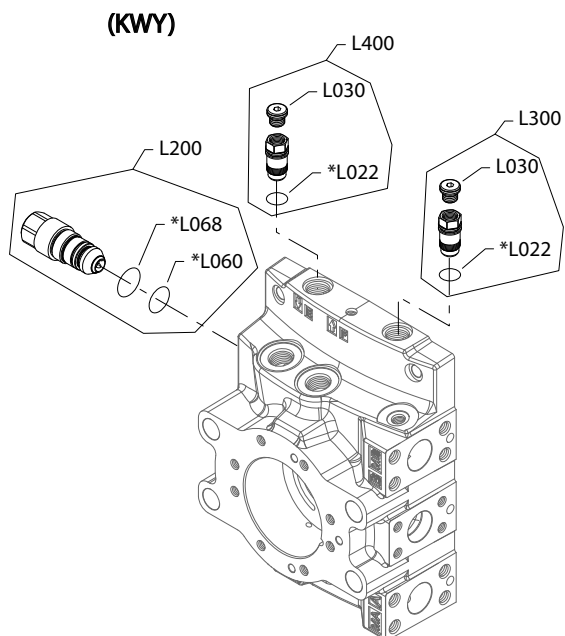
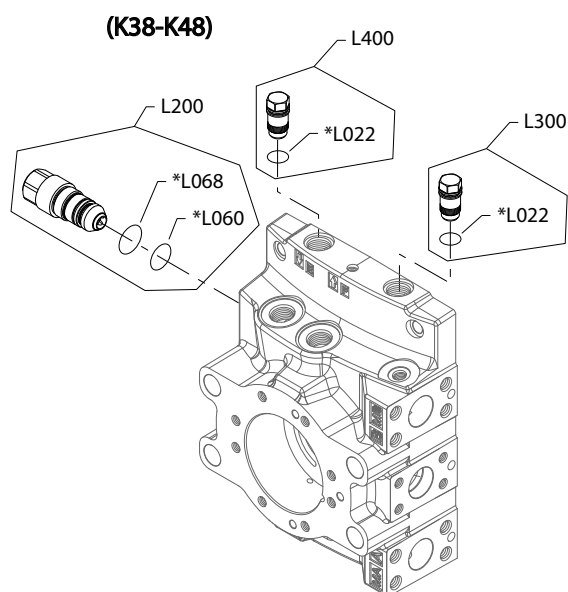
### Order code: K46

|       |       |  |          |                                                            |   |
|-------|-------|--|----------|------------------------------------------------------------|---|
| L200  | 14-01 |  | 11106573 | High pressure relief valve, 460 bar                        | 1 |
| QL300 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CW rotation pump, 460 bar  | 1 |
| QL400 | 14-01 |  | 11002302 | Pressure limiter plug assembly, CCW rotation pump, 460 bar | 1 |

[Parts continue to the next 2 pages.](#)

## High pressure settings

### Parts configuration



Generic housing shown

\* Included in overhaul seal kit Q210

## High pressure settings

Order code: K48

| Item  | Date Begin | Date End | Part Number | Part Name                                                  | Qty. per Model/Kit |
|-------|------------|----------|-------------|------------------------------------------------------------|--------------------|
| L200  | 14-01      |          | 11049156    | High pressure relief valve, 480 bar                        | 1                  |
| QL300 | 14-01      |          | 11002302    | Pressure limiter plug assembly, CW rotation pump, 480 bar  | 1                  |
| QL400 | 14-01      |          | 11002302    | Pressure limiter plug assembly, CCW rotation pump, 480 bar | 1                  |

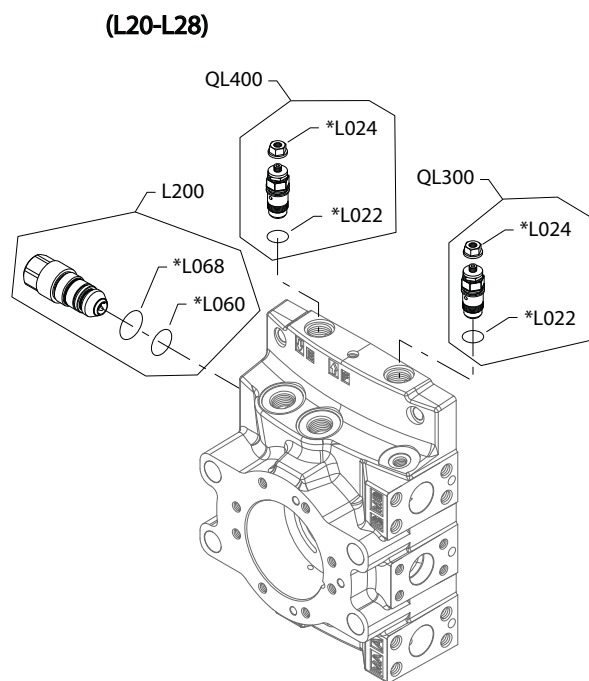
Order KWW

|      |       |  |          |                                                  |   |
|------|-------|--|----------|--------------------------------------------------|---|
| L030 | 14-01 |  | 513443   | Plug assembly                                    | 1 |
| L200 | 14-01 |  | 11049155 | High pressure relief valve, 450 bar              | 1 |
| L300 | 14-01 |  | 11035112 | Pressure sensor plug assembly, CW rotation pump  | 1 |
| L400 | 14-01 |  | 11035112 | Pressure sensor plug assembly, CCW rotation pump | 1 |

## High pressure settings

### H1P 210/250cc high pressure setting (Port B) L20-L28

Parts configuration



Generic end cap shown

\* Included in overhaul seal kit Q210

## High pressure settings

### Common parts

| Item | Date Begin | Date End | Part Number | Part Name | Qty. per Model/Kit |
|------|------------|----------|-------------|-----------|--------------------|
| L022 | 14-01      |          | 504207      | O-ring    | 1                  |
| L060 | 14-01      |          | 365023      | O-ring    | 1                  |
| L068 | 14-01      |          | 11052201    | O-ring    | 1                  |

### Order code: L20

|       |       |  |          |                                            |   |
|-------|-------|--|----------|--------------------------------------------|---|
| L024  | 14-01 |  | 336826   | Seal nut                                   | 1 |
| L200  | 14-01 |  | 11049147 | High pressure relief valve, 250 bar        | 1 |
| QL300 | 14-01 |  | 11119002 | Pressure limiter, adjustable, CW, 250 bar  | 1 |
| QL400 | 14-01 |  | 11119002 | Pressure limiter, adjustable, CCW, 250 bar | 1 |

### Order code: L23

|       |       |  |          |                                            |   |
|-------|-------|--|----------|--------------------------------------------|---|
| L024  | 14-01 |  | 336826   | Seal nut                                   | 1 |
| L200  | 14-01 |  | 11049148 | High pressure relief valve, 280 bar        | 1 |
| QL300 | 14-01 |  | 11119002 | Pressure limiter, adjustable, CW, 280 bar  | 1 |
| QL400 | 14-01 |  | 11119002 | Pressure limiter, adjustable, CCW, 280 bar | 1 |

### Order code: L25

|       |       |  |          |                                            |   |
|-------|-------|--|----------|--------------------------------------------|---|
| L200  | 14-01 |  | 11049149 | High pressure relief valve, 300 bar        | 1 |
| QL300 | 14-01 |  | 11119002 | Pressure limiter, adjustable, CW, 300 bar  | 1 |
| QL400 | 14-01 |  | 11119002 | Pressure limiter, adjustable, CCW, 300 bar | 1 |

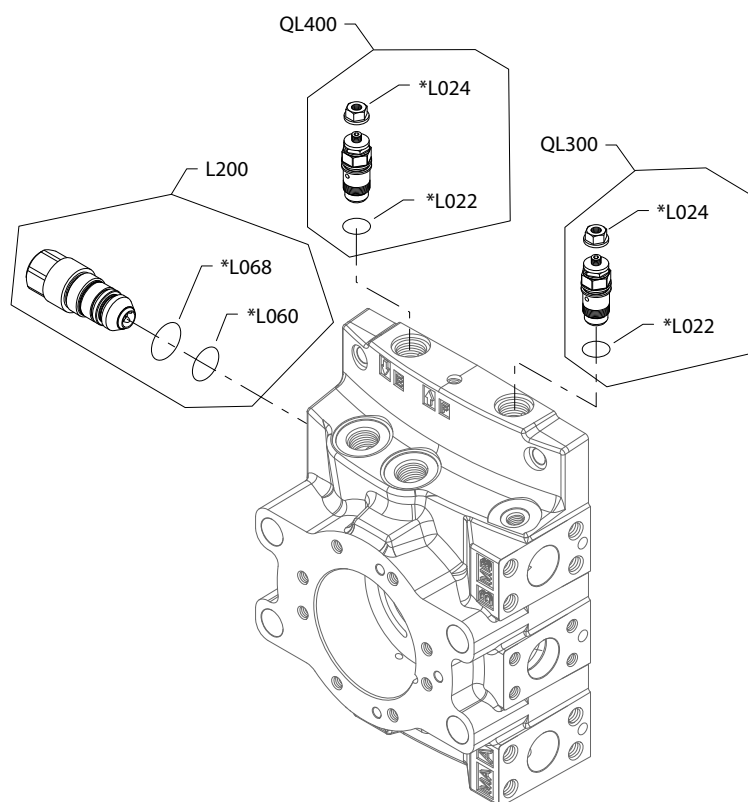
### Order code: L28

|       |       |  |          |                                            |   |
|-------|-------|--|----------|--------------------------------------------|---|
| L200  | 14-01 |  | 11049150 | High pressure relief valve, 330 bar        | 1 |
| QL300 | 14-01 |  | 11119002 | Pressure limiter, adjustable, CW, 330 bar  | 1 |
| QL400 | 14-01 |  | 11119002 | Pressure limiter, adjustable, CCW, 330 bar | 1 |

## High pressure settings

### H1P 210/250cc high pressure setting (Port B) L30-L48

Parts configuration



Generic end cap shown

\* Included in overhaul seal kit Q210



## High pressure settings

### Common parts

| Item | Date Begin | Date End | Part Number | Part Name | Qty. per Model/Kit |
|------|------------|----------|-------------|-----------|--------------------|
| L022 | 14-01      |          | 504207      | O-ring    | 1                  |
| L024 | 14-01      |          | 336826      | Seal nut  | 1                  |
| L060 | 14-01      |          | 365023      | O-ring    | 1                  |
| L068 | 14-01      |          | 11052201    | O-ring    | 1                  |

### Order code: L30

|       |       |  |          |                                            |   |
|-------|-------|--|----------|--------------------------------------------|---|
| L200  | 14-01 |  | 11049151 | High pressure relief valve, 350 bar        | 1 |
| QL300 | 14-01 |  | 11119002 | Pressure limiter, adjustable, CW, 350 bar  | 1 |
| QL400 | 14-01 |  | 11119002 | Pressure limiter, adjustable, CCW, 350 bar | 1 |

### Order code: L33

|       |       |  |          |                                            |   |
|-------|-------|--|----------|--------------------------------------------|---|
| L200  | 14-01 |  | 11049152 | High pressure relief valve, 380 bar        | 1 |
| QL300 | 14-01 |  | 11119002 | Pressure limiter, adjustable, CW, 380 bar  | 1 |
| QL400 | 14-01 |  | 11119002 | Pressure limiter, adjustable, CCW, 380 bar | 1 |

### Order code: L35

|       |       |  |          |                                            |   |
|-------|-------|--|----------|--------------------------------------------|---|
| L200  | 14-01 |  | 11049153 | High pressure relief valve, 400 bar        | 1 |
| QL300 | 14-01 |  | 11119002 | Pressure limiter, adjustable, CW, 400 bar  | 1 |
| QL400 | 14-01 |  | 11119002 | Pressure limiter, adjustable, CCW, 400 bar | 1 |

### Order code: L38

|       |       |  |          |                                            |   |
|-------|-------|--|----------|--------------------------------------------|---|
| L200  | 14-01 |  | 11049154 | High pressure relief valve, 420 bar        | 1 |
| QL300 | 14-01 |  | 11119002 | Pressure limiter, adjustable, CW, 420 bar  | 1 |
| QL400 | 14-01 |  | 11119002 | Pressure limiter, adjustable, CCW, 420 bar | 1 |

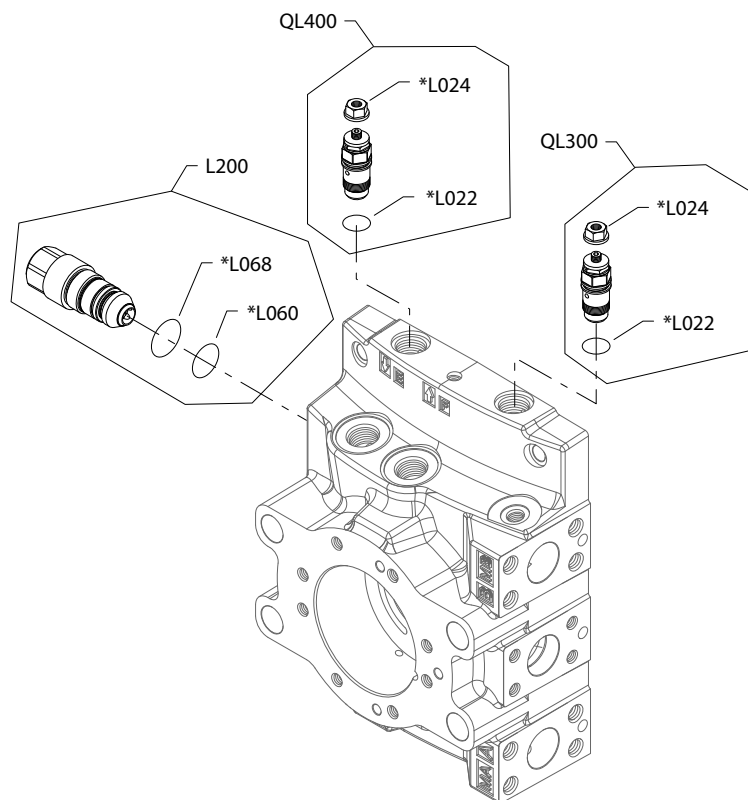
### Order code: L40

|       |       |  |          |                                            |   |
|-------|-------|--|----------|--------------------------------------------|---|
| L200  | 14-01 |  | 11049155 | High pressure relief valve, 450 bar        | 1 |
| QL300 | 14-01 |  | 11119002 | Pressure limiter, adjustable, CW, 450 bar  | 1 |
| QL400 | 14-01 |  | 11119002 | Pressure limiter, adjustable, CCW, 450 bar | 1 |

[Parts continue to the next 2 pages.](#)

## High pressure settings

### Parts configuration



Generic end cap shown

\* Included in overhaul seal kit Q210

## High pressure settings

### Common parts

| Item | Date Begin | Date End | Part Number | Part Name | Qty. per Model/Kit |
|------|------------|----------|-------------|-----------|--------------------|
| L022 | 14-01      |          | 504207      | O-ring    | 1                  |
| L024 | 14-01      |          | 336826      | Seal nut  | 1                  |
| L060 | 14-01      |          | 365023      | O-ring    | 1                  |
| L068 | 14-01      |          | 11052201    | O-ring    | 1                  |

### Order code: L42

|       |       |  |          |                                            |   |
|-------|-------|--|----------|--------------------------------------------|---|
| L200  | 14-01 |  | 11049155 | High pressure relief valve, 450 bar        | 1 |
| QL300 | 14-01 |  | 11119002 | Pressure limiter, adjustable, CW, 450 bar  | 1 |
| QL400 | 14-01 |  | 11119002 | Pressure limiter, adjustable, CCW, 450 bar | 1 |

### Order code: L44

|       |       |  |          |                                            |   |
|-------|-------|--|----------|--------------------------------------------|---|
| L200  | 14-01 |  | 11049156 | High pressure relief valve, 480 bar        | 1 |
| QL300 | 14-01 |  | 11119002 | Pressure limiter, adjustable, CW, 480 bar  | 1 |
| QL400 | 14-01 |  | 11119002 | Pressure limiter, adjustable, CCW, 480 bar | 1 |

### Order code: L45

|       |       |  |          |                                            |   |
|-------|-------|--|----------|--------------------------------------------|---|
| L200  | 14-01 |  | 11049156 | High pressure relief valve, 480 bar        | 1 |
| QL300 | 14-01 |  | 11119002 | Pressure limiter, adjustable, CW, 480 bar  | 1 |
| QL400 | 14-01 |  | 11119002 | Pressure limiter, adjustable, CCW, 480 bar | 1 |

### Order code: L46

|       |       |  |          |                                            |   |
|-------|-------|--|----------|--------------------------------------------|---|
| L024  | 14-01 |  | 336826   | Seal nut                                   | 1 |
| L200  | 14-01 |  | 11049157 | High pressure relief valve, 510 bar        | 1 |
| QL300 | 14-01 |  | 11119002 | Pressure limiter, adjustable, CW, 510 bar  | 1 |
| QL400 | 14-01 |  | 11119002 | Pressure limiter, adjustable, CCW, 510 bar | 1 |

### Order code: L47

|       |       |  |          |                                            |   |
|-------|-------|--|----------|--------------------------------------------|---|
| L024  | 14-01 |  | 336826   | Seal nut                                   | 1 |
| L200  | 14-01 |  | 11049157 | High pressure relief valve, 510 bar        | 1 |
| QL300 | 14-01 |  | 11119002 | Pressure limiter, adjustable, CW, 510 bar  | 1 |
| QL400 | 14-01 |  | 11119002 | Pressure limiter, adjustable, CCW, 510 bar | 1 |

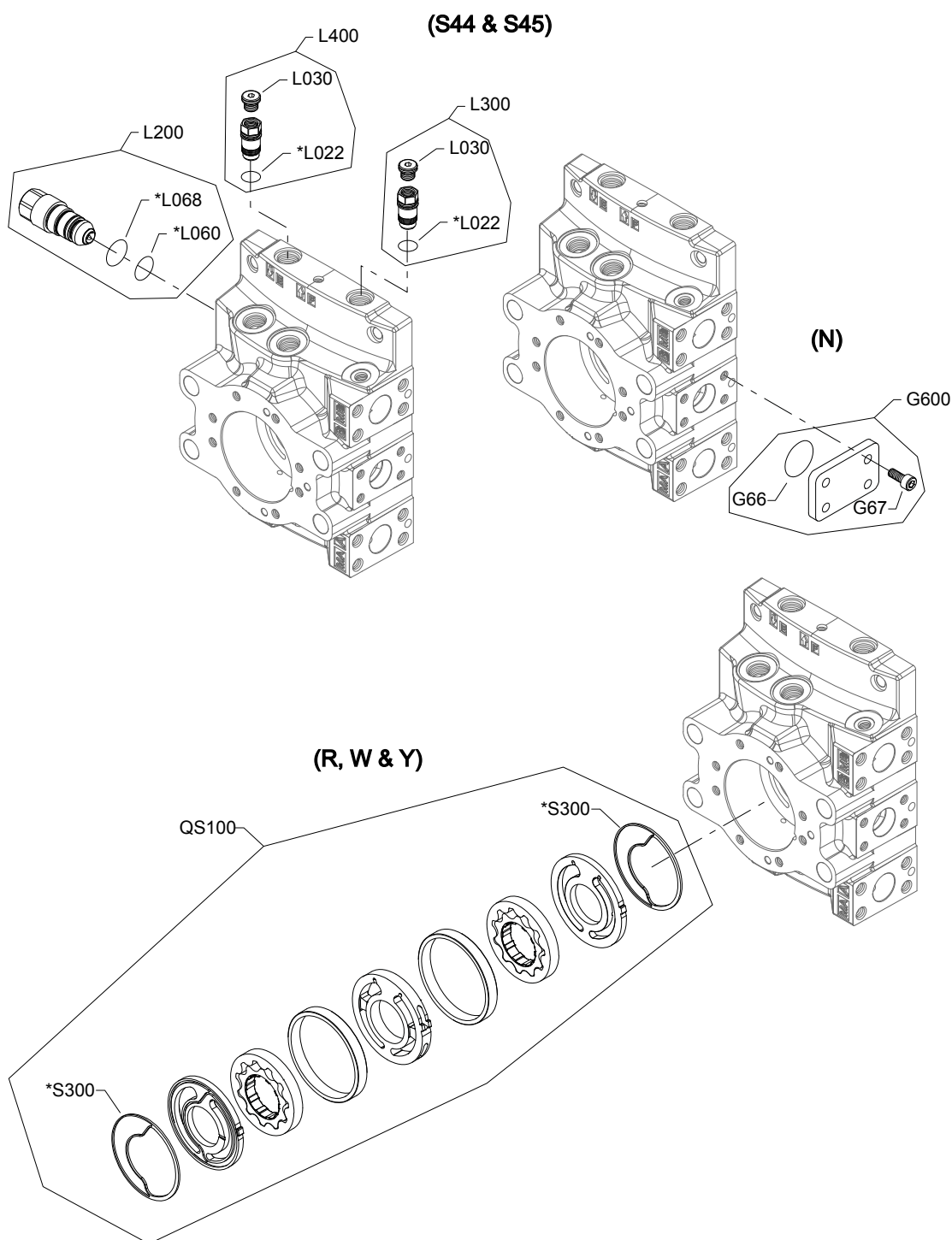
### Order code: L48

|       |       |  |          |                                            |   |
|-------|-------|--|----------|--------------------------------------------|---|
| L024  | 14-01 |  | 336826   | Seal nut                                   | 1 |
| L200  | 14-01 |  | 11049157 | High pressure relief valve, 510 bar        | 1 |
| QL300 | 14-01 |  | 11119002 | Pressure limiter, adjustable, CW, 510 bar  | 1 |
| QL400 | 14-01 |  | 11119002 | Pressure limiter, adjustable, CCW, 510 bar | 1 |

## High pressure settings

### H1P 210/250cc high pressure setting (Port B) S44, S45

Parts configuration



Generic end caps shown

\* Included in overhaul seal kit

## High pressure settings

### High pressure setting common parts

| Item | Date Begin | Date End | Part Number | Part Name     | Qty. per Model/Kit |
|------|------------|----------|-------------|---------------|--------------------|
| L022 | 14-01      |          | 504207      | O-ring        | 1                  |
| L060 | 14-01      |          | 365023      | O-ring        | 1                  |
| L068 | 14-01      |          | 11052201    | O-ring        | 1                  |
| L030 | 14-01      |          | 140644      | Plug assembly | 1                  |

### Order code: S44

|       |       |  |          |                                       |   |
|-------|-------|--|----------|---------------------------------------|---|
| L200  | 14-01 |  | 11116160 | High pressure relief valve, 440 bar   | 1 |
| QL300 | 14-01 |  | 11085422 | Pressure sensor adapter, CW, 440 bar  | 1 |
| QL400 | 14-01 |  | 11085422 | Pressure sensor adapter, CCW, 440 bar | 1 |

### Order code: S45

|       |       |  |          |                                       |   |
|-------|-------|--|----------|---------------------------------------|---|
| L200  | 14-01 |  | 11040155 | High pressure relief valve, 450 bar   | 1 |
| QL300 | 14-01 |  | 11085422 | Pressure sensor adapter, CW, 450 bar  | 1 |
| QL400 | 14-01 |  | 11085422 | Pressure sensor adapter, CCW, 450 bar | 1 |

## H1P 210/250cc charge pump

### Order code: N

|      |       |  |          |                 |   |
|------|-------|--|----------|-----------------|---|
| G66  | 14-01 |  | 916783   | O-ring          | 1 |
| G67  | 14-01 |  | 11000819 | Screw, M12 x 25 | 4 |
| G600 | 14-01 |  | 11070638 | Cover assembly  | 1 |

### Order code: R

|       |       |  |          |                        |   |
|-------|-------|--|----------|------------------------|---|
| QS100 | 14-01 |  | 11070194 | Charge pump kit, 52 cc | 1 |
| S300  | 14-01 |  | 11126778 | Seal ring              | 2 |

### Order code: W

|       |       |  |          |                        |   |
|-------|-------|--|----------|------------------------|---|
| QS100 | 14-01 |  | 11070193 | Charge pump kit, 60 cc | 1 |
| S300  | 14-01 |  | 11126778 | Seal ring              | 2 |

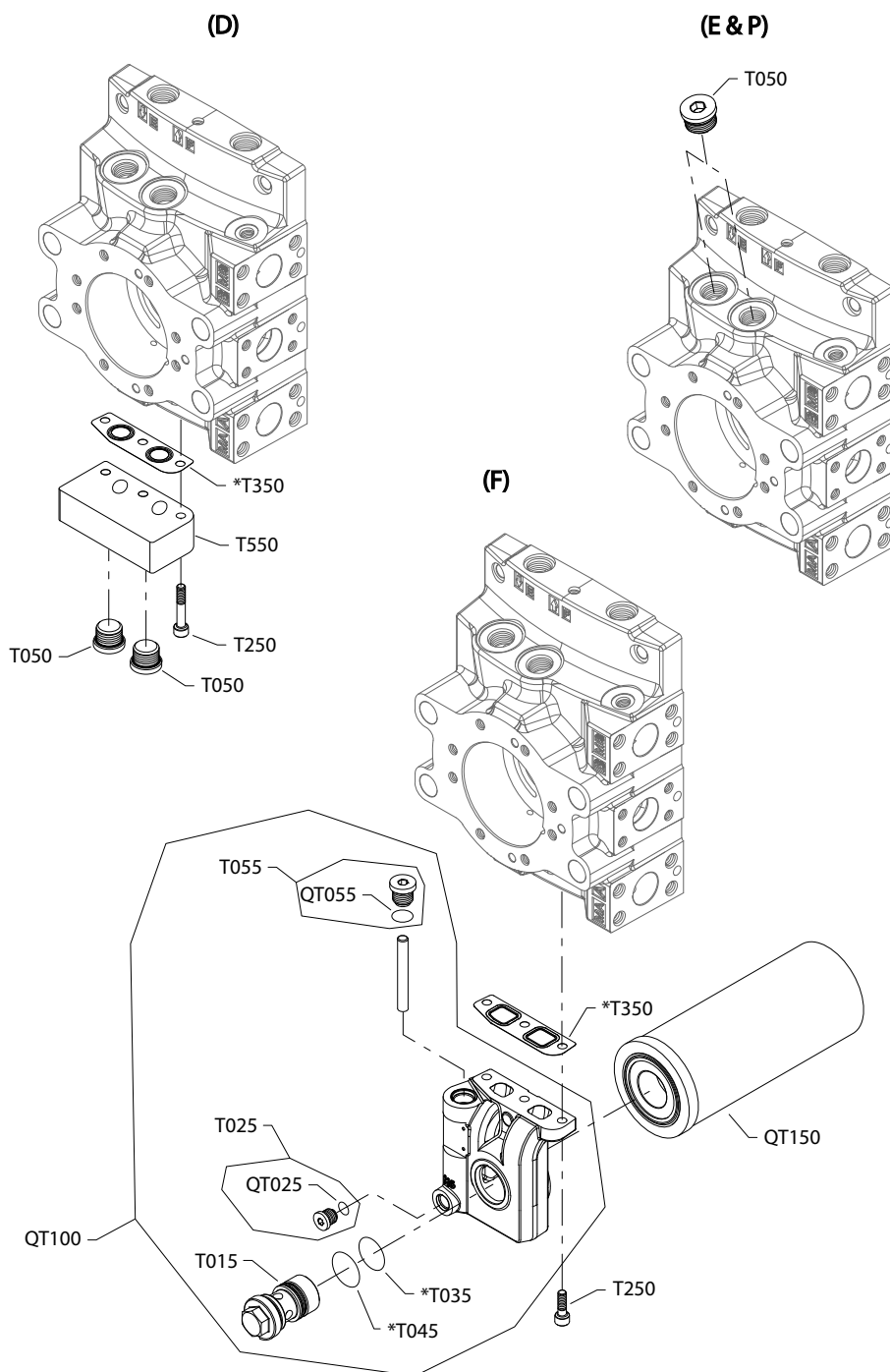
### Order code: Y

|       |       |  |          |                                 |   |
|-------|-------|--|----------|---------------------------------|---|
| QS100 | 14-01 |  | 11147425 | Charge pump kit, 60 cc, special | 1 |
| S300  | 14-01 |  | 11126778 | Seal ring                       | 2 |

## Filtration

### H1P 210/250cc filtration D-P

Parts configuration



Generic end caps shown

Option F and M are available in SAE and metric configurations. Please order accordingly.

\* Included in overhaul seal kit Q210

## Filtration

Order code: D

| Item | Date Begin | Date End | Part Number           | Part Name      | Qty. per Model/Kit |
|------|------------|----------|-----------------------|----------------|--------------------|
| T050 | 15-28      |          | 320002 (9005110-9200) | Plug assembly  | 2                  |
| T250 | 15-28      |          | 092106                | Screw, M8 x 35 | 3                  |
| T350 | 15-28      |          | 11146745              | Gasket         | 1                  |
| T550 | 15-28      |          | 11155619              | Filter adapter | 1                  |

Order code: E

|      |       |  |                       |               |   |
|------|-------|--|-----------------------|---------------|---|
| T050 | 14-01 |  | 664524 (9005110-9000) | Plug assembly | 2 |
|------|-------|--|-----------------------|---------------|---|

Order code: F

|       |       |  |                       |                                  |   |
|-------|-------|--|-----------------------|----------------------------------|---|
| QT025 | 14-01 |  | 085043 (9004201-3700) | O-ring (SAE)                     | 1 |
| QT025 | 14-01 |  | 5000463               | O-ring (metric)                  | 1 |
| QT055 | 14-01 |  | 001131 (9004201-2500) | O-ring                           | 1 |
| QT150 | 14-01 |  | 11004919              | Filter assembly                  | 1 |
| T015  | 14-01 |  | 11146739              | Filter adapter screw             | 1 |
| T025  | 14-01 |  | 141269                | Plug assembly (SAE)              | 1 |
| T025  | 14-01 |  | 11163465              | Plug assembly, M14 (metric)      | 1 |
| T035  | 14-01 |  | 761148 (9004100-0260) | O-ring                           | 1 |
| T045  | 14-01 |  | 314500 (9004100-1250) | O-ring                           | 1 |
| T055  | 14-01 |  | 11146743              | Plug assembly                    | 1 |
| QT100 | 14-01 |  | 11230452              | Pressure filter adapter assembly | 1 |
| T250  | 14-01 |  | 11128665              | Screw, M8 x 25                   | 3 |
| T350  | 14-01 |  | 11146745              | Filter adapter gasket            | 1 |

Order code: L

|          |
|----------|
| No parts |
|----------|

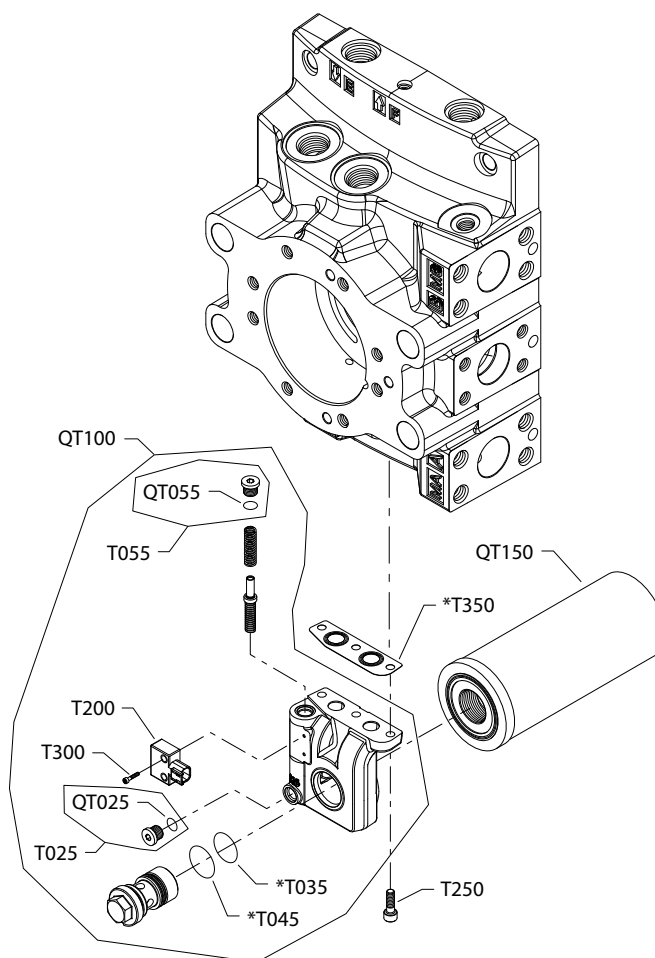
Order code: P

|      |       |  |                       |               |   |
|------|-------|--|-----------------------|---------------|---|
| T050 | 14-01 |  | 664524 (9005110-9000) | Plug assembly | 2 |
|------|-------|--|-----------------------|---------------|---|

## Filtration

### H1P 210/250cc filtration M

*Parts configuration*



This option is available in metric configurations only.

\* Included in overhaul seal kit Q210



## Filtration

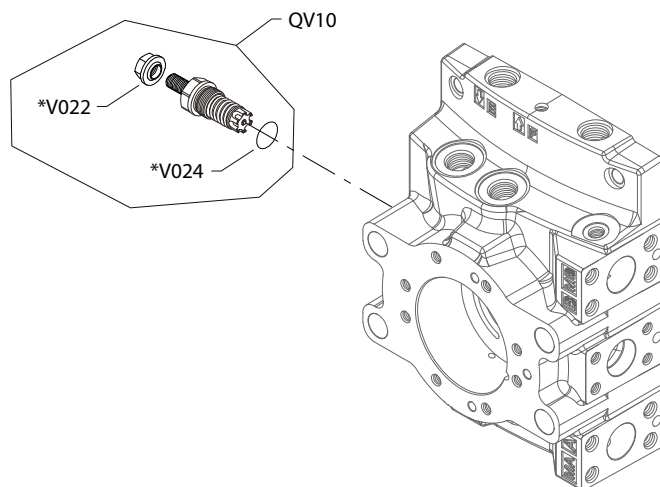
Order code: M

| Item  | Date Begin | Date End | Part Number | Part Name                                      | Qty. per Model/Kit |
|-------|------------|----------|-------------|------------------------------------------------|--------------------|
| T015  | 18-15      |          | 11146739    | Filter adapter screw                           | 1                  |
| T025  | 18-15      |          | 11163465    | Plug assembly, M14 (metric port configuration) | 1                  |
| T035  | 18-15      |          | 761148      | O-ring                                         | 1                  |
| T045  | 18-15      |          | 314500      | O-ring                                         | 1                  |
| T055  | 18-15      |          | 11146743    | Plug assembly                                  | 1                  |
| QT100 | 18-15      |          | 11230270    | Pressure filter adapter assembly               | 1                  |
| T200  | 18-15      |          | 11031852    | Filtration position sensor                     | 1                  |
| T250  | 18-15      |          | 11128665    | Screw, M8 x 25                                 | 3                  |
| T300  | 18-15      |          | 140560      | Screw, M3 x 16                                 | 2                  |
| T350  | 18-15      |          | 11146745    | Filter adapter gasket                          | 1                  |
| QT025 | 18-15      |          | 5000463     | O-ring (metric port configuration)             | 1                  |
| QT055 | 18-15      |          | 001131      | O-ring                                         | 1                  |
| QT150 | 18-15      |          | 11004919    | Filter assembly                                | 1                  |

## Charge pressure relief

### H1P 210/250cc charge pressure relief 18-34

*Parts configuration*



Generic end caps shown

\* Included in overhaul seal kit Q210

## Charge pressure relief

*Order code: 18-22*

| Item | Date Begin | Date End | Part Number           | Part Name               | Qty. per Model/Kit |
|------|------------|----------|-----------------------|-------------------------|--------------------|
| QV10 | 14-01      |          | 11137578              | Charge relief valve kit | 1                  |
| V024 | 14-01      |          | 001149 (9004201-6200) | O-ring                  | 1                  |

*Order code: 24-34*

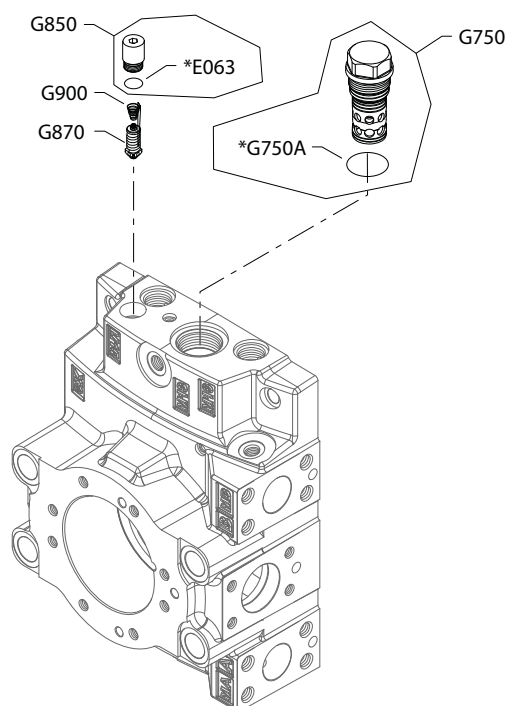
|      |       |  |                       |                         |   |
|------|-------|--|-----------------------|-------------------------|---|
| QV10 | 14-01 |  | 11137579              | Charge relief valve kit | 1 |
| V022 | 14-01 |  | 066159                | Seal nut, M12 x 1.5     | 1 |
| V024 | 14-01 |  | 001149 (9004201-6200) | O-ring                  | 1 |

## Charge pressure relief

### ISL settings

#### H1P 210/250cc ISL settings GAF-GAL

Parts configuration



Generic end caps shown

\* Included in overhaul seal kit Q210

## Charge pressure relief

### Common parts

| Item  | Date Begin | Date End | Part Number           | Part Name                              | Qty. per Model/Kit |
|-------|------------|----------|-----------------------|----------------------------------------|--------------------|
| E063  | 14-01      |          | 001131 (9004201-5000) | O-ring                                 | 1                  |
| G750  | 14-01      |          | 11155320              | ISL valve assembly, 5.5 increased flow | 1                  |
| G750A | 14-01      |          | 140866                | O-ring                                 | 1                  |
| G850  | 14-01      |          | 11126727              | Plug assembly                          | 1                  |
| G900  | 14-01      |          | 4800780               | Spring                                 | 1                  |

### Order code: GAF

|      |       |  |              |                                        |   |
|------|-------|--|--------------|----------------------------------------|---|
| G870 | 14-01 |  | 3103375-0140 | SCR valve assembly, 140 bar [2030 psi] | 1 |
|------|-------|--|--------------|----------------------------------------|---|

### Order code: GAG

|      |       |  |              |                                        |   |
|------|-------|--|--------------|----------------------------------------|---|
| G870 | 14-01 |  | 3103375-0175 | SCR valve assembly, 175 bar [2538 psi] | 1 |
|------|-------|--|--------------|----------------------------------------|---|

### Order code: GAH

|      |       |  |              |                                        |   |
|------|-------|--|--------------|----------------------------------------|---|
| G870 | 14-01 |  | 3103375-0210 | SCR valve assembly, 210 bar [3045 psi] | 1 |
|------|-------|--|--------------|----------------------------------------|---|

### Order code: GAJ

|      |       |  |              |                                        |   |
|------|-------|--|--------------|----------------------------------------|---|
| G870 | 14-01 |  | 3103375-0230 | SCR valve assembly, 230 bar [3335 psi] | 1 |
|------|-------|--|--------------|----------------------------------------|---|

### Order code: GAK

|      |       |  |              |                                        |   |
|------|-------|--|--------------|----------------------------------------|---|
| G870 | 14-01 |  | 3103375-0250 | SCR valve assembly, 250 bar [3625 psi] | 1 |
|------|-------|--|--------------|----------------------------------------|---|

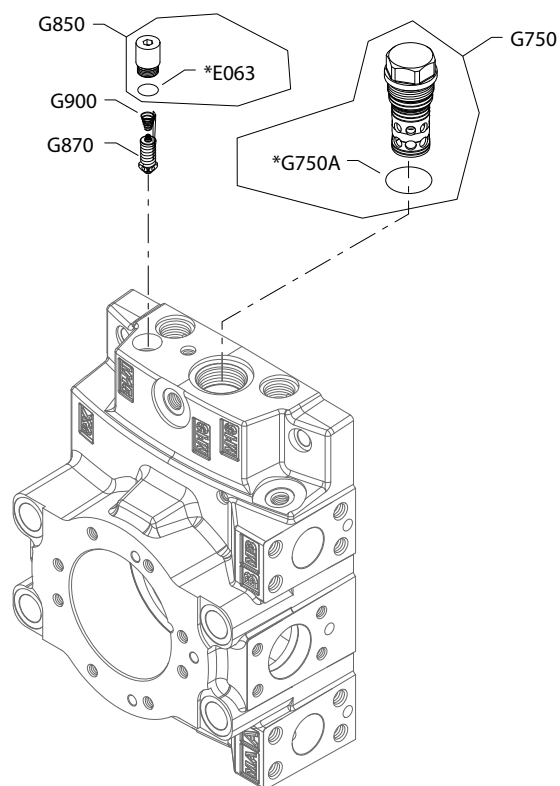
### Order code: GAL

|      |       |  |              |                                        |   |
|------|-------|--|--------------|----------------------------------------|---|
| G870 | 14-01 |  | 3103375-0140 | SCR valve assembly, 140 bar [2030 psi] | 1 |
|------|-------|--|--------------|----------------------------------------|---|

## Charge pressure relief

### H1P 210/250cc ISL settings GAM-MAL

Parts configuration



Generic end cap shown

\* Included in overhaul seal kit Q210

## Charge pressure relief

### Common parts

| Item  | Date Begin | Date End | Part Number           | Part Name                              | Qty. per Model/Kit |
|-------|------------|----------|-----------------------|----------------------------------------|--------------------|
| E063  | 14-01      |          | 001131 (9004201-5000) | O-ring                                 | 1                  |
| G750  | 14-01      |          | 11137581              | ISL valve assembly, 4.4 increased flow | 1                  |
| G750A | 14-01      |          | 140866                | O-ring                                 | 1                  |
| G850  | 14-01      |          | 11126727              | Plug assembly                          | 1                  |
| G900  | 14-01      |          | 4800780               | Spring                                 | 1                  |

### Order code: GAM

|      |       |  |              |                                        |   |
|------|-------|--|--------------|----------------------------------------|---|
| G870 | 14-01 |  | 3103375-0175 | SCR valve assembly, 175 bar [2538 psi] | 1 |
|------|-------|--|--------------|----------------------------------------|---|

### Order code: GAN

|      |       |  |              |                                        |   |
|------|-------|--|--------------|----------------------------------------|---|
| G870 | 14-01 |  | 3103375-0210 | SCR valve assembly, 210 bar [3045 psi] | 1 |
|------|-------|--|--------------|----------------------------------------|---|

### Order code: GAP

|      |       |  |              |                                        |   |
|------|-------|--|--------------|----------------------------------------|---|
| G870 | 14-01 |  | 3103375-0230 | SCR valve assembly, 230 bar [3335 psi] | 1 |
|------|-------|--|--------------|----------------------------------------|---|

### Order code: GAR

|      |       |  |              |                                        |   |
|------|-------|--|--------------|----------------------------------------|---|
| G870 | 14-01 |  | 3103375-0250 | SCR valve assembly, 250 bar [3625 psi] | 1 |
|------|-------|--|--------------|----------------------------------------|---|

### Order code: GAV

|      |       |  |          |                                       |   |
|------|-------|--|----------|---------------------------------------|---|
| E061 | 18-05 |  | 3103651  | Plug assembly                         | 1 |
| G870 | 18-05 |  | 11201810 | SCR valve assembly, 80 bar [1160 psi] | 1 |

### Order code: MAL

|      |       |  |              |                                        |   |
|------|-------|--|--------------|----------------------------------------|---|
| G870 | 14-01 |  | 3103375-0140 | SCR valve assembly, 140 bar [2030 psi] | 1 |
|------|-------|--|--------------|----------------------------------------|---|

## Overhaul seal kit

### H1P 210/250cc seal kit

| Item  | Date Begin | Date End | Part Number           | Part Name                                   | Qty. per Model/Kit |
|-------|------------|----------|-----------------------|---------------------------------------------|--------------------|
| Q210  | 14-01      |          | 11178090              | Overhaul seal kit, H1P210-250 (SB-2016-034) | 1                  |
| D060  | 14-01      |          | 612291 (9003508-0008) | Seal nut                                    | 1                  |
| D150  | 14-01      |          | 11227209              | Control gasket (SB-2016-033)                | 1                  |
| D611  | 14-01      |          | 11066774              | O-ring                                      | 2                  |
| E020  | 14-01      |          | 545434                | O-ring                                      | 2                  |
| E025  | 14-01      |          | 11075562              | Piston ring                                 | 2                  |
| E083  | 14-01      |          | 001131                | O-ring                                      | 1                  |
| E250  | 14-01      |          | 733295                | O-ring                                      | 2                  |
| E500  | 14-01      |          | 649822                | Seal nut                                    | 1                  |
| E550  | 14-01      |          | 649822                | Seal nut                                    | 1                  |
| G150  | 14-01      |          | 11061613              | End cap gasket                              | 1                  |
| G750A | 14-01      |          | 140866                | O-ring                                      | 1                  |
| J250  | 14-01      |          | 11024711              | Lip seal                                    | 1                  |
| J260  | 14-01      |          | 056754                | O-ring                                      | 1                  |
| K150  | 14-01      |          | 11002236              | Adapter seal                                | 1                  |
| K150  | 14-01      |          | 11069670              | Adapter seal                                | 1                  |
| L022  | 14-01      |          | 504207                | O-ring                                      | 2                  |
| L024  | 14-01      |          | 336826                | Seal nut, M10 x 1                           | 2                  |
| L060  | 14-01      |          | 365023                | O-ring                                      | 2                  |
| L068  | 14-01      |          | 11052201              | O-ring                                      | 2                  |
| QD26  | 14-01      |          | 11001952              | O-ring                                      | 2                  |
| QD81  | 14-01      |          | 11152257              | O-ring                                      | 1                  |
| QD751 | 14-01      |          | 001131                | O-ring                                      | 1                  |
| QH131 | 14-01      |          | 11013397              | O-ring                                      | 1                  |
| S300  | 14-01      |          | 11126778              | Seal ring                                   | 2                  |
| T035  | 14-01      |          | 761148 (9004100-0260) | O-ring                                      | 1                  |
| T045  | 14-01      |          | 314500 (9004100-1250) | O-ring                                      | 1                  |
| T350  | 14-01      |          | 11146745              | Filter adapter gasket                       | 1                  |
| V022  | 14-01      |          | 066159                | Seal nut, M12 x 1.5                         | 1                  |
| V024  | 14-01      |          | 001149 (9004201-6200) | O-ring                                      | 1                  |



## Service bulletin

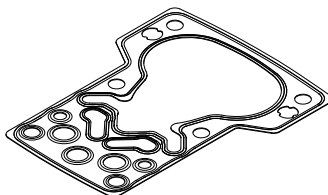
### SB-2016-033

**Products affected** H1 pumps and tandems, MP1 and M46 control kits

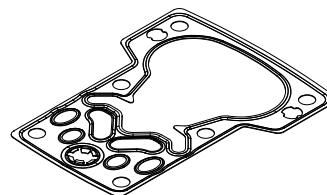
**Subject** Control Gasket

**Description** Danfoss Power Solutions has made a two-part design change to the control gasket used on H1 pumps and tandems and in MP1 and M46 control kits. The electrical displacement controls (EDC) have changed from an 8mm port to 12mm with tabs on the pressure port. The interim gasket used in the manual displacement controls has changed from a 10mm port to 12mm with tabs in the pressure port.

The gasket is now a common part to all pump models and control service kits. The new part can be substituted for the old part, but the old part cannot be substituted for the new part.



Old gasket



New gasket

**Models affected** H1 pumps and tandems, MP1 control kits, M46 control kits

**Serial numbers**

- H1 Pumps - This change became effective on N-16-36-30132
- H1 Tandems - This change became effective on N-16-37-30132
- MP1 Control Kits - This change became effective on N-16-32-xxxxx
- M46 Control Kits - This change became effective on N-16-32-xxxxx

**Part numbers affected**

| Description                            | Old part number | New part number |
|----------------------------------------|-----------------|-----------------|
| Electrical displacement control gasket | 140879          | 11173377        |
| Manual displacement control gasket     | 11159911        | 11173377        |

**Parts disposition** Non-interchangeable - can substitute new for old

## Service bulletin

### SB-2016-034

**Products affected** H1 45/53cc, 60/68cc, 69/78cc, 89/100cc, 115/130cc, 147/165cc, 210/250cc pumps and tandem pumps

**Subject** Overhaul Seal Kit change

**Description** A change has been made to the overhaul seal kits for H1 45/53cc, 60/68cc, 69/78cc, 89/100cc, 115/130cc, 147/165cc and 210/250cc pumps and tandems.

The new 12mm pressure port control gasket (see SB-2016-033) has been added to the overhaul seal kit and the old control gasket has been removed. The old control gasket is not interchangeable with the new control gasket. The new seal kits can be substituted for old seal kits, but old seal kits cannot be substituted for new seal kits.

The overhaul seal kit part numbers have changed.

**Models affected** H1 45/53cc, 60/68cc, 69/78cc, 89/100cc, 115/130cc, 147/165cc, 210/250cc pumps and tandem pumps

**Serial numbers** This change became effective on N-16-41-xxxxx

**Part numbers affected**

| Description                            | Old part number | New part number |
|----------------------------------------|-----------------|-----------------|
| Overhaul seal kit, H1P045-053          | 11134090        | 11178402        |
| Overhaul seal kit, H1P060-068          | 11086556        | 11178403        |
| Overhaul seal kit, H1T045-053          | 11134091        | 11178404        |
| Overhaul seal kit, H1T060-068          | 11177381        | 11178405        |
| Overhaul seal kit, H1T045-053, special | 4510470         | 11178406        |
| Overhaul seal kit, H1P045-053, special | 11016546        | 11178407        |
| Overhaul seal kit, H1T060-068, special | 11147118        | 11178408        |
| Overhaul seal kit, H1P069-078          | 11003521        | 11178086        |
| Overhaul seal kit, H1P089-100          | 11008585        | 11178087        |
| Overhaul seal kit, H1P115-130          | 11003522        | 11178088        |
| Overhaul seal kit, H1P147-165          | 11000687        | 11178089        |
| Overhaul seal kit, H1P210-250          | 11070641        | 11178090        |
| Overhaul seal kit, TMP EDC, MDC        | 11145298        | 11179930        |

**Parts disposition** Non-interchangeable - can substitute new for old

## Service bulletin

### SB-2018-008

#### Products affected

H1 210/250cc pumps

#### Subject

Shaft and cylinder block kit change

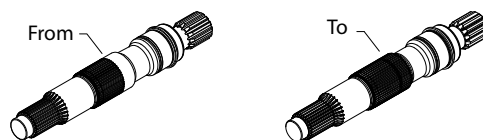
#### Description

Danfoss has made design changes to the main shaft and the slipper retainer ball guide in the H1 210/250cc pumps cylinder block kit. The internal block splines on the shaft are now machined longer and the slipper retainer ball guide is now splined.

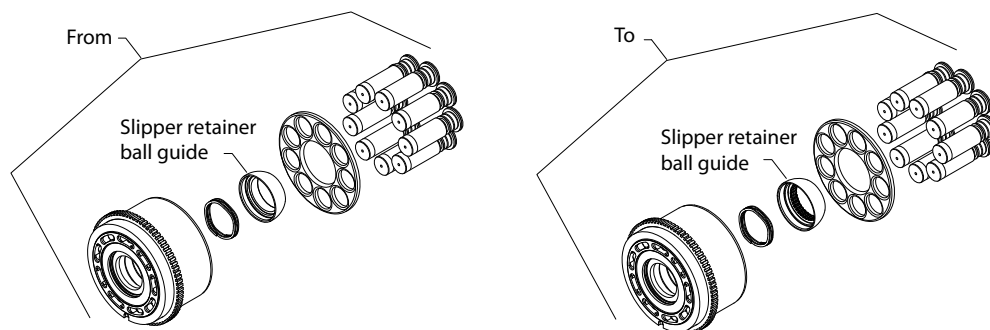
The new shaft may be substituted for the old shaft, but the old shaft cannot be substituted for the new shaft. The old shaft will be obsoleted.

The slipper retainer ball guide design is changed from non-splined to splined due to the new shaft spline design change. The new splined ball guide can be used only with the new shaft design and it is not interchangeable. The old slipper retainer ball guide will be obsoleted.

Shaft change:



Cylinder Block kit change:



#### Models affected

H1 210/250cc pumps

#### Serial numbers affected

Shaft change became effective September 11, 2017 (N1737xxxxx)

Cylinder block kit change became effective November 15, 2017 (N1747xxxxx)

## Service bulletin

### Part numbers affected

| Description                           | Old part number | New part number |
|---------------------------------------|-----------------|-----------------|
| Shaft, H1P210-250 13T 8/16            | 11031952        | 11179449        |
| Shaft, H1P210-250 27T 16/32           | 11031954        | 11179447        |
| Shaft, H1P210-250 17T 8/16            | 11088222        | 11179448        |
| Shaft, H1P210-250 27T 16/32 M16       | 11148596        | 11179446        |
| Shaft, H1P210-250 TAPER 44-3          | 11159183        | 11179450        |
| Shaft, H1P210-250 13T 8/16 THD        | 11168432        | 11192357        |
| Cylinder Block Kit, H1P210            | 11027686        | 11190007        |
| Cylinder Block Kit, H1P250            | 11027687        | 11190008        |
| Cylinder Block Assembly, H1P210 SSNSR | 11083141        | 11191009        |
| Cylinder Block Assembly, H1P250 SSNSR | 11083140        | 11191010        |
| Guide-Slipper Retainer, H1P210-250    | 11121506        | 11148928        |

### Parts disposition

Shaft is interchangeable- new to old

Cylinder block kit is non-interchangeable

Slipper retainer ball guide is non-interchangeable

## Service bulletin

### SB-2018-025

#### Products affected

H1 pumps

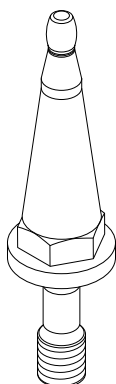
#### Subject

Swashplate feedback link

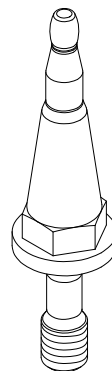
#### Description

Danfoss has made a design change to the swashplate feedback link on H1 pumps. To improve the compatibility of the controls that uses the angle sensor. The contact point on the feedback link, to the spring linkage on the angle sensor, has increased in width.

The new part can be substituted for the old part, but the old part cannot be substituted for the new. Old parts will be obsoleted.



Old feedback link



New feedback link

#### Models affected

H1 45/53cc, 60/68cc, 69/78cc, 89/100cc, 115/130cc, 147/165cc, 210/250cc Pumps and Tandems

#### Serial numbers

This change became effective in Ames A-18-09-xxxxx

This change became effective in Germany N-18-06-xxxxx

#### Part numbers affected

| Description                   | Old Part Number | New Part Number |
|-------------------------------|-----------------|-----------------|
| Link-Swashplate feedback, H1P | 11167724        | 11202172        |
| Link-Swashplate feedback, H1P | 11148827        | 11202172        |

#### Parts disposition

Non-interchangeable

## Service bulletin

### SB-2018-036

#### Products affected

H1 115/130, 147/165, 210/25cc pumps

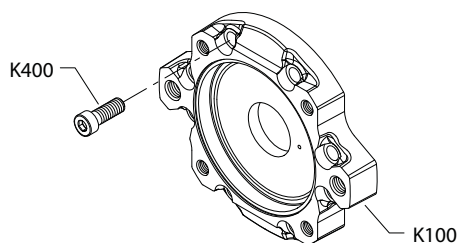
#### Subject

Adapter SAE-C flange and screws change

#### Description

Changes have been made to the adapter screws and the SAE-C adapter on H1 115/250cc pumps to reduce assembly variation. The screw length on the SAE-C adapter changed from 35mm to 30mm. The thickness of the adapter has been changed to improve thread engagement. The old adapter is 18.7mm and the new adapter is 15.7mm for the mounting bolt thickness.

The old versions of the screws and adapters are not interchangeable with the new versions. If an old screw (35mm) is used with a new adapter, screws will bottom out and cause a leak. If the new screw (30mm) is used with an old adapter, screws could strip before the proper torque is achieved.



#### Models affected

H1 115/130, 147/165, 210/250cc pumps

#### Serial numbers affected

This change became effective at serial number 15 July 2018 (N-19-29-xxxxx)

This change became effective at serial number 21 Dec 2018 (A-18-51-xxxxx)

#### Part numbers affected

| Description                 | Old Part Number | New Part Number |
|-----------------------------|-----------------|-----------------|
| Screw (K400)                | 11071462        | 140700          |
| ADAPTER, H1P115-250 127-2-4 | 11002193        | 11138744        |

#### Parts disposition

Non-interchangeable

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- DCV directional control valves
- Electric converters
- Electric machines
- Electric motors
- Gear motors
- Gear pumps
- Hydrostatic motors
- Hydrostatic pumps
- Orbital motors
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- PLUS+1® displays
- PLUS+1® joysticks and pedals
- PLUS+1® operator interfaces
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- PLUS+1® software
- PLUS+1® software services, support and training
- Position controls and sensors
- PVG proportional valves
- Steering components and systems
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