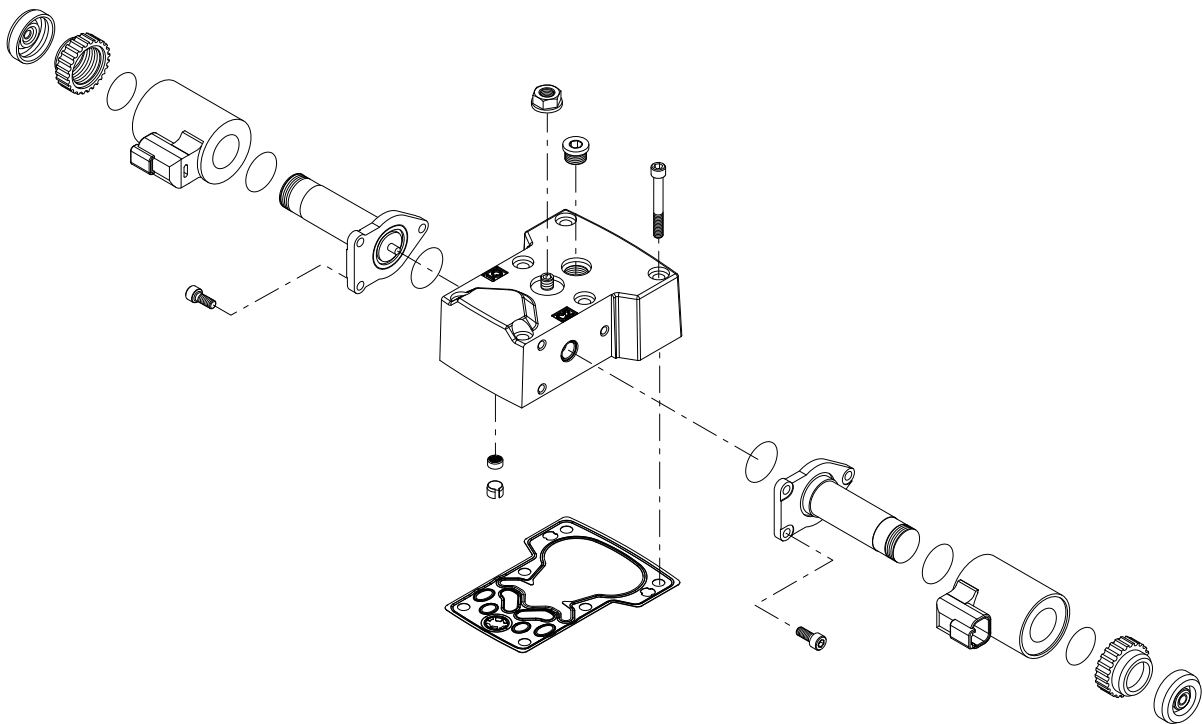


# H1P 115 and 130cc

## Variable Displacement Pump



## Revision history

Table of revisions

| Date          | Changed                                                                                                                         | Rev  |
|---------------|---------------------------------------------------------------------------------------------------------------------------------|------|
| October 2025  | Corrected part numbers and R4 diagram                                                                                           | 1108 |
| October 2025  | Restructure HPRV                                                                                                                | 1107 |
| July 2025     | Corrected part numbers                                                                                                          | 1106 |
| February 2025 | Added SB-2024-007, part number changes for MDC, added S38 option, removed outdated high pressure options                        | 1105 |
| May 2024      | Updated QD29 part number                                                                                                        | 1104 |
| January 2024  | Updated coil kit number on E8/G6, replaced 327007 with 9005110-4400, removed reference to 9004100-0260, Updated AC part numbers | 1103 |
| August 2023   | Updated E300 part number                                                                                                        | 1102 |
| May 2023      | Removed E3 Auxiliary Mounting Option                                                                                            | 1101 |
| March 2023    | Corrected parts numbers, document release date                                                                                  | 1003 |
| March 2022    | Updated H1 and H2 auxiliary mounting part numbers                                                                               | 1001 |
| August 2021   | Added new options; updated automotive controls part numbers                                                                     | 0901 |
| February 2021 | Added adapter seal part numbers                                                                                                 | 0802 |
| December 2020 | Moved pressure limiter screens from housing kits to pressure limiter kits                                                       | 0801 |
| May 2020      | Changed document number from 'AX00000163' to 'AX152886480638' and corrected CCO part numbers                                    | 0711 |
| January 2020  | Corrected aux mounting E3 adapter flange description and control gasket part numbers                                            | 0609 |
| June 2019     | Updated part numbers; added new options                                                                                         | 0608 |
| February 2019 | Added various new options                                                                                                       | 0607 |
| November 2018 | Added control options T6, T7, T8 and T9                                                                                         | 0606 |
| August 2018   | Minor updates                                                                                                                   | 0605 |
| May 2018      | Added control option U1                                                                                                         | 0604 |
| April 2018    | Updated to Engineering Tomorrow                                                                                                 | 0603 |

## Contents

### General information

|                                                 |    |
|-------------------------------------------------|----|
| Service parts identification.....               | 6  |
| Nameplate.....                                  | 6  |
| Date code.....                                  | 7  |
| About service bulletins.....                    | 7  |
| Procedure to identify a part.....               | 8  |
| Regional part numbers.....                      | 8  |
| Example of a part identification (H1P 115)..... | 8  |
| Adobe Acrobat 2-page viewing.....               | 9  |
| Order code.....                                 | 10 |
| Notes.....                                      | 11 |

### Common parts and special hardware

|                                                      |    |
|------------------------------------------------------|----|
| H1P 115/130cc common parts and special hardware..... | 12 |
|------------------------------------------------------|----|

### Controls

|                         |     |
|-------------------------|-----|
| Control A2, A3.....     | 16  |
| Control A4, A5.....     | 18  |
| Control A6.....         | 20  |
| Control A7.....         | 22  |
| Control A8.....         | 24  |
| Control A9, B1.....     | 26  |
| Control B5.....         | 28  |
| Control B7.....         | 30  |
| Control B8.....         | 32  |
| Control B9.....         | 34  |
| Control C1.....         | 36  |
| Control C2.....         | 38  |
| Control C3.....         | 40  |
| Control C9, D1.....     | 42  |
| Control E6, E7.....     | 44  |
| Control E8.....         | 46  |
| Control F1, F2.....     | 48  |
| Control F4.....         | 50  |
| Control G7.....         | 52  |
| Control G9.....         | 54  |
| H1P control H2, H3..... | 56  |
| Control H6, H7.....     | 58  |
| Control H8, H9.....     | 60  |
| Control M1, M2.....     | 62  |
| Control M3, M4.....     | 64  |
| Control M5, M6.....     | 66  |
| Control N1, N2.....     | 68  |
| Control N3, N4.....     | 70  |
| Control N5, N6.....     | 72  |
| Control N7, N8.....     | 74  |
| Control ND, NN.....     | 76  |
| Control P5.....         | 78  |
| Control P6, P7.....     | 80  |
| Control P8, P9.....     | 82  |
| Control R1, R2.....     | 84  |
| Control R3.....         | 86  |
| Control R4.....         | 88  |
| Control S6.....         | 90  |
| Control S7.....         | 92  |
| Control T6, T7.....     | 94  |
| Control T8, T9.....     | 96  |
| Control U1, U2.....     | 100 |

### Displacement limitation

|                                  |     |
|----------------------------------|-----|
| Displacement limitation B-N..... | 102 |
|----------------------------------|-----|

## Contents

|                                                |                                                  |     |
|------------------------------------------------|--------------------------------------------------|-----|
| <b>Orifice</b>                                 | Orifice C-D.....                                 | 104 |
| <b>End cap</b>                                 | End cap D3.....                                  | 108 |
|                                                | End cap D4.....                                  | 110 |
|                                                | End cap D6 .....                                 | 112 |
|                                                | End cap D8.....                                  | 114 |
|                                                | End cap E8.....                                  | 116 |
|                                                | End cap G3.....                                  | 118 |
|                                                | End cap G9, J2.....                              | 120 |
|                                                | End cap J3.....                                  | 122 |
| <b>Housing</b>                                 | Housing G, L, M.....                             | 124 |
| <b>Shaft</b>                                   | Shaft A8-G2.....                                 | 126 |
| <b>Auxiliary mounting</b>                      | Auxiliary mounting E5-H3.....                    | 130 |
|                                                | Auxiliary mounting H4-S1.....                    | 134 |
| <b>High pressure setting</b>                   | Port A.....                                      | 138 |
|                                                | High pressure setting (port A) F01-F04.....      | 138 |
|                                                | High pressure setting (port A) K20-K45.....      | 140 |
|                                                | High pressure setting (port A) KDC_KWY.....      | 142 |
|                                                | High pressure setting (port A) L15-L45, LED..... | 144 |
|                                                | High pressure setting (port A) S38, S42-S45..... | 148 |
|                                                | High pressure setting (port A) S40.....          | 150 |
|                                                | Port B.....                                      | 152 |
|                                                | High pressure setting (port B) F01-F04.....      | 152 |
|                                                | High pressure setting (port B) K20-K45.....      | 154 |
|                                                | High pressure setting (port B) KDC-KWY.....      | 156 |
|                                                | High pressure setting (port B) L15-L45, LED..... | 158 |
|                                                | High pressure setting (port B) S38, S42-S45..... | 162 |
|                                                | High pressure setting (port B) S40.....          | 164 |
| <b>Charge pump</b>                             | Charge pump.....                                 | 166 |
| <b>Filtration</b>                              | Filtration C.....                                | 168 |
|                                                | Filtration D-S.....                              | 170 |
| <b>Charge pressure relief and ISL settings</b> | Charge pressure relief 14-40.....                | 174 |
|                                                | ISL setting A01-G23.....                         | 176 |
|                                                | ISL setting G25-Y4E.....                         | 178 |
| <b>Overhaul seal kit</b>                       | H1P 115/130cc seal kit.....                      | 182 |
| <b>Service bulletin</b>                        | SB-2006-030.....                                 | 183 |
|                                                | SB-2007-052.....                                 | 184 |
|                                                | SB-2009-046.....                                 | 185 |
|                                                | SB-2009-068.....                                 | 187 |
|                                                | SB-2011-002.....                                 | 189 |
|                                                | SB-2011-022.....                                 | 191 |
|                                                | SB-2011-039.....                                 | 192 |
|                                                | SB-2012-026.....                                 | 194 |
|                                                | SB-2013-003.....                                 | 195 |

**Contents**

|                  |     |
|------------------|-----|
| SB-2013-019..... | 197 |
| SB-2015-035..... | 198 |
| SB-2016-004..... | 200 |
| SB-2016-005..... | 201 |
| SB-2016-033..... | 203 |
| SB-2018-006..... | 204 |
| SB-2018-010..... | 206 |
| SB-2018-025..... | 207 |
| SB-2018-036..... | 208 |
| SB-2020-029..... | 208 |
| SB-2021-014..... | 210 |
| SB-2024-007..... | 211 |

## 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 115 and 130cc.

The parts listed include all parts which may be used when performing either "Minor Repairs", "Major Repairs" or "Conversions" on the .

### Nameplate

Each unit will have a nameplate affixed to the housing. The nameplate of the 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/material number

The Danfoss model number (also known as material 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.



## 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. Referring to the Port Configuration in the Order Code on page 8, valid variables are "A" (Inch) and "M" (metric).

### 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 115)

The nameplate on an H1 pump has an Order Code of H1P115 R B A B8 C2 C D6 G G2 H3 L42 L42 L L 24 P1 NNN NNN. Use the following procedures to determine the part number of the drive shaft used on this pump.

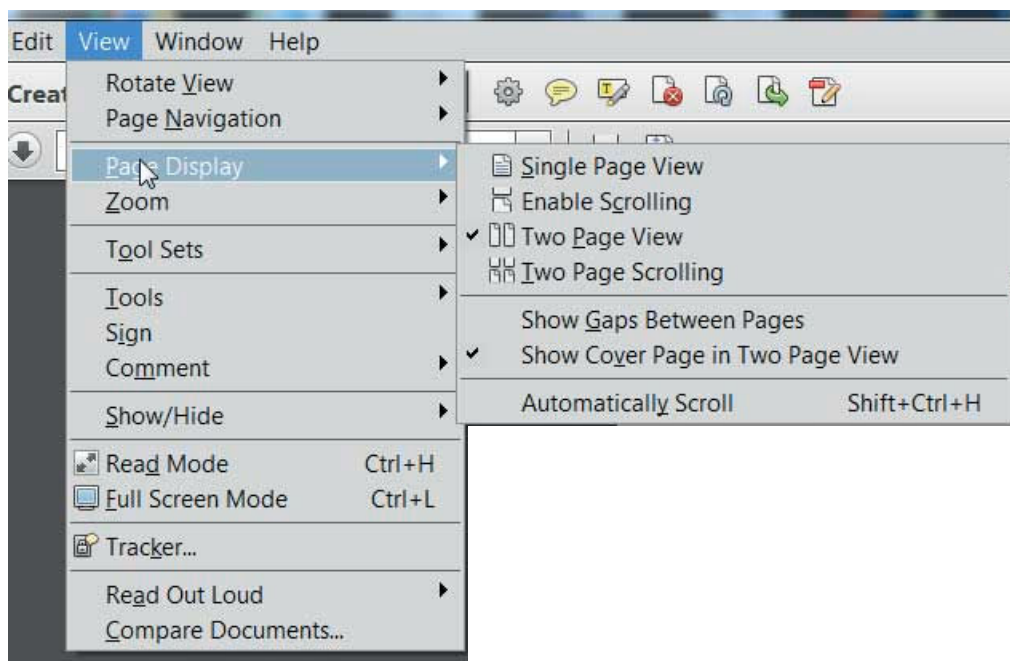
1. Referring to the input shaft module in the [Order code](#) on page 10, the input shaft option for this pump is identified by the code "G1". (H1P115 R B A B8 C2 C D6 G G2 H3 L42 L42 L L 24 P1 NNN NNN)
2. Referring to the Service Parts List, find the shaft group. Next find the order code that relates to this unit, which is "G2". The shaft is found to be item J100 and part number 11123698

## General information

### Adobe Acrobat 2-page viewing

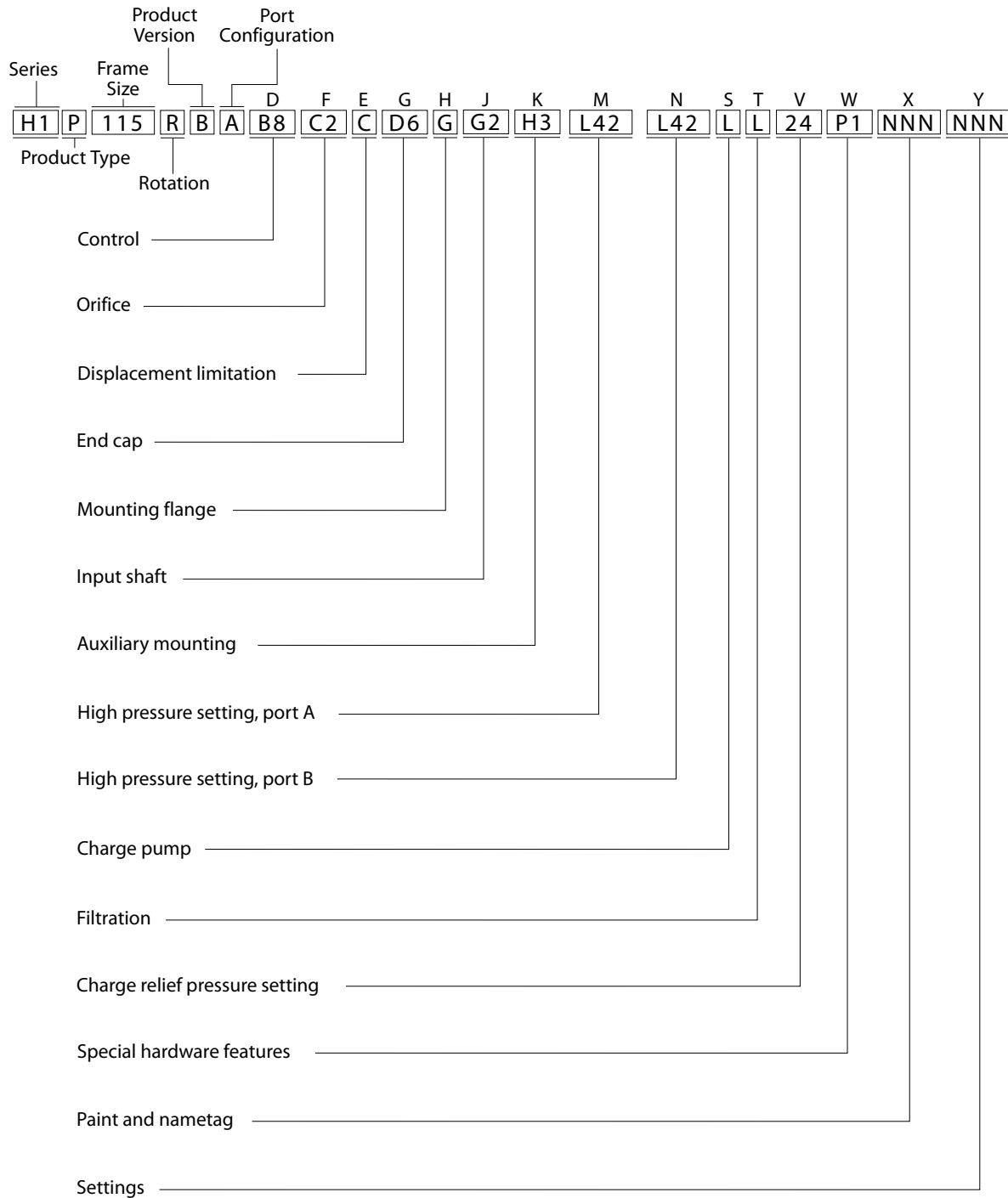
While viewing manual in Adobe Acrobat, the following settings need to be applied to ensure proper page display.

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



## General information

### Order code



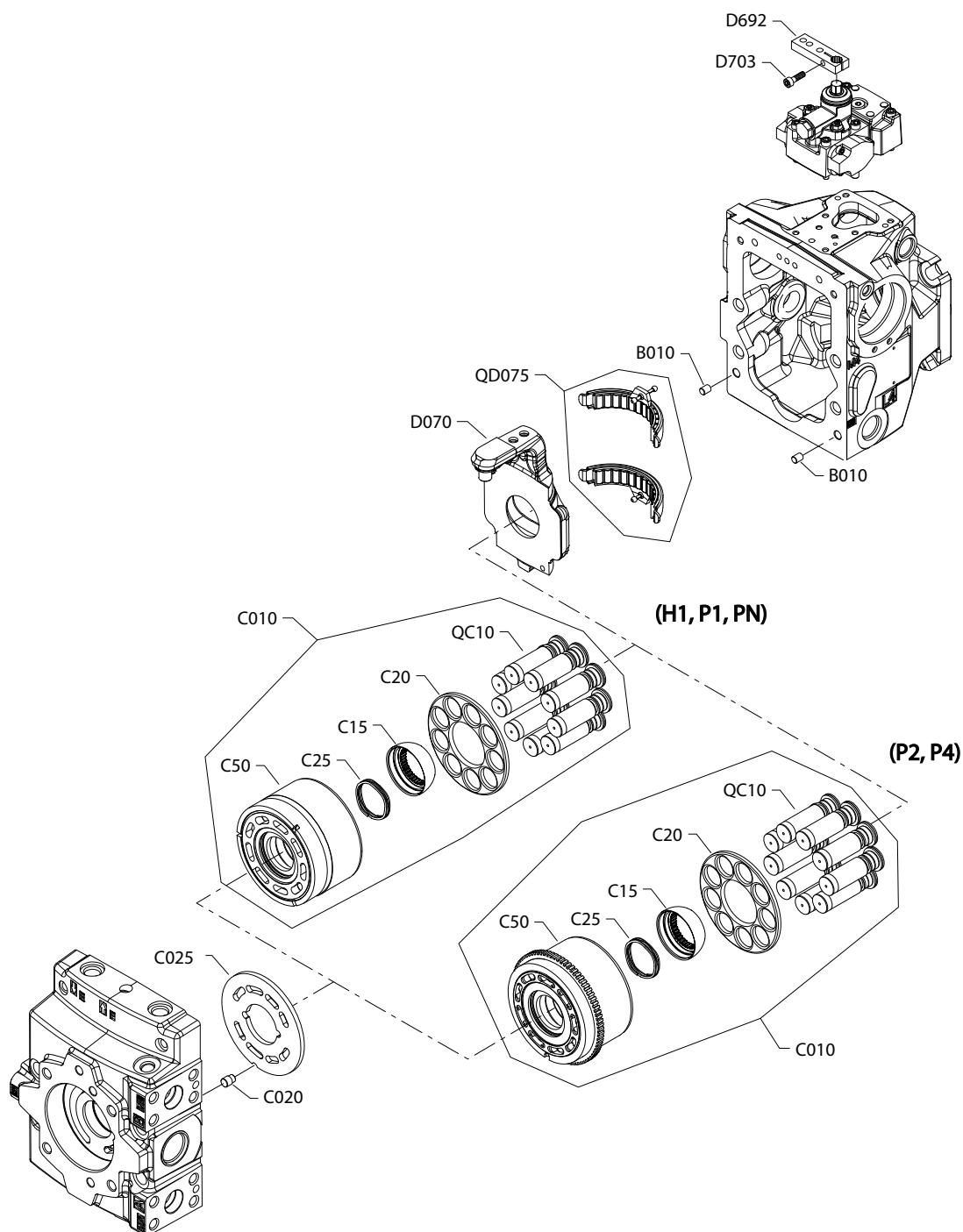
## **General information**

### **Notes**

## Common parts and special hardware

### H1P 115/130cc common parts and special hardware

#### Parts configuration



Generic control and housing used to show part location only.

## Common parts and special hardware

### Common parts

| Item  | Date Begin | Date End | Part Number  | Part Name                                                                             | Qty. per Model/Kit |
|-------|------------|----------|--------------|---------------------------------------------------------------------------------------|--------------------|
| B010  | 08-10      |          | 9004800-3708 | Dowel pin                                                                             | 2                  |
| C020  | 08-10      |          | 141128       | Valve plate pin, CCW                                                                  | 1                  |
| C020  | 08-10      |          | 141126       | Valve plate pin, CW                                                                   | 1                  |
| C15   | 17-47      |          | 11139801     | Slipper retainer ball guide, 115 and 130cc ( <a href="#">SB-2018-006</a> on page 204) | 1                  |
| C20   | 08-10      |          | 141254       | Slipper retainer                                                                      | 1                  |
| C25   | 11-38      |          | 11175204     | Spring washer 115cc ( <a href="#">SB-2011-039</a> on page 192)                        | 1                  |
| C25   | 11-35      |          | 11175204     | Spring washer, 130cc ( <a href="#">SB-2011-039</a> on page 192)                       | 1                  |
| D070  | 08-10      |          | 11295610     | Swashplate                                                                            | 1                  |
| QC10  | 08-10      |          | 11046044     | Slipper/piston kit, 115cc                                                             | 1                  |
| QC10  | 08-10      |          | 11046045     | Slipper/piston kit, 130cc                                                             | 1                  |
| QD075 | 08-10      |          | 11046046     | Swashplate bearing kit                                                                | 1                  |

### Special hardware

#### Order code: H1

|      |       |  |          |                                                                       |   |
|------|-------|--|----------|-----------------------------------------------------------------------|---|
| C010 | 17-47 |  | 11190003 | Cylinder block kit, 115 cc ( <a href="#">SB-2018-006</a> on page 204) | 1 |
| C010 | 17-47 |  | 11190004 | Cylinder block kit, 130 cc ( <a href="#">SB-2018-006</a> on page 204) | 1 |
| C025 | 13-28 |  | 11125571 | Valve plate, CCW                                                      | 1 |
| C025 | 13-28 |  | 11123707 | Valve plate, CW                                                       | 1 |
| C50  | 13-28 |  | 11124490 | Cylinder block assembly, 115cc                                        | 1 |
| C50  | 13-28 |  | 11126003 | Cylinder block assembly, 130cc                                        | 1 |
| D692 | 17-04 |  | 11185938 | Control handle ( <a href="#">SB-2018-010</a> on page 206)             | 1 |
| D703 | 17-04 |  | 11173701 | Screw, M6 x 20 ( <a href="#">SB-2018-010</a> on page 206)             | 1 |

#### Order code: NN and PN

|      |       |  |          |                                                                      |   |
|------|-------|--|----------|----------------------------------------------------------------------|---|
| C010 | 17-47 |  | 11190003 | Cylinder block kit, 115cc ( <a href="#">SB-2018-006</a> on page 204) | 1 |
| C010 | 17-47 |  | 11190004 | Cylinder block kit, 130cc ( <a href="#">SB-2018-006</a> on page 204) | 1 |
| C025 | 09-51 |  | 11125571 | Valve plate, CCW ( <a href="#">SB-2013-003</a> on page 195)          | 1 |
| C025 | 09-51 |  | 11123707 | Valve plate, CW ( <a href="#">SB-2013-003</a> on page 195)           | 1 |
| C50  | 11-38 |  | 11124490 | Cylinder block assembly, 115cc                                       | 1 |
| C50  | 11-35 |  | 11126003 | Cylinder block assembly, 130cc                                       | 1 |

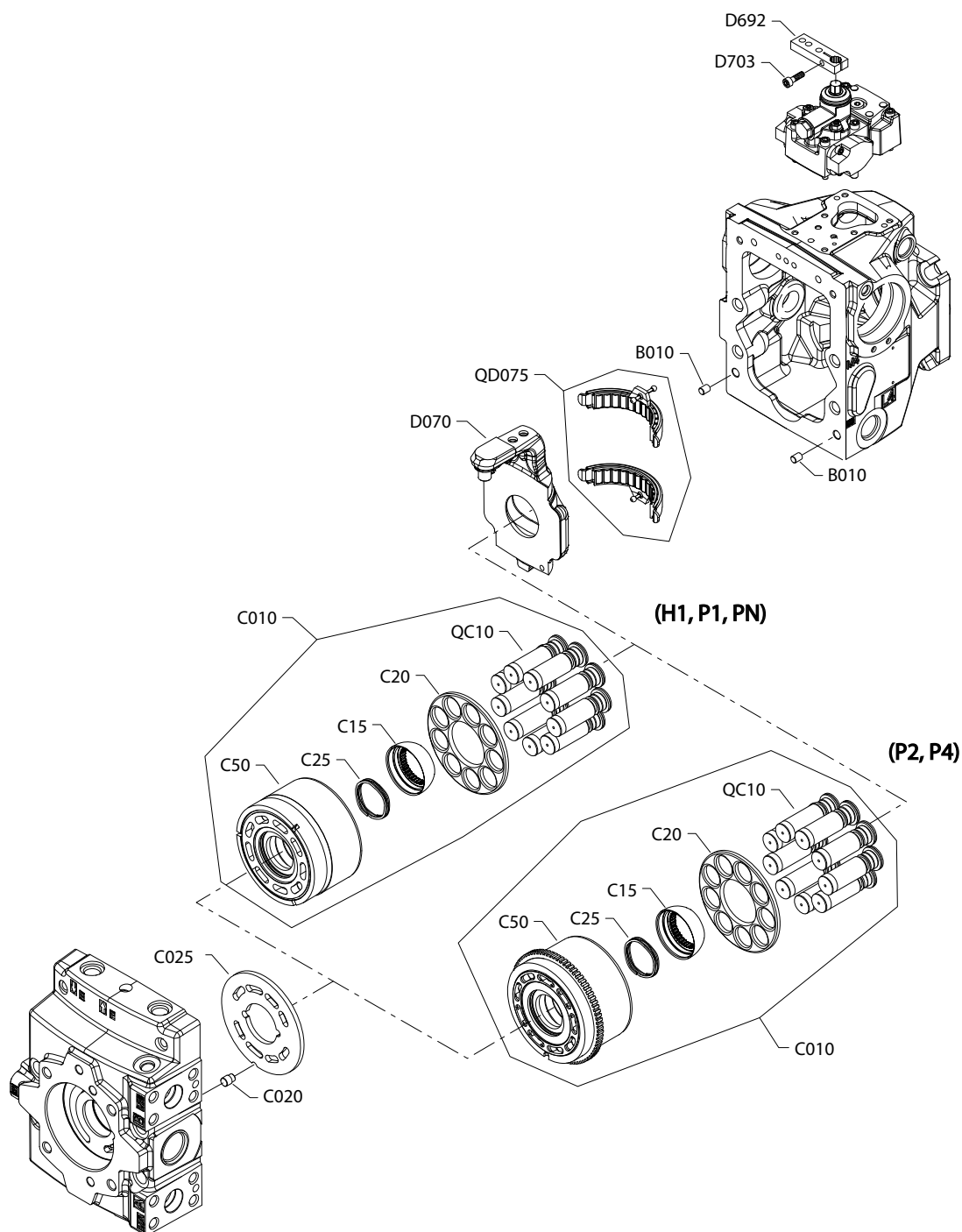
#### Order code: M1 and P1

|      |       |  |          |                                                                      |   |
|------|-------|--|----------|----------------------------------------------------------------------|---|
| C010 | 17-47 |  | 11190003 | Cylinder block kit, 115cc ( <a href="#">SB-2018-006</a> on page 204) | 1 |
| C010 | 17-47 |  | 11190004 | Cylinder block kit, 130cc ( <a href="#">SB-2018-006</a> on page 204) | 1 |
| C025 | 09-51 |  | 11125569 | Valve plate, CCW ( <a href="#">SB-2013-003</a> on page 195)          | 1 |
| C025 | 09-51 |  | 11125572 | Valve plate, CW ( <a href="#">SB-2013-003</a> on page 195)           | 1 |
| C50  | 11-38 |  | 11124490 | Cylinder block assembly, 115cc                                       | 1 |
| C50  | 11-35 |  | 11126003 | Cylinder block assembly, 130cc                                       | 1 |

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

## Common parts and special hardware

### Parts configuration



Generic control and housing used to show part location only.

## Common parts and special hardware

Order code: M2 and P2

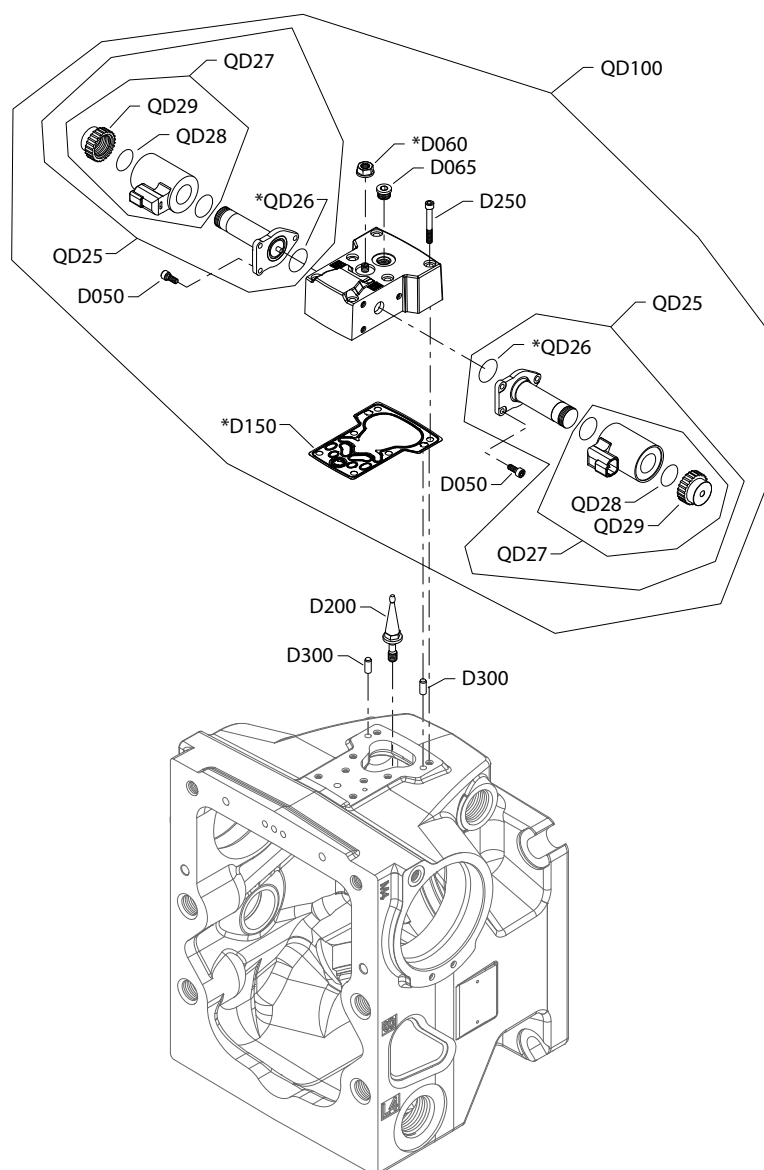
| Item | Date Begin | Date End | Part Number | Part Name                                                                         | Qty. per Model/Kit |
|------|------------|----------|-------------|-----------------------------------------------------------------------------------|--------------------|
| C010 | 17-47      |          | 11191005    | Cylinder block kit w/speed ring, 115cc ( <a href="#">SB-2018-006</a> on page 204) | 1                  |
| C010 | 17-47      |          | 11191006    | Cylinder block kit w/speed ring, 130cc ( <a href="#">SB-2018-006</a> on page 204) | 1                  |
| C025 | 09-51      |          | 11125569    | Valve plate, CCW ( <a href="#">SB-2013-003</a> on page 195)                       | 1                  |
| C025 | 09-51      |          | 11125572    | Valve plate, CW ( <a href="#">SB-2013-003</a> on page 195)                        | 1                  |
| C50  | 11-38      |          | 11124491    | Cylinder block assembly, speed ring, 115cc                                        | 1                  |
| C50  | 11-35      |          | 11124493    | Cylinder block assembly, speed ring, 130cc                                        | 1                  |

Order code: P4

|      |       |  |          |                                                                                   |   |
|------|-------|--|----------|-----------------------------------------------------------------------------------|---|
| C010 | 17-47 |  | 11191005 | Cylinder block kit w/speed ring, 115cc ( <a href="#">SB-2018-006</a> on page 204) | 1 |
| C010 | 17-47 |  | 11191006 | Cylinder block kit w/speed ring, 130cc ( <a href="#">SB-2018-006</a> on page 204) | 1 |
| C025 | 10-17 |  | 11125571 | Valve plate, CCW ( <a href="#">SB-2013-003</a> on page 195)                       | 1 |
| C025 | 10-17 |  | 11123707 | Valve plate, CW ( <a href="#">SB-2013-003</a> on page 195)                        | 1 |
| C50  | 11-38 |  | 11124491 | Cylinder block assembly, speed ring, 115cc                                        | 1 |
| C50  | 11-35 |  | 11124493 | Cylinder block assembly, speed ring, 130cc                                        | 1 |

## Controls

### H1P control A2, A3



E100 912E

Generic housing shown.

Option A2 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 | 08-10      |          | 716860                | Screw, M5 x 12                                                       | 6                  |
| D060 | 08-10      |          | 612291 (9003508-0008) | Seal nut, M8                                                         | 1                  |
| D065 | 08-10      |          | 9005110-4400          | Plug assembly (SAE)                                                  | 1                  |
| D150 | 08-10      |          | 11227209              | Control gasket ( <a href="#">SB-2016-033</a> on page 203)            | 1                  |
| D200 | 08-10      |          | 11202172              | Swash plate feedback link ( <a href="#">SB-2018-025</a> on page 207) | 1                  |
| D250 | 08-10      |          | 505038                | Screw, M6 x 45                                                       | 6                  |
| D300 | 08-10      |          | 310979                | Dowel pin                                                            | 2                  |
| QD26 | 08-10      |          | 11001952              | O-ring                                                               | 2                  |
| QD28 | 08-10      |          | 063172                | O-ring                                                               | 2                  |

### Order code: A2

|       |       |  |          |                                               |   |
|-------|-------|--|----------|-----------------------------------------------|---|
| D065  | 16-09 |  | 5000572  | Plug assembly, M12 (metric)                   | 1 |
| QD25  | 08-10 |  | 11012457 | Proportional solenoid, 12v                    | 2 |
| QD27  | 08-10 |  | 11028018 | Coil kit, 12v, DEUTSCH connector              | 2 |
| QD29  | 08-10 |  | 11027046 | Coil nut                                      | 2 |
| QD100 | 08-10 |  | 11019680 | EDC kit, 12v, DEUTSCH connector, fast         | 1 |
| QD100 | 16-09 |  | 11173918 | EDC kit, 12v DEUTSCH connector, fast (metric) | 1 |

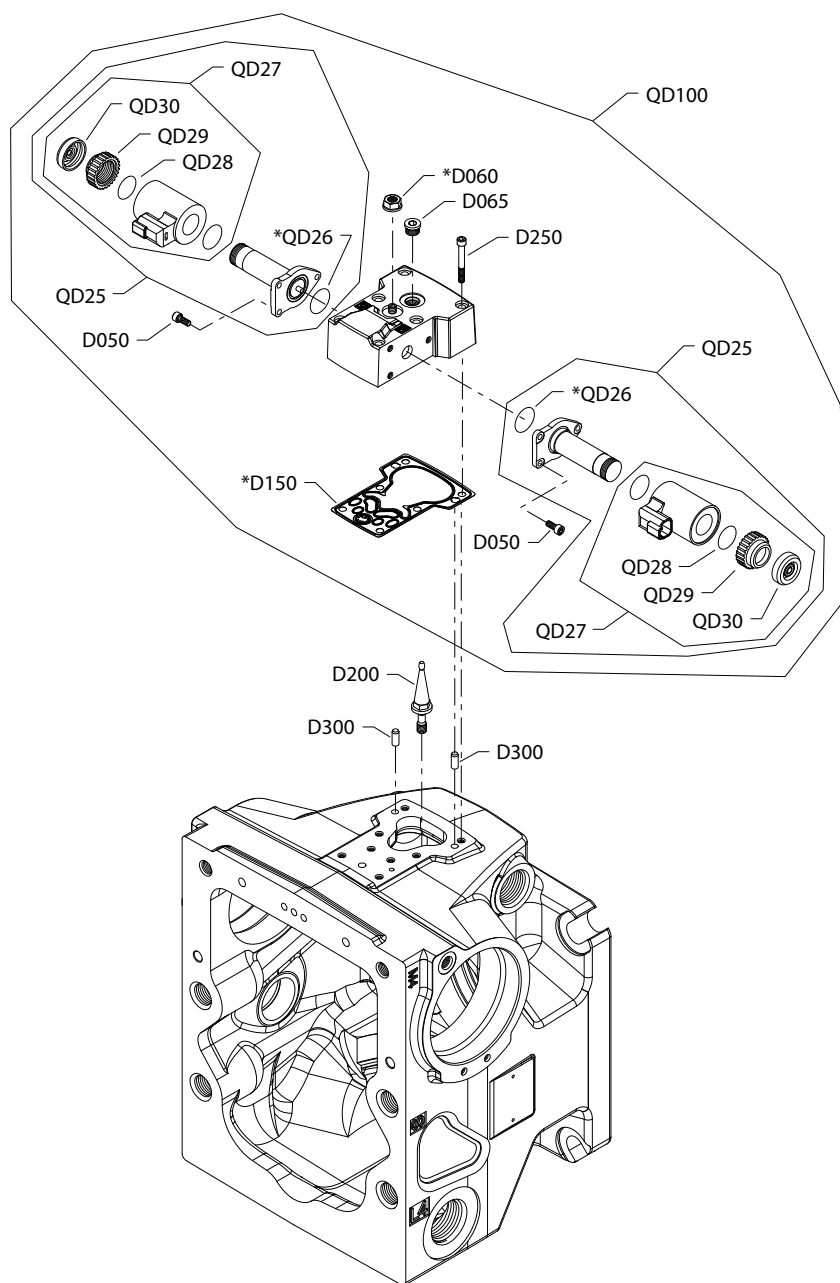
### Order code: A3

|       |       |  |          |                                       |   |
|-------|-------|--|----------|---------------------------------------|---|
| QD25  | 08-10 |  | 11012459 | Proportional solenoid, 24v            | 2 |
| QD27  | 08-10 |  | 11028019 | Coil kit, 24v, DEUTSCH connector      | 2 |
| QD29  | 08-10 |  | 11028024 | Coil nut                              | 2 |
| QD100 | 08-10 |  | 11019681 | EDC kit, 24v, DEUTSCH connector, fast | 1 |

## Controls

### H1P control A4, A5

A4 and A5 configuration



Generic housing shown.

Option A5 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 | 08-10      |          | 716860                | Screw, M5 x 12                                                       | 6                  |
| D060 | 08-10      |          | 612291 (9003508-0008) | Seal nut, M8                                                         | 1                  |
| D065 | 08-10      |          | 9005110-4400          | Plug assembly                                                        | 1                  |
| D150 | 08-10      |          | 11227209              | Control gasket ( <a href="#">SB-2016-033</a> on page 203)            | 1                  |
| D200 | 08-10      |          | 11202172              | Swash plate feedback link ( <a href="#">SB-2018-025</a> on page 207) | 1                  |
| D250 | 08-10      |          | 505038                | Screw, M6 x 45                                                       | 6                  |
| D300 | 08-10      |          | 310979                | Dowel pin                                                            | 2                  |
| QD26 | 08-10      |          | 11001952              | O-ring                                                               | 2                  |
| QD28 | 08-10      |          | 063172                | O-ring                                                               | 2                  |
| QD30 | 08-10      |          | 11027883              | Cap                                                                  | 2                  |

### Order code: A4

|       |       |  |          |                                                        |   |
|-------|-------|--|----------|--------------------------------------------------------|---|
| QD25  | 08-10 |  | 140750   | Proportional solenoid, 12v                             | 2 |
| QD27  | 08-10 |  | 11004698 | Coil kit, 12v, DEUTSCH connector                       | 2 |
| QD29  | 08-10 |  | 11319330 | Coil nut                                               | 2 |
| QD100 | 08-10 |  | 11019732 | EDC kit, 12v, DEUTSCH connector, fast, manual override | 1 |

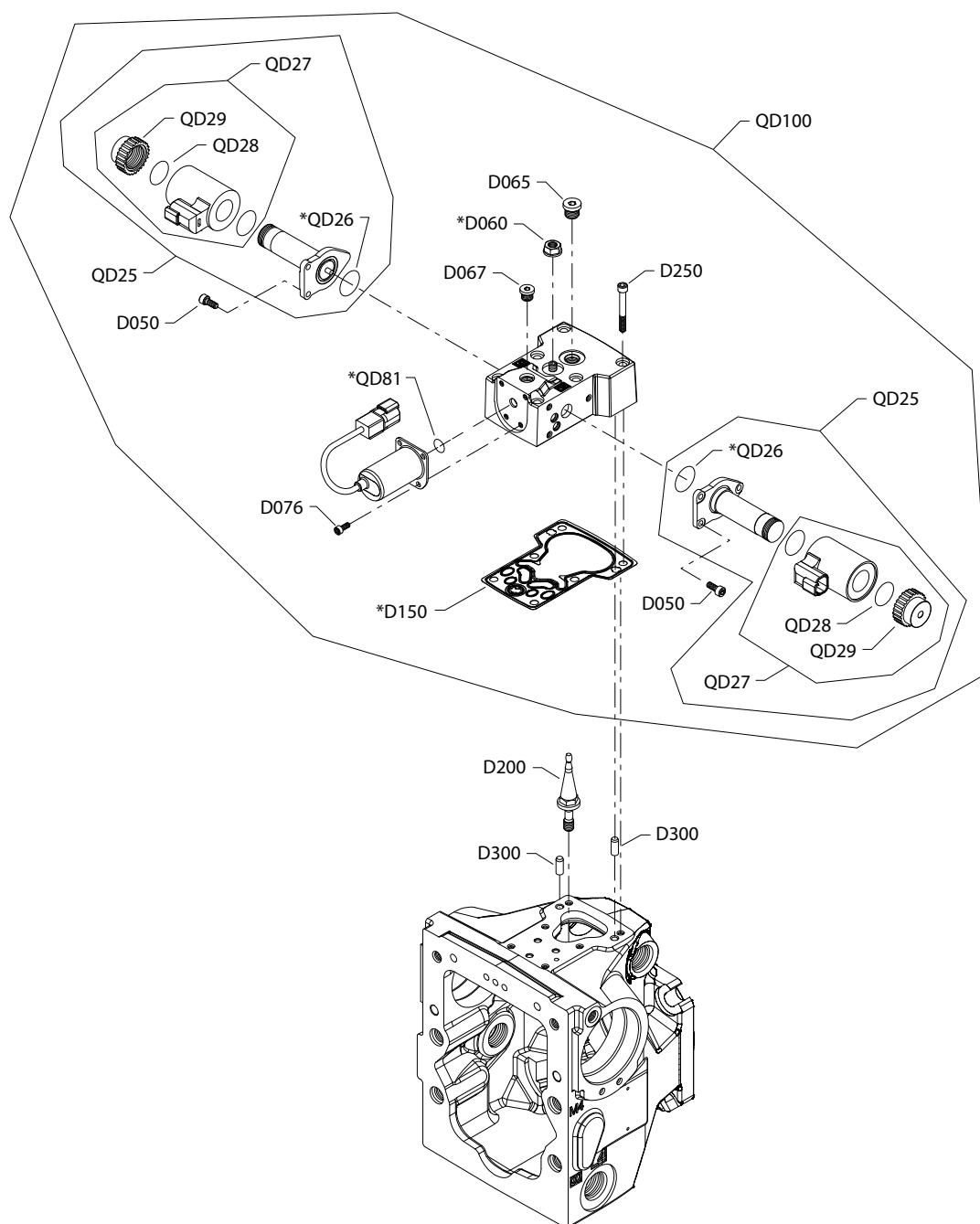
### Order code: A5

|       |       |  |          |                                                                |   |
|-------|-------|--|----------|----------------------------------------------------------------|---|
| D065  | 16-09 |  | 5000572  | Plug assembly, M12 (metric)                                    | 1 |
| QD25  | 08-10 |  | 140751   | Proportional solenoid, 24v                                     | 2 |
| QD27  | 08-10 |  | 11004700 | Coil kit, 24v, DEUTSCH connector                               | 2 |
| QD29  | 08-10 |  | 11319361 | Coil nut                                                       | 2 |
| QD100 | 08-10 |  | 11019733 | EDC kit, 24v, DEUTSCH connector, fast, manual override         | 1 |
| QD100 | 16-09 |  | 11170082 | EDC kit, 24v DEUTSCH connector, fast, manual override (metric) | 1 |

## Controls

### H1P control A6

#### Parts configuration



Generic housing shown.

\* Included in overhaul seal kit Q210

## Controls

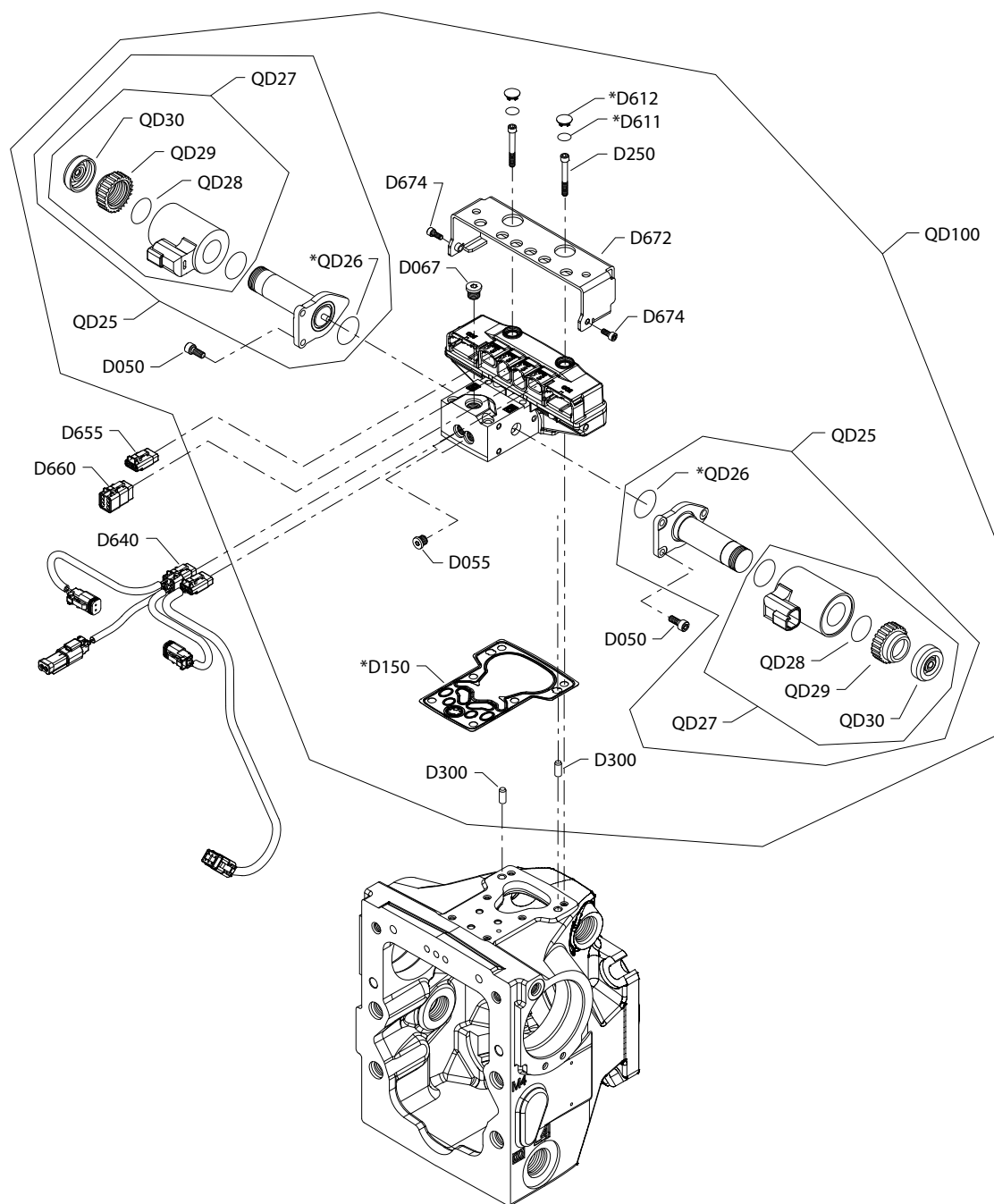
Order code: A6

| Item  | Date Begin | Date End | Part Number           | Part Name                                                                                  | Qty. per Model/Kit |
|-------|------------|----------|-----------------------|--------------------------------------------------------------------------------------------|--------------------|
| D050  | 08-10      | 12-52    | 716860                | Screw, M5 x 12                                                                             | 6                  |
| D060  | 08-10      | 12-52    | 612291 (9003508-0008) | Seal nut, M8                                                                               | 1                  |
| D065  | 08-10      | 12-52    | 9005110-4400          | Plug assembly                                                                              | 1                  |
| D067  | 08-10      | 12-52    | 11040532              | Plug assembly                                                                              | 1                  |
| D076  | 08-10      | 12-52    | 346957                | Screw, M4 x 8                                                                              | 4                  |
| D150  | 08-10      | 12-52    | 11227209              | Control gasket ( <a href="#">SB-2016-033</a> on page 203)                                  | 1                  |
| D200  | 08-10      | 12-52    | 11202172              | Swashplate feedback link ( <a href="#">SB-2018-025</a> on page 207)                        | 1                  |
| D250  | 08-10      | 12-52    | 505038                | Screw, M6 x 45                                                                             | 6                  |
| D300  | 08-10      | 12-52    | 310979                | Dowel pin                                                                                  | 2                  |
| QD25  | 08-10      | 12-52    | 11012457              | Proportional solenoid, 12V                                                                 | 2                  |
| QD26  | 08-10      | 12-52    | 11001952              | O-ring                                                                                     | 2                  |
| QD27  | 08-10      | 12-52    | 11028018              | Coil kit, 12V, DEUTSCH connector                                                           | 2                  |
| QD28  | 08-10      | 12-52    | 063172                | O-ring                                                                                     | 2                  |
| QD29  | 08-10      | 12-52    | 11027046              | Coil nut                                                                                   | 2                  |
| QD081 | 08-10      | 12-52    | 11059551              | O-ring                                                                                     | 1                  |
| QD100 | 08-10      | 12-52    | 11152574              | EDC kit, 12V, high gain spool, control override ( <a href="#">SB-2015-035</a> on page 198) | 1                  |

## Controls

### H1P control A7

#### Parts configuration



Generic housing shown

\* Included in overhaul seal kit

## Controls

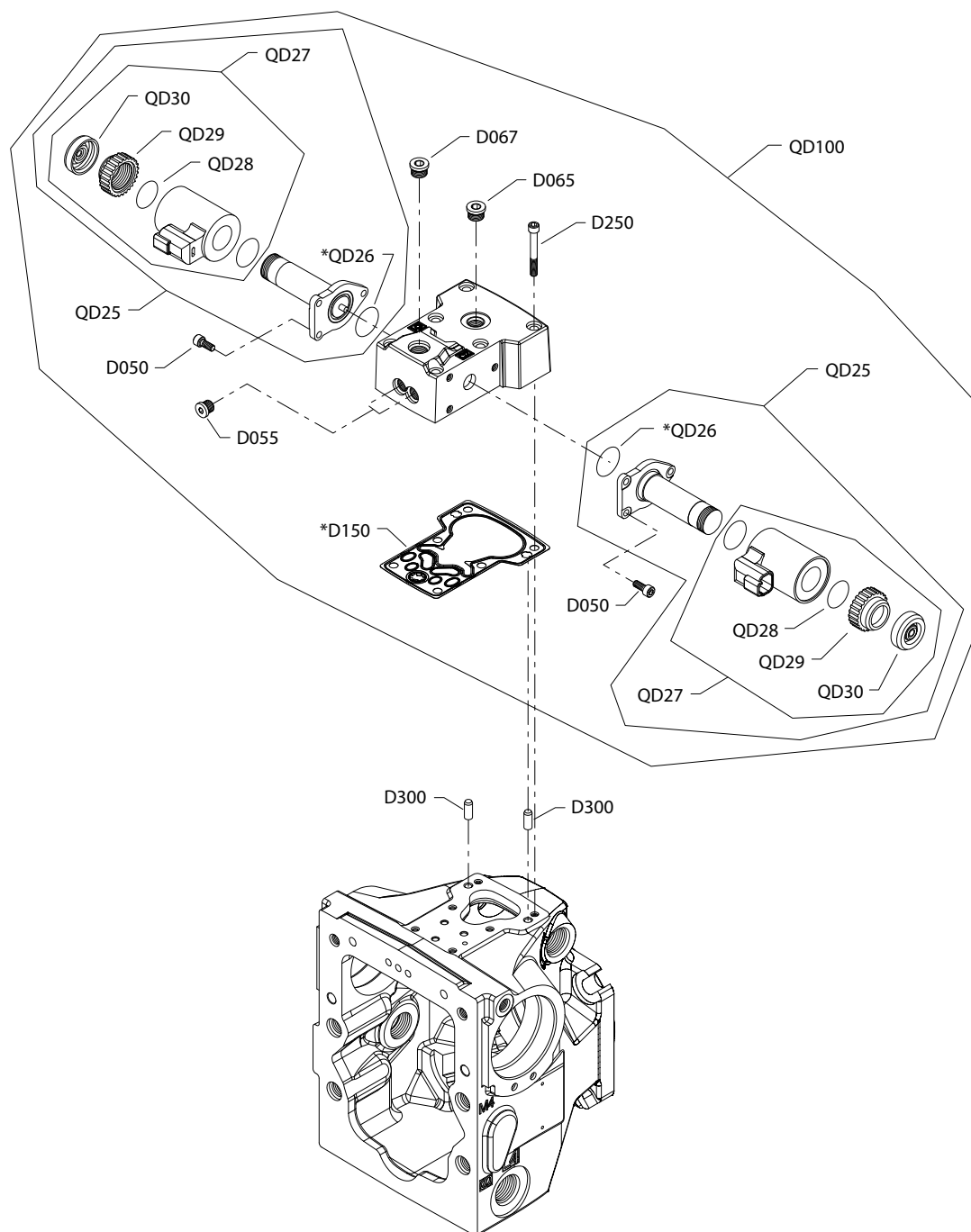
Order code: A7

| Item  | Date Begin | Date End | Part Number  | Part Name                                                 | Qty. per Model/Kit |
|-------|------------|----------|--------------|-----------------------------------------------------------|--------------------|
| D050  | 10-14      |          | 716860       | Screw, M5 x 12                                            | 6                  |
| D055  | 10-14      |          | 11040532     | Plug assembly                                             | 2                  |
| D067  | 10-14      |          | 9005110-4400 | Plug assembly                                             | 1                  |
| D150  | 10-14      |          | 11227209     | Control gasket ( <a href="#">SB-2016-033</a> on page 203) | 1                  |
| D250  | 10-14      |          | 505038       | Screw, M6 x 45                                            | 6                  |
| D300  | 10-14      |          | 11036469     | Dowel pin                                                 | 2                  |
| D612  | 10-14      | 21-12    | 11003126     | Plug ( <a href="#">SB-2021-014</a> on page 210)           | 2                  |
| D612  | 21-13      |          | 11223708     | Plug                                                      | 2                  |
| D611  | 10-14      | 21-12    | 11066774     | O-ring ( <a href="#">SB-2021-014</a> on page 210)         | 2                  |
| D611  | 21-13      |          | 11225703     | O-ring                                                    | 2                  |
| D640  | 10-14      |          | 11023348     | AC wiring harness                                         | 1                  |
| D655  | 10-14      |          | 11084827     | Connector DTM 06-3S                                       | 1                  |
| D660  | 10-14      |          | 11084822     | Connector DTM 06-6S                                       | 1                  |
| D672  | 10-14      |          | 11151875     | Protection                                                | 1                  |
| D674  | 10-14      |          | 716860       | Screw, M5 x 12                                            | 2                  |
| QD25  | 10-14      |          | 140750       | Proportional solenoid, 12 volt                            | 2                  |
| QD26  | 10-14      |          | 11001952     | O-ring                                                    | 2                  |
| QD27  | 10-14      |          | 11004698     | Coil kit, 12v, DEUTSCH connector                          | 2                  |
| QD28  | 10-14      |          | 063172       | O-ring                                                    | 2                  |
| QD29  | 10-14      |          | 11319330     | Coil nut                                                  | 2                  |
| QD30  | 10-14      |          | 11027883     | Cap                                                       | 2                  |
| QD100 | 10-14      |          | 11232544     | Automotive control kit, 12v, manual override              | 1                  |

## Controls

### H1P control A8

#### Parts configuration



Generic housing shown.

\* Included in overhaul seal kit Q210

## Controls

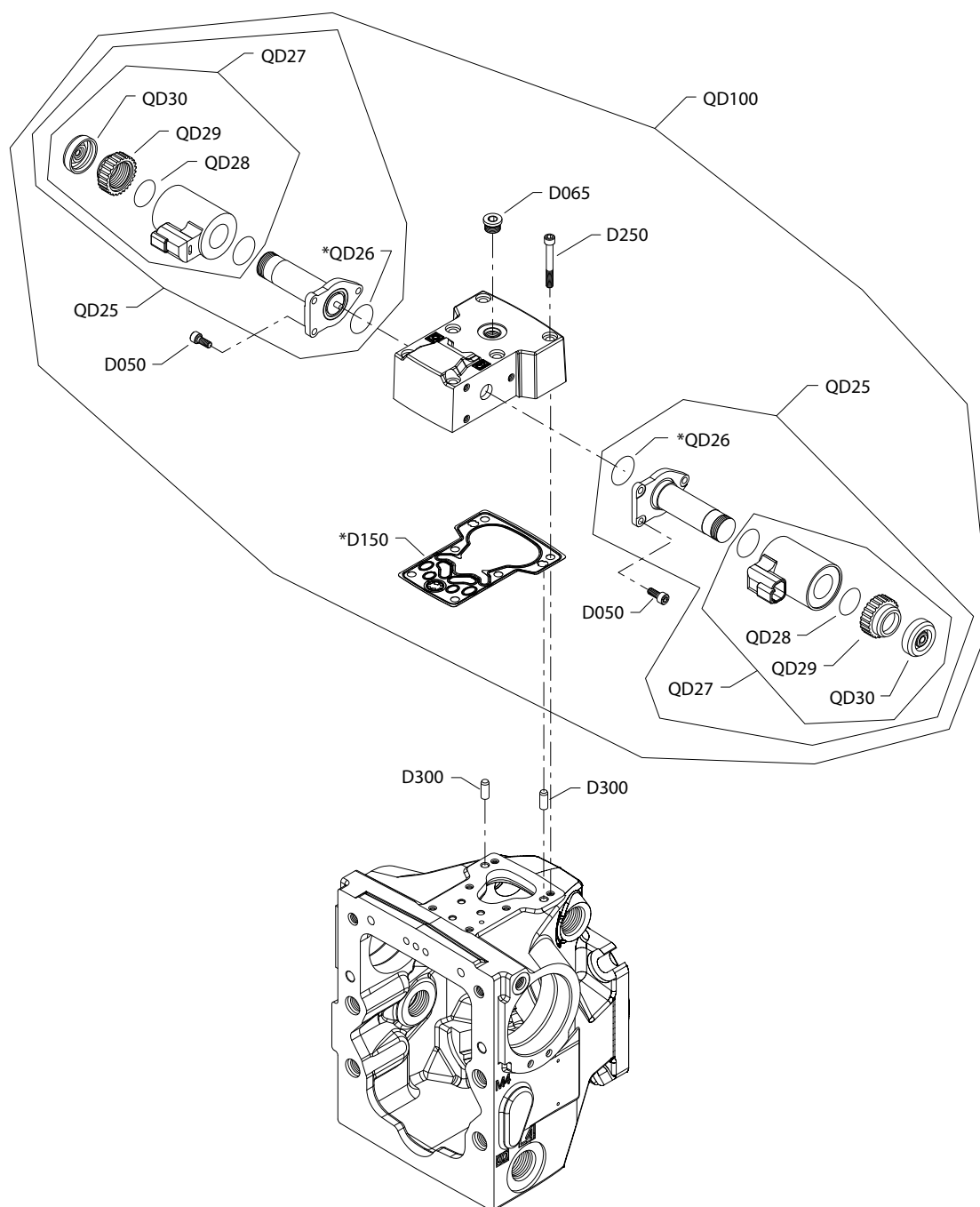
Order code: A8

| Item  | Date Begin | Date End | Part Number  | Part Name                                                 | Qty. per Model/Kit |
|-------|------------|----------|--------------|-----------------------------------------------------------|--------------------|
| D050  | 08-10      |          | 716860       | Screw, M5 x 12                                            | 6                  |
| D055  | 08-10      |          | 11040532     | Plug assembly                                             | 2                  |
| D065  | 08-10      |          | 9005110-4400 | Plug assembly                                             | 1                  |
| D067  | 08-10      |          | 9005110-4400 | Plug assembly                                             | 1                  |
| D150  | 08-10      |          | 11227209     | Control gasket ( <a href="#">SB-2016-033</a> on page 203) | 1                  |
| D250  | 08-10      |          | 505038       | Screw, M6 x 45                                            | 6                  |
| D300  | 08-10      |          | 310979       | Dowel pin                                                 | 2                  |
| QD25  | 08-10      |          | 140750       | Proportional solenoid, 12v, DEUTSCH connector             | 2                  |
| QD26  | 08-10      |          | 11001952     | O-ring                                                    | 2                  |
| QD27  | 08-10      |          | 11004698     | Coil kit, 12v, DEUTSCH connector                          | 2                  |
| QD28  | 08-10      |          | 063172       | O-ring                                                    | 2                  |
| QD29  | 08-10      |          | 11319330     | Coil nut                                                  | 2                  |
| QD30  | 08-10      |          | 11027883     | Cap                                                       | 2                  |
| QD100 | 08-10      |          | 11015803     | NFPE control kit, 12V, manual override, DEUTSCH connector | 1                  |

## Controls

### H1P control A9, B1

#### 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 | 08-10      |          | 716860       | Screw, M5 x 12 | 6                  |
| D065 | 08-10      |          | 9005110-4400 | Plug assembly  | 1                  |
| D150 | 08-10      |          | 11227209     | Control gasket | 1                  |
| D250 | 08-10      |          | 505038       | Screw, M6 x 45 | 6                  |
| D300 | 08-10      |          | 310979       | Dowel pin      | 2                  |
| QD26 | 08-10      |          | 11001952     | O-ring         | 2                  |
| QD28 | 08-10      |          | 063172       | O-ring         | 2                  |
| QD30 | 08-10      |          | 11027883     | Cap            | 2                  |

### Order code: A9

|       |       |  |          |                                                          |   |
|-------|-------|--|----------|----------------------------------------------------------|---|
| QD25  | 08-10 |  | 141301   | Proportional solenoid, 12v, DEUTSCH connector            | 2 |
| QD27  | 08-10 |  | 11005222 | Coil kit, 12v, DEUTSCH connector                         | 2 |
| QD29  | 08-10 |  | 11319330 | Coil nut                                                 | 2 |
| QD100 | 08-10 |  | 11025905 | FNR control kit, 12v, manual override, DEUTSCH connector | 1 |

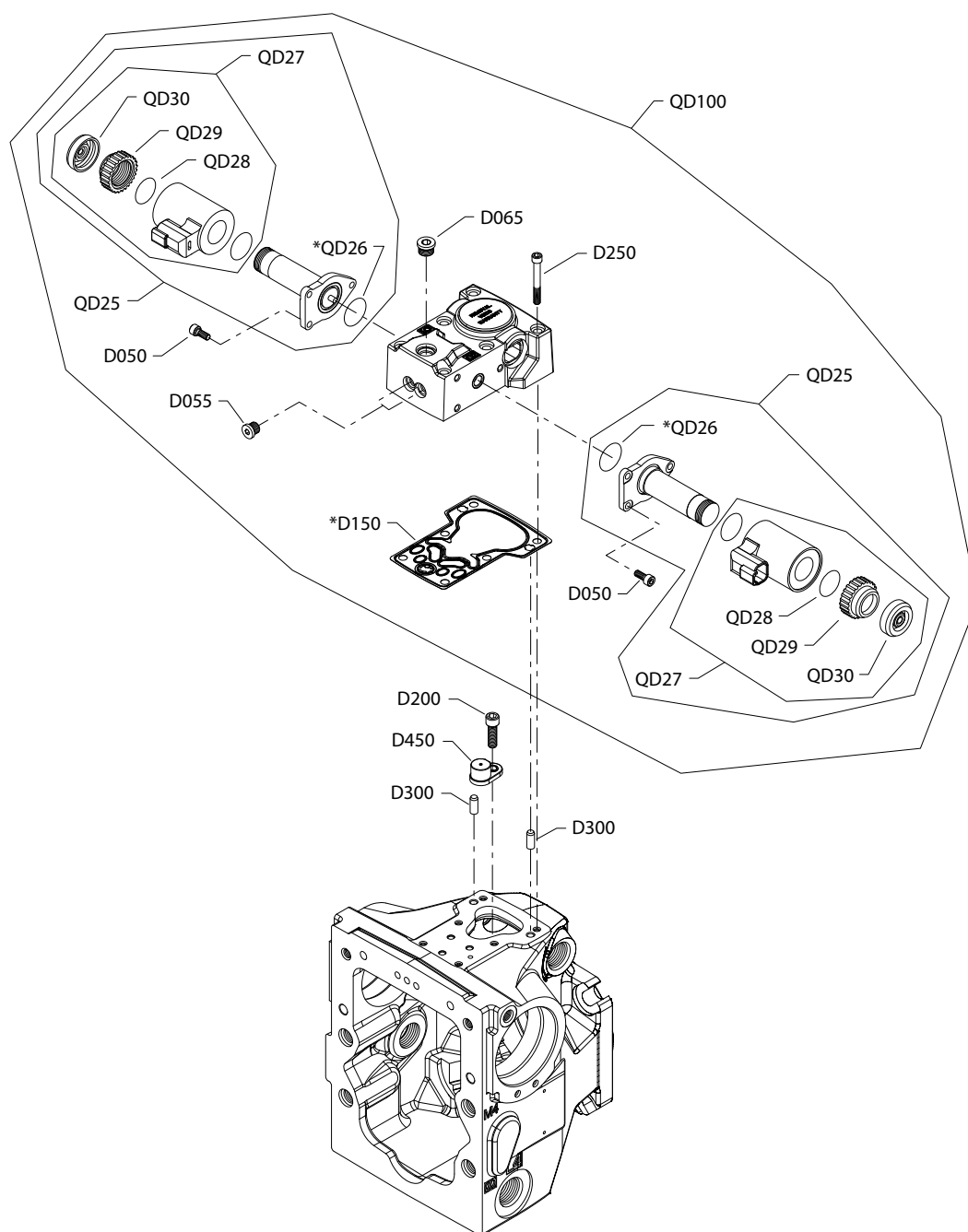
### Order code: B1

|       |       |  |          |                                                          |   |
|-------|-------|--|----------|----------------------------------------------------------|---|
| QD25  | 08-10 |  | 141313   | Proportional solenoid, 24v, DEUTSCH connector            | 2 |
| QD27  | 08-10 |  | 11005223 | Coil kit, 24v, DEUTSCH connector                         | 2 |
| QD29  | 08-10 |  | 11319361 | Coil nut                                                 | 2 |
| QD100 | 08-10 |  | 11025906 | FNR control kit, 24v, manual override, DEUTSCH connector | 1 |

## Controls

### H1P control B5

#### Parts configuration



Generic housing shown

\* Included in overhaul seal kit Q210

## Controls

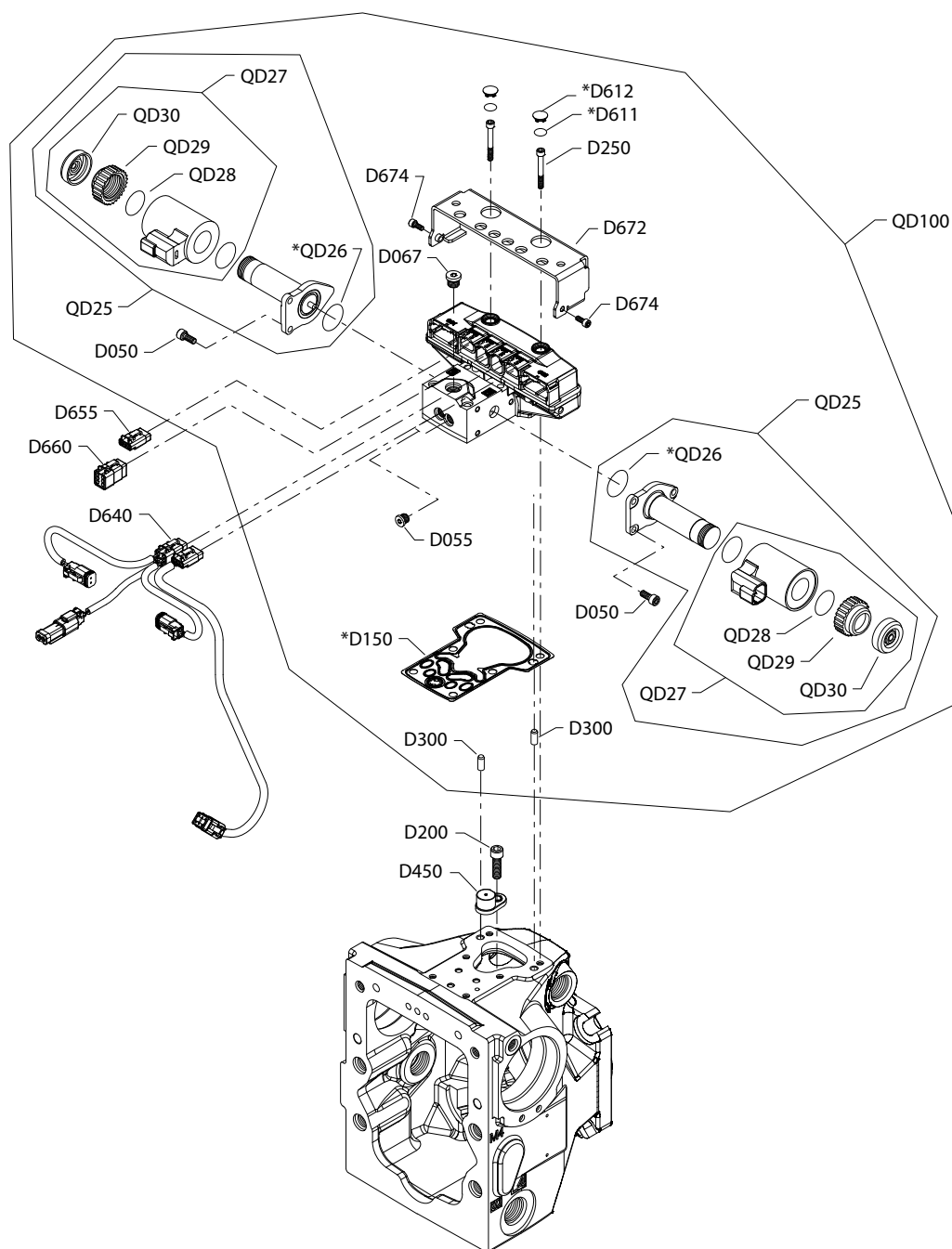
Order code: B5

| Item  | Date Begin | Date End | Part Number  | Part Name                                                 | Qty. per Model/Kit |
|-------|------------|----------|--------------|-----------------------------------------------------------|--------------------|
| D050  | 10-14      |          | 716860       | Screw                                                     | 6                  |
| D055  | 10-14      |          | 11040532     | Plug assembly                                             | 2                  |
| D067  | 10-14      |          | 9005110-4400 | Plug assembly                                             | 1                  |
| D150  | 10-14      |          | 11227209     | Control gasket ( <a href="#">SB-2016-033</a> on page 203) | 1                  |
| D200  | 10-14      |          | 141472       | Screw                                                     | 1                  |
| D250  | 10-14      |          | 505038       | Screw                                                     | 6                  |
| D300  | 10-14      |          | 310979       | Dowel pin                                                 | 2                  |
| D450  | 10-14      |          | 11003097     | Magnet carrier                                            | 1                  |
| QD25  | 10-14      |          | 140750       | Proportional solenoid, 12 volt                            | 2                  |
| QD26  | 10-14      |          | 11001952     | O-ring                                                    | 2                  |
| QD27  | 10-14      |          | 11004698     | Coil kit, 12V, DEUTSCH connector                          | 2                  |
| QD28  | 10-14      |          | 063172       | O-ring                                                    | 2                  |
| QD29  | 10-14      |          | 11319330     | Coil nut                                                  | 2                  |
| QD30  | 10-14      |          | 11027883     | Cap                                                       | 2                  |
| QD100 | 10-14      |          | 11050138     | NFPE control kit, 12V, manual override                    | 1                  |

## Controls

### H1P control B7

#### Parts configuration



Generic housing shown.

\* Included in overhaul seal kit Q210

## Controls

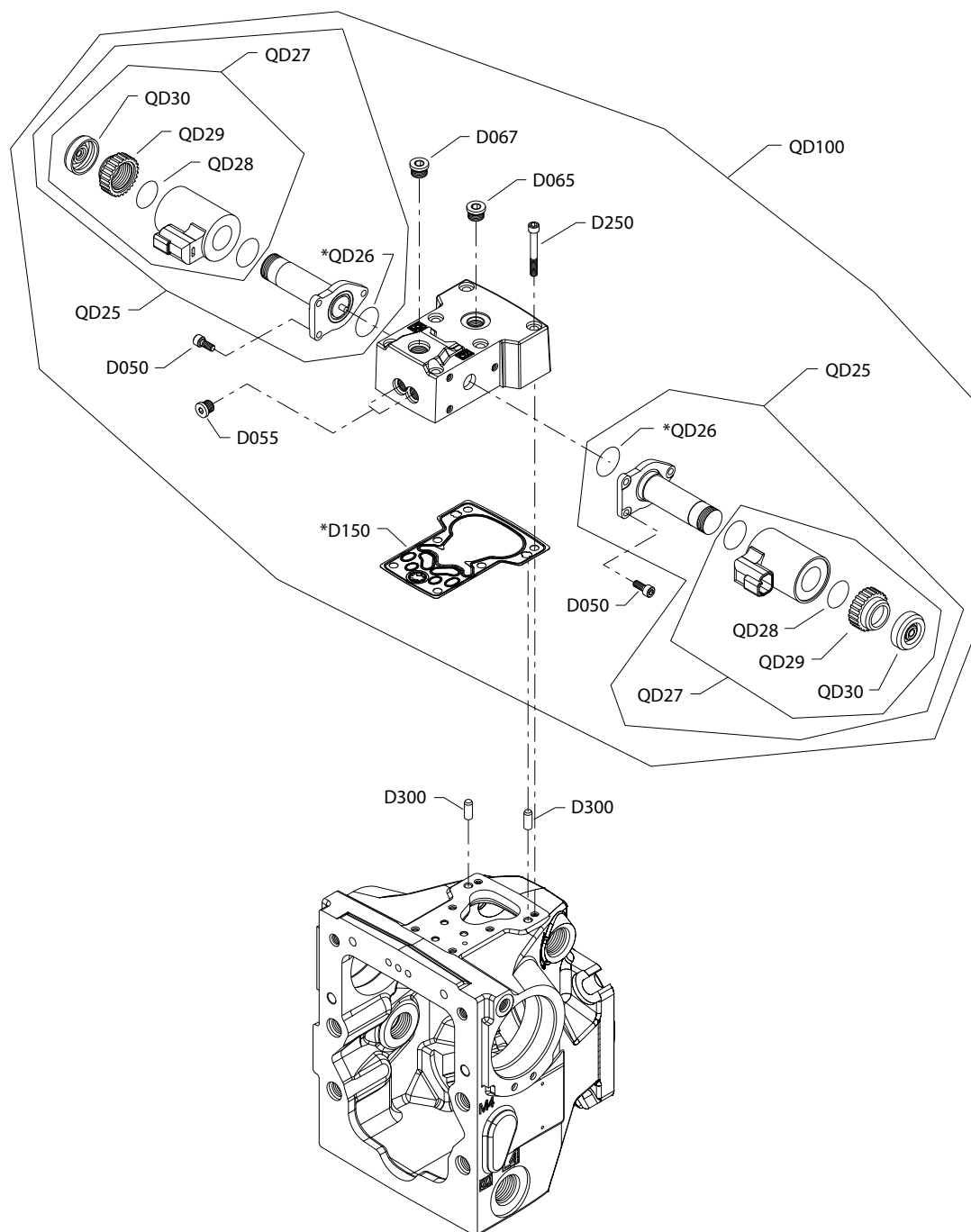
Order code: B7

| Item  | Date Begin | Date End | Part Number  | Part Name                                                 | Qty. per Model/Kit |
|-------|------------|----------|--------------|-----------------------------------------------------------|--------------------|
| D050  | 10-14      |          | 716860       | Screw, M5 x 12                                            | 6                  |
| D055  | 10-14      |          | 11040532     | Plug assembly                                             | 2                  |
| D067  | 10-14      |          | 9005110-4400 | Plug assembly                                             | 1                  |
| D150  | 10-14      |          | 11227209     | Control gasket ( <a href="#">SB-2016-033</a> on page 203) | 1                  |
| D200  | 10-14      |          | 141472       | Screw, special                                            | 1                  |
| D250  | 10-14      |          | 505038       | Screw, M6 x 45                                            | 6                  |
| D300  | 10-14      |          | 11036469     | Dowel pin                                                 | 2                  |
| D450  | 10-14      |          | 11003097     | Magnet carrier                                            | 1                  |
| D611  | 10-14      | 21-12    | 11066774     | O-ring ( <a href="#">SB-2021-014</a> on page 210)         | 2                  |
| D611  | 21-13      |          | 11225703     | O-ring                                                    | 2                  |
| D612  | 10-14      | 21-12    | 11003126     | Plug ( <a href="#">SB-2021-014</a> on page 210)           | 2                  |
| D612  | 21-13      |          | 11223708     | Plug                                                      | 2                  |
| D640  | 10-14      |          | 11023348     | AC wiring harness                                         | 1                  |
| D655  | 10-14      |          | 11084827     | Connector DTM 06-3S                                       | 1                  |
| D660  | 10-14      |          | 11084822     | Connector DTM 06-6S                                       | 1                  |
| D672  | 10-14      |          | 11151875     | Protection                                                | 1                  |
| D674  | 10-14      |          | 716860       | Screw, M5 x 12                                            | 2                  |
| QD25  | 10-14      |          | 140750       | Proportional solenoid, 12 volt                            | 2                  |
| QD26  | 10-14      |          | 11001952     | O-ring                                                    | 2                  |
| QD27  | 10-14      |          | 11004698     | Coil kit, 12v, DEUTSCH connector                          | 2                  |
| QD28  | 10-14      |          | 063172       | O-ring                                                    | 2                  |
| QD29  | 10-14      |          | 11319330     | Coil nut                                                  | 2                  |
| QD30  | 10-14      |          | 11027883     | Cap                                                       | 2                  |
| QD100 | 10-14      |          | 11232766     | Automotive control kit, 12v, manual override              | 1                  |

## Controls

### H1P control B8

#### Parts configuration



Generic housing shown.

\* Included in overhaul seal kit Q210

## Controls

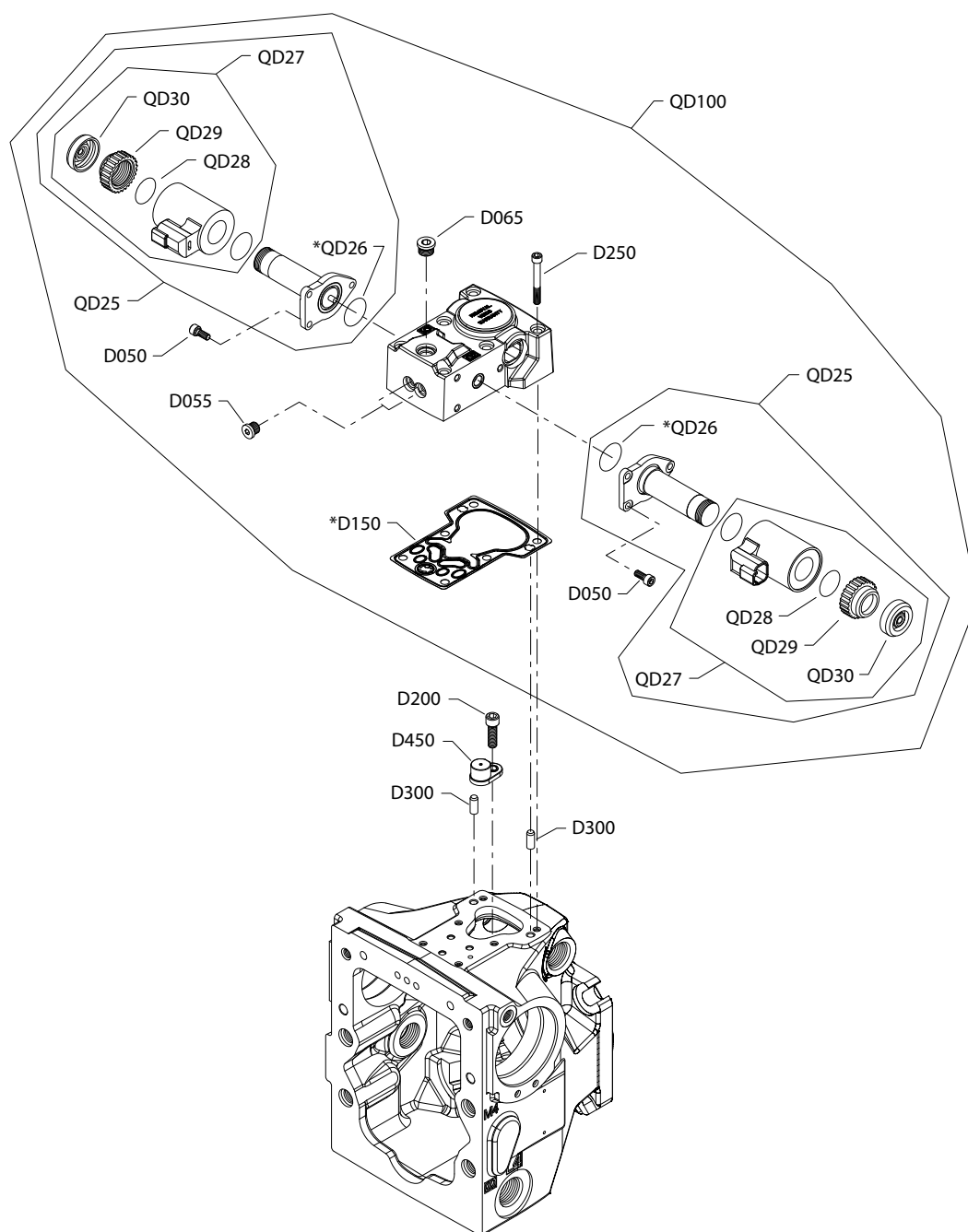
Order code: B8

| Item  | Date Begin | Date End | Part Number  | Part Name                                                 | Qty. per Model/Kit |
|-------|------------|----------|--------------|-----------------------------------------------------------|--------------------|
| D050  | 08-10      |          | 716860       | Screw, M5 x 12                                            | 6                  |
| D055  | 08-10      |          | 11040532     | Plug assembly                                             | 2                  |
| D065  | 08-10      |          | 9005110-4400 | Plug assembly                                             | 1                  |
| D067  | 08-10      |          | 9005110-4400 | Plug assembly                                             | 1                  |
| D150  | 08-10      |          | 11227209     | Control gasket ( <a href="#">SB-2016-033</a> on page 203) | 1                  |
| D250  | 08-10      |          | 505038       | Screw, M6 x 45                                            | 6                  |
| D300  | 08-10      |          | 310979       | Dowel pin                                                 | 2                  |
| QD25  | 08-10      |          | 140751       | Proportional solenoid, 24v, DEUTSCH connector             | 2                  |
| QD26  | 08-10      |          | 11001952     | O-ring                                                    | 2                  |
| QD27  | 08-10      |          | 11004700     | Coil kit, 24v, DEUTSCH connector                          | 2                  |
| QD28  | 08-10      |          | 063172       | O-ring                                                    | 2                  |
| QD29  | 08-10      |          | 11319361     | Coil nut                                                  | 2                  |
| QD30  | 08-10      |          | 11027883     | Cap                                                       | 2                  |
| QD100 | 08-10      |          | 11025904     | NFPE control kit, 24v, manual override, DEUTSCH connector | 1                  |

## Controls

### H1P control B9

#### Parts configuration



Generic housing shown.

\* Included in overhaul seal kit Q210

## Controls

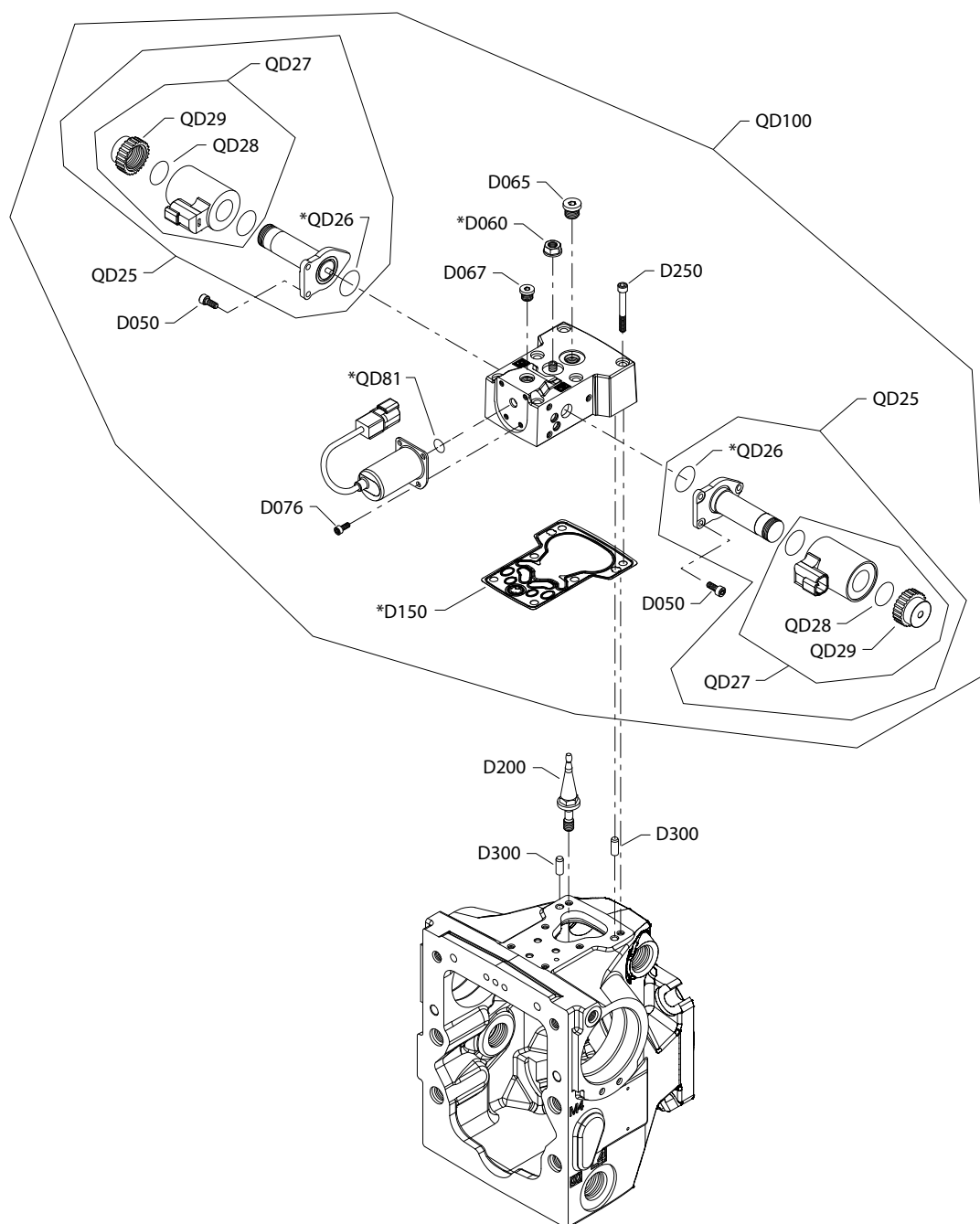
Order code: B9

| Item  | Date Begin | Date End | Part Number  | Part Name                                                 | Qty. per Model/Kit |
|-------|------------|----------|--------------|-----------------------------------------------------------|--------------------|
| D050  | 08-10      |          | 716860       | Screw                                                     | 6                  |
| D055  | 08-10      |          | 11040532     | Plug assembly                                             | 2                  |
| D067  | 08-10      |          | 9005110-4400 | Plug assembly                                             | 1                  |
| D150  | 08-10      |          | 11227209     | Control gasket ( <a href="#">SB-2016-033</a> on page 203) | 1                  |
| D200  | 08-10      |          | 141472       | Screw                                                     | 1                  |
| D250  | 08-10      |          | 505038       | Screw                                                     | 6                  |
| D300  | 08-10      |          | 310979       | Dowel pin                                                 | 2                  |
| D450  | 08-10      |          | 11003097     | Magnet carrier                                            | 1                  |
| QD25  | 08-10      |          | 140751       | Proportional solenoid, 24v, DEUTSCH connector             | 2                  |
| QD26  | 08-10      |          | 11001952     | O-ring                                                    | 2                  |
| QD27  | 08-10      |          | 1104700      | Coil kit, 24v, DEUTSCH connector                          | 2                  |
| QD28  | 08-10      |          | 063172       | O-ring                                                    | 2                  |
| QD29  | 08-10      |          | 11319361     | Coil nut                                                  | 2                  |
| QD30  | 08-10      |          | 11027883     | Cap                                                       | 2                  |
| QD100 | 08-10      |          | 11050137     | NFPE control kit,, 24V, manual override                   | 1                  |

## Controls

### H1P control C1

#### Parts configuration



Generic housing shown.

\* Included in overhaul seal kit Q210

## Controls

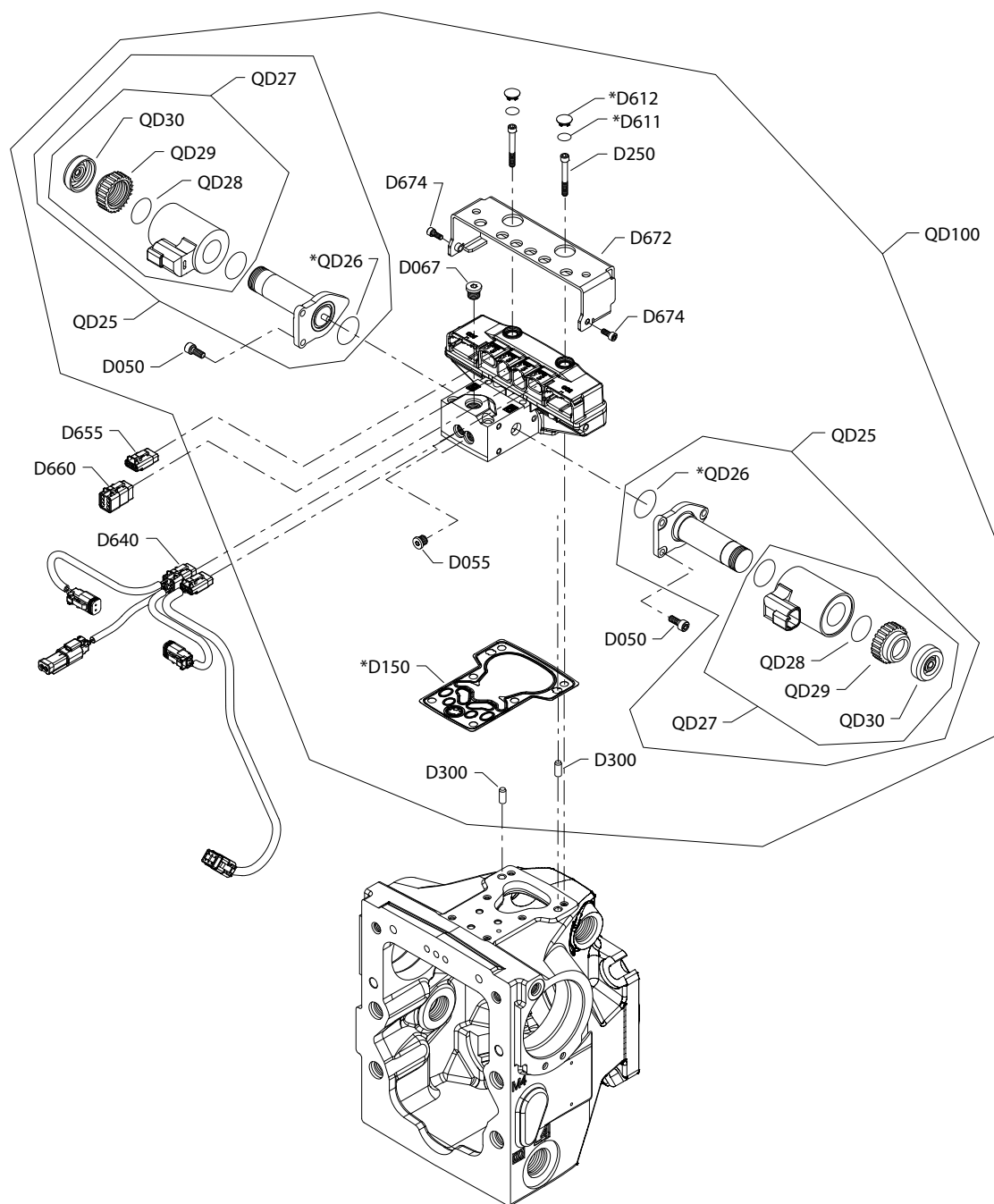
Order code: C1

| Item  | Date Begin | Date End | Part Number           | Part Name                                                                                  | Qty. per Model/Kit |
|-------|------------|----------|-----------------------|--------------------------------------------------------------------------------------------|--------------------|
| D050  | 08-10      | 12-52    | 716860                | Screw                                                                                      | 6                  |
| D060  | 08-10      | 12-52    | 612291 (9003508-0008) | Seal nut                                                                                   | 1                  |
| D065  | 08-10      | 12-52    | 9005110-4400          | Plug assembly                                                                              | 1                  |
| D067  | 08-10      | 12-52    | 11040532              | Plug assembly                                                                              | 1                  |
| D076  | 08-10      | 12-52    | 346957                | Screw, M4 x 8                                                                              | 4                  |
| D150  | 08-10      | 12-52    | 11227209              | Control gasket ( <a href="#">SB-2016-033</a> on page 203)                                  | 1                  |
| D200  | 08-10      | 12-52    | 11202172              | Swashplate feedback link ( <a href="#">SB-2018-025</a> on page 207)                        | 1                  |
| D250  | 08-10      | 12-52    | 505038                | Screw                                                                                      | 6                  |
| D300  | 08-10      | 12-52    | 310979                | Dowel pin                                                                                  | 2                  |
| QD25  | 08-10      | 12-52    | 11012459              | Proportional solenoid, 24V, DEUTSCH connector                                              | 2                  |
| QD26  | 08-10      | 12-52    | 11001952              | O-ring                                                                                     | 2                  |
| QD27  | 08-10      | 12-52    | 11028019              | Coil kit, 24V, DEUTSCH connector                                                           | 2                  |
| QD28  | 08-10      | 12-52    | 063172                | O-ring                                                                                     | 2                  |
| QD29  | 08-10      | 12-52    | 11028024              | Coil nut                                                                                   | 2                  |
| QD81  | 08-10      | 12-52    | 11059551              | O-ring                                                                                     | 1                  |
| QD100 | 08-10      | 12-52    | 11147472              | EDC kit, 24V, high gain spool, control override ( <a href="#">SB-2015-035</a> on page 198) | 1                  |

## Controls

### H1P control C2

#### Parts configuration



Generic housing shown.

\* Included in overhaul seal kit Q210

## Controls

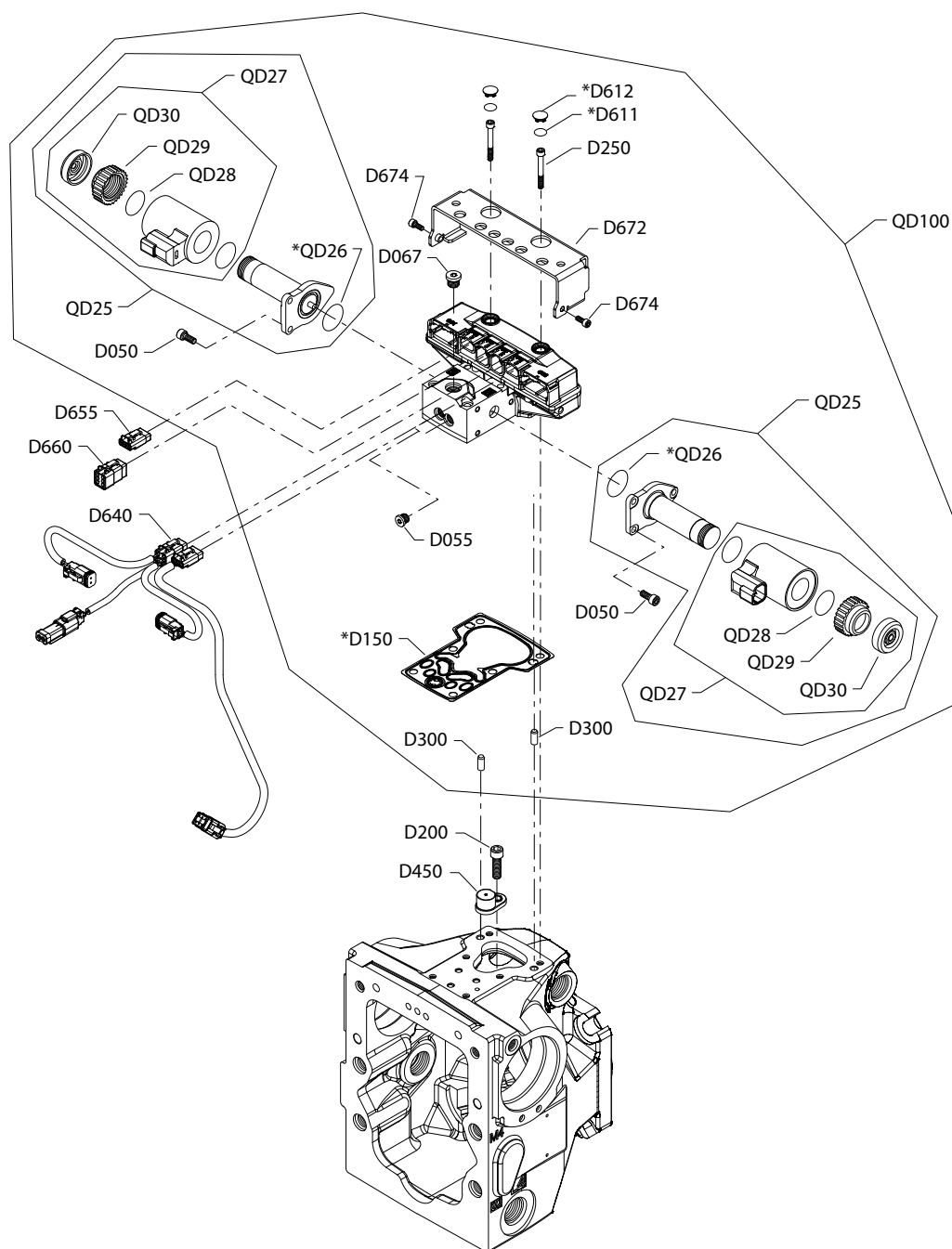
Order code: C2

| Item  | Date Begin | Date End | Part Number  | Part Name                                                 | Qty. per Model/Kit |
|-------|------------|----------|--------------|-----------------------------------------------------------|--------------------|
| D050  | 10-14      |          | 716860       | Screw, M5 x 12                                            | 6                  |
| D055  | 10-14      |          | 11040532     | Plug assembly                                             | 2                  |
| D067  | 10-14      |          | 9005110-4400 | Plug assembly                                             | 1                  |
| D150  | 10-14      |          | 11227209     | Control gasket ( <a href="#">SB-2016-033</a> on page 203) | 1                  |
| D250  | 10-14      |          | 505038       | Screw, M6 x 45                                            | 6                  |
| D300  | 10-14      |          | 11036469     | Dowel pin                                                 | 2                  |
| D611  | 10-14      | 21-12    | 11066774     | O-ring ( <a href="#">SB-2021-014</a> on page 210)         | 2                  |
| D611  | 21-13      |          | 11225703     | O-ring                                                    | 2                  |
| D612  | 10-14      | 21-12    | 11003126     | Plug ( <a href="#">SB-2021-014</a> on page 210)           | 2                  |
| D612  | 21-13      |          | 11223708     | Plug                                                      | 2                  |
| D640  | 10-14      |          | 11023348     | AC wiring harness                                         | 1                  |
| D655  | 10-14      |          | 11084827     | Connector DTM 06-3S                                       | 1                  |
| D660  | 10-14      |          | 11084822     | Connector DTM 06-6S                                       | 1                  |
| D672  | 10-14      |          | 11151875     | Protection                                                | 1                  |
| D674  | 10-14      |          | 716860       | Screw, M5 x 12                                            | 2                  |
| QD25  | 10-14      |          | 140751       | Proportional solenoid, 24 volt                            | 2                  |
| QD26  | 10-14      |          | 11001952     | O-ring                                                    | 2                  |
| QD27  | 10-14      |          | 11004700     | Coil kit, 24v, DEUTSCH connector                          | 2                  |
| QD28  | 10-14      |          | 063172       | O-ring                                                    | 2                  |
| QD29  | 10-14      |          | 11319361     | Coil nut                                                  | 2                  |
| QD30  | 10-14      |          | 11027883     | Cap                                                       | 2                  |
| QD100 | 10-14      |          | 11232765     | Automotive control kit, 24v, manual override              | 1                  |

## Controls

### H1P control C3

#### Parts configuration



Generic housing shown.

\* Included in overhaul seal kit Q210

## Controls

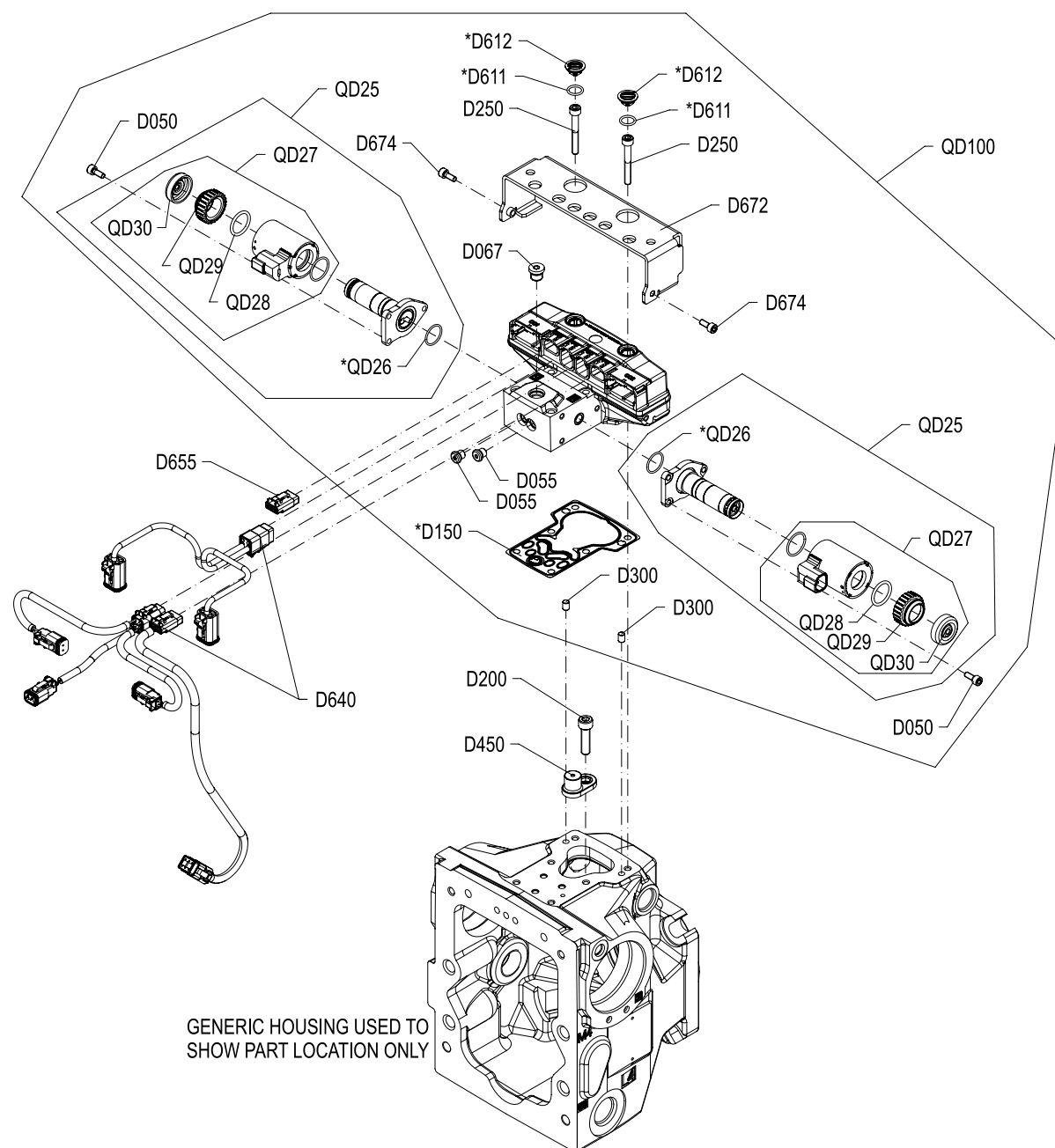
Order code: C3

| Item  | Date Begin | Date End | Part Number  | Part Name                                                 | Qty. per Model/Kit |
|-------|------------|----------|--------------|-----------------------------------------------------------|--------------------|
| D050  | 10-14      |          | 716860       | Screw, M5 x 12                                            | 6                  |
| D055  | 10-14      |          | 11040532     | Plug assembly                                             | 2                  |
| D067  | 10-14      |          | 9005110-4400 | Plug assembly                                             | 1                  |
| D150  | 10-14      |          | 11227209     | Control gasket ( <a href="#">SB-2016-033</a> on page 203) | 1                  |
| D200  | 10-14      |          | 141472       | Screw, special                                            | 1                  |
| D250  | 10-14      |          | 505038       | Screw, M6 x 45                                            | 6                  |
| D300  | 10-14      |          | 11036469     | Dowel pin                                                 | 2                  |
| D450  | 10-14      |          | 11003097     | Magnet carrier                                            | 1                  |
| D611  | 10-14      | 21-12    | 11066774     | O-ring ( <a href="#">SB-2021-014</a> on page 210)         | 2                  |
| D611  | 21-13      |          | 11225703     | O-ring                                                    | 2                  |
| D612  | 10-14      | 21-12    | 11003126     | Plug ( <a href="#">SB-2021-014</a> on page 210)           | 2                  |
| D612  | 21-13      |          | 11223708     | Plug                                                      | 2                  |
| D640  | 10-14      |          | 11023348     | AC wiring harness                                         | 1                  |
| D655  | 10-14      |          | 11084827     | Connector DTM 06-3S                                       | 1                  |
| D660  | 10-14      |          | 11084822     | Connector DTM 06-6S                                       | 1                  |
| D672  | 10-14      |          | 11151875     | Protection                                                | 1                  |
| D674  | 10-14      |          | 716860       | Screw, M5 x 12                                            | 2                  |
| QD25  | 10-14      |          | 140751       | Proportional solenoid, 24 volt                            | 2                  |
| QD26  | 10-14      |          | 11001952     | O-ring                                                    | 2                  |
| QD27  | 10-14      |          | 11004700     | Coil kit, 24v, DEUTSCH connector                          | 2                  |
| QD28  | 10-14      |          | 063172       | O-ring                                                    | 2                  |
| QD29  | 10-14      |          | 11319361     | Coil nut                                                  | 2                  |
| QD30  | 10-14      |          | 11027883     | Cap                                                       | 2                  |
| QD100 | 10-14      |          | 11232767     | Automotive control kit, 24v, manual override              | 1                  |

## Controls

### H1P control C9, D1

#### 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 | 12-22      |          | 716860       | Screw, M5 x 12                                            | 6                  |
| D055 | 12-22      |          | 11040532     | Plug assembly                                             | 2                  |
| D067 | 12-22      |          | 9005110-4400 | Plug assembly                                             | 1                  |
| D150 | 12-22      |          | 11227209     | Control gasket ( <a href="#">SB-2016-033</a> on page 203) | 1                  |
| D200 | 12-22      |          | 141472       | Screw, special                                            | 1                  |
| D250 | 12-22      |          | 505038       | Screw, M6 x 45                                            | 6                  |
| D300 | 12-22      |          | 11036469     | Dowel pin                                                 | 2                  |
| D450 | 12-22      |          | 11003097     | Magnet carrier                                            | 1                  |
| D611 | 12-22      | 21-12    | 11066774     | O-ring ( <a href="#">SB-2021-014</a> on page 210)         | 2                  |
| D611 | 21-13      |          | 11225703     | O-ring                                                    | 2                  |
| D612 | 12-22      | 21-12    | 11003126     | Plug ( <a href="#">SB-2021-014</a> on page 210)           | 2                  |
| D612 | 21-13      |          | 11223708     | Plug                                                      | 2                  |
| D640 | 12-22      |          | 11105876     | AC wiring harness                                         | 1                  |
| D655 | 12-22      |          | 11084827     | Connector DTM 06-3S                                       | 1                  |
| D672 | 12-22      |          | 11151875     | Protection                                                | 1                  |
| D674 | 12-22      |          | 716860       | Screw, M5 x 12                                            | 2                  |
| QD26 | 12-22      |          | 11001952     | O-ring                                                    | 2                  |
| QD28 | 12-22      |          | 063172       | O-ring                                                    | 2                  |
| QD30 | 12-22      |          | 11027883     | Cap                                                       | 2                  |

### Order code: C9

|       |       |  |          |                                              |   |
|-------|-------|--|----------|----------------------------------------------|---|
| QD25  | 12-22 |  | 140751   | Proportional solenoid, 24v                   | 2 |
| QD27  | 12-22 |  | 11004700 | Coil kit, 24v, DEUTSCH connector             | 2 |
| QD29  | 12-22 |  | 11319361 | Coil nut                                     | 2 |
| QD100 | 12-22 |  | 11232767 | Automotive control kit, 24v, manual override | 1 |

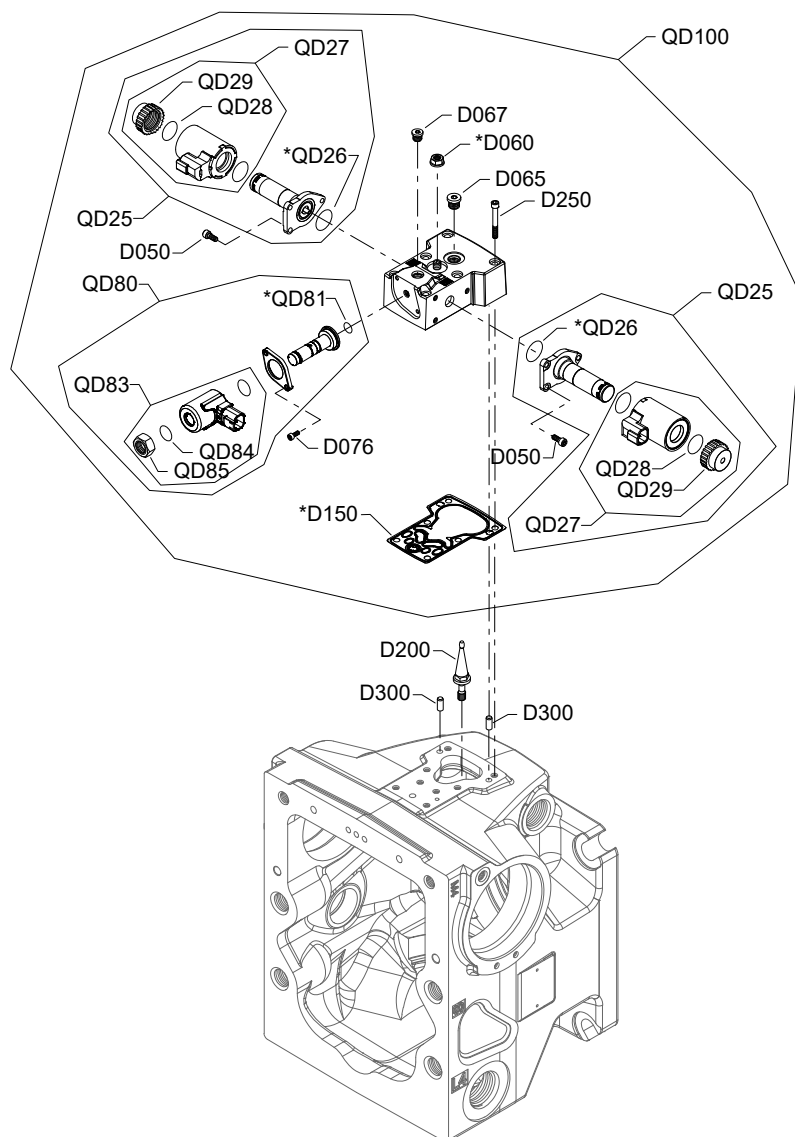
### Order code: D1

|       |       |  |          |                                              |   |
|-------|-------|--|----------|----------------------------------------------|---|
| QD25  | 12-22 |  | 140750   | Proportional solenoid, 12v                   | 2 |
| QD27  | 12-22 |  | 11004698 | Coil kit, 12v, DEUTSCH connector             | 2 |
| QD29  | 12-22 |  | 11319330 | Coil nut                                     | 2 |
| QD100 | 12-22 |  | 11232766 | Automotive control kit, 12v, 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 | 14-25      |          | 716860                | Screw, M5 x 12                                                       | 6                  |
| D060 | 14-25      |          | 612291 (9003508-0008) | Seal nut, M8                                                         | 1                  |
| D065 | 14-25      |          | 905110-4400           | Plug assembly (SAE)                                                  | 1                  |
| D067 | 14-25      |          | 905110-4400           | Plug assembly (SAE)                                                  | 1                  |
| D076 | 14-25      |          | 067694                | Screw, M4 x 10                                                       | 2                  |
| D150 | 14-25      |          | 11227209              | Control gasket ( <a href="#">SB-2016-033</a> on page 203)            | 1                  |
| D200 | 14-25      |          | 11202172              | Swash plate feedback link ( <a href="#">SB-2018-025</a> on page 207) | 1                  |
| D250 | 14-25      |          | 505038                | Screw, M6 x 45                                                       | 6                  |
| D300 | 14-25      |          | 310979                | Dowel pin                                                            | 2                  |
| QD26 | 14-25      |          | 11001952              | O-ring                                                               | 2                  |
| QD28 | 14-25      |          | 063172                | O-ring                                                               | 2                  |
| QD81 | 14-25      |          | 11152257              | O-ring                                                               | 1                  |
| QD85 | 14-25      |          | 11140394              | Coil nut                                                             | 1                  |

### Order code: E6

|       |       |  |          |                                  |   |
|-------|-------|--|----------|----------------------------------|---|
| QD25  | 14-25 |  | 11012459 | Proportional solenoid, 24v       | 2 |
| QD27  | 14-25 |  | 11028019 | Coil kit, 24v, DEUTSCH connector | 2 |
| QD29  | 14-25 |  | 11028024 | Coil nut                         | 2 |
| QD80  | 14-25 |  | 11231201 | Solenoid valve, on/off, 24v      | 1 |
| QD83  | 14-25 |  | 11232697 | Coil kit, 24v                    | 1 |
| QD84  | 14-25 |  | 11232752 | O-ring                           | 1 |
| QD100 | 14-25 |  | 11147423 | EDC kit, 24v, CCO                | 1 |

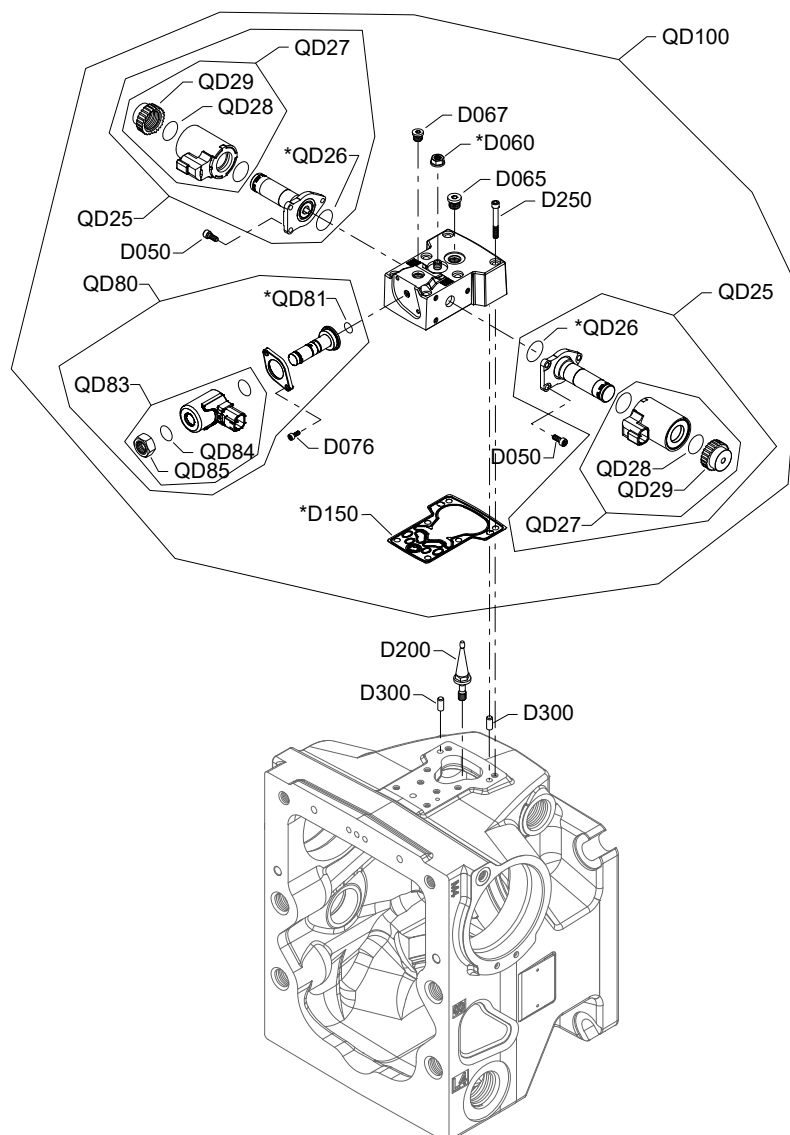
### Order code: E7

|       |       |  |          |                                  |   |
|-------|-------|--|----------|----------------------------------|---|
| D065  | 16-09 |  | 5000572  | Plug assembly (metric)           | 1 |
| D067  | 16-09 |  | 5000572  | Plug assembly, (metric)          | 1 |
| QD25  | 14-25 |  | 11012457 | Proportional solenoid, 12v       | 2 |
| QD27  | 14-25 |  | 11028018 | Coil kit, 12v, DEUTSCH connector | 2 |
| QD29  | 14-25 |  | 11027046 | Coil nut                         | 2 |
| QD80  | 14-25 |  | 11231200 | Solenoid valve, on/off, 12v      | 1 |
| QD83  | 14-25 |  | 11232757 | Coil kit, 12v                    | 1 |
| QD84  | 14-25 |  | 11232752 | O-ring                           | 1 |
| QD100 | 14-25 |  | 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

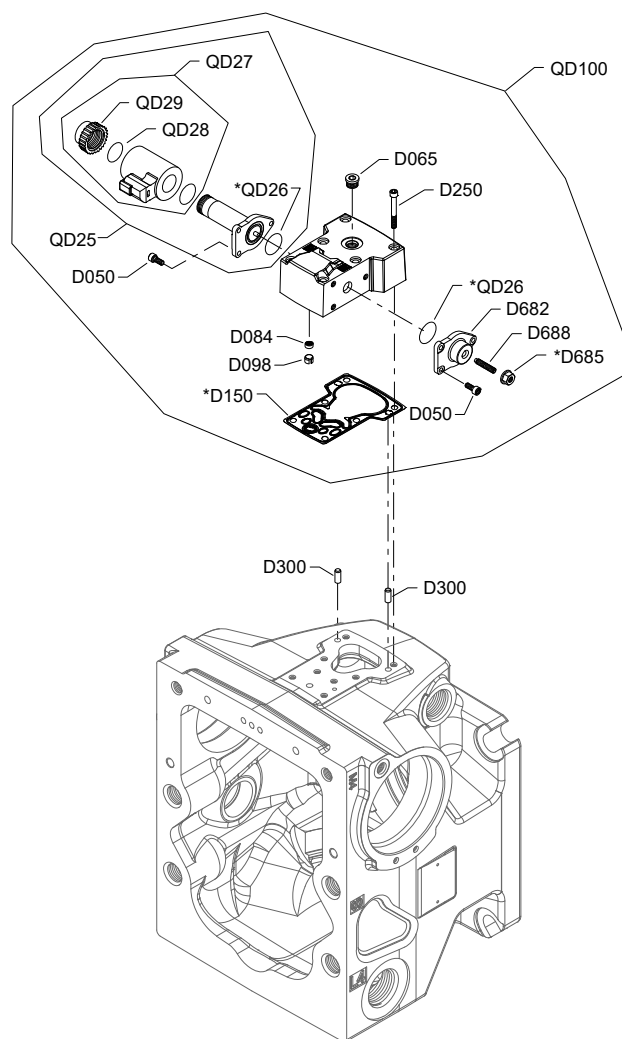
Order code: E8

| Item  | Date Begin | Date End | Part Number           | Part Name                                                           | Qty. per Model/Kit |
|-------|------------|----------|-----------------------|---------------------------------------------------------------------|--------------------|
| D050  | 14-25      |          | 716860                | Screw, M5 x 12                                                      | 6                  |
| D060  | 14-25      |          | 612291 (9003508-0008) | Seal nut, M8                                                        | 1                  |
| D065  | 14-25      |          | 905110-4400           | Plug assembly                                                       | 1                  |
| D067  | 14-25      |          | 905110-4400           | Plug assembly                                                       | 1                  |
| D076  | 14-25      |          | 067694                | Screw, M4 x 10                                                      | 2                  |
| D150  | 14-25      |          | 11227209              | Control gasket ( <a href="#">SB-2016-033</a> on page 203)           | 1                  |
| D200  | 14-25      |          | 11202172              | Swashplate feedback link ( <a href="#">SB-2018-025</a> on page 207) | 1                  |
| D250  | 14-25      |          | 505038                | Screw, M6 x 45                                                      | 6                  |
| D300  | 14-25      |          | 310979                | Dowel pin                                                           | 2                  |
| QD25  | 14-25      |          | 11012459              | Proportional solenoid, 24v                                          | 2                  |
| QD26  | 14-25      |          | 11001952              | O-ring                                                              | 2                  |
| QD27  | 14-25      |          | 11028019              | Coil kit, 24v, DEUTSCH connector                                    | 2                  |
| QD28  | 14-25      |          | 063172                | O-ring                                                              | 2                  |
| QD29  | 14-25      |          | 11028024              | Coil nut                                                            | 2                  |
| QD80  | 14-25      |          | 11231201              | Solenoid vale, on/off, 24v                                          | 1                  |
| QD81  | 14-25      |          | 11152257              | O-ring                                                              | 1                  |
| QD83  | 14-25      |          | 11232697              | Coil kit, 24v                                                       | 1                  |
| QD84  | 14-25      |          | 11232752              | O-ring                                                              | 1                  |
| QD85  | 14-25      |          | 11140394              | Coil nut                                                            | 1                  |
| QD100 | 14-25      |          | 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 | 12-33      |          | 716860                | Screw, M5 x 12                                            | 6                  |
| D065 | 12-33      |          | 9005110-4400          | Plug assembly                                             | 1                  |
| D150 | 12-33      |          | 11227209              | Control gasket ( <a href="#">SB-2016-033</a> on page 203) | 1                  |
| D250 | 12-33      |          | 505038                | Screw, M6 x 45                                            | 6                  |
| D300 | 12-33      |          | 310979                | Dowel pin                                                 | 2                  |
| D682 | 12-33      |          | 11079441              | Flange                                                    | 1                  |
| D685 | 12-33      |          | 612291 (9003508-0008) | Seal nut, M8                                              | 1                  |
| D688 | 12-33      |          | 11079453              | Adjusting screw                                           | 1                  |
| QD26 | 12-33      |          | 11001952              | O-ring                                                    | 2                  |
| QD28 | 12-33      |          | 063172                | O-ring                                                    | 1                  |

### Order code: F1

|       |       |  |          |                                  |   |
|-------|-------|--|----------|----------------------------------|---|
| QD25  | 12-33 |  | 11012457 | Proportional solenoid, 12v       | 1 |
| QD27  | 12-33 |  | 11028018 | Coil kit, 12v, DEUTSCH connector | 1 |
| QD29  | 12-33 |  | 11027046 | Coil nut                         | 1 |
| QD100 | 12-33 |  | 11081306 | FDC kit, 12v, DEUTSCH connector  | 1 |

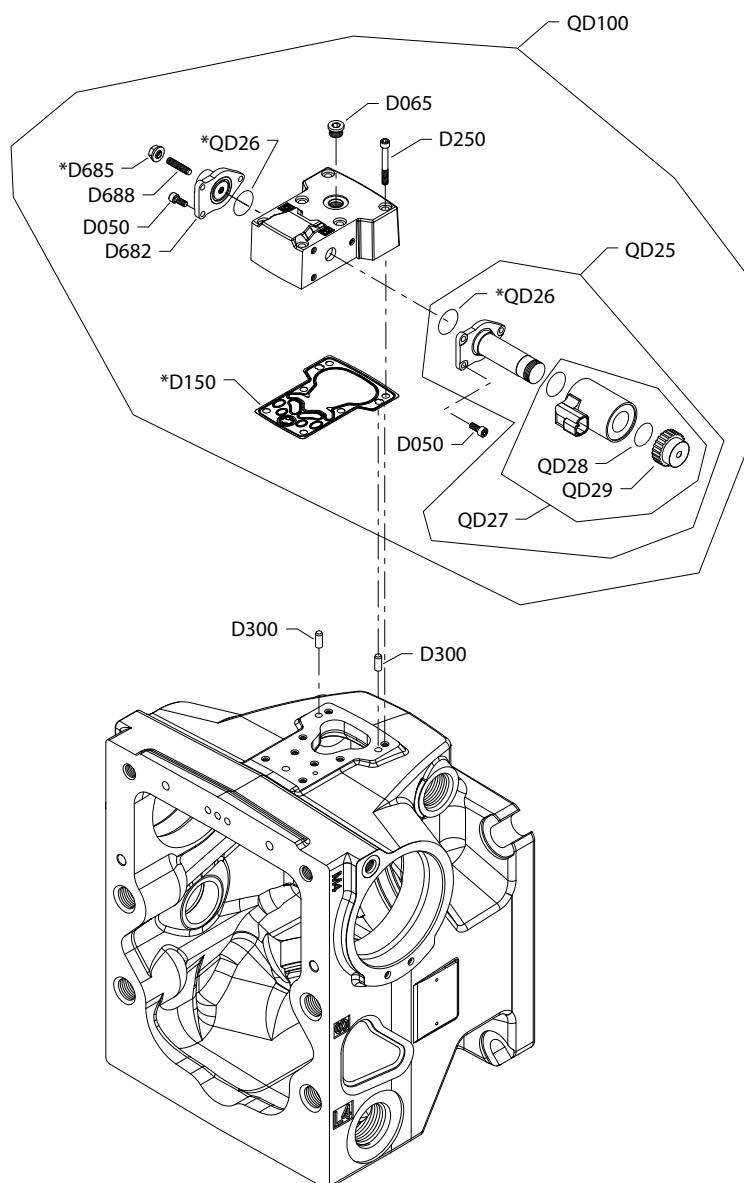
### Order code: F2

|       |       |  |          |                                  |   |
|-------|-------|--|----------|----------------------------------|---|
| QD25  | 12-33 |  | 11012459 | Proportional solenoid, 24v       | 1 |
| QD27  | 12-33 |  | 11028019 | Coil kit, 24v, DEUTSCH connector | 1 |
| QD29  | 12-33 |  | 11028024 | Coil nut                         | 1 |
| QD100 | 12-33 |  | 11081307 | FDC kit, 24v, DEUTSCH connector  | 1 |

## Controls

### H1P control F4

F4 configuration



Generic housing shown.

\* Included in overhaul seal kit

## Controls

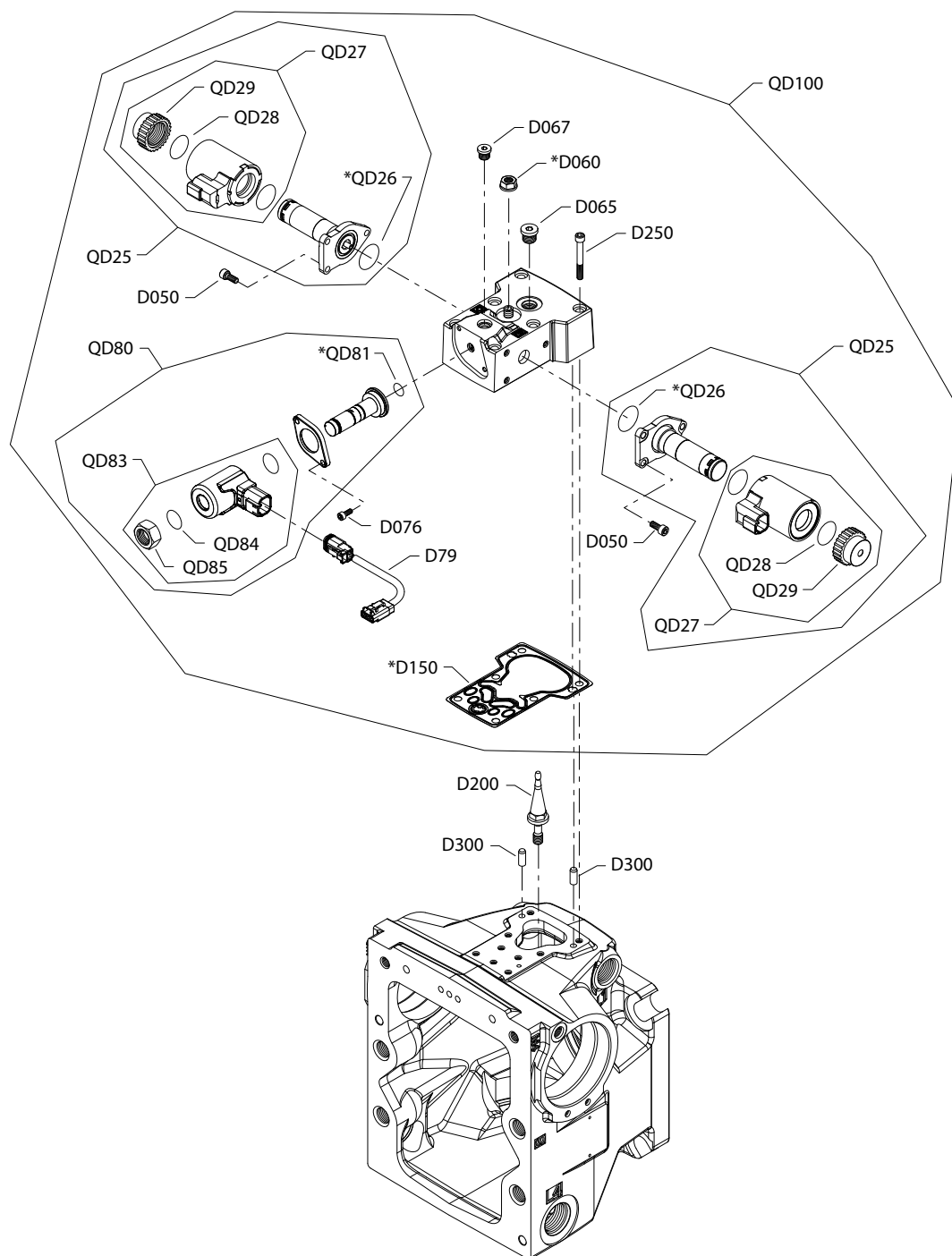
Order code: F4

| Item  | Date Begin | Date End | Part Number           | Part Name                                                 | Qty. per Model/Kit |
|-------|------------|----------|-----------------------|-----------------------------------------------------------|--------------------|
| D050  | 08-10      |          | 716860                | Screw, M5 x 12                                            | 6                  |
| D065  | 08-10      |          | 9005110-4400          | Plug assembly                                             | 1                  |
| D150  | 08-10      |          | 11227209              | Control gasket ( <a href="#">SB-2016-033</a> on page 203) | 1                  |
| D250  | 08-10      |          | 505038                | Screw, M6 x 45                                            | 6                  |
| D300  | 08-10      |          | 310979                | Dowel pin                                                 | 2                  |
| D682  | 08-10      |          | 11079441              | Flange                                                    | 1                  |
| D685  | 08-10      |          | 612291 (9003508-0008) | Seal nut, M8                                              | 1                  |
| D688  | 08-10      |          | 11079453              | Adjusting screw                                           | 1                  |
| QD25  | 08-10      |          | 11012459              | Proportional solenoid, 24v                                | 1                  |
| QD26  | 08-10      |          | 11001952              | O-ring                                                    | 2                  |
| QD27  | 08-10      |          | 11028019              | Coil kit, 24v, DEUTSCH connector                          | 1                  |
| QD28  | 08-10      |          | 063172                | O-ring                                                    | 1                  |
| QD29  | 08-10      |          | 11028024              | Coil nut                                                  | 1                  |
| QD100 | 08-10      |          | 11174982              | FDC kit, 24v, DEUTSCH connector                           | 1                  |

## Controls

### H1P control G7

#### Parts configuration



Generic housing shown.

\* Included in overhaul seal kit Q210

## Controls

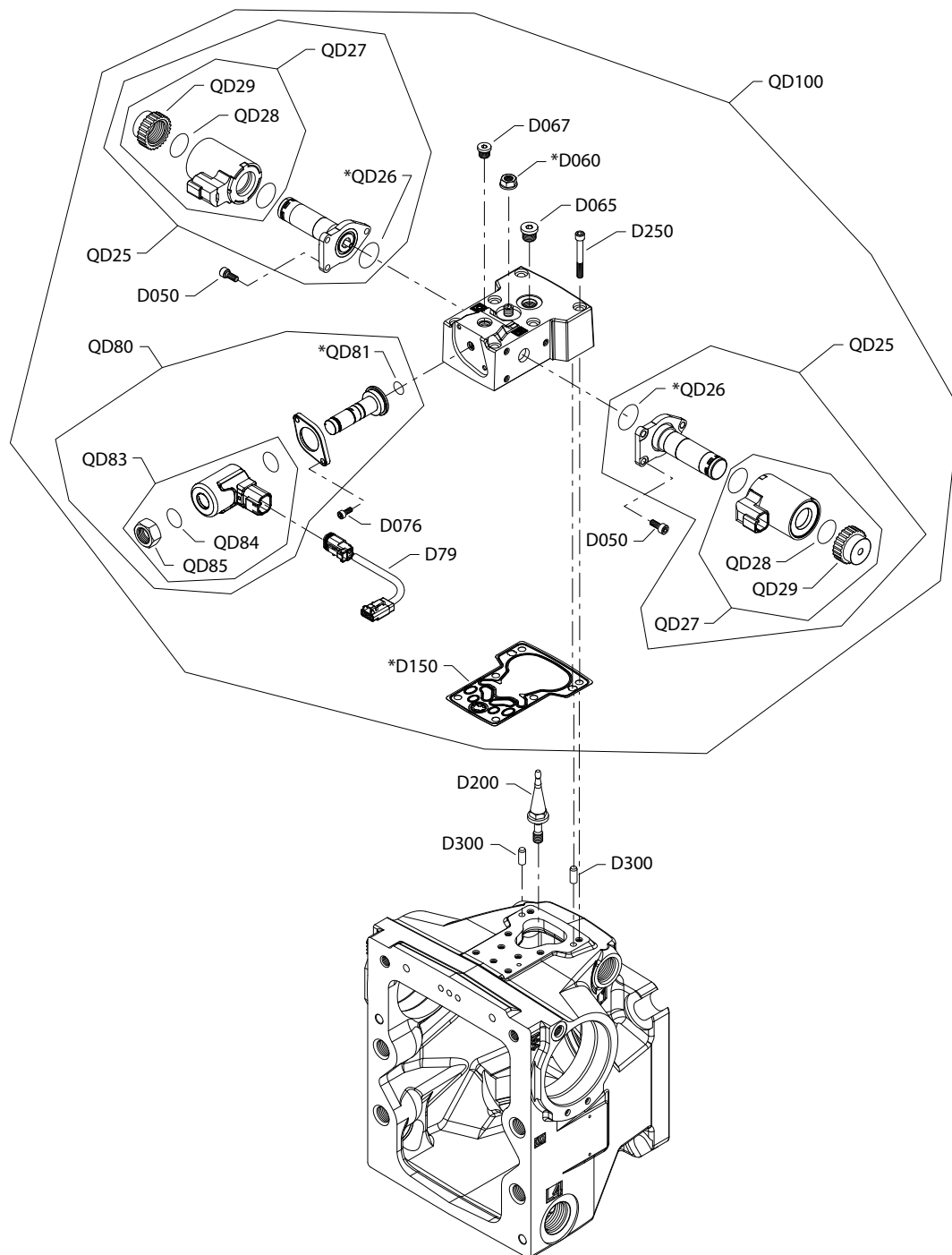
Order code: G7

| Item  | Date Begin | Date End | Part Number           | Part Name                                                           | Qty. per Model/Kit |
|-------|------------|----------|-----------------------|---------------------------------------------------------------------|--------------------|
| D79   | 14-31      |          | 11153287              | Cable adapter                                                       | 1                  |
| D050  | 14-31      |          | 716860                | Screw, M5 x 12                                                      | 6                  |
| D060  | 14-31      |          | 612291 (9003508-0008) | Seal nut, M8                                                        | 1                  |
| D065  | 14-31      |          | 9005110-4400          | Plug assembly                                                       | 1                  |
| D067  | 14-31      |          | 9005110-4400          | Plug assembly                                                       | 1                  |
| D076  | 14-31      |          | 067694                | Screw, M4 x 10                                                      | 2                  |
| D150  | 14-31      |          | 11227209              | Control gasket ( <a href="#">SB-2016-033</a> on page 203)           | 1                  |
| D200  | 14-31      |          | 11202172              | Swashplate feedback link ( <a href="#">SB-2018-025</a> on page 207) | 1                  |
| D250  | 14-31      |          | 505038                | Screw, M6 x 45                                                      | 6                  |
| D300  | 14-31      |          | 310979                | Dowel pin                                                           | 2                  |
| QD25  | 14-31      |          | 11012457              | Proportional solenoid, 12v                                          | 2                  |
| QD26  | 14-31      |          | 11001952              | O-ring                                                              | 2                  |
| QD27  | 14-31      |          | 11028018              | Coil kit, 12v, DEUTSCH connector                                    | 2                  |
| QD28  | 14-31      |          | 063172                | O-ring                                                              | 2                  |
| QD29  | 14-31      |          | 11027046              | Coil nut                                                            | 2                  |
| QD80  | 14-31      |          | 11231200              | Solenoid vale, on/off, 12v                                          | 1                  |
| QD81  | 14-31      |          | 11152257              | O-ring                                                              | 1                  |
| QD83  | 14-31      |          | 11232757              | Coil kit, 12v                                                       | 1                  |
| QD84  | 14-31      |          | 11232752              | O-ring                                                              | 1                  |
| QD85  | 14-31      |          | 11140394              | Coil nut                                                            | 1                  |
| QD100 | 14-31      |          | 11156149              | EDC kit, 12v, CCO                                                   | 1                  |

## Controls

### H1P control G9

#### Parts configuration



Generic housing shown.

\* Included in overhaul seal kit Q210

## Controls

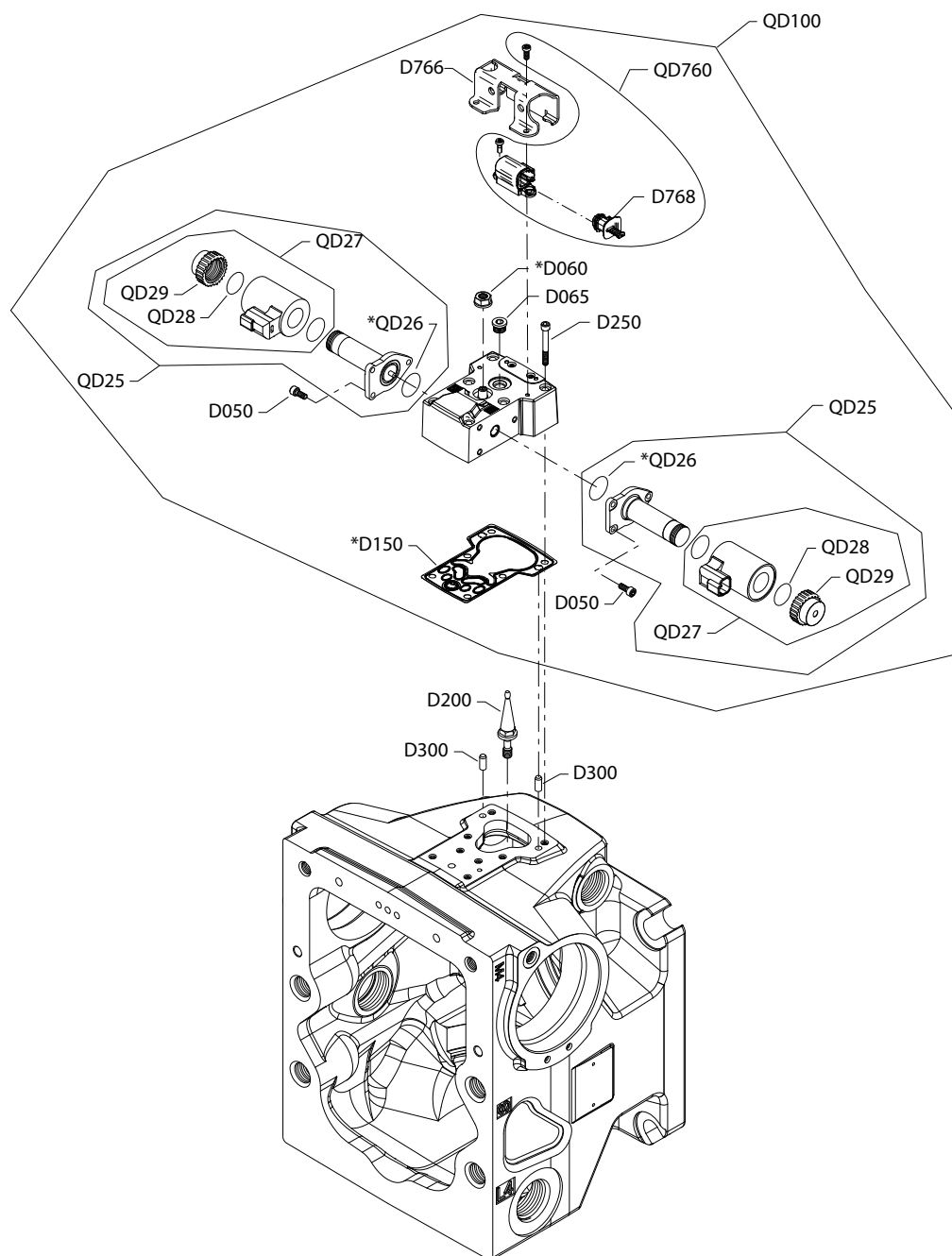
Order code: G9

| Item  | Date Begin | Date End | Part Number           | Part Name                                                           | Qty. per Model/Kit |
|-------|------------|----------|-----------------------|---------------------------------------------------------------------|--------------------|
| D79   | 14-37      |          | 11150437              | Cable adapter                                                       | 1                  |
| D050  | 14-37      |          | 716860                | Screw, M5 x 12                                                      | 6                  |
| D060  | 14-37      |          | 612291 (9003508-0008) | Seal nut, M8                                                        | 1                  |
| D065  | 14-37      |          | 9005110-4400          | Plug assembly                                                       | 1                  |
| D067  | 14-37      |          | 9005110-4400          | Plug assembly                                                       | 1                  |
| D076  | 14-37      |          | 067694                | Screw, M4 x 10                                                      | 2                  |
| D150  | 14-37      |          | 11227209              | Control gasket ( <a href="#">SB-2016-033</a> on page 203)           | 1                  |
| D200  | 14-37      |          | 11202172              | Swashplate feedback link ( <a href="#">SB-2018-025</a> on page 207) | 1                  |
| D250  | 14-37      |          | 505038                | Screw, M6 x 45                                                      | 6                  |
| D300  | 14-37      |          | 310979                | Dowel pin                                                           | 2                  |
| QD25  | 14-37      |          | 11012457              | Proportional solenoid, 12v                                          | 2                  |
| QD26  | 14-37      |          | 11001952              | O-ring                                                              | 2                  |
| QD27  | 14-37      |          | 11028018              | Coil kit, 12v, DEUTSCH connector                                    | 2                  |
| QD28  | 14-37      |          | 063172                | O-ring                                                              | 2                  |
| QD29  | 14-37      |          | 11027046              | Coil nut                                                            | 2                  |
| QD80  | 14-37      |          | 11231200              | Solenoid vale, on/off, 12v                                          | 1                  |
| QD81  | 14-37      |          | 11152257              | O-ring                                                              | 1                  |
| QD83  | 14-37      |          | 11232757              | Coil kit, 12v                                                       | 1                  |
| QD84  | 14-37      |          | 11232752              | O-ring                                                              | 1                  |
| QD85  | 14-37      |          | 11140394              | Coil nut                                                            | 1                  |
| QD100 | 14-37      |          | 11147471              | EDC kit, 12v, CCO                                                   | 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      |          | 9005110-4400 | 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      |          | 11290138     | 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 |

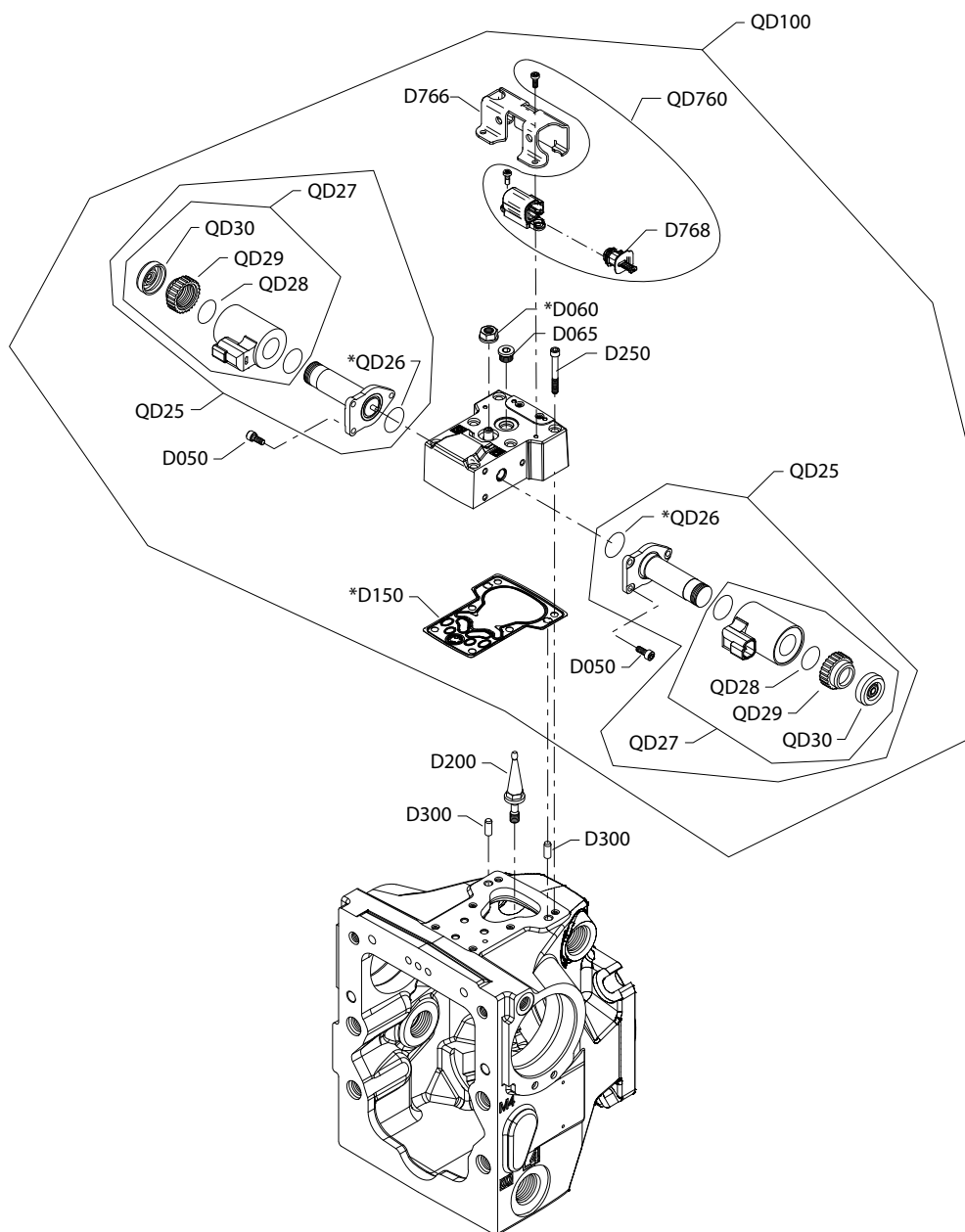
### Order code: H3

|       |       |  |          |                                 |   |
|-------|-------|--|----------|---------------------------------|---|
| 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      |          | 9005110-4400 | 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      |          | 11290138     | 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 |  | 11319330 | Coil nut                         | 2 |

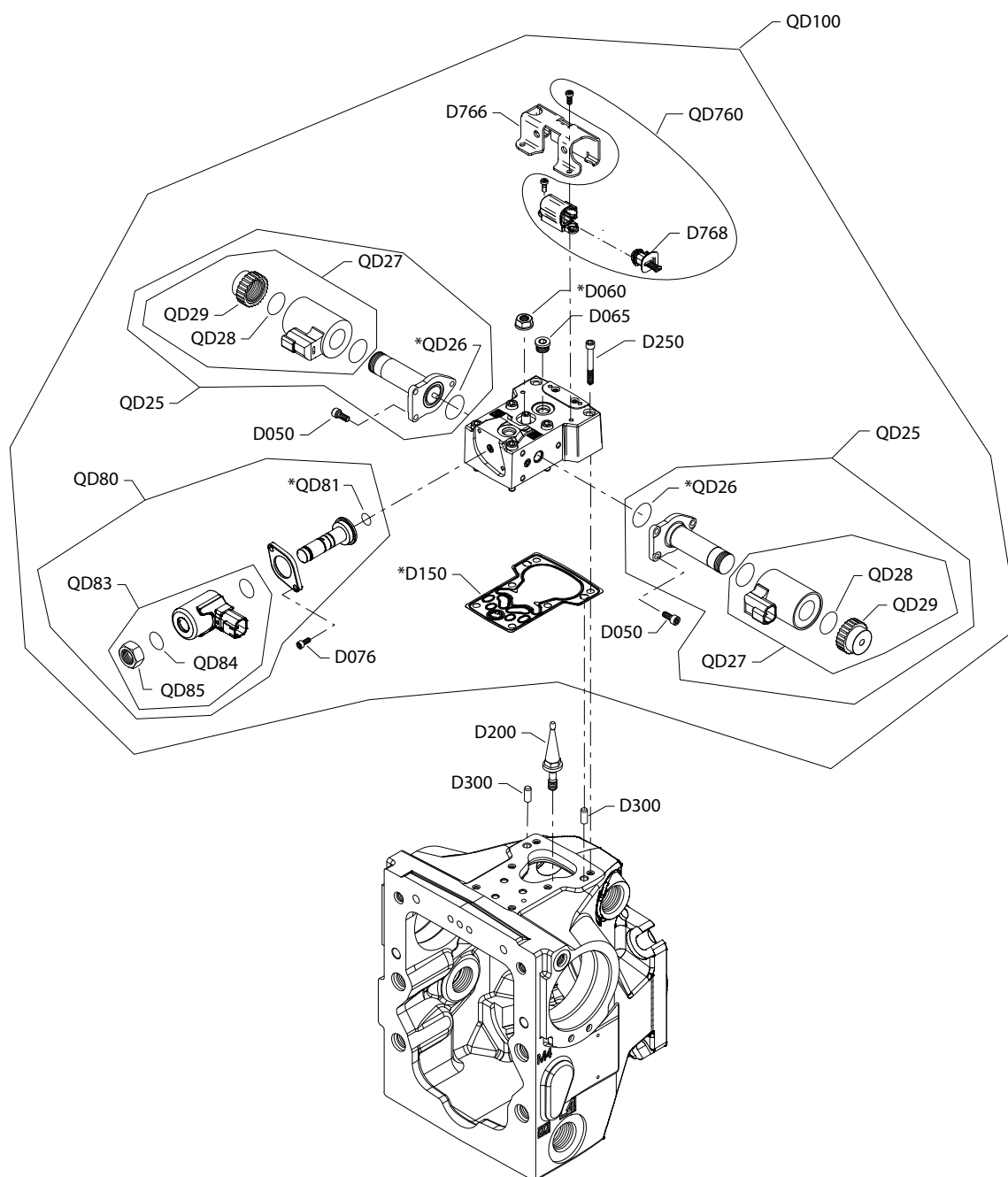
### Order code: H7

|       |       |  |          |                                  |   |
|-------|-------|--|----------|----------------------------------|---|
| 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 |  | 11319361 | 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      |          | 9005110-4400 | Plug assembly            | 1                  |
| D067  | 18-13      |          | 9005110-4400 | 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                  |
| QD85  | 18-13      |          | 11140394     | Nut                      | 1                  |
| QD760 | 18-13      |          | 11290138     | 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 |  | 11231200 | Solenoid, 12V, DEUTSCH connector | 1 |
| QD83  | 18-13 |  | 11232757 | Coil kit, 12V, DEUTSCH connector | 1 |
| QD84  | 18-13 |  | 11232752 | O-ring                           | 1 |

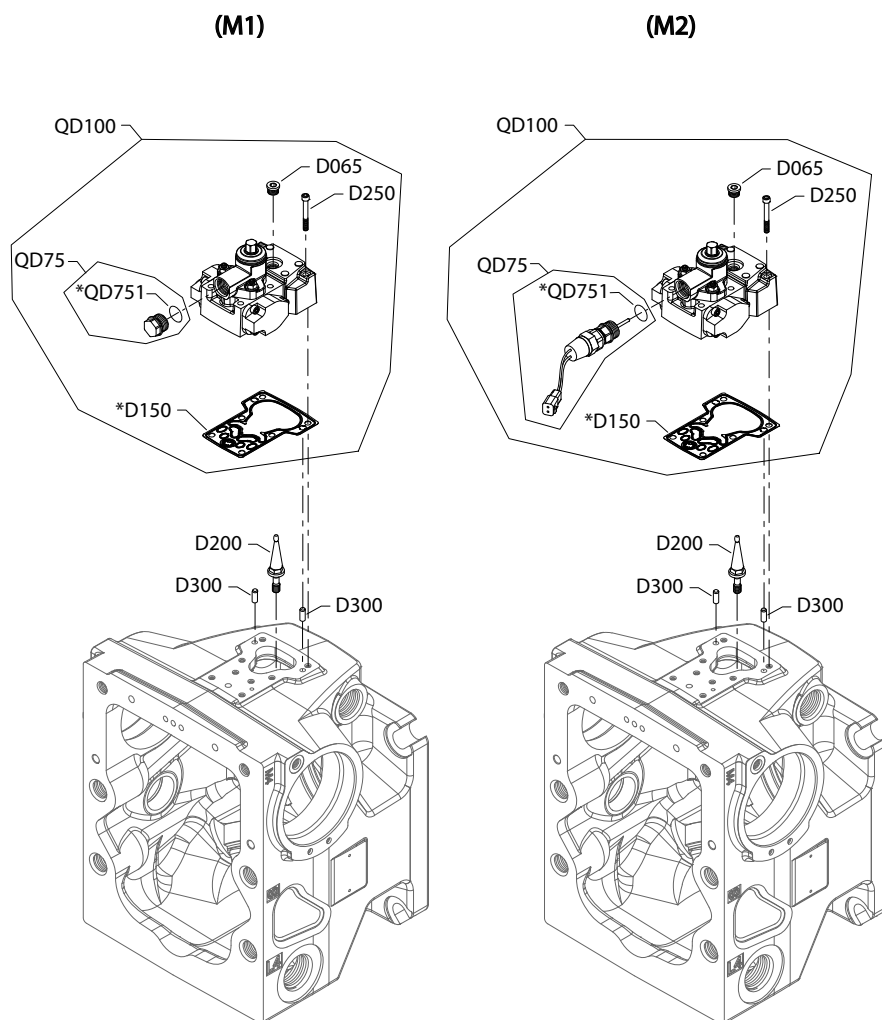
### Order code: H9

|       |       |  |          |                                  |   |
|-------|-------|--|----------|----------------------------------|---|
| 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 |  | 11231201 | Solenoid, 24V, DEUTSCH connector | 1 |
| QD83  | 18-13 |  | 11232697 | Coil kit, 24V, DEUTSCH connector | 1 |
| QD84  | 18-13 |  | 11232752 | O-ring                           | 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      |          | 9005110-4400          | Plug assembly                                                       | 1                  |
| D150  | 14-01      |          | 11227209              | Control gasket ( <a href="#">SB-2016-033</a> on page 203)           | 1                  |
| D200  | 14-01      |          | 11202172              | Swashplate feedback link ( <a href="#">SB-2018-025</a> on page 207) | 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 |

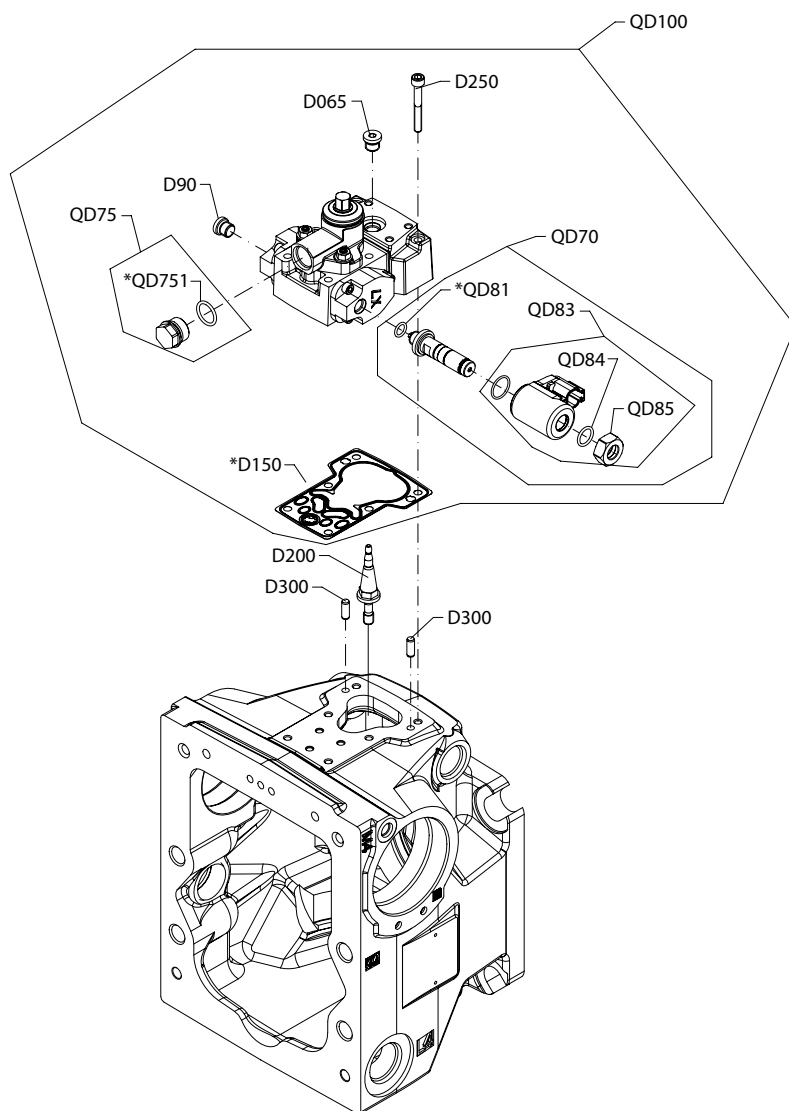
### Order code: M2

|       |       |  |          |                                           |   |
|-------|-------|--|----------|-------------------------------------------|---|
| QD75  | 14-01 |  | 11328169 | 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      |          | 9005110-4400          | Plug assembly                                                       | 1                  |
| D90   | 14-01      |          | 9005110-4400          | Plug assembly                                                       | 1                  |
| D150  | 14-01      |          | 11227209              | Control gasket ( <a href="#">SB-2016-033</a> on page 203)           | 1                  |
| D200  | 14-01      |          | 11202172              | Swashplate feedback link ( <a href="#">SB-2018-025</a> on page 207) | 1                  |
| D250  | 14-01      |          | 505038                | Screw, M6 x 45                                                      | 6                  |
| D300  | 14-01      |          | 310979                | Dowel pin                                                           | 2                  |
| QD75  | 14-01      |          | 11119332              | Spring seat assembly                                                | 1                  |
| QD81  | 14-01      |          | 11152257              | O-ring                                                              | 1                  |
| QD84  | 24-01      |          | 11232752              | O-ring ( <a href="#">SB-2024-007</a> on page 211)                   | 1                  |
| QD85  | 14-01      |          | 11140394              | Coil nut                                                            | 1                  |
| QD751 | 14-01      |          | 001131 (9004201-5000) | O-ring                                                              | 1                  |

### Order code: M3

|       |       |  |          |                                                                |   |
|-------|-------|--|----------|----------------------------------------------------------------|---|
| QD70  | 14-01 |  | 11231212 | Solenoid valve, 12v ( <a href="#">SB-2024-007</a> on page 211) | 1 |
| QD83  | 24-01 |  | 11253939 | Coil kit, 12v ( <a href="#">SB-2024-007</a> on page 211)       | 1 |
| QD100 | 14-01 |  | 11218976 | MDC kit, 12v, CCO                                              | 1 |

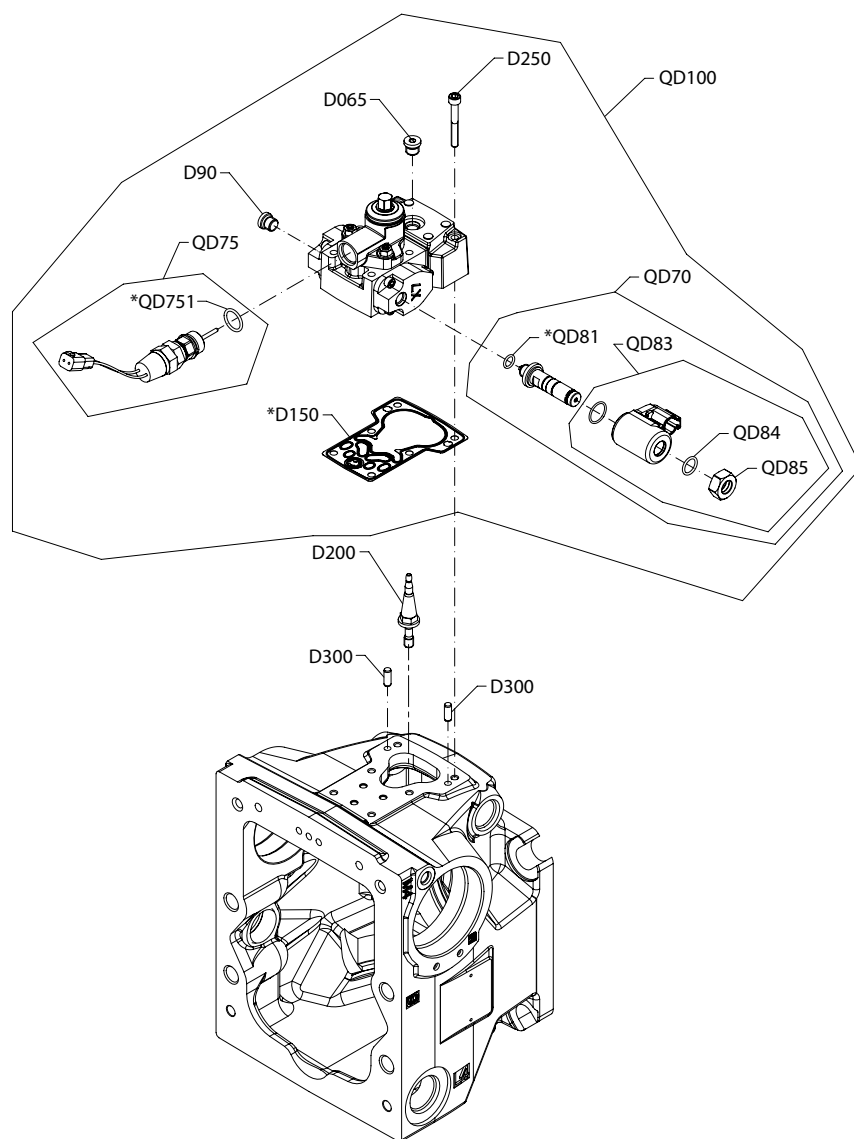
### Order code: M4

|       |       |  |          |                                                                |   |
|-------|-------|--|----------|----------------------------------------------------------------|---|
| QD70  | 14-01 |  | 11231213 | Solenoid valve, 24v ( <a href="#">SB-2024-007</a> on page 211) | 1 |
| QD83  | 24-01 |  | 11253938 | Coil kit, 24v, CCO ( <a href="#">SB-2024-007</a> on page 211)  | 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      |          | 9005110-4400          | Plug assembly                                                       | 1                  |
| D90   | 14-01      |          | 9005110-4400          | Plug assembly                                                       | 1                  |
| D150  | 14-01      |          | 11227209              | Control gasket ( <a href="#">SB-2016-033</a> on page 203)           | 1                  |
| D200  | 14-01      |          | 11202172              | Swashplate feedback link ( <a href="#">SB-2018-025</a> on page 207) | 1                  |
| D250  | 14-01      |          | 505038                | Screw, M6 x 45                                                      | 6                  |
| D300  | 14-01      |          | 310979                | Dowel pin                                                           | 2                  |
| QD75  | 14-01      |          | 11328169              | Spring seat/neutral start switch assembly                           | 1                  |
| QD81  | 14-01      |          | 11152257              | O-ring                                                              | 1                  |
| QD84  | 24-01      |          | 11232752              | O-ring ( <a href="#">SB-2024-007</a> on page 211)                   | 1                  |
| QD85  | 14-01      |          | 11140394              | Coil nut                                                            | 1                  |
| QD751 | 14-01      |          | 001131 (9004201-5000) | O-ring                                                              | 1                  |

### Order code: M5

|       |       |  |          |                                                                |   |
|-------|-------|--|----------|----------------------------------------------------------------|---|
| QD70  | 14-01 |  | 11231212 | Solenoid valve, 12v ( <a href="#">SB-2024-007</a> on page 211) | 1 |
| QD83  | 24-01 |  | 11253939 | Coil kit, 12v ( <a href="#">SB-2024-007</a> on page 211)       | 1 |
| QD100 | 14-01 |  | 11218978 | MDC kit, 12v, neutral start switch assembly, CCO               | 1 |

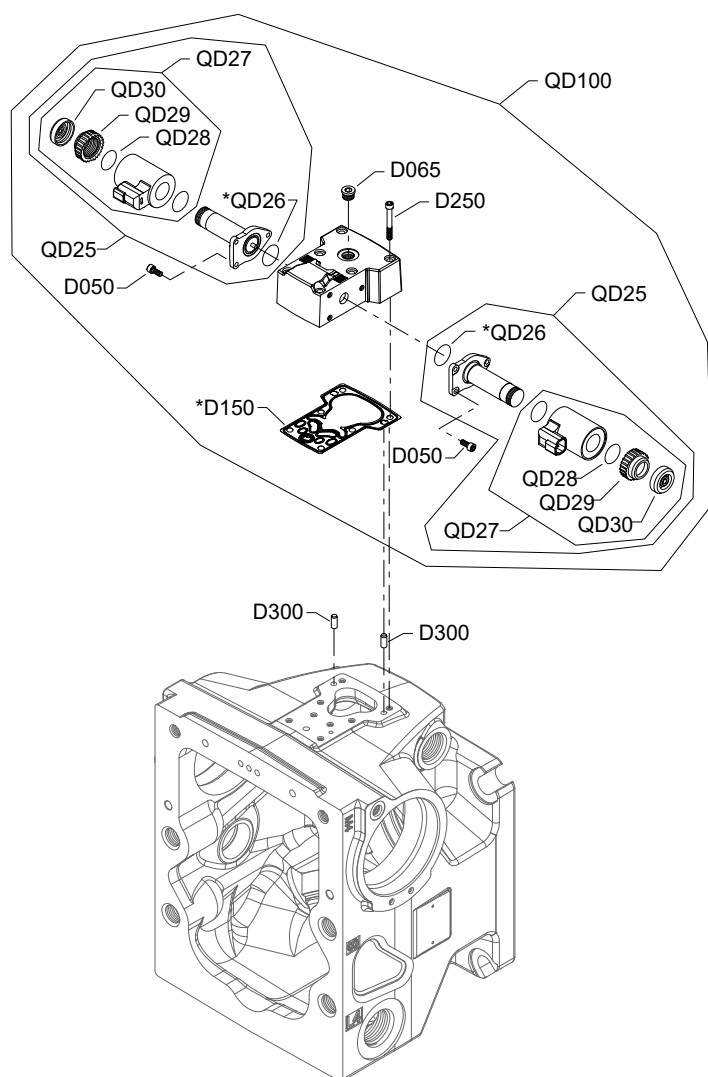
### Order code: M6

|       |       |  |          |                                                                |   |
|-------|-------|--|----------|----------------------------------------------------------------|---|
| QD70  | 14-01 |  | 11231213 | Solenoid valve, 24v ( <a href="#">SB-2024-007</a> on page 211) | 1 |
| QD83  | 24-01 |  | 11253938 | Coil kit, 24v ( <a href="#">SB-2024-007</a> on page 211)       | 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      |          | 9005110-4400 | 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 |  | 11319330 | Coil nut                                                  | 2 |
| QD100 | 16-30 |  | 11147921 | NFPE control kit, 12v, manual override, DEUTSCH connector | 1 |

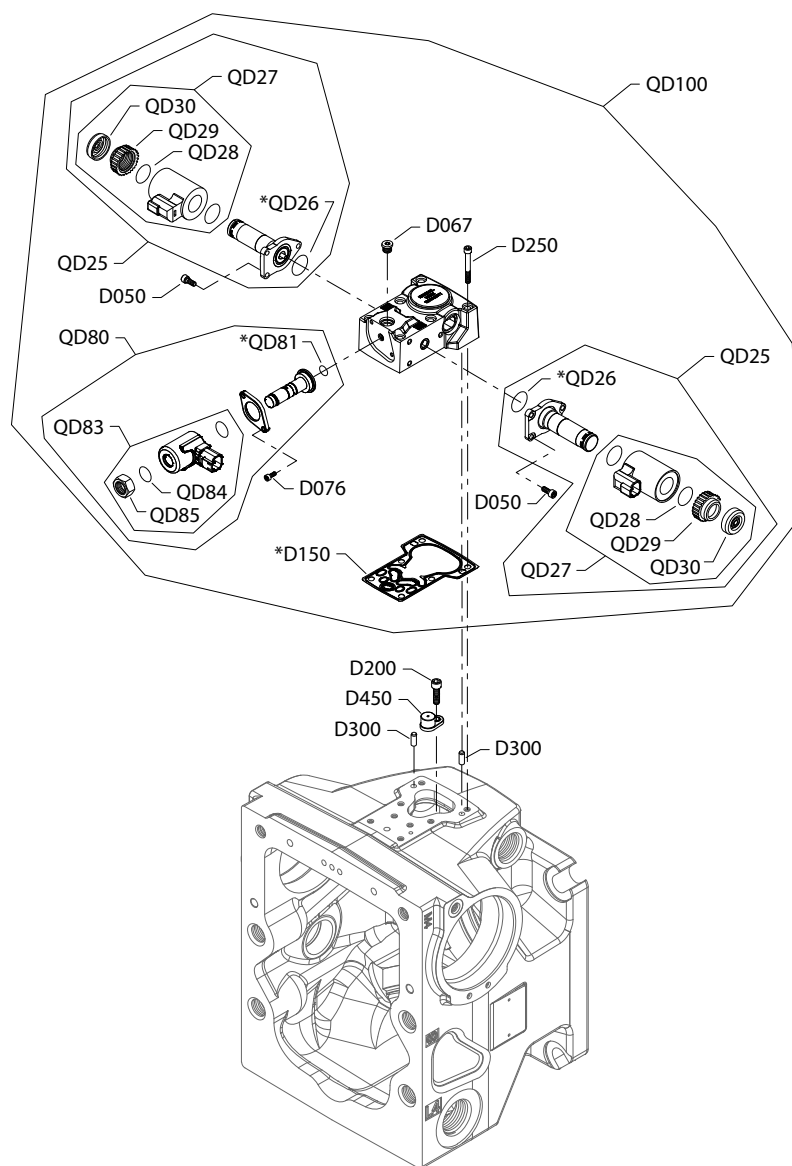
### Order code: N2

|       |       |  |          |                                                           |   |
|-------|-------|--|----------|-----------------------------------------------------------|---|
| QD25  | 16-30 |  | 140751   | Proportional solenoid, 24v, DEUTSCH connector             | 2 |
| QD27  | 16-30 |  | 11004700 | Coil kit, 24v, DEUTSCH connector                          | 2 |
| QD29  | 16-30 |  | 11319361 | 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      |          | 9005110-4400 | 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                  |
| QD30 | 16-30      |          | 11027883     | Cap              | 2                  |
| QD81 | 16-30      |          | 11152257     | 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 |
| QD29  | 16-30 |  | 11319330 | Coil nut                         | 2 |
| QD80  | 16-30 |  | 11231200 | Solenoid, 12V, DEUTSCH connector | 1 |
| QD83  | 16-30 |  | 11232757 | Coil kit, 12V, DEUTSCH connector | 1 |
| QD84  | 16-30 |  | 11232752 | O-ring                           | 1 |
| QD100 | 16-30 |  | 11147920 | NFPE control kit, 12v, CCO       | 1 |

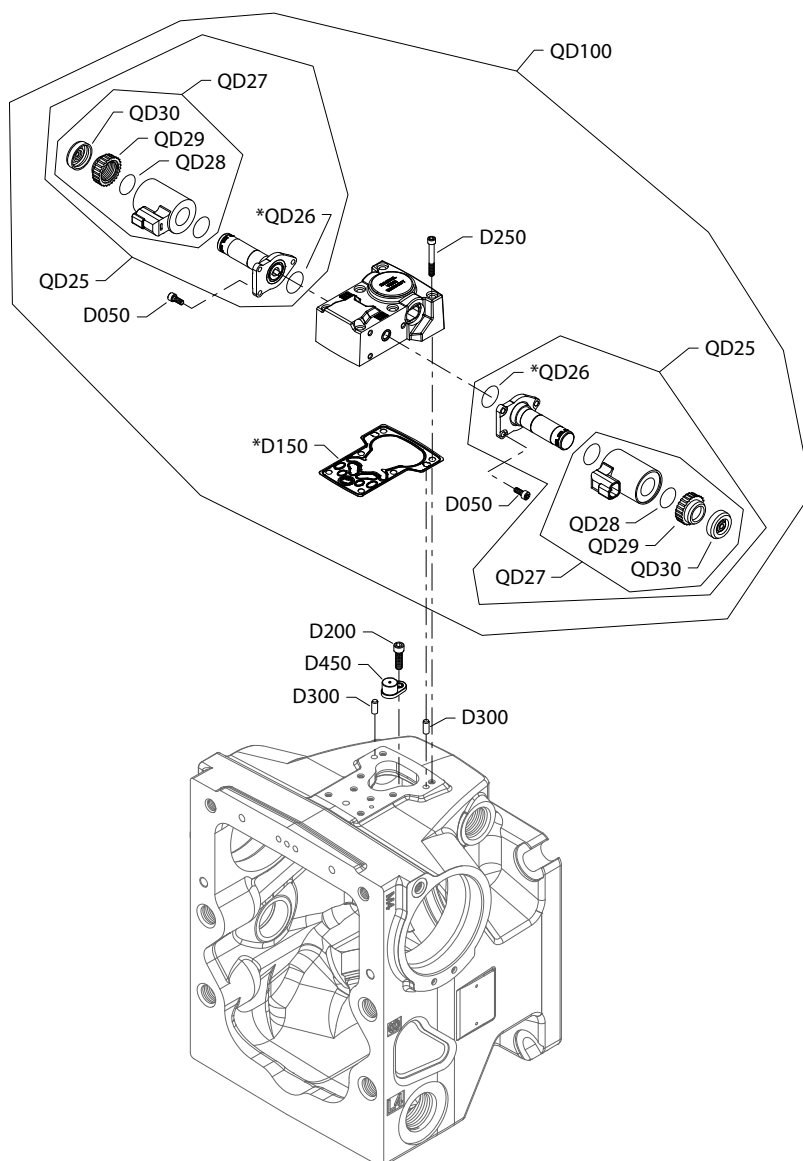
### Order code: N4

|       |       |  |          |                                  |   |
|-------|-------|--|----------|----------------------------------|---|
| QD25  | 16-30 |  | 140751   | Proportional solenoid, 24v       | 2 |
| QD27  | 16-30 |  | 11004700 | Coil kit, 24v, DEUTSCH connector | 2 |
| QD29  | 16-30 |  | 11319361 | Coil nut                         | 2 |
| QD80  | 16-30 |  | 11231201 | Solenoid, 24V, DEUTSCH connector | 1 |
| QD83  | 16-30 |  | 11232697 | Coil kit, 24V, DEUTSCH connector | 1 |
| QD84  | 16-30 |  | 11232752 | O-ring                           | 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                  |
| 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 |
| QD29  | 16-30 |  | 11319330 | Coil nut                               | 2 |
| QD100 | 16-30 |  | 11147918 | NFPE control kit, 12v, manual override | 1 |

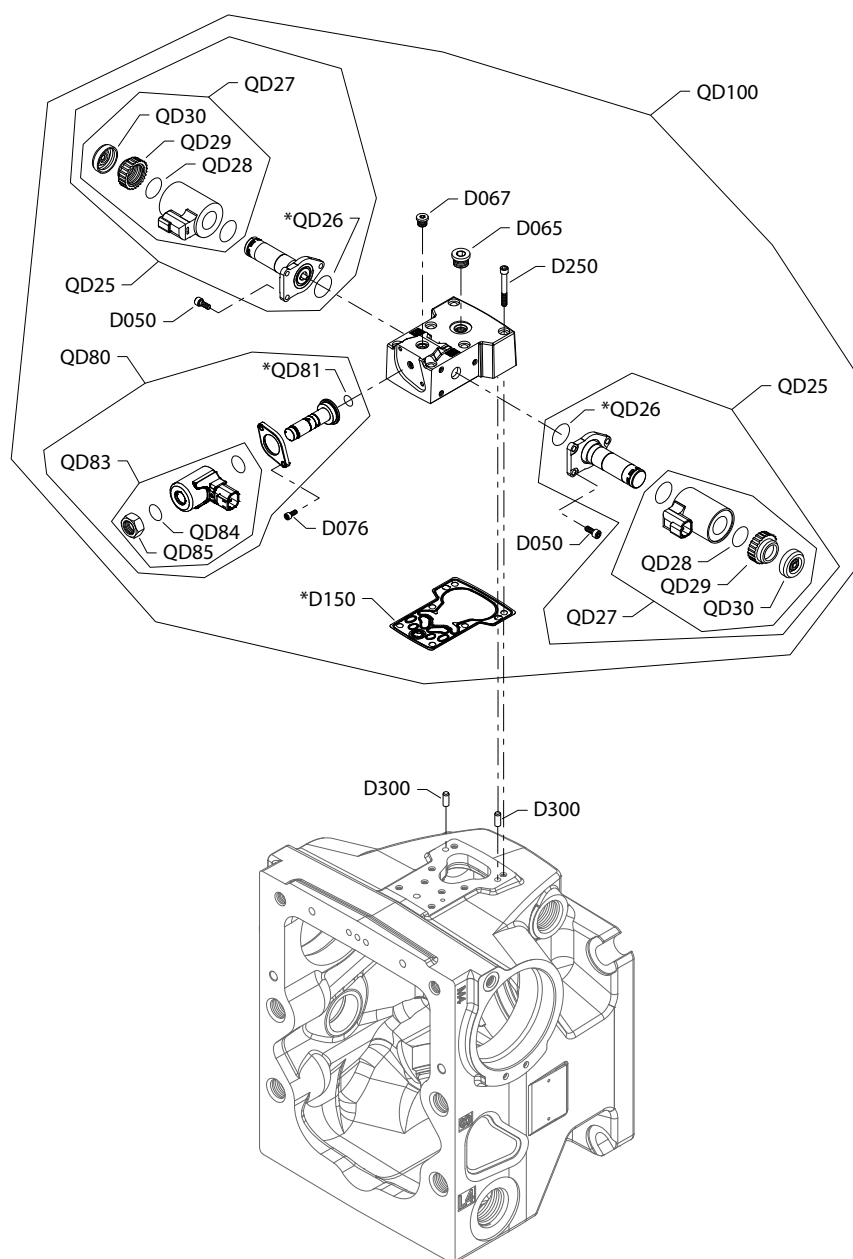
### Order code: N6

|       |       |  |          |                                        |   |
|-------|-------|--|----------|----------------------------------------|---|
| QD25  | 16-30 |  | 140751   | Proportional solenoid, 24v             | 2 |
| QD27  | 16-30 |  | 11004700 | Coil kit, 24v, DEUTSCH connector       | 2 |
| QD29  | 16-30 |  | 11319361 | Coil nut                               | 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      |          | 9005110-4400 | 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                  |
| 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 |  | 11319330 | Coil nut                         | 2 |
| QD80  | 16-30 |  | 11231200 | Solenoid, 12V, DEUTSCH connector | 1 |
| QD83  | 16-30 |  | 11232757 | Coil kit, 12V, DEUTSCH connector | 1 |
| QD84  | 16-30 |  | 11232752 | O-ring                           | 1 |
| QD100 | 16-30 |  | 11147919 | NFPE control kit, 12v, CCO       | 1 |

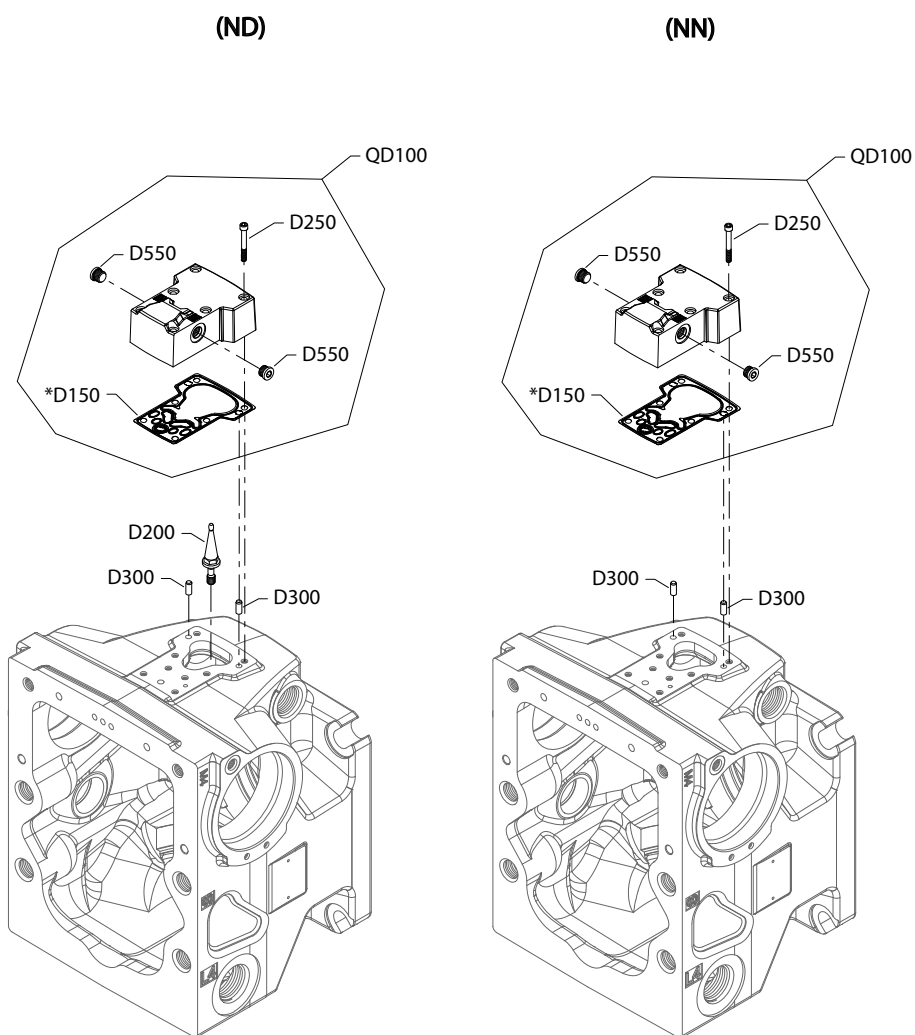
### Order code: N8

|       |       |  |          |                                  |   |
|-------|-------|--|----------|----------------------------------|---|
| QD25  | 16-30 |  | 140751   | Proportional solenoid, 24v       | 2 |
| QD27  | 16-30 |  | 11004700 | Coil kit, 24v, DEUTSCH connector | 2 |
| QD29  | 16-30 |  | 11319361 | Coil nut                         | 2 |
| QD80  | 16-30 |  | 11231201 | Solenoid, 24V, DEUTSCH connector | 1 |
| QD83  | 16-30 |  | 11232697 | Coil kit, 24V, DEUTSCH connector | 1 |
| QD84  | 16-30 |  | 11232752 | O-ring                           | 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                  |

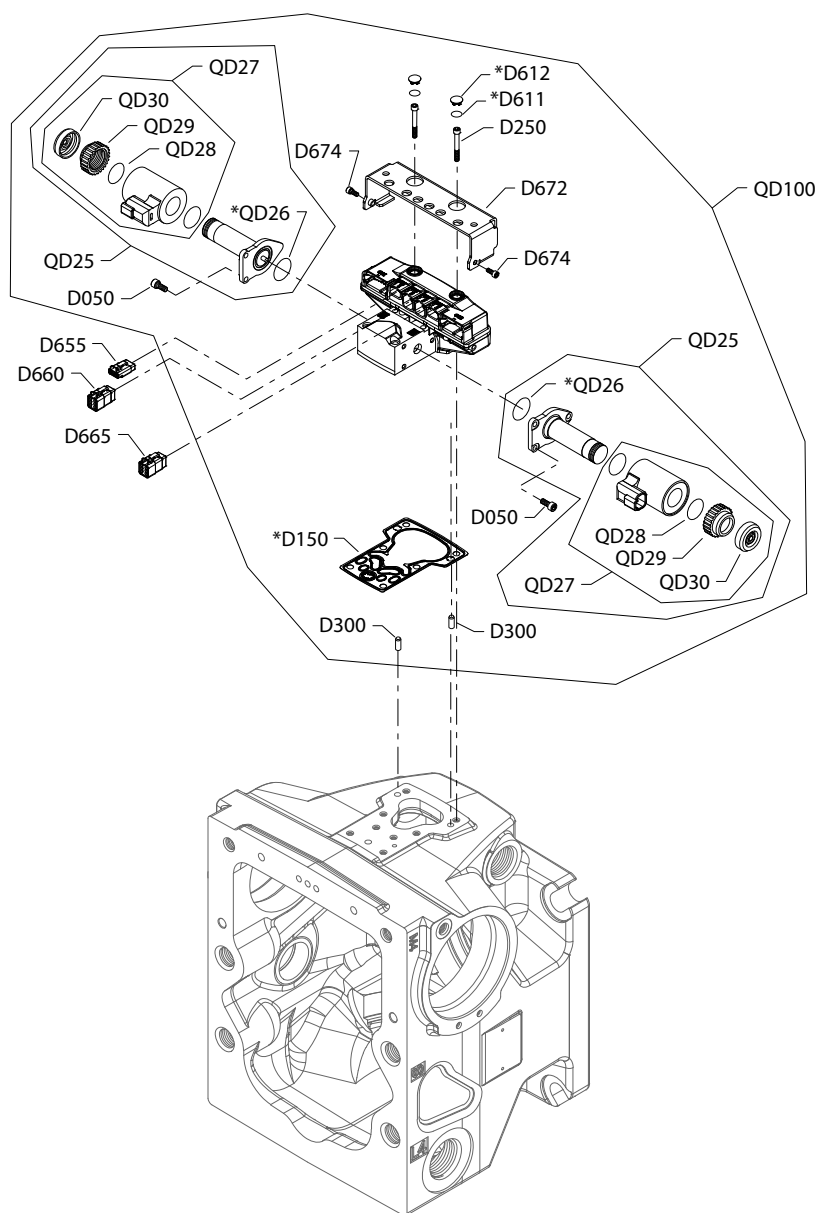
Order code: NN

|       |       |  |          |                                                           |   |
|-------|-------|--|----------|-----------------------------------------------------------|---|
| D150  | 14-01 |  | 11227209 | Control gasket ( <a href="#">SB-2016-033</a> on page 203) | 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

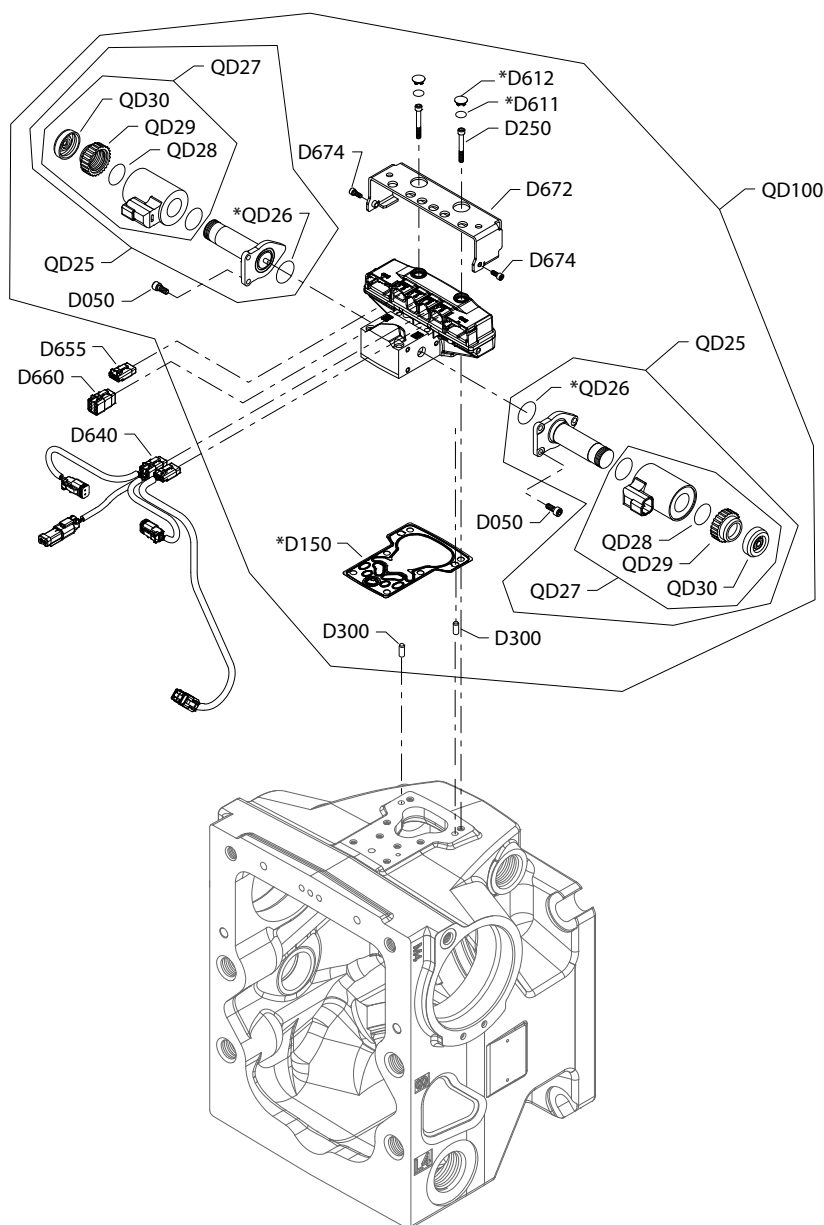
Order code: P5

| 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                  |
| D611  | 17-15      | 21-12    | 11066774    | O-ring ( <a href="#">SB-2021-014</a> on page 210) | 2                  |
| D611  | 21-13      |          | 11225703    | O-ring                                            | 2                  |
| D612  | 17-15      | 21-12    | 11003126    | Plug ( <a href="#">SB-2021-014</a> on page 210)   | 2                  |
| D612  | 21-13      |          | 11223708    | Plug                                              | 2                  |
| 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      |          | 11319330    | Coil nut                                          | 2                  |
| QD30  | 17-15      |          | 11027883    | Cap                                               | 2                  |
| QD100 | 17-15      |          | 11232768    | 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                  |
| D611 | 16-30      | 21-12    | 11066774    | O-ring ( <a href="#">SB-2021-014</a> on page 210) | 2                  |
| D611 | 21-13      |          | 11225703    | O-ring                                            | 2                  |
| D612 | 16-30      | 21-12    | 11003126    | Plug ( <a href="#">SB-2021-014</a> on page 210)   | 2                  |
| D612 | 21-13      |          | 11223708    | Plug                                              | 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: P6

|       |       |  |          |                                              |   |
|-------|-------|--|----------|----------------------------------------------|---|
| QD25  | 16-30 |  | 140750   | Proportional solenoid, 12 volt               | 2 |
| QD27  | 16-30 |  | 11004698 | Coil kit, 12v, DEUTSCH connector             | 2 |
| QD29  | 16-30 |  | 11319330 | Coil nut                                     | 2 |
| QD100 | 16-30 |  | 11232768 | 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 |
| QD29  | 16-30 |  | 11319361 | Coil nut                                     | 2 |
| QD100 | 16-30 |  | 11232769 | Automotive control kit, 24v, manual override | 1 |

**H1P control P8, P9**

[illegible]

\* 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                  |
| D611 | 16-30      | 21-12    | 11066774    | O-ring ( <a href="#">SB-2021-014</a> on page 210) | 2                  |
| D611 | 21-13      |          | 11225703    | O-ring                                            | 2                  |
| D612 | 16-30      | 21-12    | 11003126    | Plug ( <a href="#">SB-2021-014</a> on page 210)   | 2                  |
| D612 | 21-13      |          | 11223708    | Plug                                              | 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 |  | 11319330 | Coil nut                                     | 2 |
| QD100 | 16-30 |  | 11232770 | Automotive control kit, 12v, manual override | 1 |

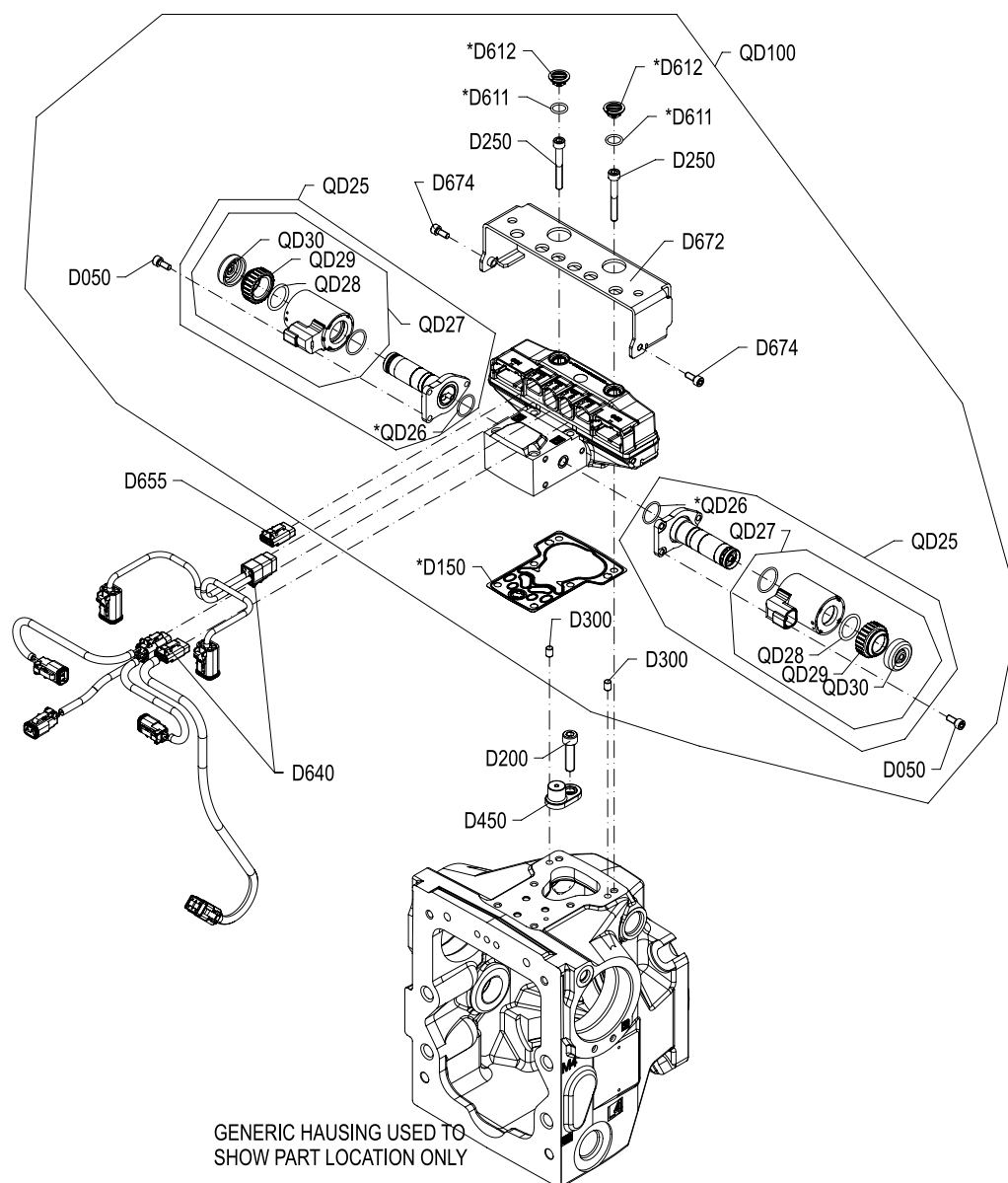
### Order code: P9

|       |       |  |          |                                              |   |
|-------|-------|--|----------|----------------------------------------------|---|
| QD25  | 16-30 |  | 140751   | Proportional solenoid, 24 volt               | 2 |
| QD27  | 16-30 |  | 11004700 | Coil kit, 24v, DEUTSCH connector             | 2 |
| QD29  | 16-30 |  | 11319361 | Coil nut                                     | 2 |
| QD100 | 16-30 |  | 11232771 | 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                  |
| D611 | 16-30      | 21-12    | 11066774    | O-ring ( <a href="#">SB-2021-014</a> on page 210) | 2                  |
| D611 | 21-13      |          | 11225703    | O-ring                                            | 2                  |
| D612 | 16-30      | 21-12    | 11003126    | Plug ( <a href="#">SB-2021-014</a> on page 210)   | 2                  |
| D612 | 21-13      |          | 11223708    | Plug                                              | 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 |  | 11319330 | Coil nut                                     | 2 |
| QD100 | 16-30 |  | 11232770 | Automotive control kit, 12v, manual override | 1 |

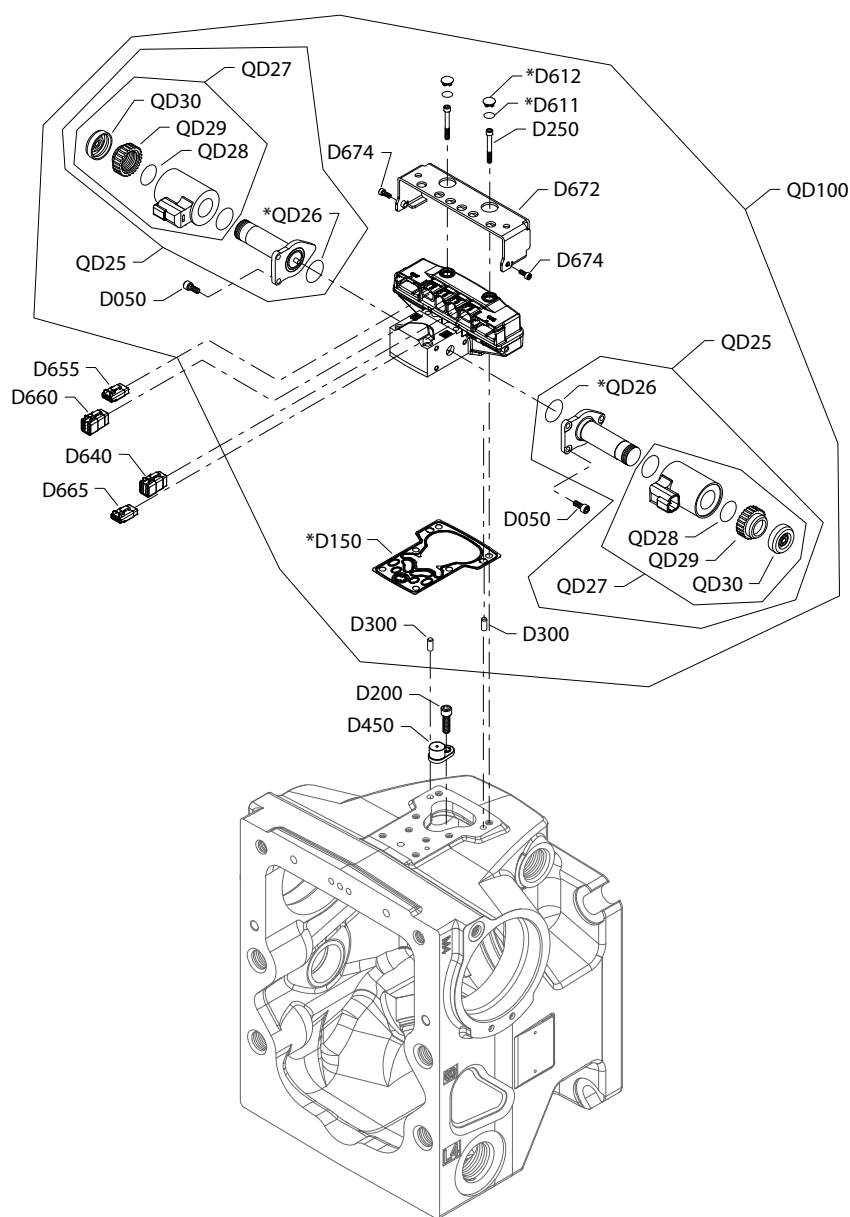
### Order code: R2

|       |       |  |          |                                              |   |
|-------|-------|--|----------|----------------------------------------------|---|
| QD25  | 16-30 |  | 140751   | Proportional solenoid, 24 volt               | 2 |
| QD27  | 16-30 |  | 11004700 | Coil kit, 24v, DEUTSCH connector             | 2 |
| QD29  | 16-30 |  | 11319361 | Coil nut                                     | 2 |
| QD100 | 16-30 |  | 11232771 | Automotive control kit, 24v, manual override | 1 |

## Controls

**H1P control R3**

### R3 configuration



## Generic housing shown

\* Included in overhaul seal kit Q210

## Controls

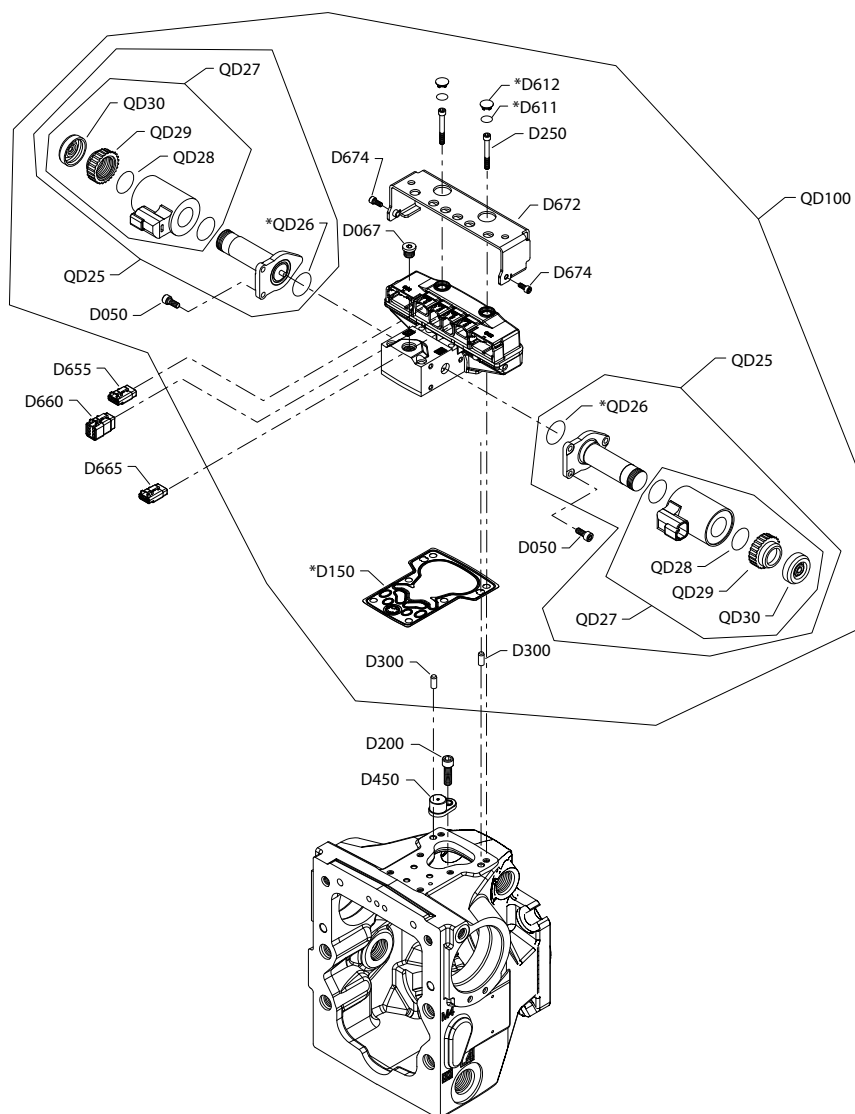
Order code: R3

| 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                  |
| D611  | 16-17      | 21-12    | 11066774    | O-ring ( <a href="#">SB-2021-014</a> on page 210) | 2                  |
| D611  | 21-13      |          | 11225703    | O-ring                                            | 2                  |
| D612  | 16-17      | 21-12    | 11003126    | Plug ( <a href="#">SB-2021-014</a> on page 210)   | 2                  |
| D612  | 21-13      |          | 11223708    | Plug                                              | 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      |          | 11319361    | Coil nut                                          | 2                  |
| QD30  | 16-17      |          | 11027883    | Cap                                               | 2                  |
| QD100 | 16-17      |          | 11232769    | Automotive control kit, 24v, manual override      | 1                  |

## Controls

### H1P control R4

R4 configuration



Generic housing shown

\* Included in overhaul seal kit Q210

## Controls

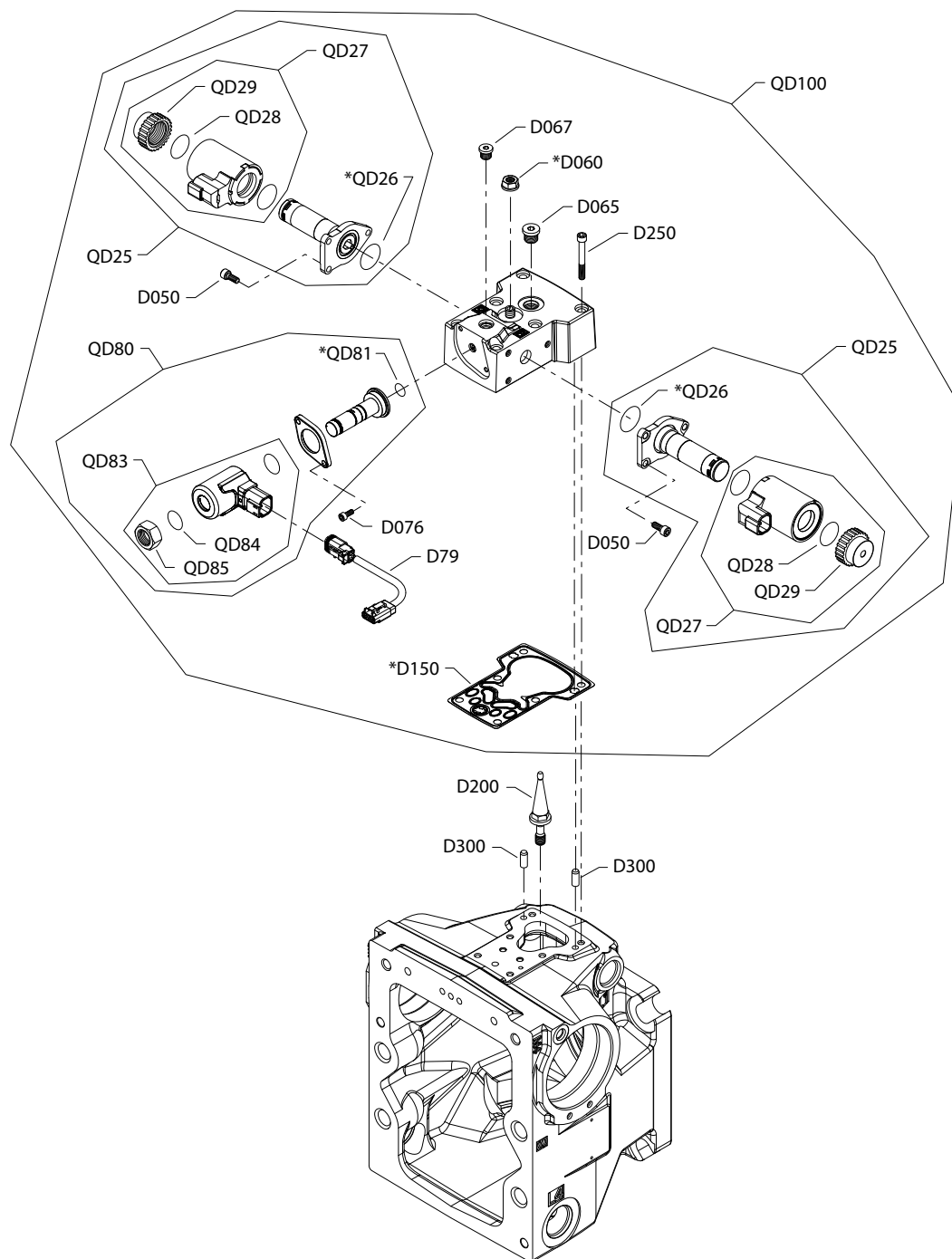
Order code: R4

| 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                  |
| D611  | 17-15      | 21-12    | 11066774    | O-ring ( <a href="#">SB-2021-014</a> on page 210) | 2                  |
| D611  | 21-13      |          | 11225703    | O-ring                                            | 2                  |
| D612  | 17-15      | 21-12    | 11003126    | Plug ( <a href="#">SB-2021-014</a> on page 210)   | 2                  |
| D612  | 21-13      |          | 11223708    | Plug                                              | 2                  |
| 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      |          | 11319330    | Coil nut                                          | 2                  |
| QD30  | 17-15      |          | 11027883    | Cap                                               | 2                  |
| QD100 | 17-15      |          | 11232770    | Automotive control kit, 12v, manual override      | 1                  |

## Controls

### H1P control S6

#### Parts configuration



Generic housing shown.

\* Included in overhaul seal kit Q210

## Controls

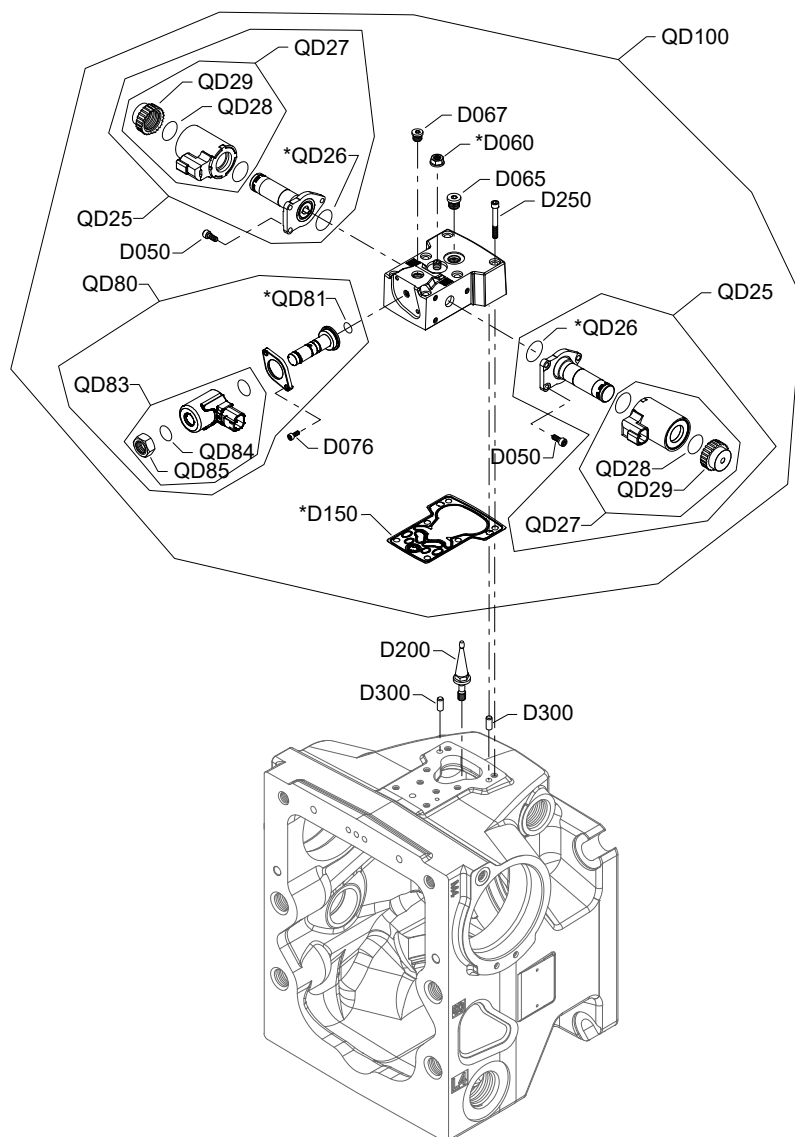
Order code: S6

| Item  | Date Begin | Date End | Part Number           | Part Name                                                           | Qty. per Model/Kit |
|-------|------------|----------|-----------------------|---------------------------------------------------------------------|--------------------|
| D79   | 14-25      |          | 11150437              | Cable adapter                                                       | 1                  |
| D050  | 14-25      |          | 716860                | Screw, M5 x 12                                                      | 6                  |
| D060  | 14-25      |          | 612291 (9003508-0008) | Seal nut, M8                                                        | 1                  |
| D065  | 14-25      |          | 9005110-4400          | Plug assembly                                                       | 1                  |
| D067  | 14-25      |          | 11040532              | Plug assembly                                                       | 1                  |
| D076  | 14-25      |          | 067694                | Screw, M4 x 10                                                      | 2                  |
| D150  | 14-25      |          | 11227209              | Control gasket ( <a href="#">SB-2016-033</a> on page 203)           | 1                  |
| D200  | 14-25      |          | 11202172              | Swashplate feedback link ( <a href="#">SB-2018-025</a> on page 207) | 1                  |
| D250  | 14-25      |          | 505038                | Screw, M6 x 45                                                      | 6                  |
| D300  | 14-25      |          | 310979                | Dowel pin                                                           | 2                  |
| QD25  | 14-25      |          | 11012457              | Proportional solenoid, 12v                                          | 2                  |
| QD26  | 14-25      |          | 11001952              | O-ring                                                              | 2                  |
| QD27  | 14-25      |          | 11028018              | Coil kit, 12v, DEUTSCH connector                                    | 2                  |
| QD28  | 14-25      |          | 063172                | O-ring                                                              | 2                  |
| QD29  | 14-25      |          | 11027046              | Coil nut                                                            | 2                  |
| QD80  | 14-25      |          | 11231200              | Solenoid vale, on/off, 12v                                          | 1                  |
| QD81  | 14-25      |          | 11152257              | O-ring                                                              | 1                  |
| QD83  | 14-25      |          | 11232757              | Coil kit, 12v                                                       | 1                  |
| QD84  | 14-25      |          | 11232752              | O-ring                                                              | 1                  |
| QD85  | 14-25      |          | 11140394              | Coil nut                                                            | 1                  |
| QD100 | 14-25      |          | 11152574              | EDC kit, 12v, CORF                                                  | 1                  |

## Controls

### H1P control S7

#### Parts configuration



Generic housing shown.

\* Included in overhaul seal kit Q210

## Controls

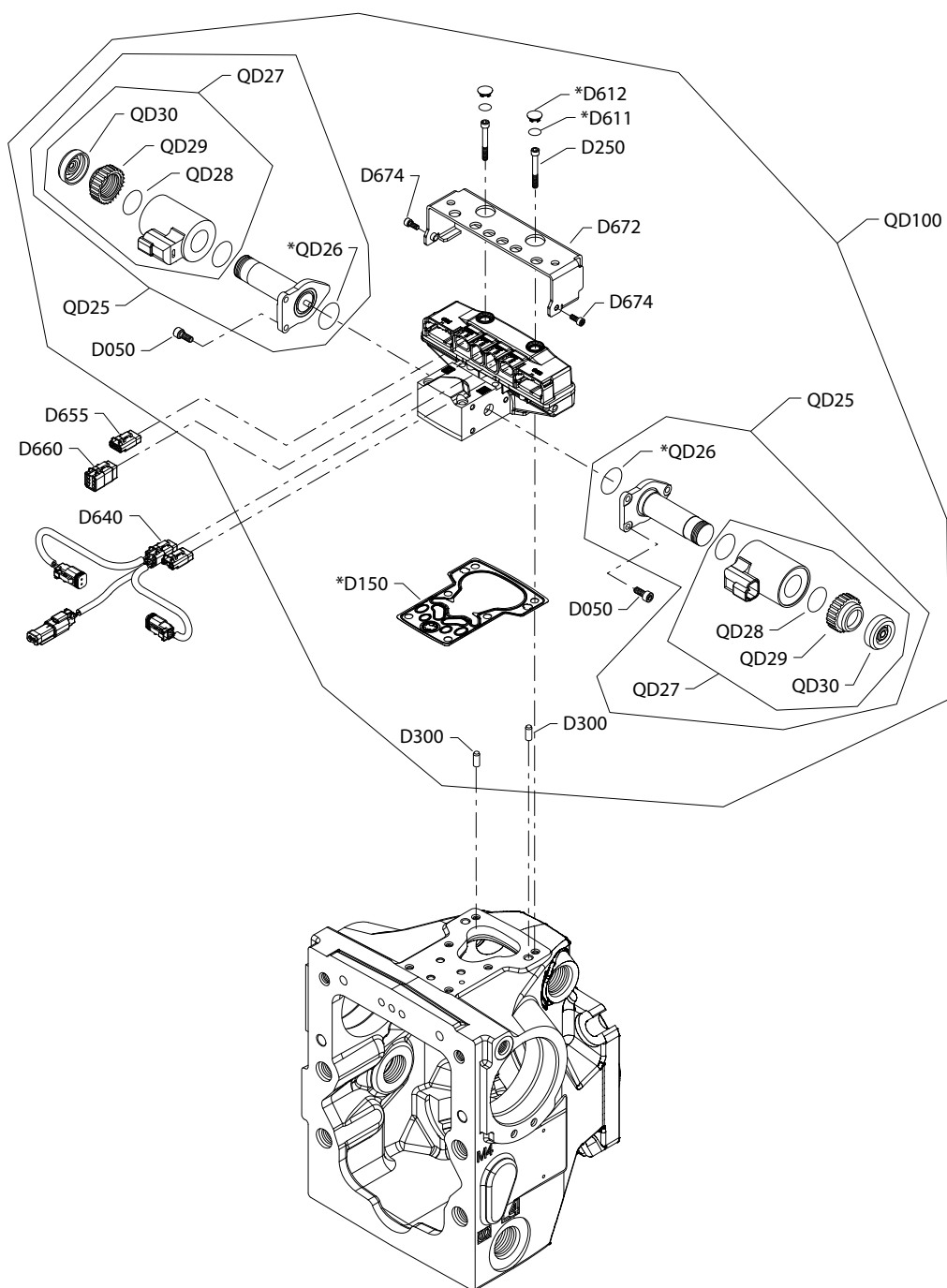
Order code: S7

| Item  | Date Begin | Date End | Part Number           | Part Name                                                           | Qty. per Model/Kit |
|-------|------------|----------|-----------------------|---------------------------------------------------------------------|--------------------|
| D050  | 14-31      |          | 716860                | Screw, M5 x 12                                                      | 6                  |
| D060  | 14-31      |          | 612291 (9003508-0008) | Seal nut, M8                                                        | 1                  |
| D065  | 14-31      |          | 9005110-4400          | Plug assembly                                                       | 1                  |
| D067  | 14-31      |          | 11040532              | Plug assembly                                                       | 1                  |
| D076  | 14-25      |          | 067694                | Screw, M4 x 10                                                      | 2                  |
| D150  | 14-31      |          | 11227209              | Control gasket ( <a href="#">SB-2016-033</a> on page 203)           | 1                  |
| D200  | 14-31      |          | 11202172              | Swashplate feedback link ( <a href="#">SB-2018-025</a> on page 207) | 1                  |
| D250  | 14-31      |          | 505038                | Screw, M6 x 45                                                      | 6                  |
| D300  | 14-31      |          | 310979                | Dowel pin                                                           | 2                  |
| QD25  | 14-31      |          | 11012457              | Proportional solenoid, 12v                                          | 2                  |
| QD26  | 14-31      |          | 11001952              | O-ring                                                              | 2                  |
| QD27  | 14-31      |          | 11028018              | Coil kit, 12v, DEUTSCH connector                                    | 2                  |
| QD28  | 14-31      |          | 063172                | O-ring                                                              | 2                  |
| QD29  | 14-31      |          | 11027046              | Coil nut                                                            | 2                  |
| QD80  | 14-31      |          | 11231200              | Solenoid vale, on/off, 12v                                          | 1                  |
| QD81  | 14-31      |          | 11152257              | O-ring                                                              | 1                  |
| QD83  | 14-31      |          | 11232757              | Coil kit, 12v                                                       | 1                  |
| QD84  | 14-31      |          | 11232752              | O-ring                                                              | 1                  |
| QD85  | 14-31      |          | 11140394              | Coil nut                                                            | 1                  |
| QD100 | 14-31      |          | 11152574              | EDC kit, 12v, CORF                                                  | 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                  |
| D611  | 18-15      | 21-12    | 11066774    | O-ring ( <a href="#">SB-2021-014</a> on page 210) | 2                  |
| D611  | 21-13      |          | 11225703    | O-ring                                            | 2                  |
| D612  | 18-15      | 21-12    | 11003126    | Plug ( <a href="#">SB-2021-014</a> on page 210)   | 2                  |
| D612  | 21-13      |          | 11223708    | Plug                                              | 2                  |
| 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      |          | 11232768    | 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      |          | 11319330    | Coil nut                                          | 2                  |
| QD30  | 18-15      |          | 11027883    | Cap                                               | 2                  |

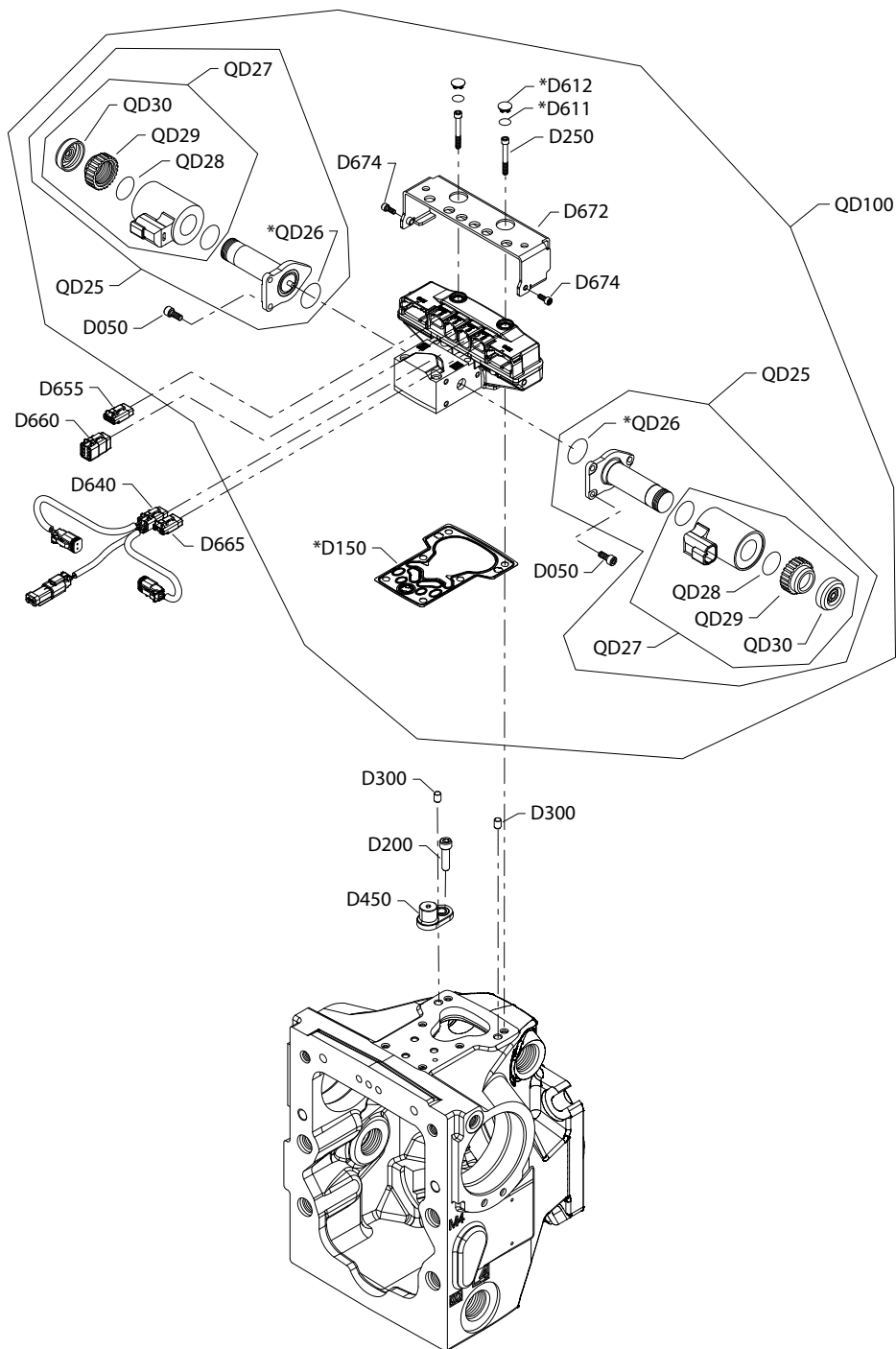
Order code: T7

|       |       |       |          |                                                   |   |
|-------|-------|-------|----------|---------------------------------------------------|---|
| 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 |
| D611  | 18-15 | 21-12 | 11066774 | O-ring ( <a href="#">SB-2021-014</a> on page 210) | 2 |
| D611  | 21-13 |       | 11225703 | O-ring                                            | 2 |
| D612  | 18-15 | 21-12 | 11003126 | Plug ( <a href="#">SB-2021-014</a> on page 210)   | 2 |
| D612  | 21-13 |       | 11223708 | Plug                                              | 2 |
| 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 |       | 11232769 | 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 |       | 11319361 | 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

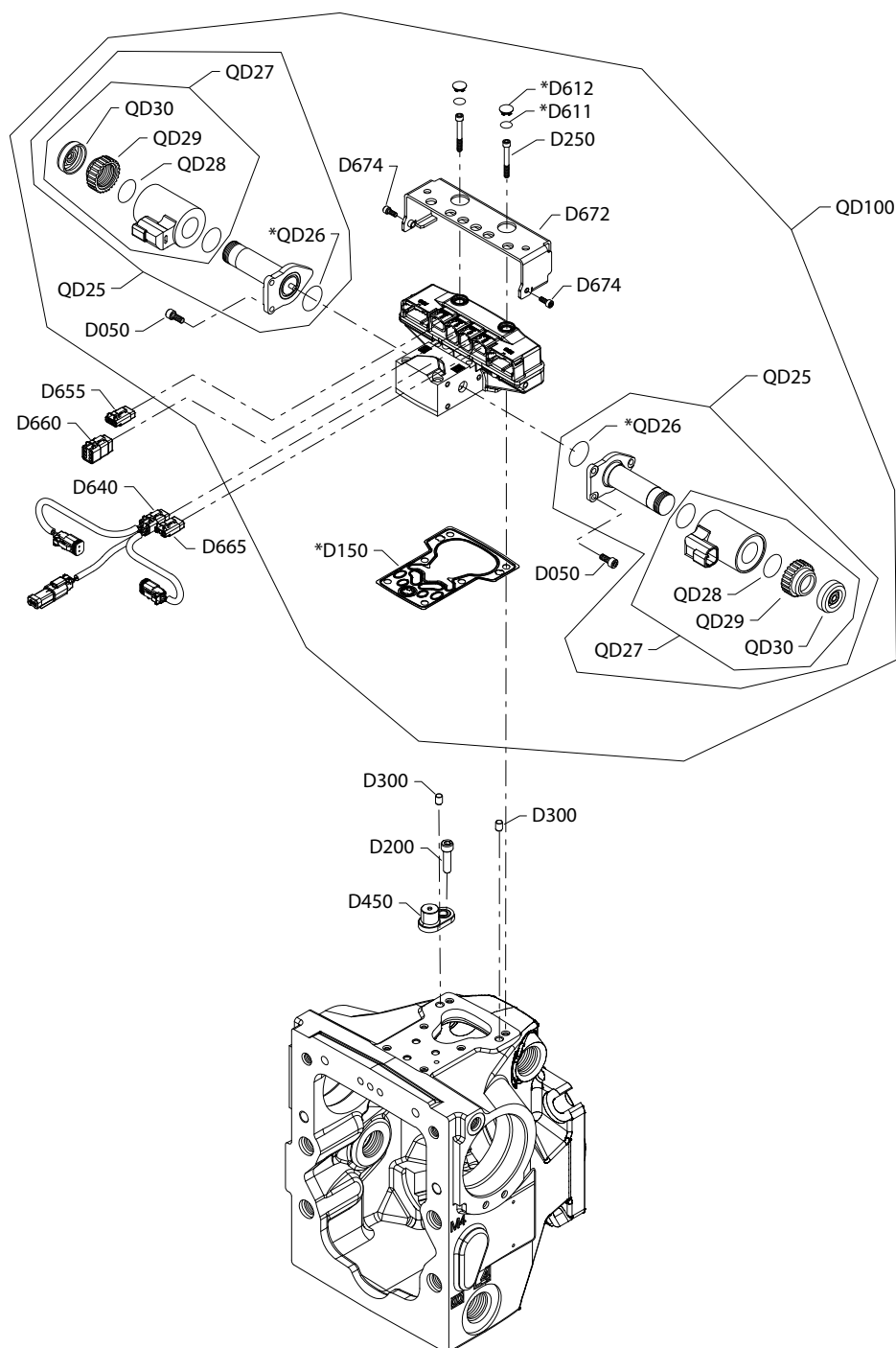
Order code: T8

| 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                  |
| D611  | 18-12      | 21-12    | 11066774    | O-ring ( <a href="#">SB-2021-014</a> on page 210) | 2                  |
| D611  | 21-13      |          | 11225703    | O-ring                                            | 2                  |
| D612  | 18-12      | 21-12    | 11003126    | Plug ( <a href="#">SB-2021-014</a> on page 210)   | 2                  |
| D612  | 21-13      |          | 11223708    | Plug                                              | 2                  |
| 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      |          | 11232770    | 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      |          | 11319330    | Coil nut                                          | 2                  |
| QD30  | 18-12      |          | 11027883    | Cap                                               | 2                  |

[Parts list continued on next 2 pages.](#)

## Controls

Order code T8, T9



Generic housing shown

\* Included in overhaul seal kit Q210

## Controls

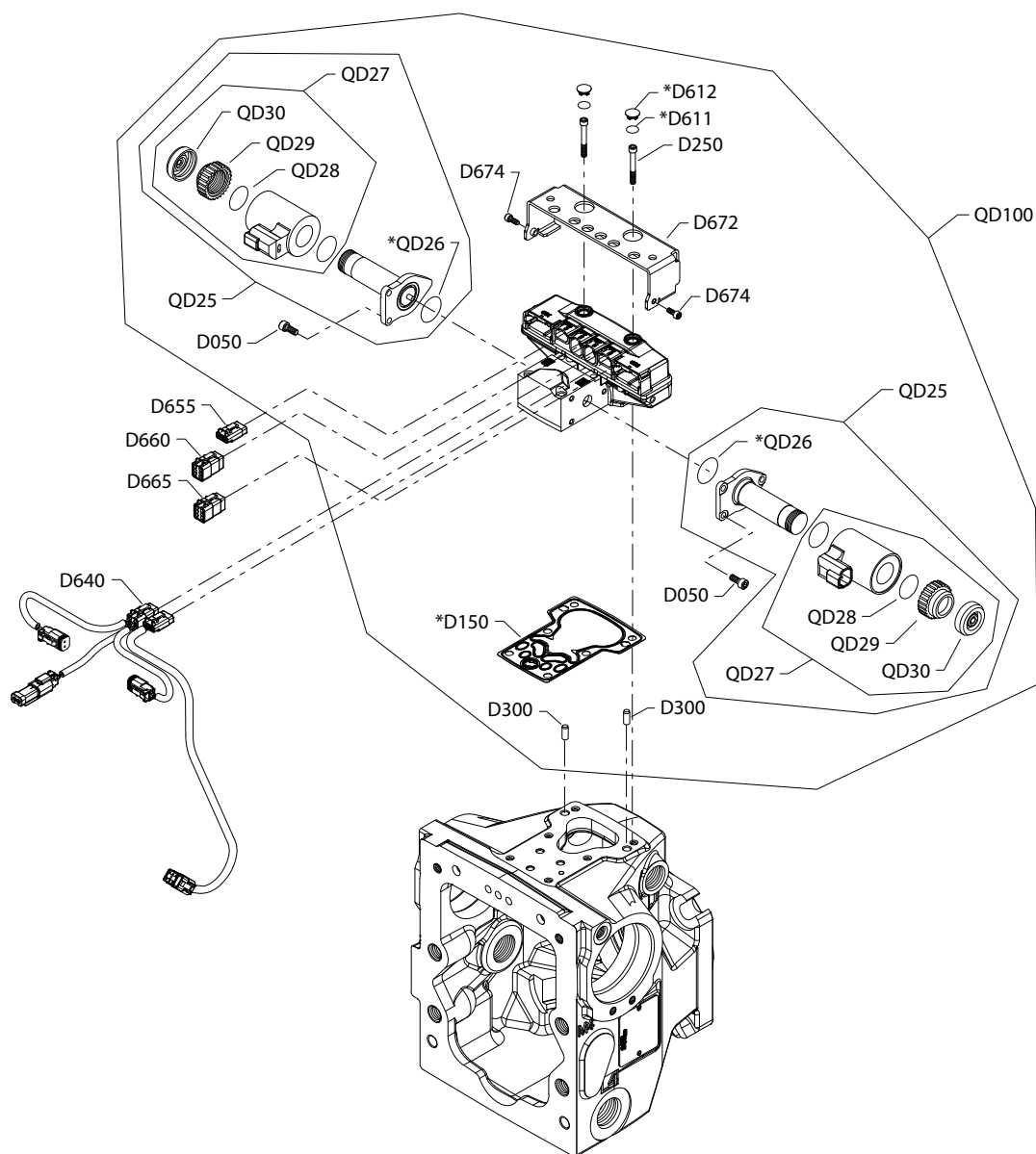
Order code: T9

|       |       |       |          |                                                   |   |
|-------|-------|-------|----------|---------------------------------------------------|---|
| 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 |
| D611  | 18-12 | 21-12 | 11066774 | O-ring ( <a href="#">SB-2021-014</a> on page 210) | 2 |
| D611  | 21-13 |       | 11225703 | O-ring                                            | 2 |
| D612  | 18-12 | 21-12 | 11003126 | Plug ( <a href="#">SB-2021-014</a> on page 210)   | 2 |
| D612  | 21-13 |       | 11223708 | Plug                                              | 2 |
| 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 |       | 11232771 | 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 |       | 11319361 | Coil nut                                          | 2 |
| QD30  | 18-12 |       | 11027883 | Cap                                               | 2 |

## Controls

### H1P control U1, U2

#### Parts configuration



Generic housing shown

\* Included in overhaul seal kit Q210

## Controls

### Common parts

| Item | Date Begin | Date End | Part Number | Part Number                                       | Qty. per Model/Kit |
|------|------------|----------|-------------|---------------------------------------------------|--------------------|
| D050 | 18-10      |          | 716860      | Screw, M5 x 12                                    | 6                  |
| D150 | 18-10      |          | 11227209    | Control gasket                                    | 1                  |
| D250 | 18-10      |          | 505038      | Screw, M6 x 45                                    | 6                  |
| D300 | 18-10      |          | 11036469    | Dowel pin                                         | 2                  |
| D611 | 18-10      | 21-12    | 11066774    | O-ring ( <a href="#">SB-2021-014</a> on page 210) | 2                  |
| D611 | 21-13      |          | 11225703    | O-ring                                            | 2                  |
| D612 | 18-10      | 21-12    | 11003126    | Plug ( <a href="#">SB-2021-014</a> on page 210)   | 2                  |
| D612 | 21-13      |          | 11223708    | Plug                                              | 2                  |
| D640 | 18-10      |          | 11197432    | AC wiring harness                                 | 1                  |
| D655 | 18-10      |          | 11084827    | Connector DTM 06-3s                               | 1                  |
| D660 | 18-10      |          | 11084822    | Connector DTM 06-6s                               | 1                  |
| D665 | 18-10      |          | 11084827    | Connector DTM 06-3s                               | 1                  |
| D672 | 18-10      |          | 11151875    | Protection                                        | 1                  |
| D674 | 18-10      |          | 716860      | Screw, M5 x 12                                    | 2                  |
| QD26 | 18-10      |          | 11001952    | O-ring                                            | 2                  |
| QD28 | 18-10      |          | 063172      | O-ring                                            | 2                  |
| QD30 | 18-10      |          | 11027883    | Cap                                               | 2                  |

### Order code: U1

|       |       |  |          |                                  |   |
|-------|-------|--|----------|----------------------------------|---|
| QD100 | 18-10 |  | 11232792 | Service control kit, 12v         | 1 |
| QD25  | 18-10 |  | 140750   | Proportional solenoid, 12v       | 2 |
| QD27  | 18-10 |  | 11004698 | Coil kit, 12v, DEUTSCH connector | 2 |
| QD29  | 18-10 |  | 11319330 | Coil nut                         | 2 |

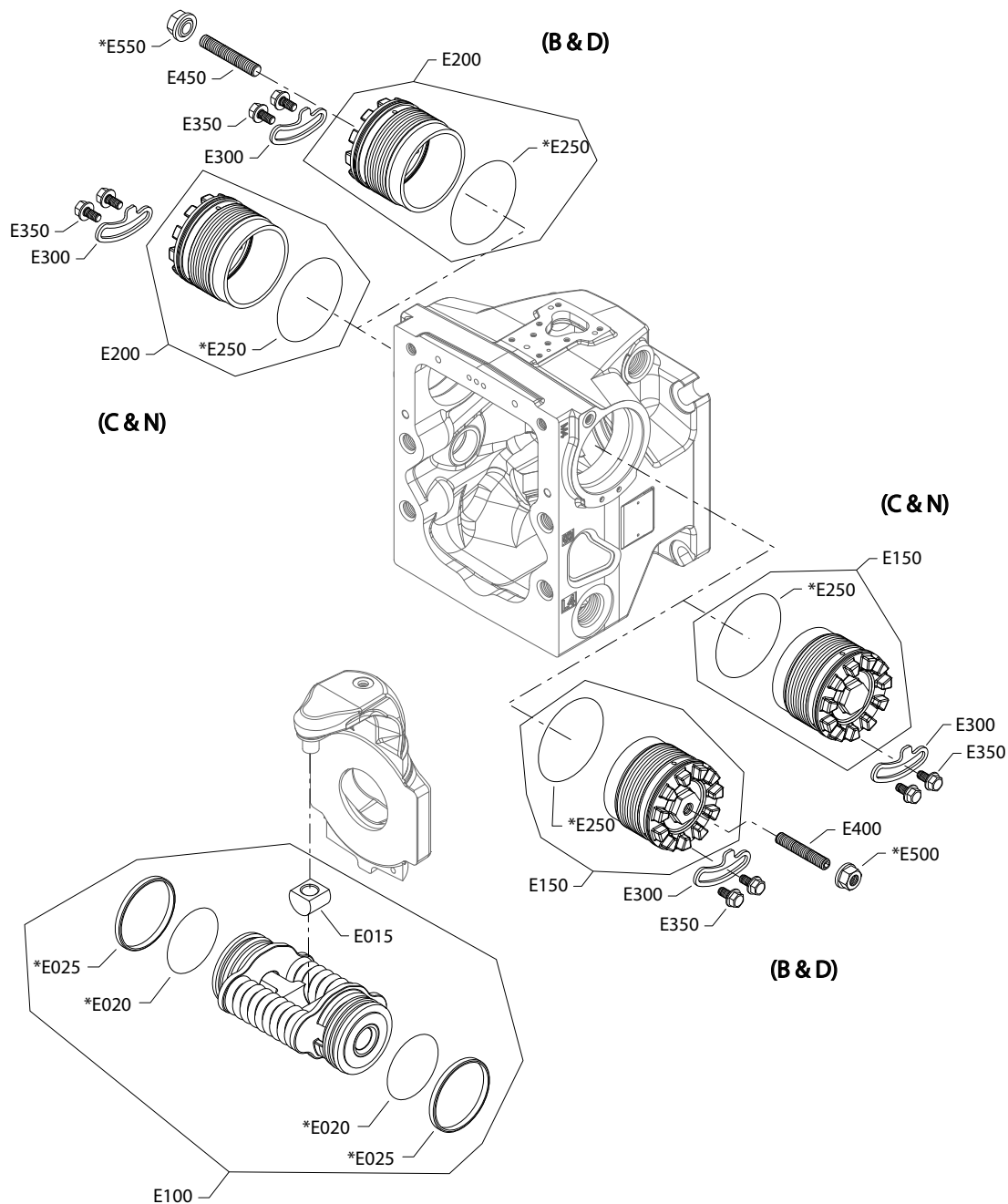
### Order code: U2

|       |       |  |          |                                              |   |
|-------|-------|--|----------|----------------------------------------------|---|
| QD100 | 16-29 |  | 11232793 | Automotive control kit, 24V, manual override | 1 |
| QD25  | 16-29 |  | 140751   | Proportional solenoid, 24V                   | 2 |
| QD27  | 16-29 |  | 11004700 | Coil kit, 24V, DEUTSCH connector             | 2 |
| QD29  | 16-29 |  | 11319361 | Coil nut                                     | 2 |

## Displacement limitation

### H1P 115/130cc 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 | 08-10      |          | 11141991              | Slider block                                             | 1                  |
| E020 | 08-10      |          | 11075557              | O-ring                                                   | 2                  |
| E025 | 08-10      |          | 11075556              | Piston seal ring                                         | 2                  |
| E250 | 08-10      |          | 071845 (9004104-1510) | O-ring                                                   | 2                  |
| E300 | 10-35      |          | 11229549              | Locking plate                                            | 2                  |
| E300 | 08-10      | 10-34    | 140513                | Locking plate ( <a href="#">SB-2009-046</a> on page 185) | 2                  |
| E350 | 08-10      |          | 508438                | Screw                                                    | 4                  |

### Order code: B

|      |       |  |          |                                                                    |   |
|------|-------|--|----------|--------------------------------------------------------------------|---|
| E100 | 08-10 |  | 141243   | Servo piston assembly                                              | 1 |
| E150 | 08-10 |  | 11089772 | Servo cylinder assembly ( <a href="#">SB-2009-046</a> on page 185) | 1 |
| E200 | 08-10 |  | 11089772 | Servo cylinder assembly ( <a href="#">SB-2009-046</a> on page 185) | 1 |
| E400 | 08-10 |  | 11000798 | Set screw                                                          | 1 |
| E450 | 08-10 |  | 11000798 | Set screw                                                          | 1 |
| E500 | 08-10 |  | 649822   | Seal nut                                                           | 1 |
| E550 | 08-10 |  | 649822   | Seal nut                                                           | 1 |

### Order code: C

|      |       |  |          |                                                                    |   |
|------|-------|--|----------|--------------------------------------------------------------------|---|
| E100 | 08-10 |  | 11001831 | Servo piston assembly w/nested spring                              | 1 |
| E150 | 08-10 |  | 11089773 | Servo cylinder assembly ( <a href="#">SB-2009-046</a> on page 185) | 1 |
| E200 | 08-10 |  | 11089773 | Servo cylinder assembly ( <a href="#">SB-2009-046</a> on page 185) | 1 |

### Order code: D

|      |       |  |          |                                                                    |   |
|------|-------|--|----------|--------------------------------------------------------------------|---|
| E100 | 08-10 |  | 11001831 | Servo piston assembly w/nested spring                              | 1 |
| E150 | 08-10 |  | 11089772 | Servo cylinder assembly ( <a href="#">SB-2009-046</a> on page 185) | 1 |
| E200 | 08-10 |  | 11089772 | Servo cylinder assembly ( <a href="#">SB-2009-046</a> on page 185) | 1 |
| E400 | 08-10 |  | 11000798 | Set screw                                                          | 1 |
| E450 | 08-10 |  | 11000798 | Set screw                                                          | 1 |
| E500 | 08-10 |  | 649822   | Seal nut                                                           | 1 |
| E550 | 08-10 |  | 649822   | Seal nut                                                           | 1 |

### Order code: N

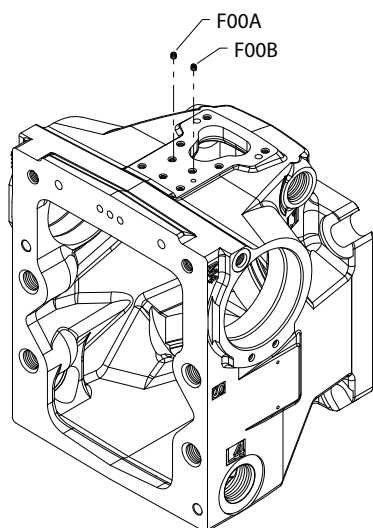
|      |       |  |          |                                                                    |   |
|------|-------|--|----------|--------------------------------------------------------------------|---|
| E100 | 08-10 |  | 141243   | Servo piston assembly                                              | 1 |
| E150 | 08-10 |  | 11089773 | Servo cylinder assembly ( <a href="#">SB-2009-046</a> on page 185) | 1 |
| E200 | 08-10 |  | 11089773 | Servo cylinder assembly ( <a href="#">SB-2009-046</a> on page 185) | 1 |

## Orifice

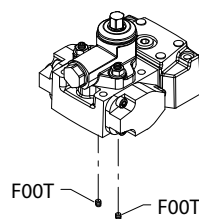
### H1P orifice C-D

Parts configuration

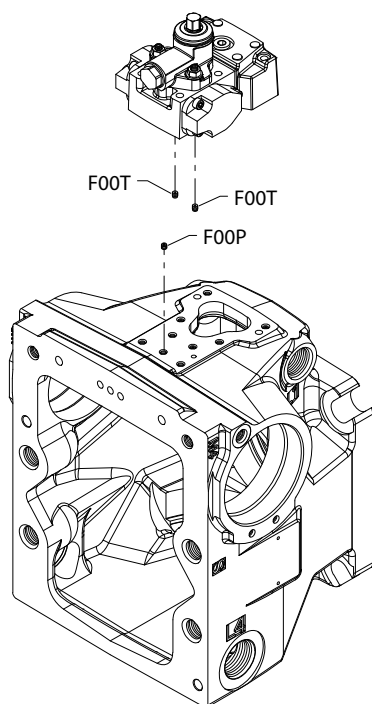
**(C1, C2, C4, C5, D7, D8)**



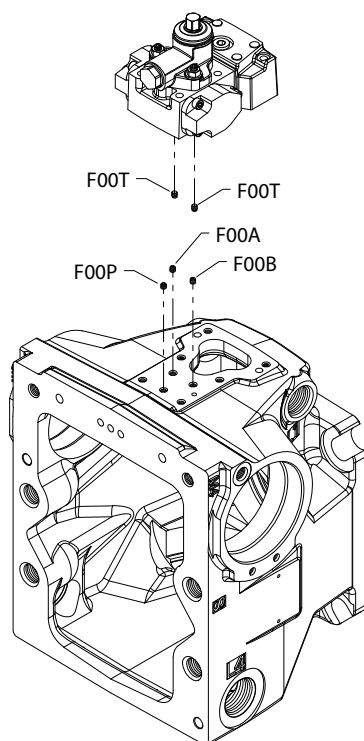
**(C6, C7)**



**(D1, D2, D3, D6, E5)**



**(D4)**



Generic controls and housings shown.

## Orifice

### Order code: C1

| Item | Date Begin | Date End | Part Number | Part Name                  | Qty. per Model/Kit |
|------|------------|----------|-------------|----------------------------|--------------------|
| F00A | 08-10      |          | 140611      | Orifice, 0.8, M6 x 0.75 mm | 1                  |
| F00B | 08-10      |          | 140611      | Orifice, 0.8, M6 x 0.75 mm | 1                  |

### Order code: C2

|      |       |  |        |                            |   |
|------|-------|--|--------|----------------------------|---|
| F00A | 08-10 |  | 140754 | Orifice, 1.3, M6 x 0.75 mm | 1 |
| F00B | 08-10 |  | 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: C5

|      |       |  |        |                           |   |
|------|-------|--|--------|---------------------------|---|
| F00A | 18-01 |  | 140759 | Orifice, 2.5, M6 x 0.75mm | 1 |
| F00B | 18-01 |  | 140759 | Orifice, 2.5, M6 x 0.75mm | 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: D1

|      |       |  |          |                           |   |
|------|-------|--|----------|---------------------------|---|
| F00P | 14-01 |  | 11151734 | Orifice, 1.0 M6 x 0.75 mm | 1 |
| F00T | 14-01 |  | 140611   | Orifice, 0.8 M6 x 0.75 mm | 2 |

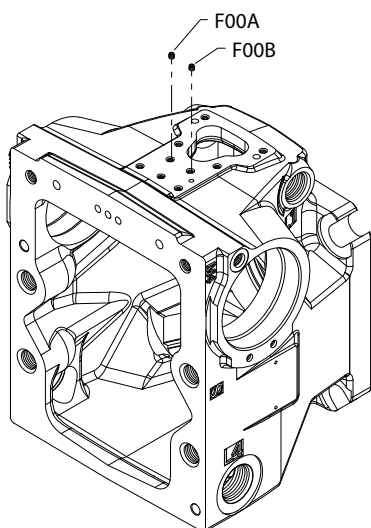
### Order code: D2

|      |       |  |        |                            |   |
|------|-------|--|--------|----------------------------|---|
| F00P | 14-01 |  | 140754 | Orifice, 1.3, M6 x 0.75 mm | 1 |
| F00T | 14-01 |  | 140611 | Orifice, 0.8 M6 x 0.75 mm  | 2 |

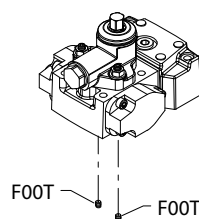
## Orifice

### Parts configuration

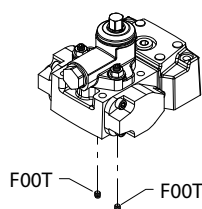
**(C1, C2, C4, C5, D7, D8)**



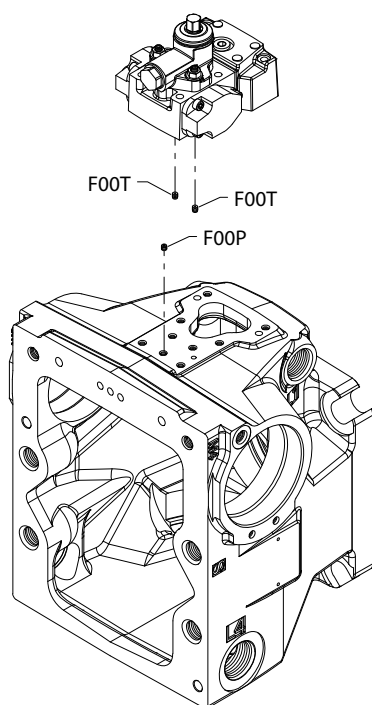
**(C6, C7)**



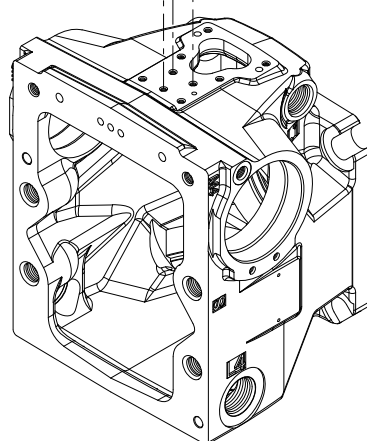
**(D4)**



**(D1, D2, D3, D6, E5)**



**(D4)**



Generic controls and housings shown.

## Orifice

Order code: D3

| Item | Date Begin | Date End | Part Number | Part Name                  | Qty. per Model/Kit |
|------|------------|----------|-------------|----------------------------|--------------------|
| 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 |

Order code: E5

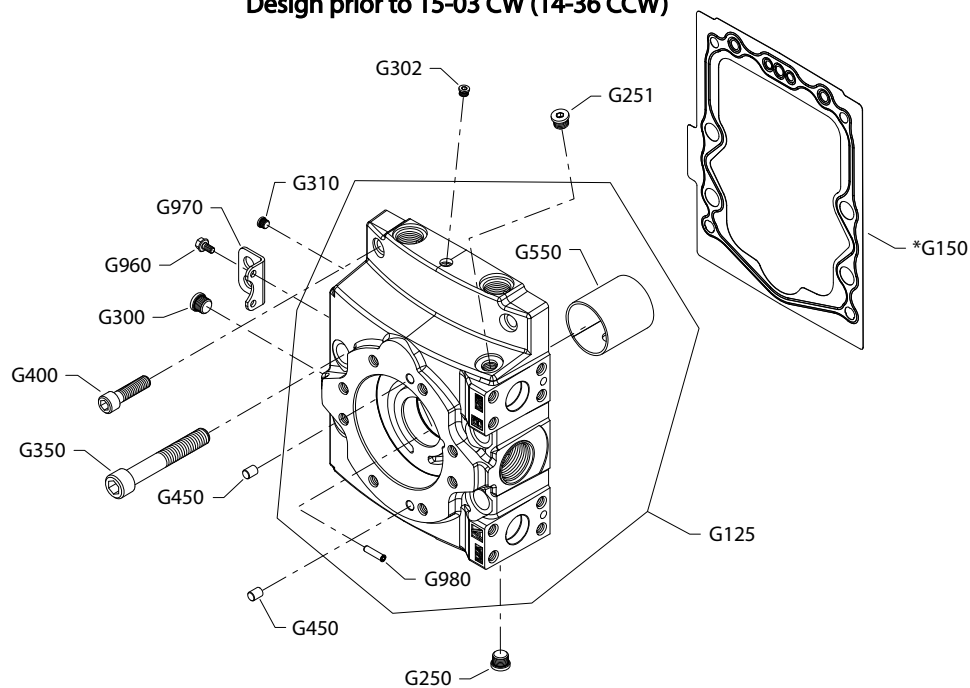
|      |       |  |          |                         |   |
|------|-------|--|----------|-------------------------|---|
| F00P | 20-38 |  | 11151734 | Orifice, 1.0, M6 x 0.75 | 1 |
| F00T | 20-38 |  | 140754   | Orifice, 1.3, M6 x 0.75 | 2 |

## End cap

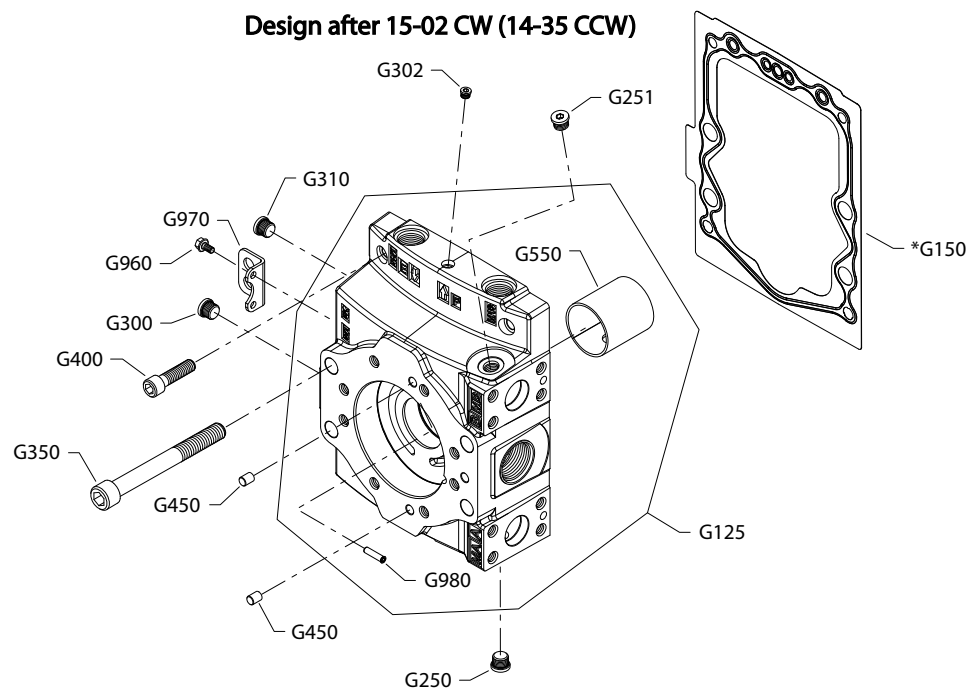
### H1P 115/130cc end cap D3

Parts configuration

#### Design prior to 15-03 CW (14-36 CCW)



#### Design after 15-02 CW (14-35 CCW)



\* Included in overhaul seal kit Q210

## End cap

Order code: D3 (CW)

| Item | Date Begin | Date End | Part Number  | Part Name                           | Qty. per Model/Kit |
|------|------------|----------|--------------|-------------------------------------|--------------------|
| G125 | 15-03      |          | 11003665     | End cap assembly, CW                | 1                  |
| G150 | 08-10      |          | 11001894     | End cap gasket                      | 1                  |
| G250 | 08-10      |          | 140644       | Plug assembly                       | 1                  |
| G251 | 08-10      |          | 140644       | Plug assembly                       | 1                  |
| G300 | 08-10      |          | 140644       | Plug assembly                       | 1                  |
| G302 | 08-10      |          | 11040532     | Plug assembly (CW rotation pump)    | 1                  |
| G310 | 15-03      |          | 140644       | Plug assembly (CW rotation pump)    | 1                  |
| G310 | 08-10      | 15-02    | 11040532     | Plug assembly (CW rotation pump)    | 1                  |
| G350 | 15-03      |          | 5000676      | Screw, M16 x 130 (CW rotation pump) | 4                  |
| G350 | 08-10      | 15-02    | 519508       | Screw, M16 x 100 (CW rotation pump) | 4                  |
| G400 | 08-10      |          | 147900       | Screw, M10 x 45                     | 2                  |
| G450 | 08-10      |          | 9004800-3708 | Dowel pin                           | 2                  |
| G550 | 08-10      |          | 11070150     | Journal bearing                     | 1                  |
| G960 | 08-10      |          | 508438       | Screw M6 x 12                       | 2                  |
| G970 | 08-10      |          | 4460311      | Lifting bracket                     | 1                  |
| G980 | 08-10      |          | 11000229     | Lubrication orifice                 | 1                  |

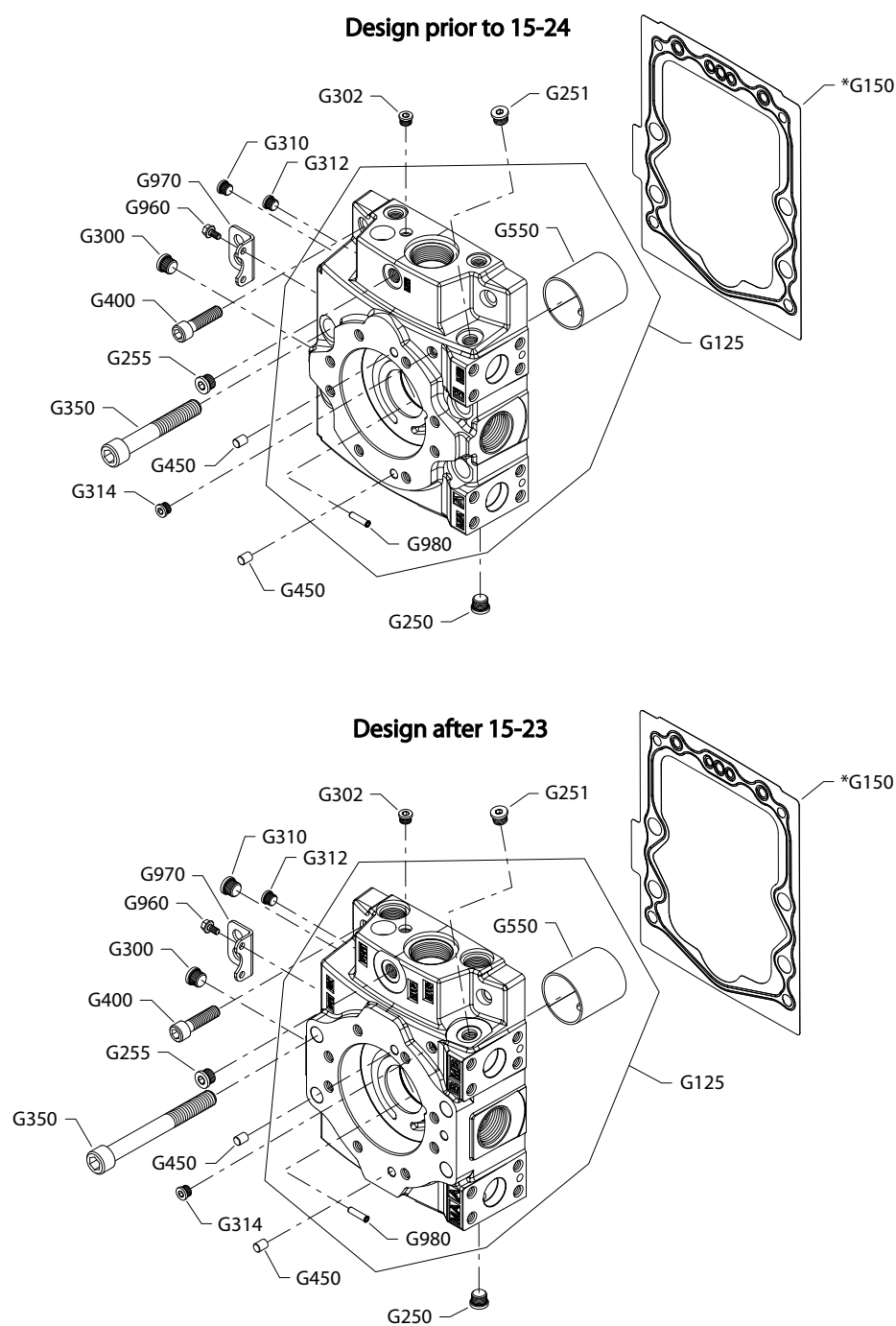
Order code: D3 (CCW)

|      |       |       |              |                                      |   |
|------|-------|-------|--------------|--------------------------------------|---|
| G125 | 14-36 |       | 11003643     | End cap assembly, CCW                | 1 |
| G150 | 08-10 |       | 11001894     | End cap gasket                       | 1 |
| G250 | 08-10 |       | 140644       | Plug assembly                        | 1 |
| G251 | 08-10 |       | 140644       | Plug assembly                        | 1 |
| G300 | 08-10 |       | 140644       | Plug assembly                        | 1 |
| G302 | 14-36 |       | 11040532     | Plug assembly (CCW rotation pump)    | 1 |
| G310 | 14-36 |       | 140644       | Plug assembly (CCW rotation pump)    | 1 |
| G310 | 08-10 | 14-35 | 11040532     | Plug assembly (CCW rotation pump)    | 1 |
| G350 | 14-36 |       | 5000676      | Screw, M16 x 130 (CCW rotation pump) | 4 |
| G350 | 08-10 | 14-35 | 519508       | Screw, M16 x 100 (CCW rotation pump) | 4 |
| G400 | 08-10 |       | 147900       | Screw, M10 x 45                      | 2 |
| G450 | 08-10 |       | 9004800-3708 | Dowel pin                            | 2 |
| G550 | 08-10 |       | 11070150     | Journal bearing                      | 1 |
| G960 | 08-10 |       | 508438       | Screw M6 x 12                        | 2 |
| G970 | 08-10 |       | 4460311      | Lifting bracket                      | 1 |
| G980 | 08-10 |       | 11000229     | Lubrication orifice                  | 1 |

## End cap

### H1P 115/130cc end cap D4

Parts configuration



This option is available in SAE and metric configurations. Please order accordingly.

\* Included in overhaul seal kit Q210

## End cap

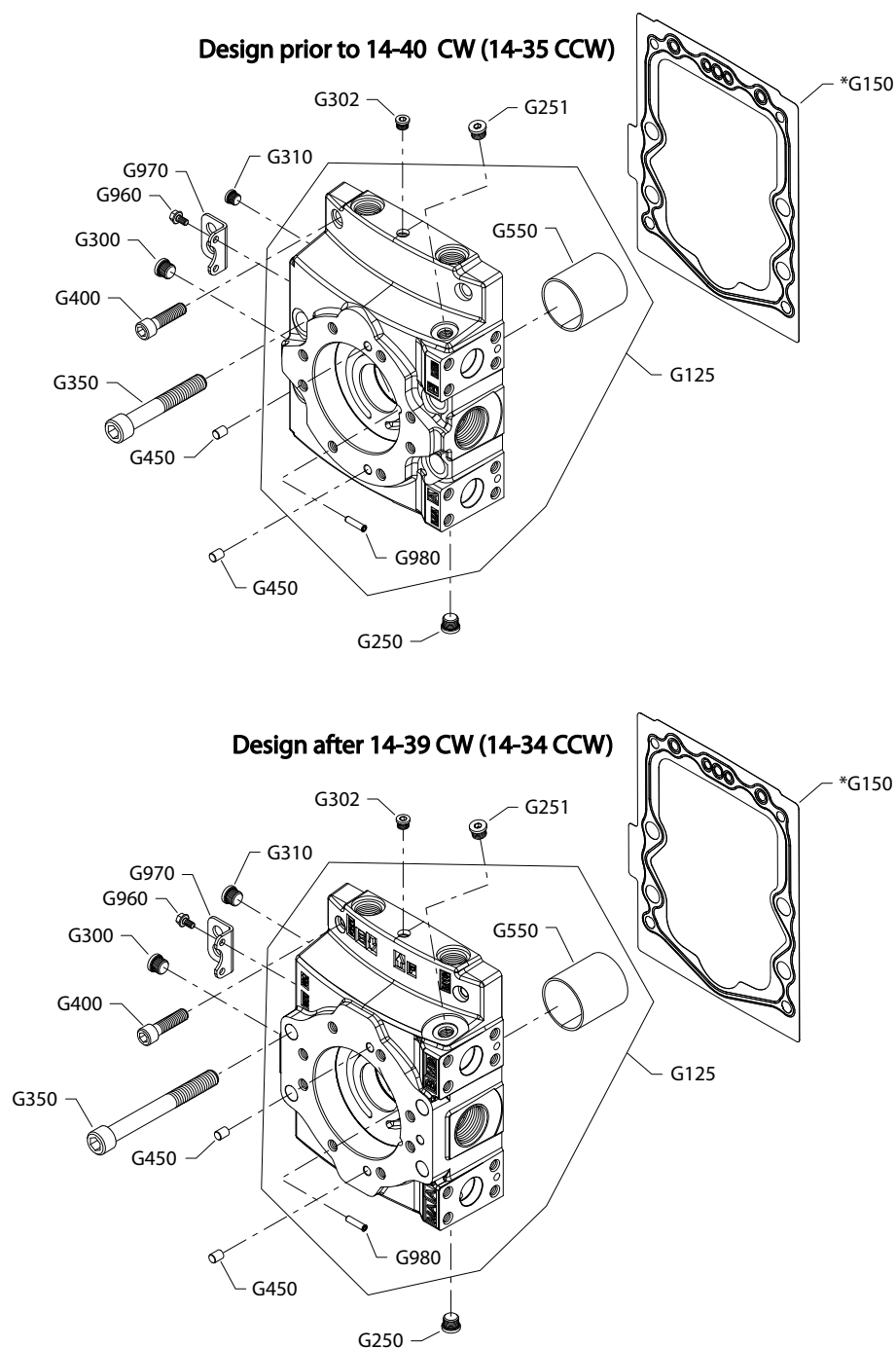
Order code: D4

| Item | Date Begin | Date End | Part Number  | Part Name                     | Qty. per Model/Kit |
|------|------------|----------|--------------|-------------------------------|--------------------|
| G125 | 15-24      |          | 11003672     | End cap assembly, CW          | 1                  |
| G125 | 16-09      |          | 11173128     | End cap assembly, CW (metric) | 1                  |
| G125 | 15-24      |          | 11003650     | End cap assembly, CCW         | 1                  |
| G150 | 08-10      |          | 11001894     | End cap gasket                | 1                  |
| G250 | 08-10      |          | 140644       | Plug assembly                 | 1                  |
| G251 | 08-10      |          | 140644       | Plug assembly                 | 1                  |
| G255 | 08-10      |          | 140644       | Plug assembly                 | 1                  |
| G300 | 08-10      |          | 140644       | Plug assembly                 | 1                  |
| G250 | 16-09      |          | 11178808     | Plug assembly, M14 (metric)   | 1                  |
| G251 | 16-09      |          | 11178808     | Plug assembly, M14 (metric)   | 1                  |
| G255 | 16-09      |          | 11178808     | Plug assembly, M14 (metric)   | 1                  |
| G300 | 16-09      |          | 11178808     | Plug assembly, M14 (metric)   | 1                  |
| G302 | 08-10      |          | 11040532     | Plug assembly                 | 1                  |
| G310 | 15-24      |          | 140644       | Plug assembly                 | 1                  |
| G310 | 08-10      | 15-23    | 11040532     | Plug assembly                 | 1                  |
| G310 | 16-09      |          | 11178808     | Plug assembly, M14 (metric)   | 1                  |
| G312 | 08-10      |          | 11040532     | Plug assembly                 | 1                  |
| G314 | 15-24      |          | 11040532     | Plug assembly                 | 1                  |
| G350 | 15-24      |          | 5000676      | Screw, M16 x 130              | 4                  |
| G350 | 08-10      | 15-23    | 519508       | Screw, M16 x 100              | 4                  |
| G350 | 16-09      |          | 5000676      | Screw, M16 x 130 (metric)     | 4                  |
| G400 | 08-10      |          | 147900       | Screw, M10 x 45               | 2                  |
| G450 | 08-10      |          | 9004800-3708 | Dowel pin                     | 2                  |
| G550 | 08-10      |          | 11070150     | Journal bearing               | 1                  |
| G960 | 08-10      |          | 508438       | Screw M6 x 12                 | 2                  |
| G970 | 08-10      |          | 4460311      | Lifting bracket               | 1                  |
| G980 | 08-10      |          | 11000229     | Lubrication orifice           | 1                  |

## End cap

### H1P 115/130cc end cap D6

Parts 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 | 08-10      |          | 11001894     | End cap gasket      | 1                  |
| G250 | 08-10      |          | 140644       | Plug assembly       | 1                  |
| G251 | 08-10      |          | 140644       | Plug assembly       | 1                  |
| G300 | 08-10      |          | 140644       | Plug assembly       | 1                  |
| G400 | 08-10      |          | 147900       | Screw, M10 x 45     | 2                  |
| G450 | 08-10      |          | 9004800-3708 | Dowel pin           | 2                  |
| G550 | 08-10      |          | 11070150     | Journal bearing     | 1                  |
| G960 | 08-10      |          | 508438       | Screw M6 x 12       | 2                  |
| G970 | 08-10      |          | 4460311      | Lifting bracket     | 1                  |
| G980 | 08-10      |          | 11000229     | Lubrication orifice | 1                  |

### Order code: D6 (CW)

|      |       |       |          |                                     |   |
|------|-------|-------|----------|-------------------------------------|---|
| G125 | 14-40 |       | 11003667 | End cap assembly, CW                | 1 |
| G302 | 08-10 |       | 11040532 | Plug assembly (CW rotation pump)    | 1 |
| G310 | 14-40 |       | 140644   | Plug assembly (CW rotation pump)    | 1 |
| G310 | 08-10 | 14-39 | 11040532 | Plug assembly (CW rotation pump)    | 1 |
| G350 | 14-40 |       | 5000676  | Screw, M16 x 130 (CW rotation pump) | 4 |
| G350 | 08-10 | 14-39 | 519508   | Screw, M16 x 100 (CW rotation pump) | 4 |

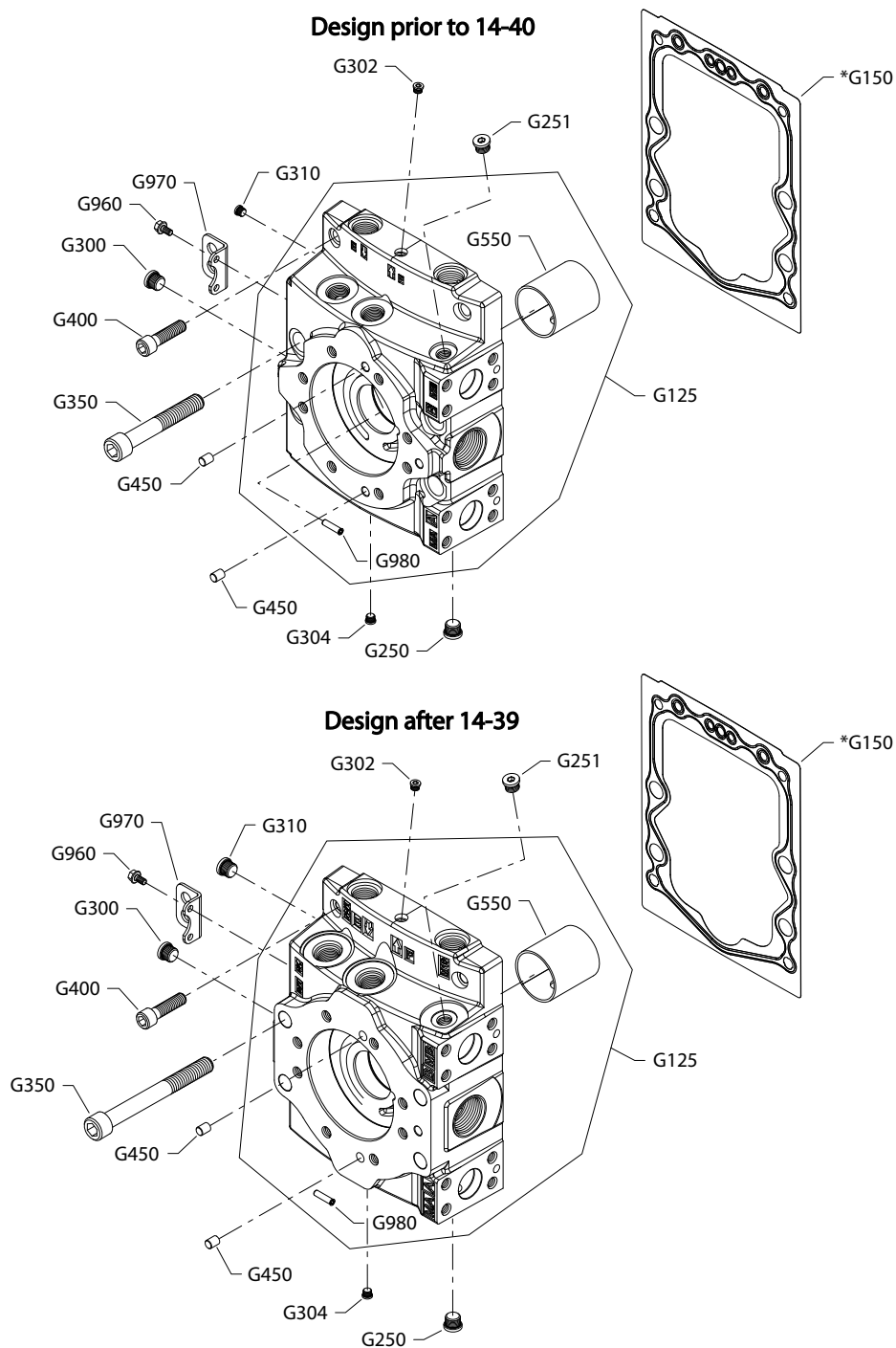
### Order code: D6 (CCW)

|      |       |       |          |                                      |   |
|------|-------|-------|----------|--------------------------------------|---|
| G125 | 14-35 |       | 11003645 | End cap assembly, CCW                | 1 |
| G302 | 08-10 |       | 11040532 | Plug assembly (CCW rotation pump)    | 1 |
| G310 | 14-35 |       | 140644   | Plug assembly (CCW rotation pump)    | 1 |
| G310 | 08-10 | 14-34 | 11040532 | Plug assembly (CCW rotation pump)    | 1 |
| G350 | 14-35 |       | 5000676  | Screw, M16 x 130 (CCW rotation pump) | 4 |
| G350 | 08-10 | 14-34 | 519508   | Screw, M16 x 100 (CCW rotation pump) | 4 |

## End cap

### H1P 115/130cc end cap D8

Parts configuration



This option is available in SAE and metric configurations. Please order accordingly.

\* Included in overhaul seal kit Q210.

## End cap

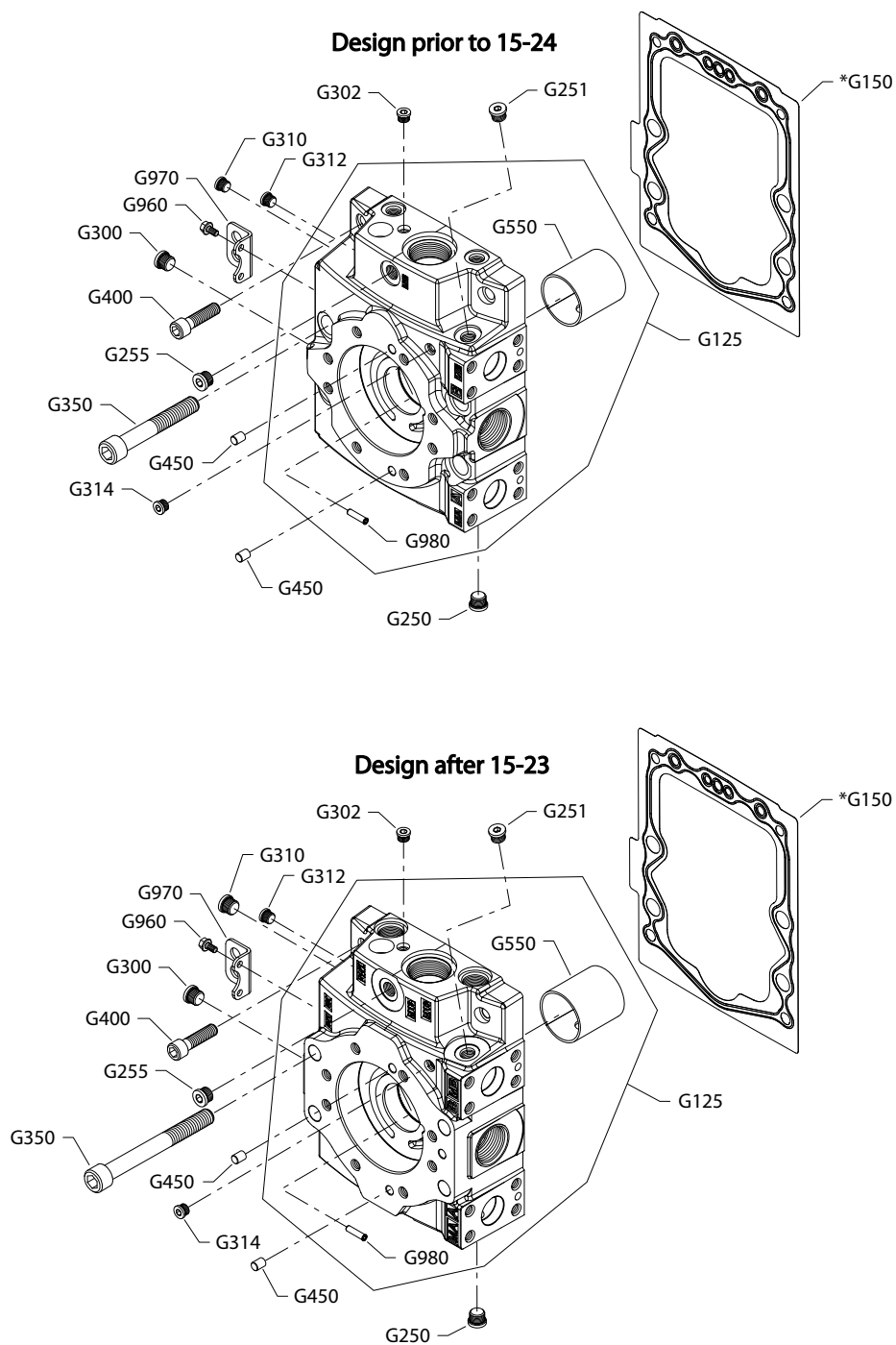
Order code: D8

| Item | Date Begin | Date End | Part Number  | Part Name                      | Qty. per Model/Kit |
|------|------------|----------|--------------|--------------------------------|--------------------|
| G125 | 14-40      |          | 11003669     | End cap assembly, CW           | 1                  |
| G125 | 14-40      |          | 11003647     | End cap assembly, CCW          | 1                  |
| G125 | 16-09      |          | 11174364     | End cap assembly, CCW (metric) | 1                  |
| G150 | 08-10      |          | 11001894     | End cap gasket                 | 1                  |
| G250 | 08-10      |          | 140644       | Plug assembly                  | 1                  |
| G250 | 16-09      |          | 11178808     | Plug assembly, M14 (metric)    | 1                  |
| G251 | 08-10      |          | 140644       | Plug assembly                  | 1                  |
| G251 | 16-09      |          | 11178808     | Plug assembly, M14             | 1                  |
| G300 | 08-10      |          | 140644       | Plug assembly                  | 1                  |
| G300 | 16-09      |          | 11178808     | Plug assembly, M14 (metric)    | 1                  |
| G302 | 08-10      |          | 11040532     | Plug assembly                  | 1                  |
| G304 | 12-30      |          | 11040532     | Plug assembly                  | 1                  |
| G310 | 14-40      |          | 140644       | Plug assembly                  | 1                  |
| G310 | 16-09      |          | 11178808     | Plug assembly, M14 (metric)    | 1                  |
| G310 | 08-10      | 14-39    | 11040532     | Plug assembly                  | 1                  |
| G350 | 14-40      |          | 5000676      | Screw, M16 x 130               | 4                  |
| G350 | 08-10      | 14-39    | 519508       | Screw, M16 x 100               | 4                  |
| G400 | 08-10      |          | 147900       | Screw, M10 x 45                | 2                  |
| G450 | 08-10      |          | 9004800-3708 | Dowel pin                      | 2                  |
| G550 | 08-10      |          | 11070150     | Journal bearing                | 1                  |
| G960 | 08-10      |          | 508438       | Screw M6 x 12                  | 2                  |
| G970 | 08-10      |          | 4460311      | Lifting bracket                | 1                  |
| G980 | 08-10      |          | 11000229     | Lubrication orifice            | 1                  |

## End cap

### H1P 115/130cc end cap E8

Parts configuration



\* Included in overhaul seal kit Q210

## End cap

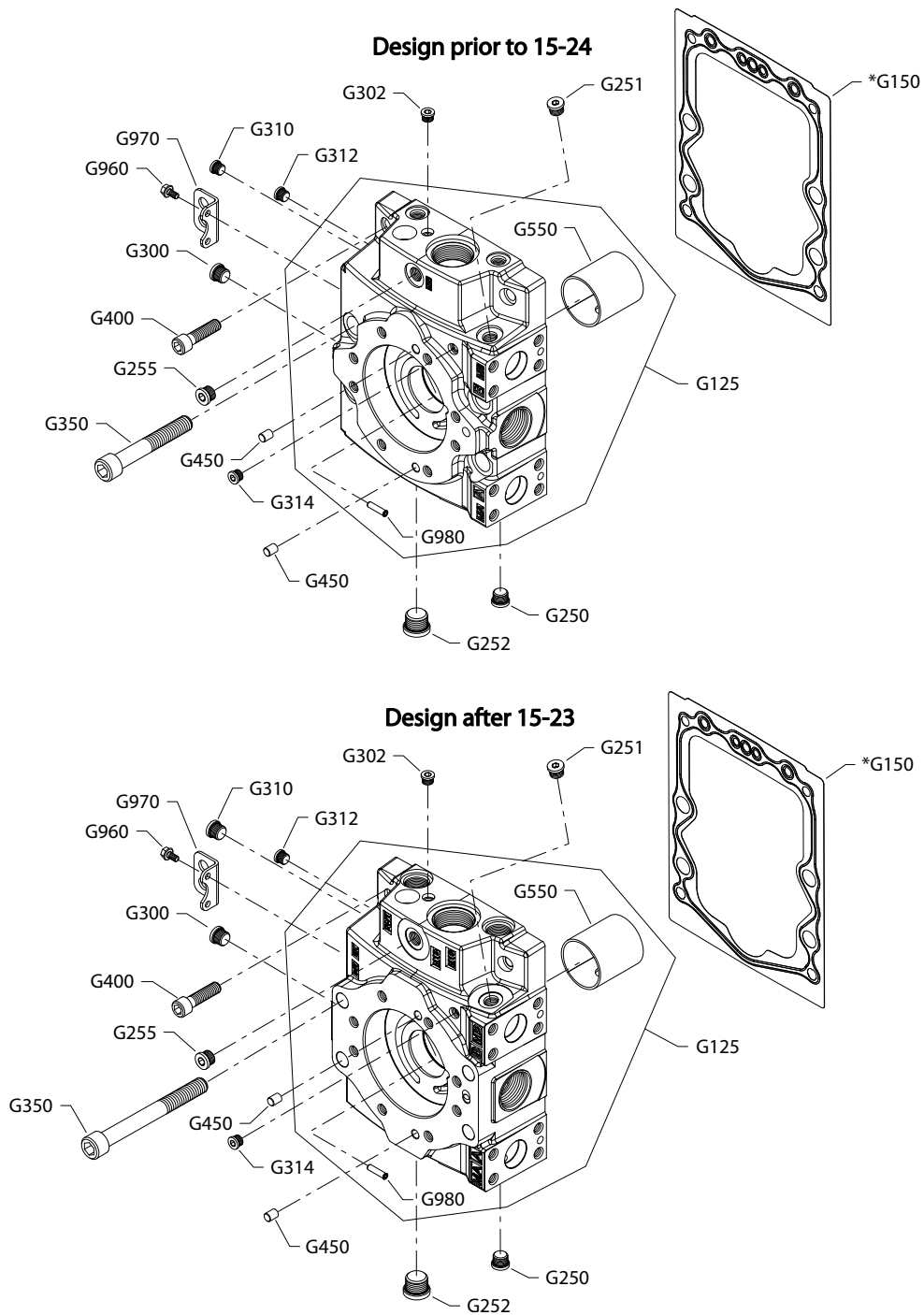
Order code: E8

| Item | Date Begin | Date End | Part Number  | Part Name             | Qty. per Model/Kit |
|------|------------|----------|--------------|-----------------------|--------------------|
| G125 | 15-24      |          | 11003671     | End cap assembly, CW  | 1                  |
| G125 | 15-24      |          | 11003649     | End cap assembly, CCW | 1                  |
| G150 | 08-10      |          | 11001894     | End cap gasket        | 1                  |
| G250 | 08-10      |          | 140644       | Plug assembly         | 1                  |
| G251 | 08-10      |          | 140644       | Plug assembly         | 1                  |
| G255 | 08-10      |          | 140644       | Plug assembly         | 1                  |
| G300 | 08-10      |          | 140644       | Plug assembly         | 1                  |
| G302 | 15-24      |          | 11040532     | Plug assembly         | 1                  |
| G310 | 15-24      |          | 140644       | Plug assembly         | 1                  |
| G310 | 08-10      | 15-23    | 11040532     | Plug assembly         | 1                  |
| G312 | 08-10      |          | 11040532     | Plug assembly         | 1                  |
| G314 | 08-10      |          | 11040532     | Plug assembly         | 1                  |
| G350 | 15-24      |          | 5000676      | Screw, M16 x 130      | 4                  |
| G350 | 08-10      | 15-23    | 519508       | Screw, M16 x 100      | 4                  |
| G400 | 08-10      |          | 147900       | Screw, M10 x 45       | 2                  |
| G450 | 08-10      |          | 9004800-3708 | Dowel pin             | 2                  |
| G550 | 08-10      |          | 11070150     | Journal bearing       | 1                  |
| G960 | 08-10      |          | 508438       | Screw                 | 2                  |
| G970 | 08-10      |          | 4460311      | Lifting bracket       | 1                  |
| G980 | 08-10      |          | 11000229     | Lubrication orifice   | 1                  |

## End cap

### H1P 115/130cc end cap G3

*Parts configuration*



\* Included in overhaul seal kit Q210

## End cap

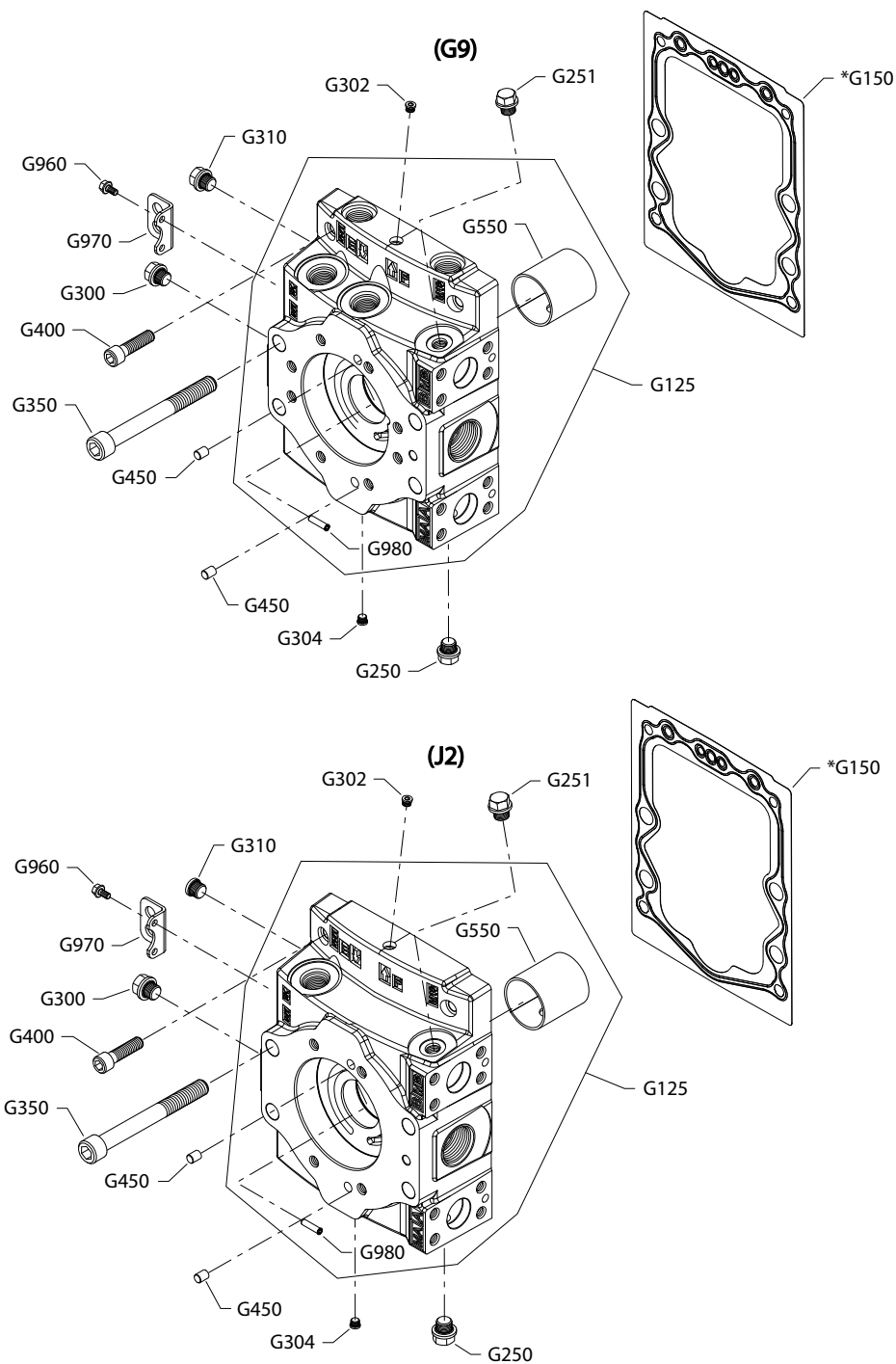
Order code: G3

| Item | Date Begin | Date End | Part Number           | Part Name            | Qty. per Model/Kit |
|------|------------|----------|-----------------------|----------------------|--------------------|
| G125 | 15-24      |          | 11089752              | End cap assembly, CW | 1                  |
| G150 | 10-40      |          | 11001894              | End cap gasket       | 1                  |
| G250 | 10-40      |          | 140644                | Plug assembly        | 1                  |
| G251 | 10-40      |          | 140644                | Plug assembly        | 1                  |
| G252 | 10-40      |          | 315325 (9005110-8700) | Plug assembly        | 1                  |
| G255 | 10-40      |          | 140644                | Plug assembly        | 1                  |
| G300 | 10-40      |          | 140644                | Plug assembly        | 1                  |
| G302 | 10-40      |          | 11040532              | Plug assembly        | 1                  |
| G310 | 15-24      |          | 140644                | Plug assembly        | 1                  |
| G310 | 10-40      | 15-23    | 11040532              | Plug assembly        | 1                  |
| G312 | 10-40      |          | 11040532              | Plug assembly        | 1                  |
| G314 | 10-40      |          | 11040532              | Plug assembly        | 1                  |
| G350 | 15-24      |          | 5000676               | Screw, M16 x 130     | 4                  |
| G350 | 10-40      | 15-23    | 519508                | Screw, M16 x 100     | 4                  |
| G400 | 10-40      |          | 147900                | Screw, M10 x 45      | 2                  |
| G450 | 10-40      |          | 9004800-3708          | Dowel pin            | 2                  |
| G550 | 10-40      |          | 11070150              | Journal bearing      | 1                  |
| G650 | 10-40      |          | 8800565               | Lifting bracket      | 1                  |
| G960 | 10-40      |          | 508438                | Screw                | 2                  |
| G970 | 10-40      |          | 4460311               | Lifting bracket      | 1                  |
| G980 | 10-40      |          | 11000229              | Lubrication orifice  | 1                  |

## End cap

### H1P 115/130cc end cap G9, J2

Parts configuration



\* Included in overhaul seal kit Q210

## End cap

Order code: G9

| Item | Date Begin | Date End | Part Number  | Part Name              | Qty. per Model/Kit |
|------|------------|----------|--------------|------------------------|--------------------|
| G125 | 15-12      |          | 11003669     | End cap assembly, CW   | 1                  |
| G150 | 15-12      |          | 11001894     | End cap gasket         | 1                  |
| G250 | 15-12      |          | 11147119     | Plug assembly, special | 1                  |
| G251 | 15-12      |          | 11147119     | Plug assembly, special | 1                  |
| G300 | 15-12      |          | 11147119     | Plug assembly, special | 1                  |
| G302 | 15-12      |          | 11040532     | Plug assembly          | 1                  |
| G304 | 15-12      |          | 11040532     | Plug assembly          | 1                  |
| G310 | 15-12      |          | 11147119     | Plug assembly, special | 1                  |
| G350 | 15-12      |          | 5000676      | Screw, M16 x 130       | 4                  |
| G400 | 15-12      |          | 147900       | Screw, M10 x 45        | 2                  |
| G450 | 15-12      |          | 9004800-3708 | Dowel pin              | 2                  |
| G550 | 15-12      |          | 11070150     | Journal bearing        | 1                  |
| G650 | 15-12      |          | 8800565      | Lifting bracket        | 1                  |
| G960 | 15-12      |          | 508438       | Screw                  | 2                  |
| G970 | 15-12      |          | 4460311      | Lifting bracket        | 1                  |
| G980 | 15-12      |          | 11000229     | Lubrication orifice    | 1                  |

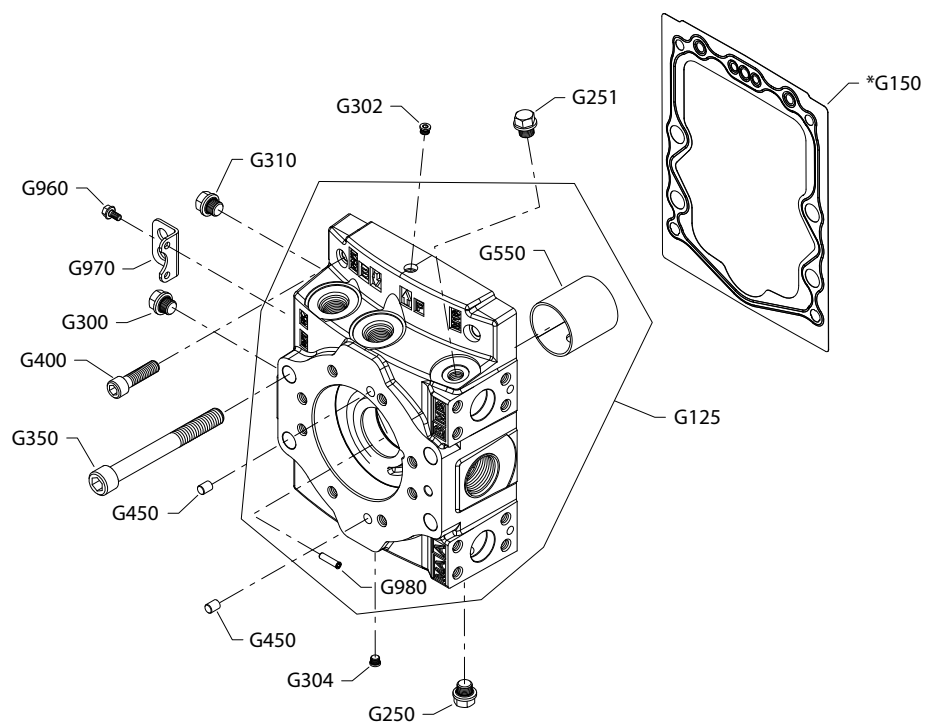
Order code: J2

|      |       |  |              |                        |   |
|------|-------|--|--------------|------------------------|---|
| G125 | 14-12 |  | 11130755     | End cap assembly, CW   | 1 |
| G150 | 14-12 |  | 11001894     | End cap gasket         | 1 |
| G250 | 14-12 |  | 11147119     | Plug assembly, special | 1 |
| G251 | 14-12 |  | 11147119     | Plug assembly, special | 1 |
| G300 | 14-12 |  | 11147119     | Plug assembly, special | 1 |
| G302 | 14-12 |  | 11040532     | Plug assembly          | 1 |
| G304 | 14-12 |  | 11040532     | Plug assembly          | 1 |
| G310 | 14-12 |  | 140644       | Plug assembly          | 1 |
| G350 | 14-12 |  | 5000676      | Screw, M16 x 130       | 4 |
| G400 | 14-12 |  | 147900       | Screw, M10 x 45        | 2 |
| G450 | 14-12 |  | 9004800-3708 | Dowel pin              | 2 |
| G550 | 14-12 |  | 11070150     | Journal bearing        | 1 |
| G650 | 14-12 |  | 8800565      | Lifting bracket        | 1 |
| G960 | 14-12 |  | 508438       | Screw, M6 x 12         | 2 |
| G961 | 14-12 |  | 508438       | Screw, M6 x 12         | 2 |
| G970 | 14-12 |  | 4460311      | Lifting bracket        | 1 |
| G971 | 14-12 |  | 4800754      | Lifting bracket        | 2 |
| G980 | 14-12 |  | 11000229     | Lubrication orifice    | 1 |

## End cap

### H1P 115/130cc end cap J3

*Parts configuration*



\* Included in overhaul seal kit Q210

## End cap

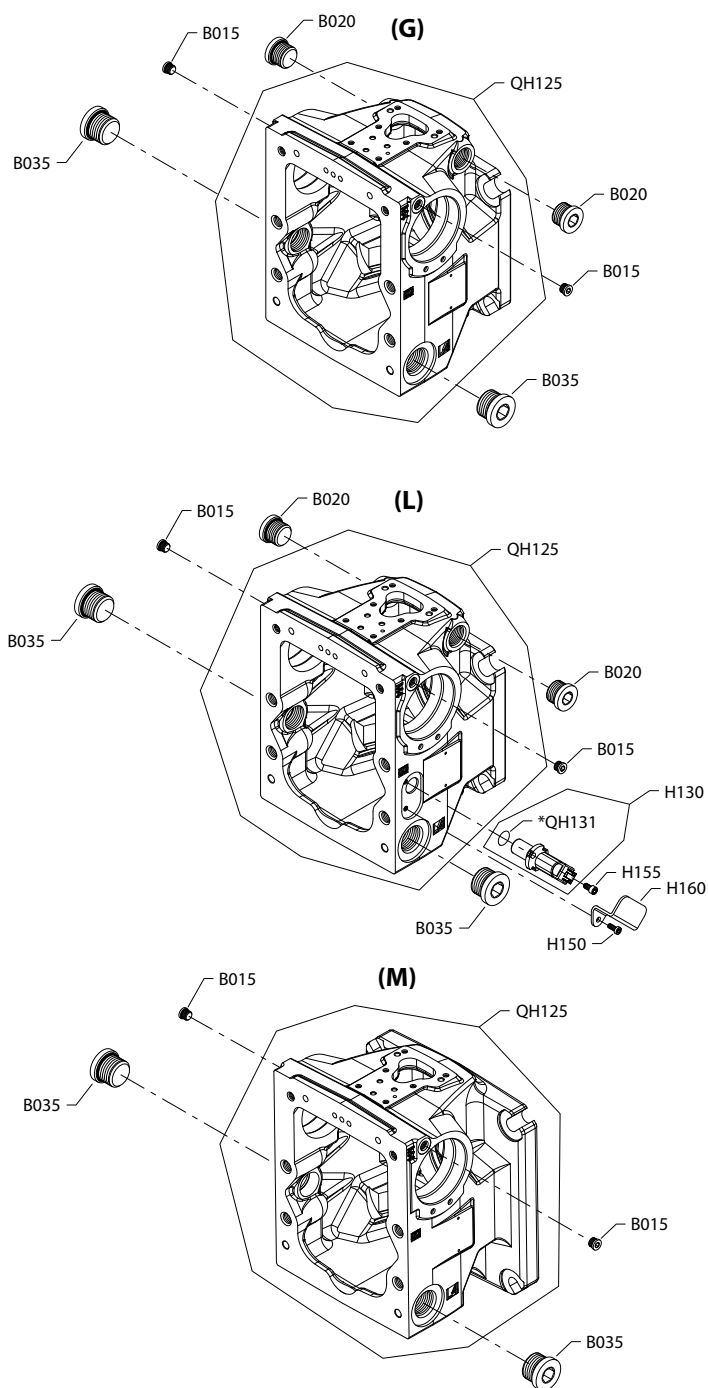
Order code: J3

| Item | Date Begin | Date End | Part Number  | Part Name              | Qty. per Model/Kit |
|------|------------|----------|--------------|------------------------|--------------------|
| G125 | 15-23      |          | 11166551     | End cap assembly, CW   | 1                  |
| G150 | 15-23      |          | 11001894     | End cap gasket         | 1                  |
| G250 | 15-23      |          | 11147119     | Plug assembly, special | 1                  |
| G251 | 15-23      |          | 11147119     | Plug assembly, special | 1                  |
| G300 | 15-23      |          | 11147119     | Plug assembly, special | 1                  |
| G302 | 15-23      |          | 11040532     | Plug assembly          | 1                  |
| G304 | 15-23      |          | 11040532     | Plug assembly          | 1                  |
| G310 | 15-23      |          | 11147119     | Plug assembly, special | 1                  |
| G350 | 15-23      |          | 5000676      | Screw, M16 x 130       | 4                  |
| G400 | 15-23      |          | 147900       | Screw, M10 x 45        | 2                  |
| G450 | 15-23      |          | 9004800-3708 | Dowel pin              | 2                  |
| G550 | 15-23      |          | 11070150     | Journal bearing        | 1                  |
| G960 | 15-23      |          | 508438       | Screw                  | 2                  |
| G970 | 15-23      |          | 4460311      | Lifting bracket        | 1                  |
| G980 | 15-23      |          | 11000229     | Lubrication orifice    | 1                  |

## Housing

### H1P 115/130cc housing G, L, M

Parts configuration



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

\* Included in overhaul seal kit Q210

## Housing

Order code: G

| Item  | Date Begin | Date End | Part Number           | Part Name                                                   | Qty. per Model/Kit |
|-------|------------|----------|-----------------------|-------------------------------------------------------------|--------------------|
| B015  | 08-10      |          | 9005110-4400          | Plug assembly                                               | 2                  |
| B015  | 16-09      |          | 5000572               | Plug assembly, M12 (metric)                                 | 2                  |
| B020  | 08-10      |          | 664524 (9005110-9000) | Plug assembly                                               | 2                  |
| B020  | 16-09      |          | 11178807              | Plug assembly, M27 (metric)                                 | 2                  |
| B035  | 08-10      |          | 320002 (9005110-9200) | Plug assembly                                               | 2                  |
| B035  | 16-09      |          | 11164204              | Plug assembly, M33 (metric)                                 | 2                  |
| QH125 | 08-10      |          | 11005070              | Housing assembly ( <a href="#">SB-2009-068</a> on page 187) | 1                  |
| QH125 | 16-09      |          | 11173134              | Housing assembly (metric)                                   | 1                  |

Order code: L

|       |       |  |                       |                                                             |   |
|-------|-------|--|-----------------------|-------------------------------------------------------------|---|
| B015  | 08-10 |  | 9005110-4400          | Plug assembly                                               | 2 |
| B020  | 08-10 |  | 664524 (9005110-9000) | Plug assembly                                               | 2 |
| B035  | 08-10 |  | 320002 (9005110-9200) | Plug assembly                                               | 2 |
| H130  | 08-10 |  | 149055                | Speed sensor assembly                                       | 1 |
| H150  | 08-10 |  | 508438                | Screw, M6 x 12                                              | 1 |
| H155  | 08-10 |  | 376749                | Screw, M6 x 12                                              | 1 |
| H160  | 08-10 |  | 11186383              | Speed sensor protector                                      | 1 |
| QH125 | 08-10 |  | 11030118              | Housing assembly ( <a href="#">SB-2009-068</a> on page 187) | 1 |
| QH131 | 08-10 |  | 11013397              | O-ring                                                      | 1 |

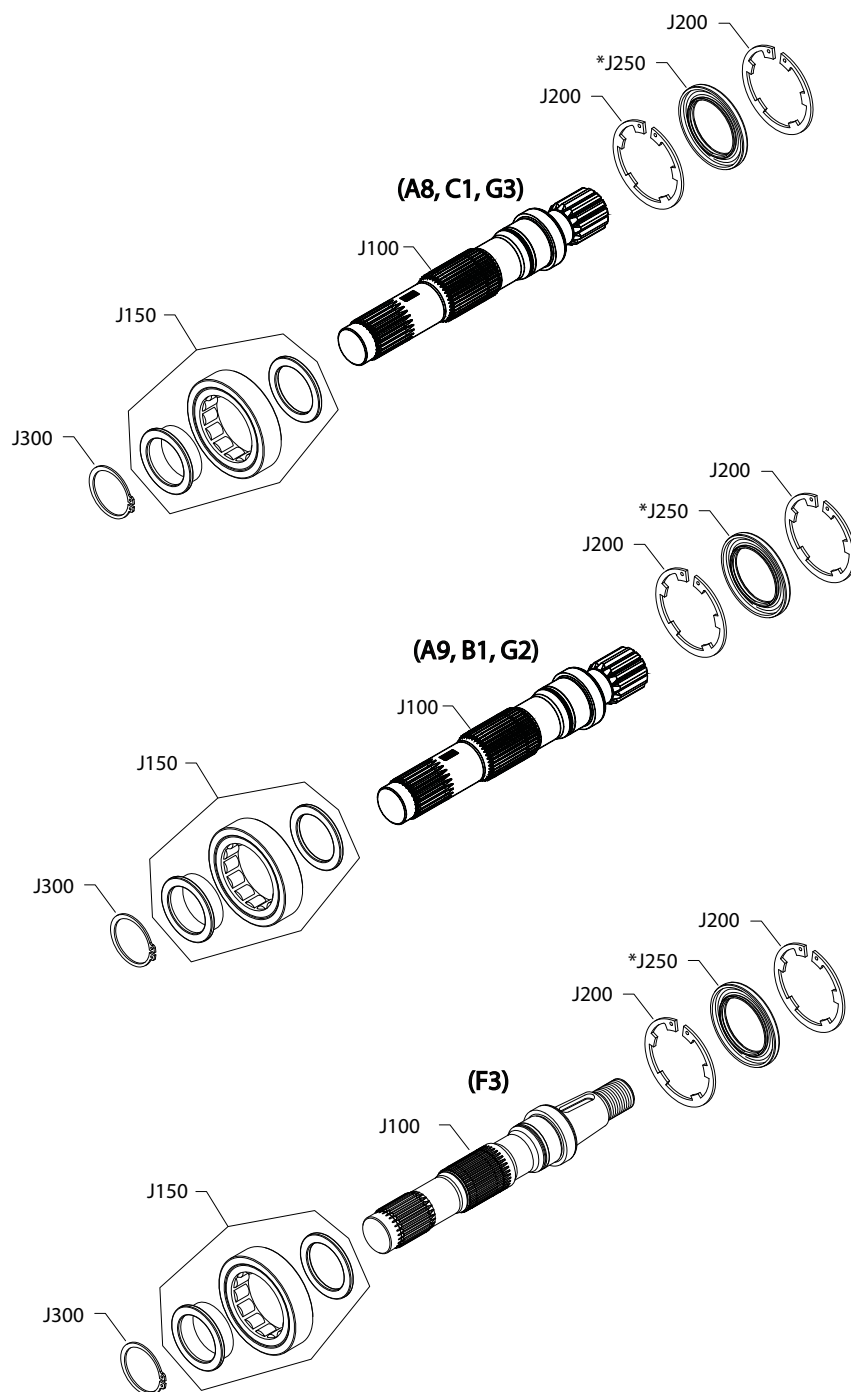
Order code: M

|       |       |  |                       |                  |   |
|-------|-------|--|-----------------------|------------------|---|
| B015  | 13-13 |  | 9005110-4400          | Plug assembly    | 2 |
| B035  | 13-13 |  | 320002 (9005110-9200) | Plug assembly    | 2 |
| QH125 | 13-13 |  | 11130855              | Housing assembly | 1 |

## Shaft

### H1P 115/130cc shaft A8-G2

Parts configuration



\* Included in overhaul seal kit Q210

## Shaft

Order code: A8

| Item | Date Begin | Date End | Part Number | Part Name                                                         | Qty. per Model/Kit |
|------|------------|----------|-------------|-------------------------------------------------------------------|--------------------|
| J100 | 17-45      |          | 11176728    | Shaft, 13 tooth spline ( <a href="#">SB-2018-006</a> on page 204) | 1                  |
| J150 | 08-10      |          | 11045851    | Roller bearing                                                    | 1                  |
| J200 | 08-10      |          | 140063      | Retaining ring                                                    | 2                  |
| J250 | 08-10      |          | 11066133    | Lip seal                                                          | 1                  |
| J300 | 08-10      |          | 392209      | Retaining ring                                                    | 1                  |

Order code: A9

|      |       |  |          |                                                                   |   |
|------|-------|--|----------|-------------------------------------------------------------------|---|
| J100 | 17-45 |  | 11179438 | Shaft, 27 tooth spline ( <a href="#">SB-2018-006</a> on page 204) | 1 |
| J150 | 08-10 |  | 11045851 | Roller bearing                                                    | 1 |
| J200 | 08-10 |  | 140063   | Retaining ring                                                    | 2 |
| J250 | 08-10 |  | 11066133 | Lip seal                                                          | 1 |
| J300 | 08-10 |  | 392209   | Retaining ring                                                    | 1 |

Order code: B1

|      |       |  |          |                                                                   |   |
|------|-------|--|----------|-------------------------------------------------------------------|---|
| J100 | 17-45 |  | 11179439 | Shaft, 18 tooth spline ( <a href="#">SB-2018-006</a> on page 204) | 1 |
| J150 | 08-10 |  | 11045851 | Roller bearing                                                    | 1 |
| J200 | 08-10 |  | 140063   | Retaining ring                                                    | 2 |
| J250 | 08-10 |  | 11024711 | Lip seal                                                          | 1 |
| J300 | 08-10 |  | 392209   | Retaining ring                                                    | 1 |

Order code: C1

|      |       |  |          |                        |   |
|------|-------|--|----------|------------------------|---|
| J100 | 18-12 |  | 11179439 | Shaft, 18 tooth spline | 1 |
| J150 | 18-12 |  | 11045851 | Roller bearing         | 1 |
| J200 | 18-12 |  | 140063   | Retaining ring         | 2 |
| J250 | 18-12 |  | 11024711 | Lip seal               | 1 |
| J300 | 18-12 |  | 392209   | Retaining ring         | 1 |

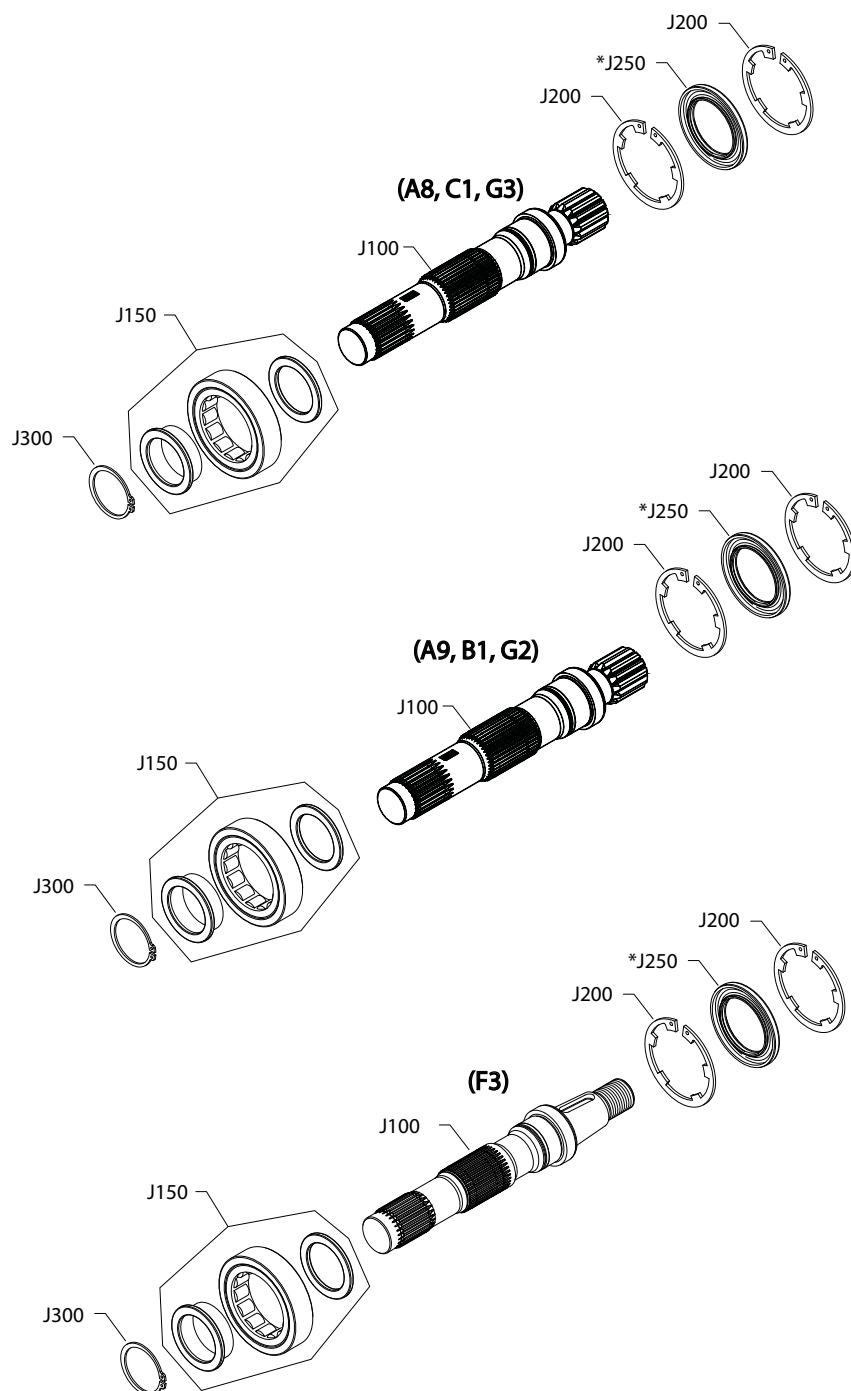
Order code: F3

|      |       |  |          |                                                                                                       |   |
|------|-------|--|----------|-------------------------------------------------------------------------------------------------------|---|
| J100 | 17-45 |  | 11179440 | Shaft, tapered ( <a href="#">SB-2012-026</a> on page 194 and <a href="#">SB-2018-006</a> on page 204) | 1 |
| J150 | 08-10 |  | 11045851 | Roller bearing                                                                                        | 1 |
| J200 | 08-10 |  | 140063   | Retaining ring                                                                                        | 2 |
| J250 | 08-10 |  | 11024711 | Lip seal                                                                                              | 1 |
| J300 | 08-10 |  | 392209   | Retaining ring                                                                                        | 1 |

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

## Shaft

### Parts configuration



\* Included in overhaul seal kit Q210

## Shaft

Order code: G2

| Item | Date Begin | Date End | Part Number | Part Name                                                                                                     | Qty. per Model/Kit |
|------|------------|----------|-------------|---------------------------------------------------------------------------------------------------------------|--------------------|
| J100 | 17-45      |          | 11179438    | Shaft, 27 tooth spline ( <a href="#">SB-2012-026</a> on page 194 and <a href="#">SB-2018-006</a> on page 204) | 1                  |
| J150 | 08-10      |          | 11045851    | Roller bearing                                                                                                | 1                  |
| J200 | 08-10      |          | 140063      | Retaining ring                                                                                                | 2                  |
| J250 | 08-10      |          | 11024711    | Lip seal                                                                                                      | 1                  |
| J300 | 08-10      |          | 392209      | Retaining ring                                                                                                | 1                  |

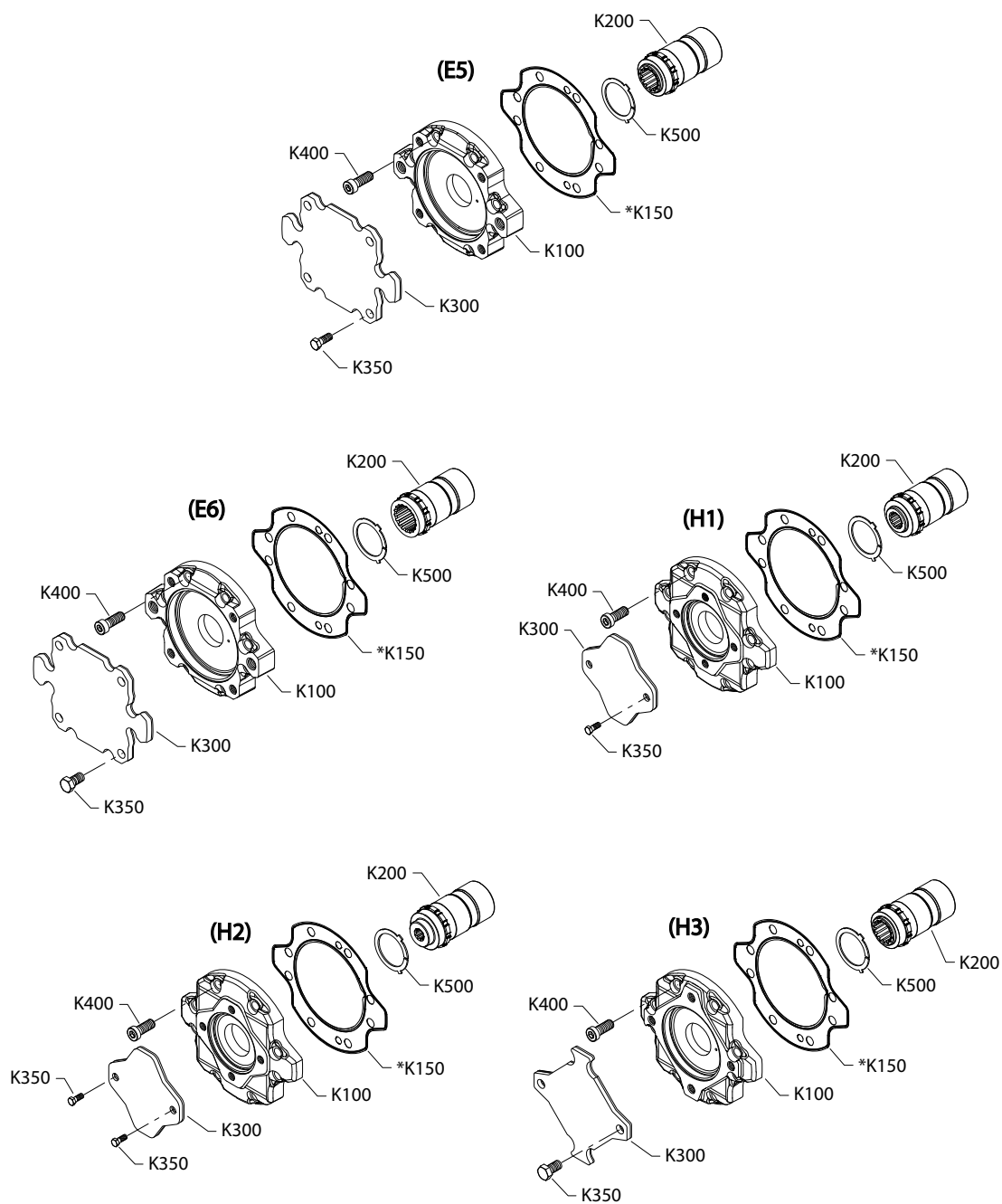
Order code: G3

|      |       |  |          |                                                                                                               |   |
|------|-------|--|----------|---------------------------------------------------------------------------------------------------------------|---|
| J100 | 17-45 |  | 11176728 | Shaft, 13 tooth spline ( <a href="#">SB-2012-026</a> on page 194 and <a href="#">SB-2018-006</a> on page 204) | 1 |
| J150 | 08-10 |  | 11045851 | Roller bearing                                                                                                | 1 |
| J200 | 08-10 |  | 140063   | Retaining ring                                                                                                | 2 |
| J250 | 08-10 |  | 11024711 | Lip seal                                                                                                      | 1 |
| J300 | 08-10 |  | 392209   | Retaining ring                                                                                                | 1 |

## Auxiliary mounting

### H1P 115/130cc aux mounting E5-H3

#### Parts configuration



\* Included in overhaul seal kit Q210

## Auxiliary mounting

Order code: E5

|      |       |  |          |                                                                  |   |
|------|-------|--|----------|------------------------------------------------------------------|---|
| K100 | 13-39 |  | 11138744 | Adapter flange, SAE C ( <a href="#">SB-2018-036</a> on page 208) | 1 |
| K150 | 13-39 |  | 11002236 | Adapter seal                                                     | 1 |
| K200 | 13-39 |  | 11190719 | Charge pump shaft                                                | 1 |
| K300 | 13-39 |  | 11165485 | Flange cover                                                     | 1 |
| K350 | 13-39 |  | 509528   | Screw, M12 x 20                                                  | 4 |
| K400 | 13-39 |  | 140700   | Screw, M12 x 30 ( <a href="#">SB-2018-036</a> on page 208)       | 8 |
| K500 | 13-39 |  | 11001182 | Thrust washer                                                    | 1 |

Order code: E6

|      |       |  |          |                                                                  |   |
|------|-------|--|----------|------------------------------------------------------------------|---|
| K100 | 13-39 |  | 11138744 | Adapter flange, SAE C ( <a href="#">SB-2018-036</a> on page 208) | 1 |
| K150 | 13-39 |  | 11002236 | Adapter seal                                                     | 1 |
| K200 | 13-39 |  | 11129807 | Charge pump shaft                                                | 1 |
| K300 | 13-39 |  | 11165485 | Flange cover                                                     | 1 |
| K350 | 13-39 |  | 509528   | Screw, M12 x 20                                                  | 2 |
| K400 | 13-39 |  | 140700   | Screw, M12 x 30 ( <a href="#">SB-2018-036</a> on page 208)       | 8 |
| K500 | 13-39 |  | 11001182 | Thrust washer                                                    | 1 |

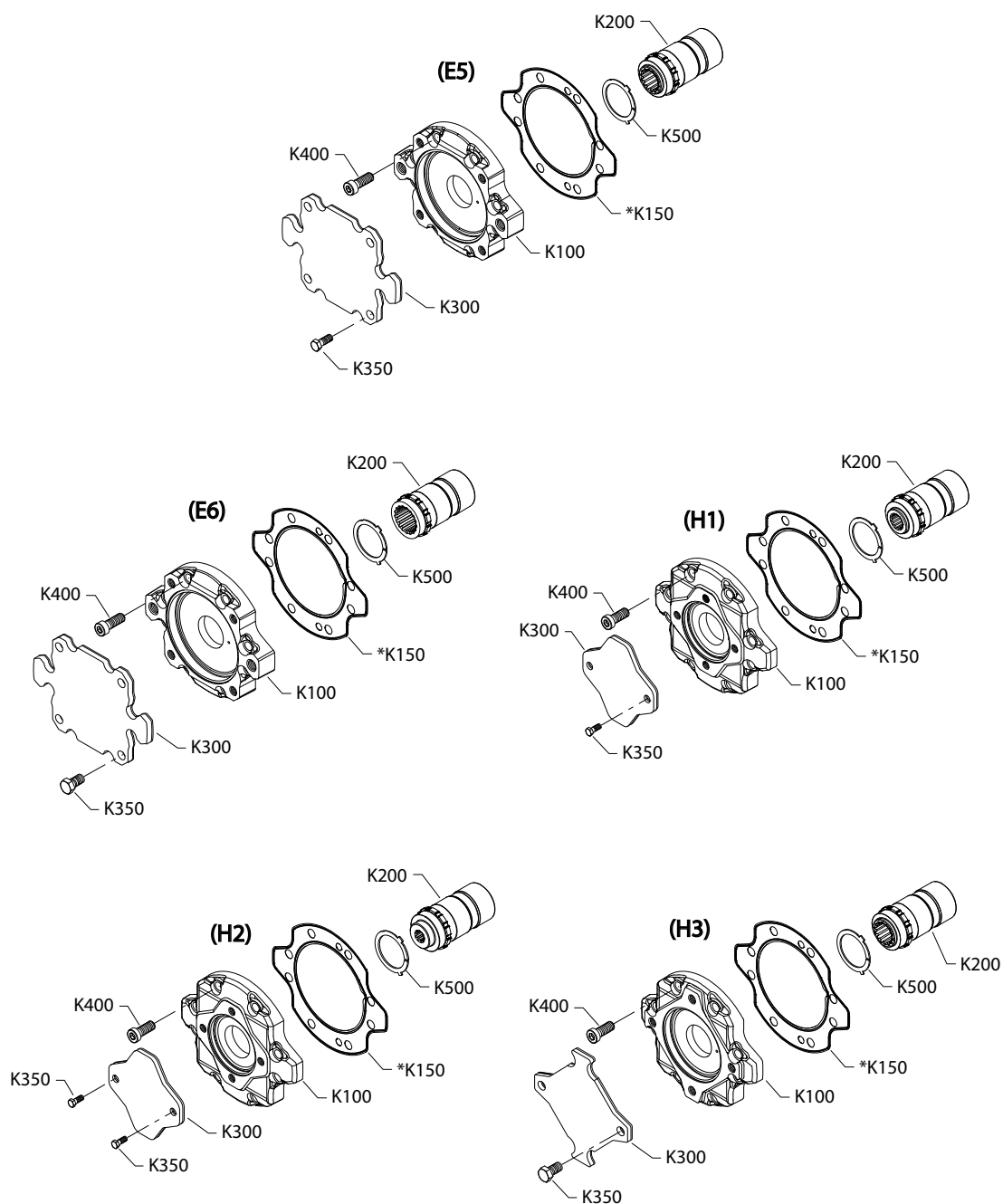
Order code: H1

|      |       |       |          |                                                                        |   |
|------|-------|-------|----------|------------------------------------------------------------------------|---|
| K100 | 08-10 |       | 11002191 | Adapter flange, SAE A                                                  | 1 |
| K150 | 08-10 |       | 11002236 | Adapter seal                                                           | 1 |
| K200 | 10-36 |       | 11064258 | Charge pump shaft, 11 tooth                                            | 1 |
| K200 | 08-10 | 10-35 | 11002333 | Charge pump shaft, 11 tooth ( <a href="#">SB-2011-022</a> on page 191) | 1 |
| K300 | 08-10 |       | 11165482 | Flange cover                                                           | 1 |
| K350 | 08-10 |       | 370247   | Screw, M10 x 20                                                        | 2 |
| K400 | 08-10 |       | 140700   | Screw, M12 x 30 ( <a href="#">SB-2018-036</a> on page 208)             | 8 |
| K500 | 08-10 |       | 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: H2

| Item | Date Begin | Date End | Part Number | Part Name                                                             | Qty. per Model/Kit |
|------|------------|----------|-------------|-----------------------------------------------------------------------|--------------------|
| K100 | 08-10      |          | 11002191    | Adapter flange, SAE A                                                 | 1                  |
| K150 | 08-10      |          | 11002236    | Adapter seal                                                          | 1                  |
| K200 | 10-36      |          | 11192283    | Charge pump shaft, 9 tooth                                            | 1                  |
| K200 | 08-10      | 10-35    | 11002231    | Charge pump shaft, 9 tooth ( <a href="#">SB-2011-022</a> on page 191) | 1                  |
| K300 | 08-10      |          | 11165482    | Flange cover                                                          | 1                  |
| K350 | 08-10      |          | 370247      | Screw, M10 x 20                                                       | 2                  |
| K400 | 08-10      |          | 140700      | Screw, M12 x 30 ( <a href="#">SB-2018-036</a> on page 208)            | 8                  |
| K500 | 08-10      |          | 11001182    | Thrust washer                                                         | 1                  |

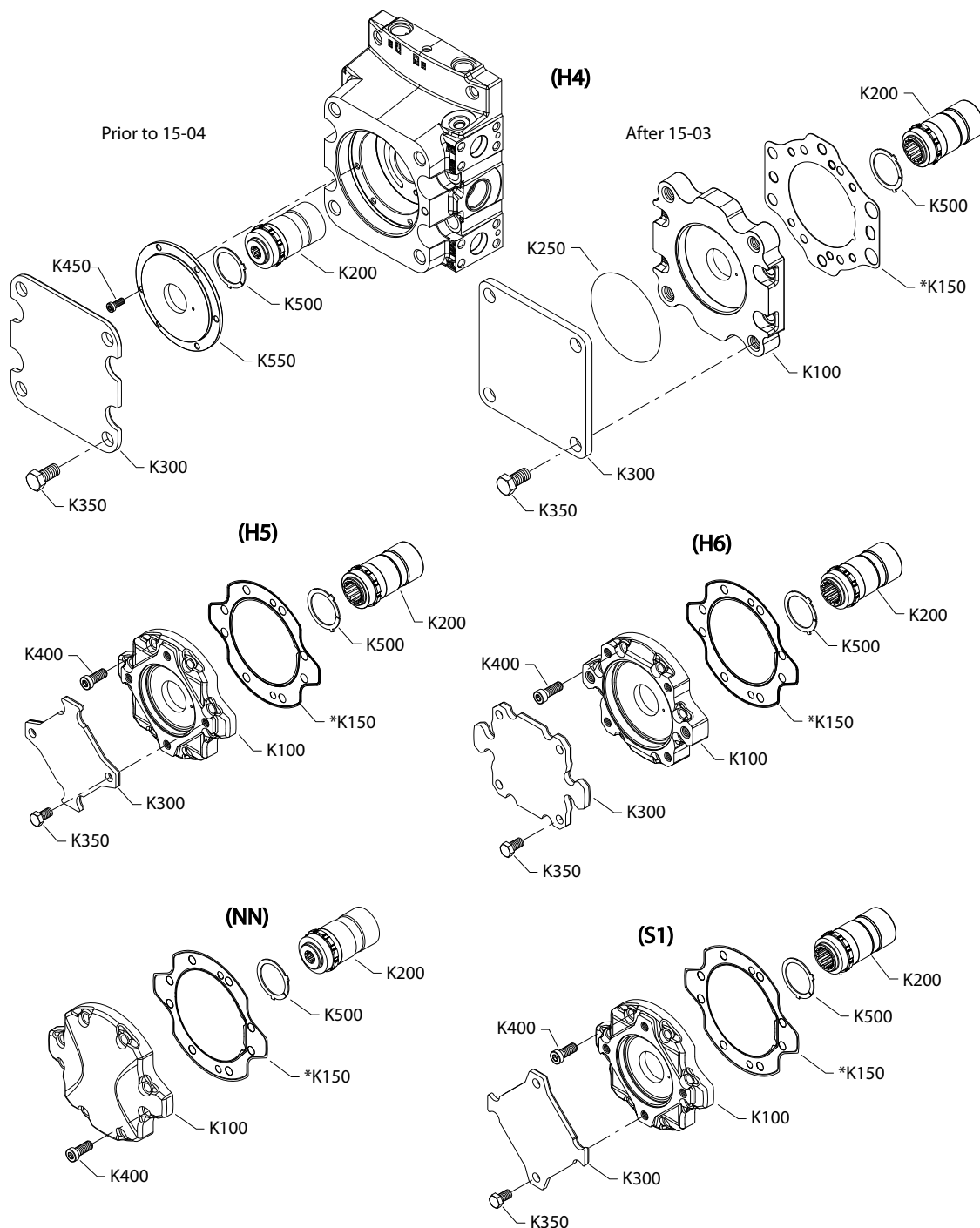
Order code: H3

|      |       |       |          |                                                                        |   |
|------|-------|-------|----------|------------------------------------------------------------------------|---|
| K100 | 08-10 |       | 11002192 | Adapter flange, SAE B                                                  | 1 |
| K150 | 08-10 |       | 11002236 | Adapter seal                                                           | 1 |
| K200 | 10-36 |       | 11192285 | Charge pump shaft, 13 tooth                                            | 1 |
| K200 | 08-10 | 10-35 | 11002232 | Charge pump shaft, 13 tooth ( <a href="#">SB-2011-022</a> on page 191) | 1 |
| K300 | 08-10 |       | 11023747 | Flange cover                                                           | 1 |
| K350 | 13-39 |       | 509528   | Screw, M12 x 20                                                        | 2 |
| K400 | 08-10 |       | 140700   | Screw, M12 x 30 ( <a href="#">SB-2018-036</a> on page 208)             | 8 |
| K500 | 08-10 |       | 11001182 | Thrust washer                                                          | 1 |

## Auxiliary mounting

### H1P 115/130cc aux mounting H4-S1

#### Parts configuration



\* Included in overhaul seal kit Q210

## Auxiliary mounting

Order code: H4

| Item | Date Begin | Date End | Part Number | Part Name                                                               | Qty. per Model/Kit |
|------|------------|----------|-------------|-------------------------------------------------------------------------|--------------------|
| K100 | 15-04      |          | 11109108    | Adapter ( <a href="#">SB-2016-005</a> on page 201)                      | 1                  |
| K150 | 15-04      |          | 11125012    | Adapter seal ( <a href="#">SB-2016-005</a> on page 201)                 | 1                  |
| K200 | 10-36      |          | 11190719    | Charge pump shaft, 13 tooth                                             | 1                  |
| K200 | 08-10      | 10-35    | 11002234    | Charge pump shaft, 13 tooth, ( <a href="#">SB-2011-022</a> on page 191) | 1                  |
| K250 | 15-04      |          | 726927      | O-ring ( <a href="#">SB-2016-005</a> on page 201)                       | 1                  |
| K300 | 15-04      |          | 338400      | Flange cover ( <a href="#">SB-2016-005</a> on page 201)                 | 1                  |
| K300 | 08-10      | 15-03    | 11023751    | Flange cover                                                            | 1                  |
| K350 | 08-10      |          | 11024165    | Screw, M20 x 30                                                         | 4                  |
| K450 | 08-10      | 15-03    | 11001141    | Screw ( <a href="#">SB-2016-005</a> on page 201)                        | 6                  |
| K500 | 08-10      |          | 11001182    | Thrust washer                                                           | 1                  |
| K550 | 08-10      | 15-03    | 11158373    | Charge pump cover ( <a href="#">SB-2016-005</a> on page 201)            | 1                  |

Order code: H5

|      |       |       |          |                                                                         |   |
|------|-------|-------|----------|-------------------------------------------------------------------------|---|
| K100 | 08-10 |       | 11002192 | Adapter flange, SAE B                                                   | 1 |
| K150 | 08-10 |       | 11002236 | Adapter seal                                                            | 1 |
| K200 | 10-36 |       | 11064275 | Charge pump shaft, 15 tooth                                             | 1 |
| K200 | 08-10 | 10-35 | 11002235 | Charge pump shaft, 15 tooth, ( <a href="#">SB-2011-022</a> on page 191) | 1 |
| K300 | 08-10 |       | 11023747 | Flange cover                                                            | 1 |
| K350 | 08-10 |       | 509528   | Screw                                                                   | 2 |
| K400 | 08-10 |       | 140700   | Screw, M12 x 30 ( <a href="#">SB-2018-036</a> on page 208)              | 8 |
| K500 | 08-10 |       | 11001182 | Thrust washer                                                           | 1 |

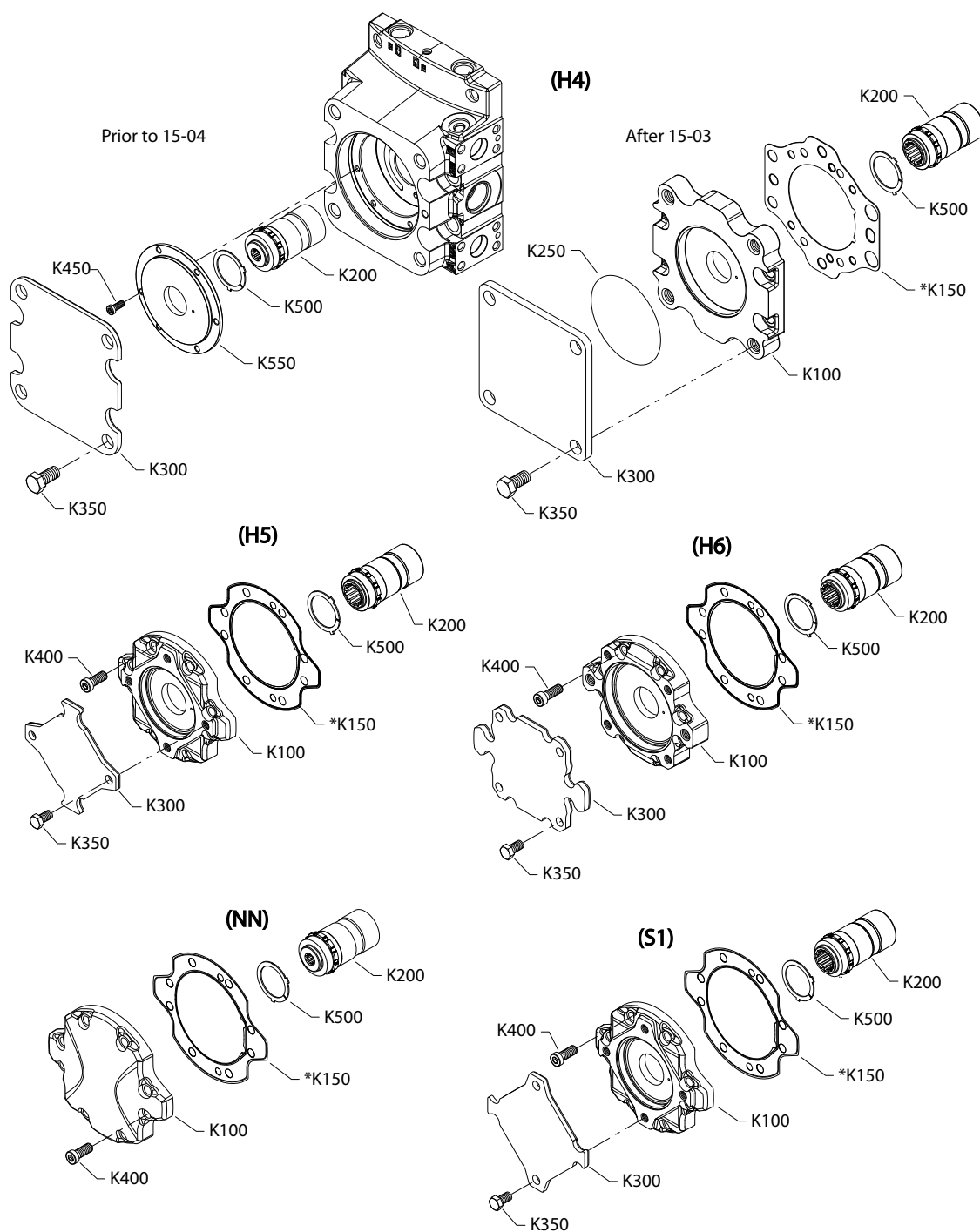
Order code: H6

|      |       |       |          |                                                                         |   |
|------|-------|-------|----------|-------------------------------------------------------------------------|---|
| K100 | 08-10 |       | 11138744 | Adapter flange, SAE C ( <a href="#">SB-2018-036</a> on page 208)        | 1 |
| K150 | 08-10 |       | 11002236 | Adapter seal                                                            | 1 |
| K200 | 10-36 |       | 11190740 | Charge pump shaft, 14 tooth                                             | 1 |
| K200 | 08-10 | 10-35 | 11002233 | Charge pump shaft, 14 tooth, ( <a href="#">SB-2011-022</a> on page 191) | 1 |
| K300 | 08-10 |       | 11165485 | Flange cover                                                            | 1 |
| K350 | 08-10 |       | 509528   | Screw                                                                   | 4 |
| K400 | 08-10 |       | 140700   | Screw, M12 x 30 ( <a href="#">SB-2018-036</a> on page 208)              | 8 |
| K500 | 08-10 |       | 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: NN

| Item | Date Begin | Date End | Part Number | Part Name                                                              | Qty. per Model/Kit |
|------|------------|----------|-------------|------------------------------------------------------------------------|--------------------|
| K100 | 08-10      |          | 11002194    | Adapter flange, no pad                                                 | 1                  |
| K150 | 08-10      |          | 11002236    | Adapter seal                                                           | 1                  |
| K200 | 10-36      |          | 11192283    | Charge pump shaft, 9 tooth                                             | 1                  |
| K200 | 08-10      | 10-35    | 11002231    | Charge pump shaft, 9 tooth, ( <a href="#">SB-2011-022</a> on page 191) | 1                  |
| K400 | 08-10      |          | 140700      | Screw, M12 x 30 ( <a href="#">SB-2018-036</a> on page 208)             | 8                  |
| K500 | 08-10      |          | 11001182    | Thrust washer                                                          | 1                  |

Order code: S1

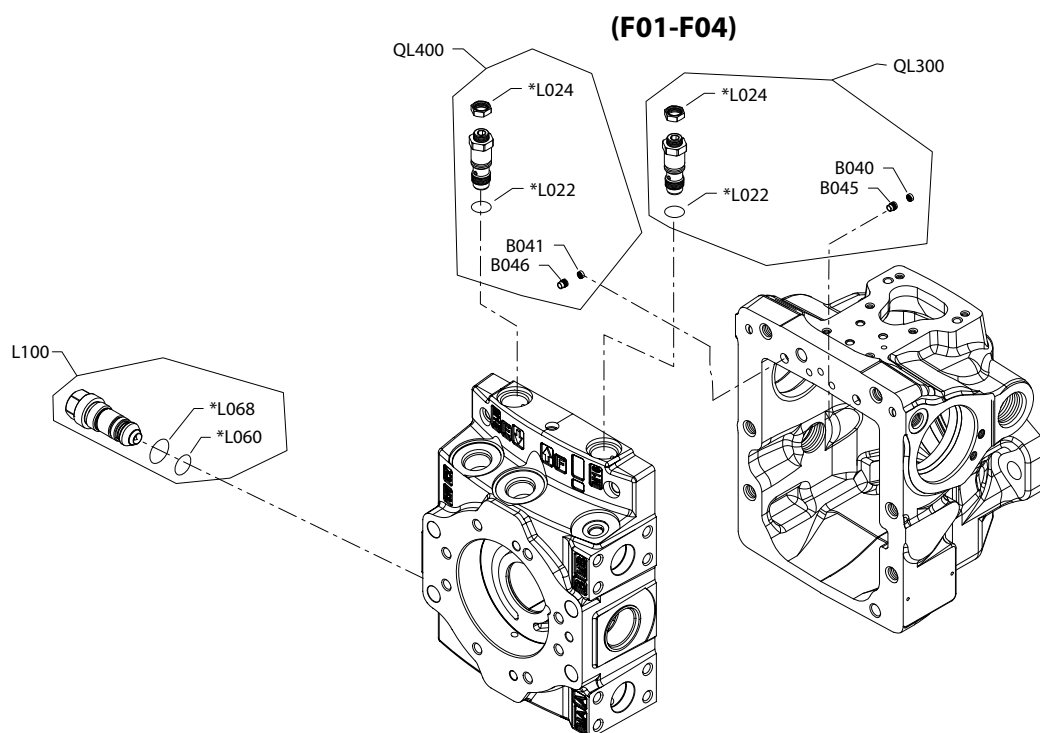
|      |       |       |          |                                                                         |   |
|------|-------|-------|----------|-------------------------------------------------------------------------|---|
| K100 | 08-10 |       | 11002192 | Adapter flange, SAE B                                                   | 1 |
| K150 | 08-10 |       | 11002236 | Adapter seal                                                            | 1 |
| K200 | 10-36 |       | 11190740 | Charge pump shaft, 14 tooth                                             | 1 |
| K200 | 08-10 | 10-35 | 11002233 | Charge pump shaft, 14 tooth, ( <a href="#">SB-2011-022</a> on page 191) | 1 |
| K300 | 08-10 |       | 11023747 | Flange cover                                                            | 1 |
| K350 | 08-10 |       | 509528   | Screw                                                                   | 2 |
| K400 | 08-10 |       | 140700   | Screw, M12 x 30 ( <a href="#">SB-2018-036</a> on page 208)              | 8 |
| K500 | 08-10 |       | 11001182 | Thrust washer                                                           | 1 |

## High pressure setting

### Port A

#### High pressure setting (port A) F01-F04

Parts configuration



\* Included in overhaul seal kit Q210

## High pressure setting

### Common parts

| Item  | Date Begin | Date End | Part Number | Part Name                                                  | Qty. per Model/Kit |
|-------|------------|----------|-------------|------------------------------------------------------------|--------------------|
| B040  | 20-40      |          | 140967      | Screen ( <a href="#">SB-2020-029</a> on page 208)          | 1                  |
| B041  | 20-40      |          | 140967      | Screen ( <a href="#">SB-2020-029</a> on page 208)          | 1                  |
| B045  | 20-40      |          | 11062684    | Screen retainer ( <a href="#">SB-2020-029</a> on page 208) | 1                  |
| B046  | 20-40      |          | 11062684    | Screen retainer ( <a href="#">SB-2020-029</a> on page 208) | 1                  |
| L022  | 08-10      |          | 504207      | O-ring                                                     | 1                  |
| L060  | 08-10      |          | 365023      | O-ring                                                     | 1                  |
| L068  | 08-10      |          | 11052201    | O-ring                                                     | 1                  |
| L024  | 13-14      |          | 336826      | Seal nut                                                   | 1                  |
| QL300 | 13-14      |          | 11004709    | Pressure limiter kit, adjustable, CCW rotation pump        | 1                  |
| QL400 | 13-14      |          | 11004709    | Pressure limiter kit, adjustable, CW rotation pump         | 1                  |

### Order code: F01

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L100 | 13-14 |  | 11049147 | High pressure relief valve, 250 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: F02

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L100 | 13-14 |  | 11049149 | High pressure relief valve, 300 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: F03

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L100 | 13-14 |  | 11049151 | High pressure relief valve, 350 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: F04

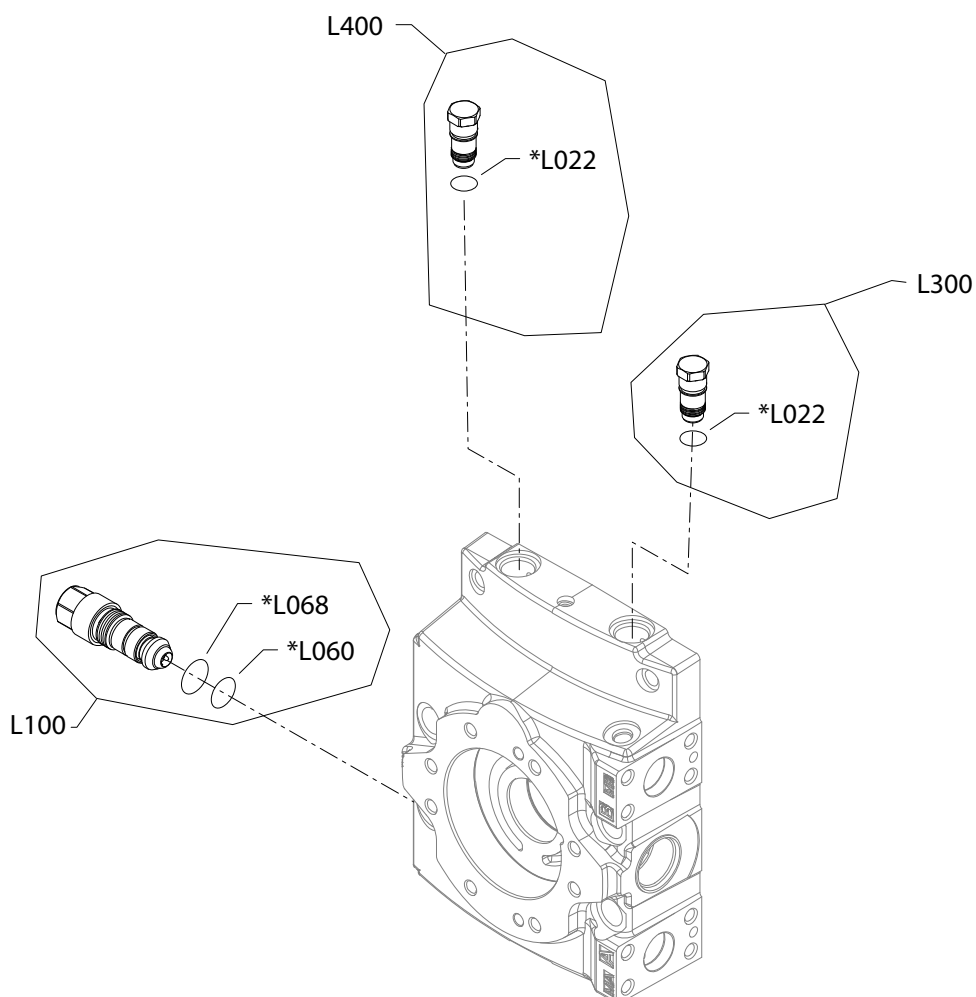
|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L100 | 13-14 |  | 11049153 | High pressure relief valve, 400 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

## High pressure setting

### High pressure setting (port A) K20-K45

Parts configuration

#### (K20-K45)



\* Included in overhaul seal kit Q210

## High pressure setting

### Common parts

| Item | Date Begin | Date End | Part Number | Part Name                                         | Qty. per Model/Kit |
|------|------------|----------|-------------|---------------------------------------------------|--------------------|
| L022 | 08-10      |          | 504207      | O-ring                                            | 1                  |
| L060 | 08-10      |          | 365023      | O-ring                                            | 1                  |
| L068 | 08-10      |          | 11052201    | O-ring                                            | 1                  |
| L300 | 08-10      |          | 11002302    | Pressure limiter plug assembly, CCW rotation pump | 1                  |
| L400 | 08-10      |          | 11002302    | Pressure limiter plug assembly, CW rotation pump  | 1                  |

### Order code: K20

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L100 | 08-10 |  | 11049144 | High pressure relief valve, 200 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: K23

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L100 | 08-10 |  | 11049146 | High pressure relief valve, 230 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: K25

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L100 | 08-10 |  | 11049147 | High pressure relief valve, 250 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: K28

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L100 | 08-10 |  | 11049148 | High pressure relief valve, 280 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: K30

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L100 | 08-10 |  | 11049149 | High pressure relief valve, 300 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: K33

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L100 | 08-10 |  | 11049150 | High pressure relief valve, 330 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: K35

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L100 | 08-10 |  | 11049151 | High pressure relief valve, 350 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: K38

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L100 | 08-10 |  | 11049152 | High pressure relief valve, 380 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: K40

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L100 | 08-10 |  | 11049153 | High pressure relief valve, 400 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: K42

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L100 | 08-10 |  | 11049154 | High pressure relief valve, 420 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: K45

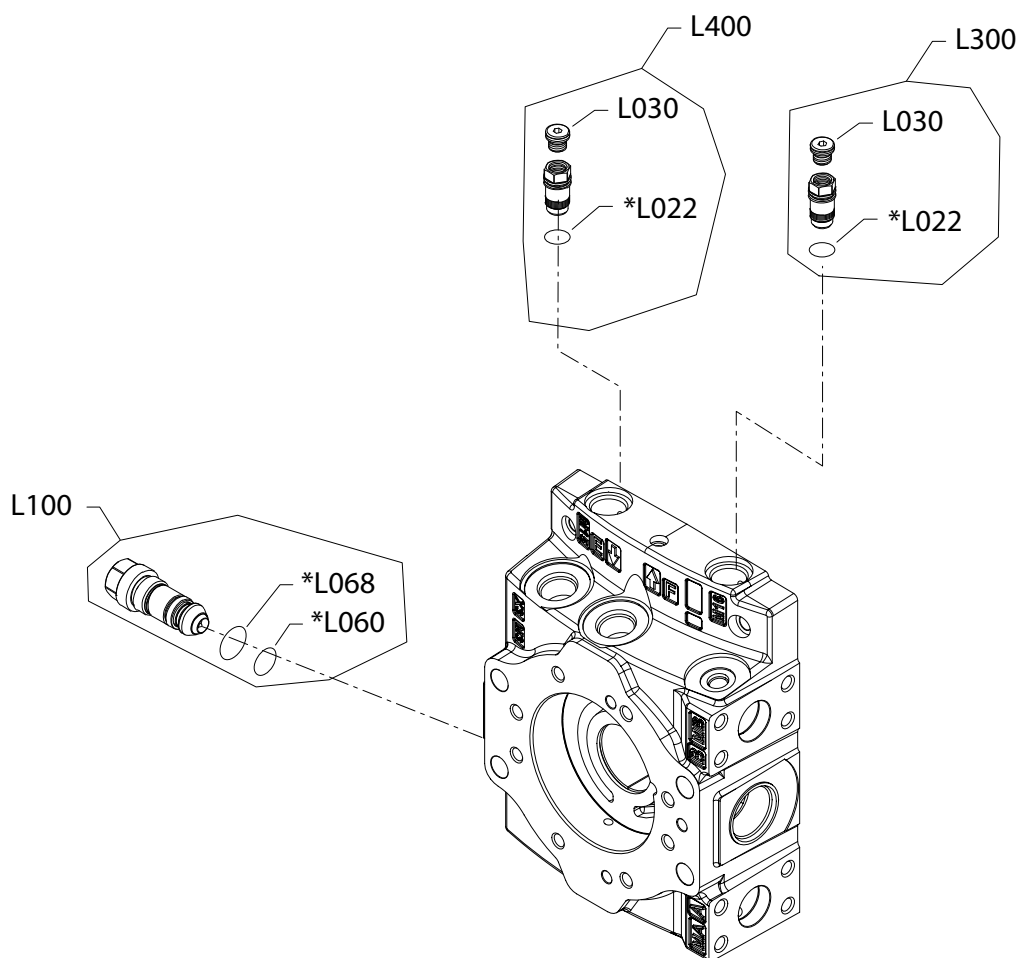
|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L100 | 08-10 |  | 11049155 | High pressure relief valve, 450 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

## High pressure setting

### H1P 115/130cc High pressure setting (port A) KDC\_KWY

Parts configuration

## (KDC-KWY)



Generic end caps shown.

\* Included in overhaul seal kit Q210

## High pressure setting

### Common parts

| Item | Date Begin | Date End | Part Number | Part Name                                           | Qty. per Model/Kit |
|------|------------|----------|-------------|-----------------------------------------------------|--------------------|
| L022 | 08-10      |          | 504207      | O-ring                                              | 1                  |
| L060 | 08-10      |          | 365023      | O-ring                                              | 1                  |
| L068 | 08-10      |          | 11052201    | O-ring                                              | 1                  |
| L030 | 08-10      |          | 513443      | Plug assembly                                       | 1                  |
| L300 | 08-10      |          | 11035112    | Pressure sensor adapter assembly, CCW rotation pump | 1                  |
| L400 | 08-10      |          | 11035112    | Pressure sensor adapter assembly, CW rotation pump  | 1                  |

### Order code: KDC

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L100 | 08-10 |  | 11069762 | High pressure relief valve, 430 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: KKY

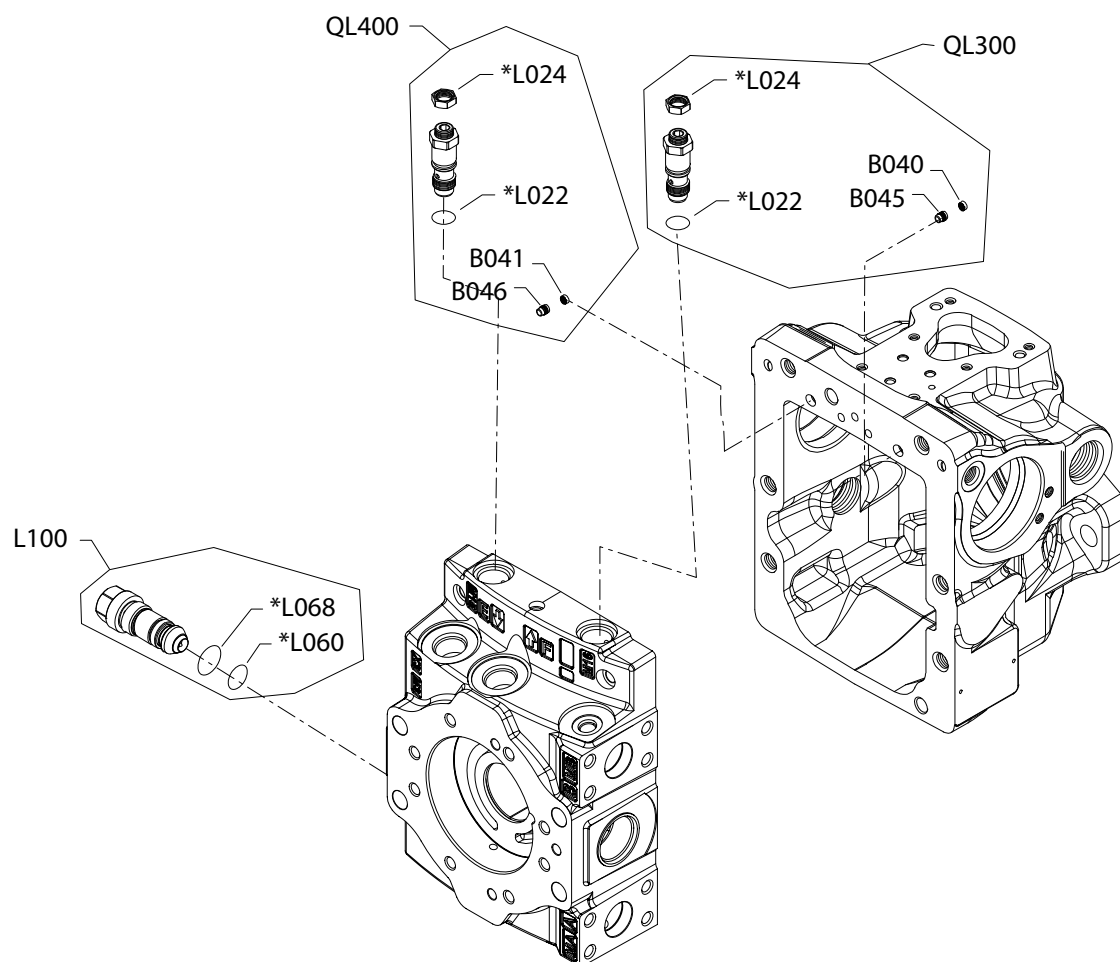
|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L100 | 08-10 |  | 11049155 | High pressure relief valve, 450 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

## High pressure setting

### H1P High pressure setting (port A) L15-L45, LED

Parts configuration

## (L15-L45, LED)



Generic end cap shown

\* Included in overhaul seal kit Q210

## High pressure setting

### Common parts

| Item  | Date Begin | Date End | Part Number | Part Name                                                  | Qty. per Model/Kit |
|-------|------------|----------|-------------|------------------------------------------------------------|--------------------|
| B040  | 20-40      |          | 140967      | Screen ( <a href="#">SB-2020-029</a> on page 208)          | 1                  |
| B041  | 20-40      |          | 140967      | Screen ( <a href="#">SB-2020-029</a> on page 208)          | 1                  |
| B045  | 20-40      |          | 11062684    | Screen retainer ( <a href="#">SB-2020-029</a> on page 208) | 1                  |
| B046  | 20-40      |          | 11062684    | Screen retainer ( <a href="#">SB-2020-029</a> on page 208) | 1                  |
| L022  | 08-10      |          | 504207      | O-ring                                                     | 1                  |
| L024  | 08-10      |          | 336826      | Seal nut                                                   | 1                  |
| L060  | 08-10      |          | 365023      | O-ring                                                     | 1                  |
| L068  | 08-10      |          | 11052201    | O-ring                                                     | 1                  |
| QL300 | 05-18      |          | 11004709    | Pressure limiter kit, adjustable, CCW rotation pump        | 1                  |
| QL400 | 05-18      |          | 11004709    | Pressure limiter kit, adjustable, CW rotation pump         | 1                  |

### Order code: L15

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L100 | 08-10 |  | 11049144 | High pressure relief valve, 200 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: L20

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L100 | 08-10 |  | 11049147 | High pressure relief valve, 250 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: L23

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L100 | 08-10 |  | 11049148 | High pressure relief valve, 280 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: L25

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L100 | 08-10 |  | 11049149 | High pressure relief valve, 300 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: L28

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L100 | 08-10 |  | 11049150 | High pressure relief valve, 330 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: L30

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L100 | 08-10 |  | 11049151 | High pressure relief valve, 350 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: L33

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L100 | 08-10 |  | 11049152 | High pressure relief valve, 380 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: L35

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L100 | 08-10 |  | 11049153 | High pressure relief valve, 400 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: L38

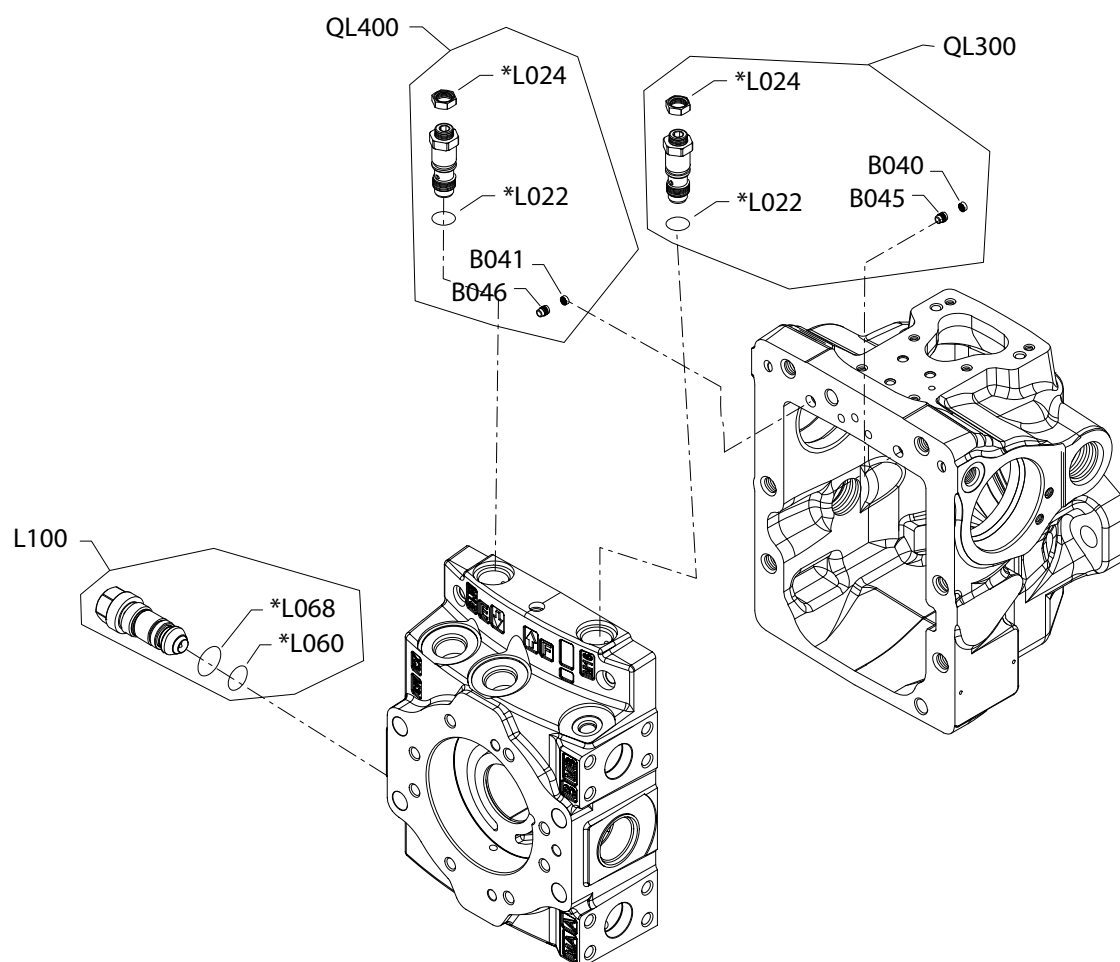
|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L100 | 08-10 |  | 11049154 | High pressure relief valve, 420 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

[Parts list continued on next 2 pages](#)

## High pressure setting

### Parts configuration

## (L15-L45, LED)



Generic end cap shown

\* Included in overhaul seal kit Q210

## High pressure setting

### Common parts

| Item  | Date Begin | Date End | Part Number | Part Name                                                  | Qty. per Model/Kit |
|-------|------------|----------|-------------|------------------------------------------------------------|--------------------|
| B040  | 20-40      |          | 140967      | Screen ( <a href="#">SB-2020-029</a> on page 208)          | 1                  |
| B041  | 20-40      |          | 140967      | Screen ( <a href="#">SB-2020-029</a> on page 208)          | 1                  |
| B045  | 20-40      |          | 11062684    | Screen retainer ( <a href="#">SB-2020-029</a> on page 208) | 1                  |
| B046  | 20-40      |          | 11062684    | Screen retainer ( <a href="#">SB-2020-029</a> on page 208) | 1                  |
| L022  | 08-10      |          | 504207      | O-ring                                                     | 1                  |
| L024  | 08-10      |          | 336826      | Seal nut                                                   | 1                  |
| L060  | 08-10      |          | 365023      | O-ring                                                     | 1                  |
| L068  | 08-10      |          | 11052201    | O-ring                                                     | 1                  |
| QL300 | 05-18      |          | 11004709    | Pressure limiter kit, adjustable, CCW rotation pump        | 1                  |
| QL400 | 05-18      |          | 11004709    | Pressure limiter kit, adjustable, CW rotation pump         | 1                  |

### Order codes: L40, L41, L42

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L100 | 08-10 |  | 11049155 | High pressure relief valve, 450 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: L43, L44, L45

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L100 | 08-10 |  | 11049156 | High pressure relief valve, 480 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

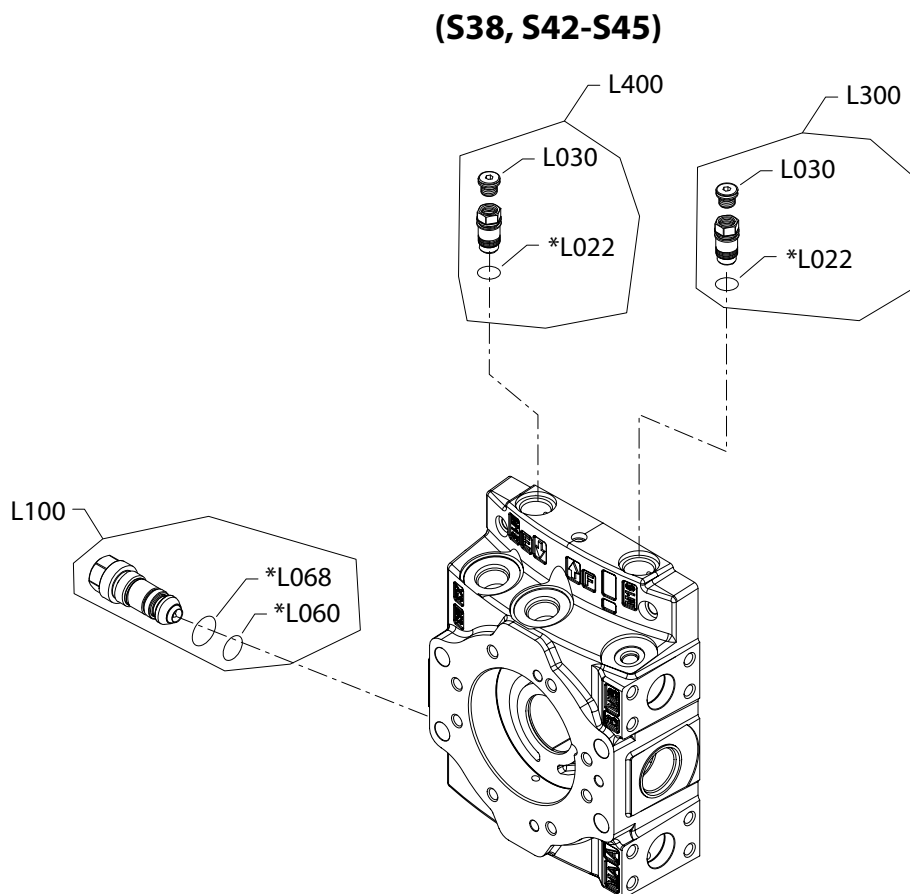
### Order code: LED

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L100 | 08-10 |  | 11106573 | High pressure relief valve, 460 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

## High pressure setting

### H1P High pressure setting (port A) S38, S42-S45

Parts configuration



Generic end cap shown

\* Included in overhaul seal kit Q210

## High pressure setting

### Common parts

| Item | Date Begin | Date End | Part Number | Part Name                                  | Qty. per Model/Kit |
|------|------------|----------|-------------|--------------------------------------------|--------------------|
| L022 | 08-10      |          | 504207      | O-ring                                     | 1                  |
| L030 | 12-02      |          | 140644      | Plug assembly                              | 1                  |
| L060 | 08-10      |          | 365023      | O-ring                                     | 1                  |
| L068 | 08-10      |          | 11052201    | O-ring                                     | 1                  |
| L300 | 12-02      |          | 11085422    | Pressure sensor adapter, CCW rotation pump | 1                  |
| L400 | 12-02      |          | 11085422    | Pressure sensor adapter, CW rotation pump  | 1                  |

### Order code: S38

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L100 | 24-05 |  | 11049152 | High pressure relief valve, 380 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: S42

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L100 | 12-04 |  | 11049154 | High pressure relief valve, 420 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: S44

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L100 | 12-02 |  | 11116160 | High pressure relief valve, 440 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

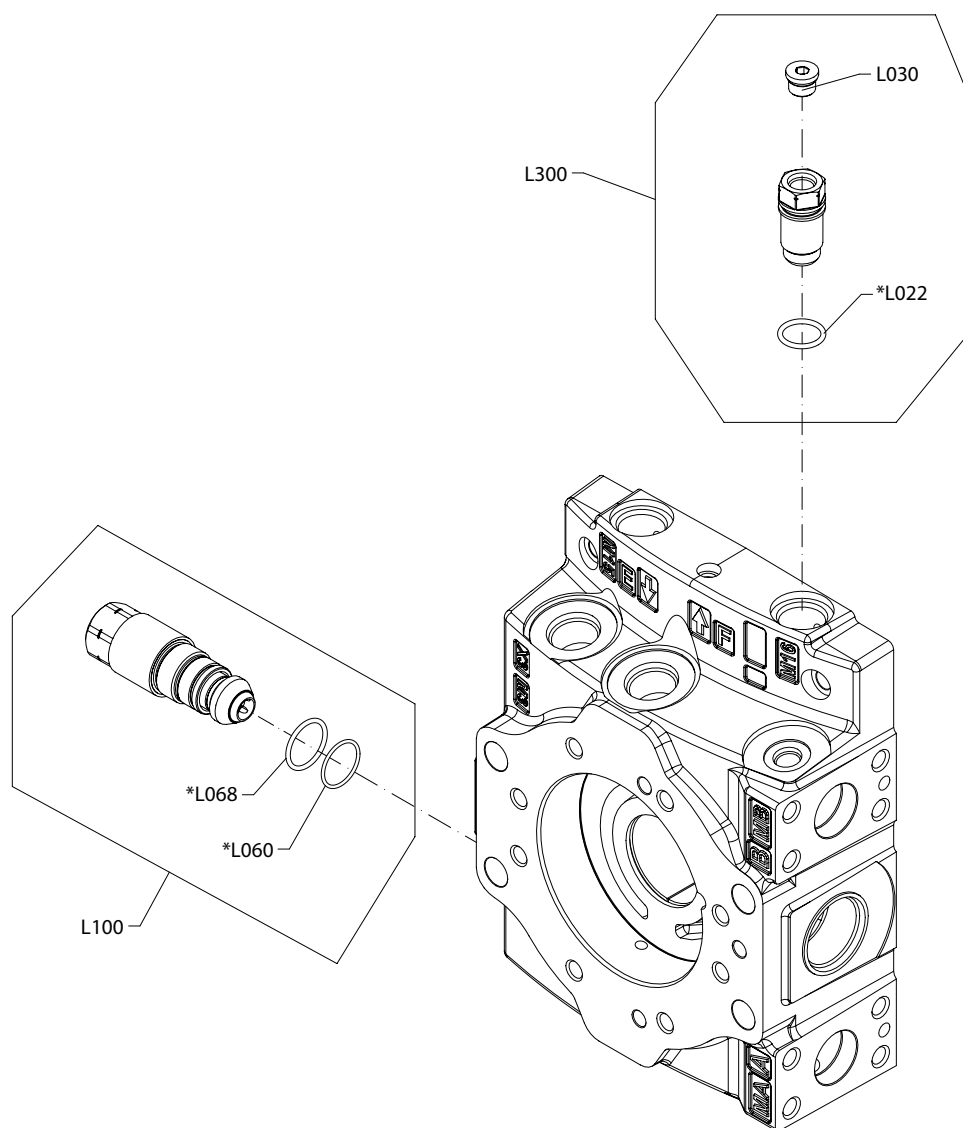
### Order code: S45

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L100 | 12-22 |  | 11049155 | High pressure relief valve, 450 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

## High pressure setting

### H1P high pressure setting (port A) S40

Parts configuration



Generic endcap shown.

\* Included in overhaul seal kit Q210

## High pressure setting

Order code: S40

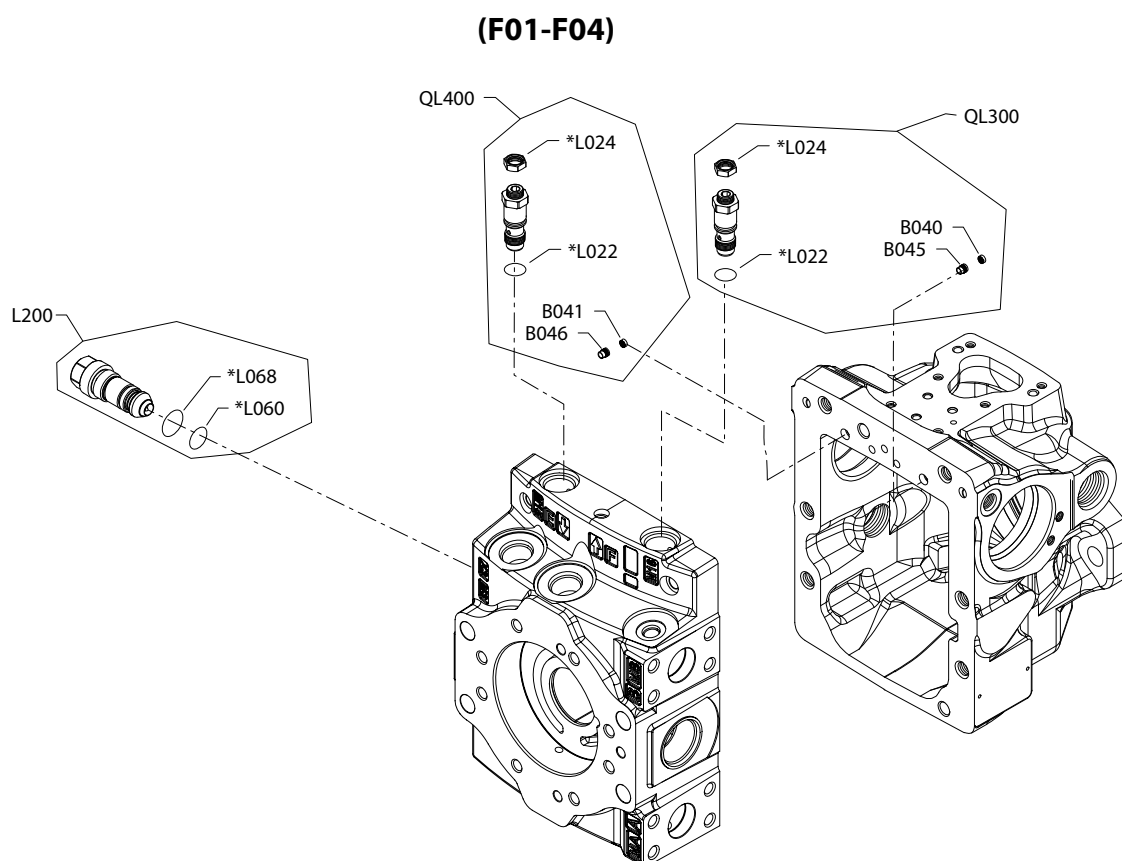
| Item | Date Begin | Date End | Part Number | Part Name                           | Qty. per Model/Kit |
|------|------------|----------|-------------|-------------------------------------|--------------------|
| L022 | 21-11      |          | 504207      | O-ring                              | 1                  |
| L030 | 21-11      |          | 140644      | Plug assembly                       | 1                  |
| L060 | 21-11      |          | 365023      | O-ring                              | 1                  |
| L068 | 21-11      |          | 11052201    | O-ring                              | 1                  |
| L100 | 21-11      |          | 11049153    | High pressure relief valve, 400 bar | 1                  |
| L300 | 21-11      |          | 11085422    | Pressure sensor adapter             | 1                  |

## High pressure setting

### Port B

#### H1P High pressure setting (port B) F01-F04

Parts configuration



Generic end cap shown

\* Included in overhaul seal kit Q210

## High pressure setting

### Common parts

| Item  | Date Begin | Date End | Part Number | Part Name                                                  | Qty. per Model/Kit |
|-------|------------|----------|-------------|------------------------------------------------------------|--------------------|
| B040  | 20-40      |          | 140967      | Screen ( <a href="#">SB-2020-029</a> on page 208)          | 1                  |
| B041  | 20-40      |          | 140967      | Screen ( <a href="#">SB-2020-029</a> on page 208)          | 1                  |
| B045  | 20-40      |          | 11062684    | Screen retainer ( <a href="#">SB-2020-029</a> on page 208) | 1                  |
| B046  | 20-40      |          | 11062684    | Screen retainer ( <a href="#">SB-2020-029</a> on page 208) | 1                  |
| L022  | 13-14      |          | 504207      | O-ring                                                     | 1                  |
| L024  | 13-14      |          | 336826      | Seal nut                                                   | 1                  |
| L060  | 13-14      |          | 365023      | O-ring                                                     | 1                  |
| L068  | 13-14      |          | 11052201    | O-ring                                                     | 1                  |
| QL300 | 13-14      |          | 11004709    | Pressure limiter kit, adjustable, CW rotation pump         | 1                  |
| QL400 | 13-14      |          | 11004709    | Pressure limiter kit, adjustable, CCW rotation pump        | 1                  |

### Order code: F01

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L200 | 13-14 |  | 11049147 | High pressure relief valve, 250 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: F02

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L200 | 13-14 |  | 11049149 | High pressure relief valve, 300 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: F03

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L200 | 13-14 |  | 11049151 | High pressure relief valve, 350 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

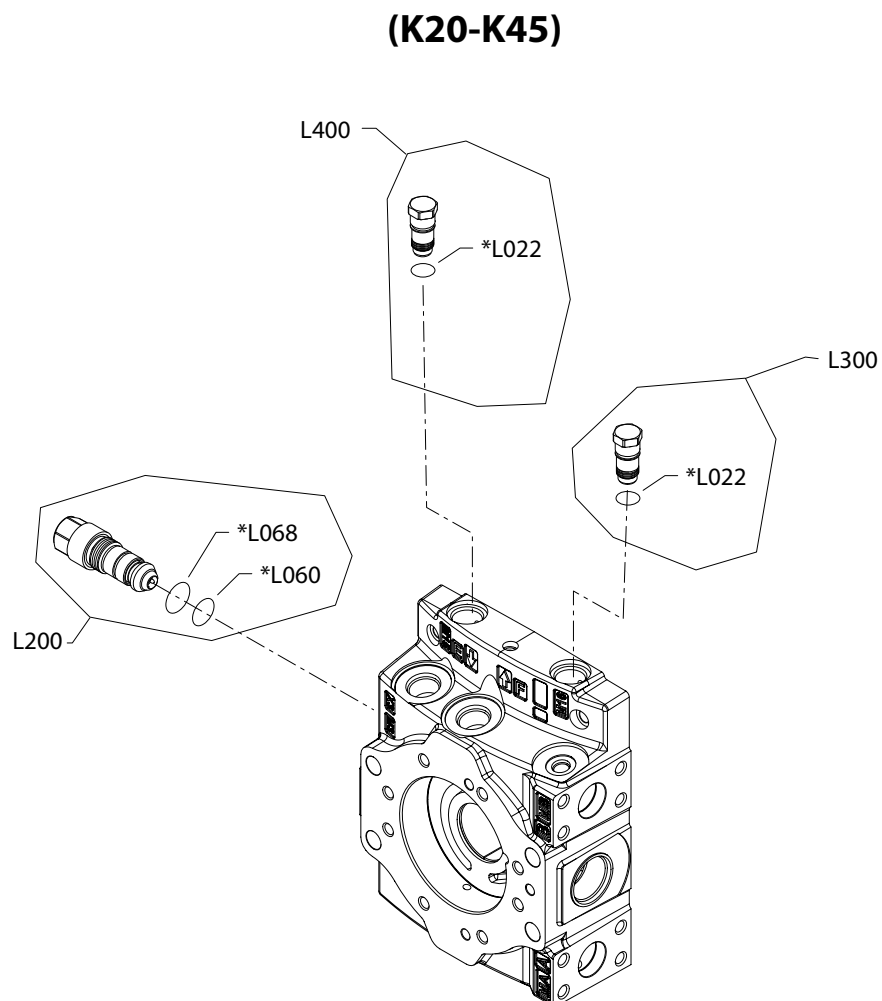
### Order code: F04

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L200 | 13-14 |  | 11049153 | High pressure relief valve, 400 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

## High pressure setting

### H1P High pressure setting (port B) K20-K45

Parts configuration



Generic end cap shown

\* Included in overhaul seal kit Q210

## High pressure setting

### Common parts

| Item | Date Begin | Date End | Part Number | Part Name                                         | Qty. per Model/Kit |
|------|------------|----------|-------------|---------------------------------------------------|--------------------|
| L022 | 08-10      |          | 504207      | O-ring                                            | 1                  |
| L060 | 08-10      |          | 365023      | O-ring                                            | 1                  |
| L068 | 08-10      |          | 11052201    | O-ring                                            | 1                  |
| L300 | 08-10      |          | 11002302    | Pressure limiter plug assembly, CW rotation pump  | 1                  |
| L400 | 08-10      |          | 11002302    | Pressure limiter plug assembly, CCW rotation pump | 1                  |

### Order code: K20

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L200 | 08-10 |  | 11049144 | High pressure relief valve, 200 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: K23

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L200 | 08-10 |  | 11049146 | High pressure relief valve, 230 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: K25

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L200 | 08-10 |  | 11049147 | High pressure relief valve, 250 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: K28

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L200 | 08-10 |  | 11049148 | High pressure relief valve, 280 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: K30

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L200 | 08-10 |  | 11049149 | High pressure relief valve, 300 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: K33

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L200 | 08-10 |  | 11049150 | High pressure relief valve, 330 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: K35

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L200 | 08-10 |  | 11049151 | High pressure relief valve, 350 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: K38

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L200 | 08-10 |  | 11049152 | High pressure relief valve, 380 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: K40

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L200 | 08-10 |  | 11049153 | High pressure relief valve, 400 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: K42

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L200 | 08-10 |  | 11049154 | High pressure relief valve, 420 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

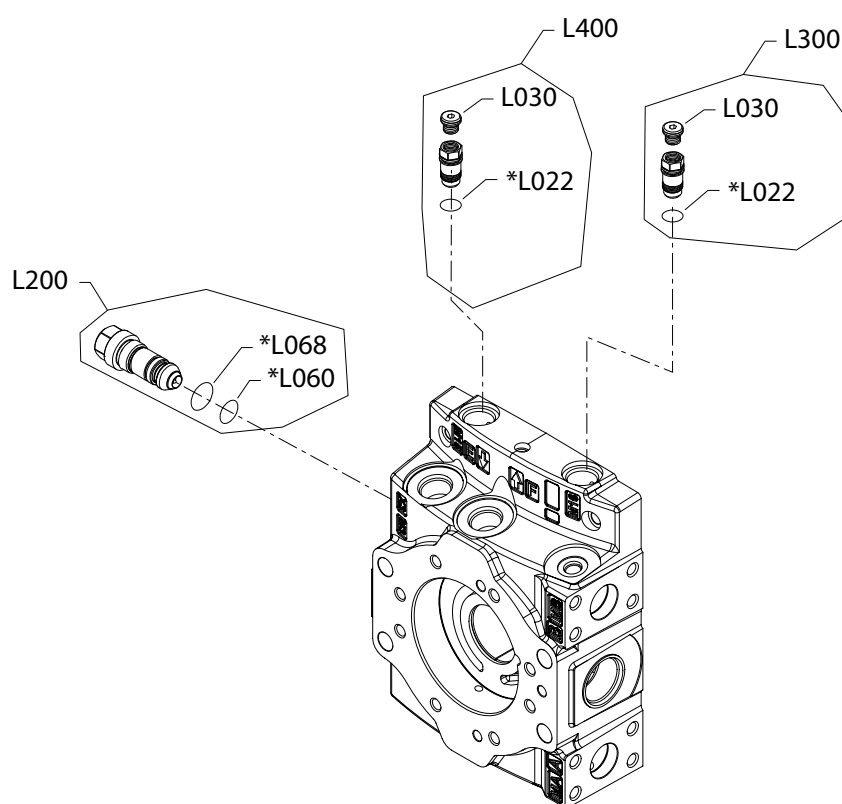
### Order code: K45

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L200 | 08-10 |  | 11049155 | High pressure relief valve, 450 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

## High pressure setting

### High pressure setting (port B) KDC-KWY

**(KDC-KWY)**



Generic end cap shown

\* Included in overhaul seal kit Q210

## High pressure setting

### Common parts

| Item | Date Begin | Date End | Part Number | Part Name                                         | Qty. per Model/Kit |
|------|------------|----------|-------------|---------------------------------------------------|--------------------|
| L022 | 08-10      |          | 504207      | O-ring                                            | 1                  |
| L030 | 08-10      |          | 513443      | Plug assembly                                     | 1                  |
| L060 | 08-10      |          | 365023      | O-ring                                            | 1                  |
| L068 | 08-10      |          | 11052201    | O-ring                                            | 1                  |
| L300 | 08-10      |          | 11035112    | Pressure limiter plug assembly, CW rotation pump  | 1                  |
| L400 | 08-10      |          | 11035112    | Pressure limiter plug assembly, CCW rotation pump | 1                  |

### Order code: KDC

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L200 | 08-10 |  | 11069762 | High pressure relief valve, 430 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: KKY

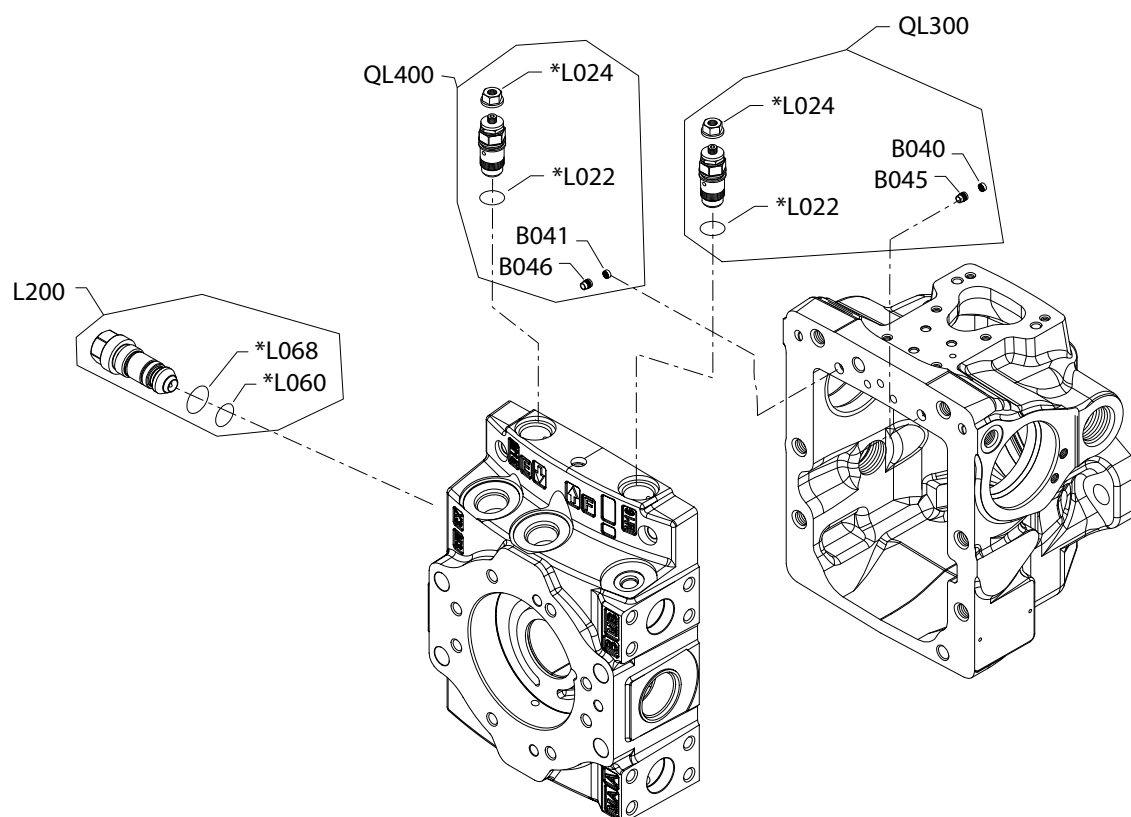
|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L200 | 08-10 |  | 11049155 | High pressure relief valve, 450 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

## High pressure setting

### H1P High pressure setting (port B) L15-L45, LED

Parts configuration

#### (L15-L45, LED)



Generic end cap shown

\* Included in overhaul seal kit Q210

## High pressure setting

### Common parts

| Item  | Date Begin | Date End | Part Number | Part Name                                                  | Qty. per Model/Kit |
|-------|------------|----------|-------------|------------------------------------------------------------|--------------------|
| B040  | 20-40      |          | 140967      | Screen ( <a href="#">SB-2020-029</a> on page 208)          | 1                  |
| B041  | 20-40      |          | 140967      | Screen ( <a href="#">SB-2020-029</a> on page 208)          | 1                  |
| B045  | 20-40      |          | 11062684    | Screen retainer ( <a href="#">SB-2020-029</a> on page 208) | 1                  |
| B046  | 20-40      |          | 11062684    | Screen retainer ( <a href="#">SB-2020-029</a> on page 208) | 1                  |
| L022  | 08-10      |          | 504207      | O-ring                                                     | 1                  |
| L024  | 08-10      |          | 336826      | Seal nut                                                   | 1                  |
| L060  | 08-10      |          | 365023      | O-ring                                                     | 1                  |
| L068  | 08-10      |          | 11052201    | O-ring                                                     | 1                  |
| QL300 | 08-10      |          | 11004709    | Pressure limiter kit, adjustable, CW rotation pump         | 1                  |
| QL400 | 08-10      |          | 11004709    | Pressure limiter kit, adjustable, CCW rotation pump        | 1                  |

### Order code: L15

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L200 | 08-10 |  | 11049144 | High pressure relief valve, 200 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: L20

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L200 | 08-10 |  | 11049147 | High pressure relief valve, 250 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: L23

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L200 | 08-10 |  | 11049148 | High pressure relief valve, 280 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: L25

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L200 | 08-10 |  | 11049149 | High pressure relief valve, 300 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: L28

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L200 | 08-10 |  | 11049150 | High pressure relief valve, 330 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: L30

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L200 | 08-10 |  | 11049151 | High pressure relief valve, 350 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: L33

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L200 | 08-10 |  | 11049152 | High pressure relief valve, 380 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: L35

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L200 | 08-10 |  | 11049153 | High pressure relief valve, 400 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

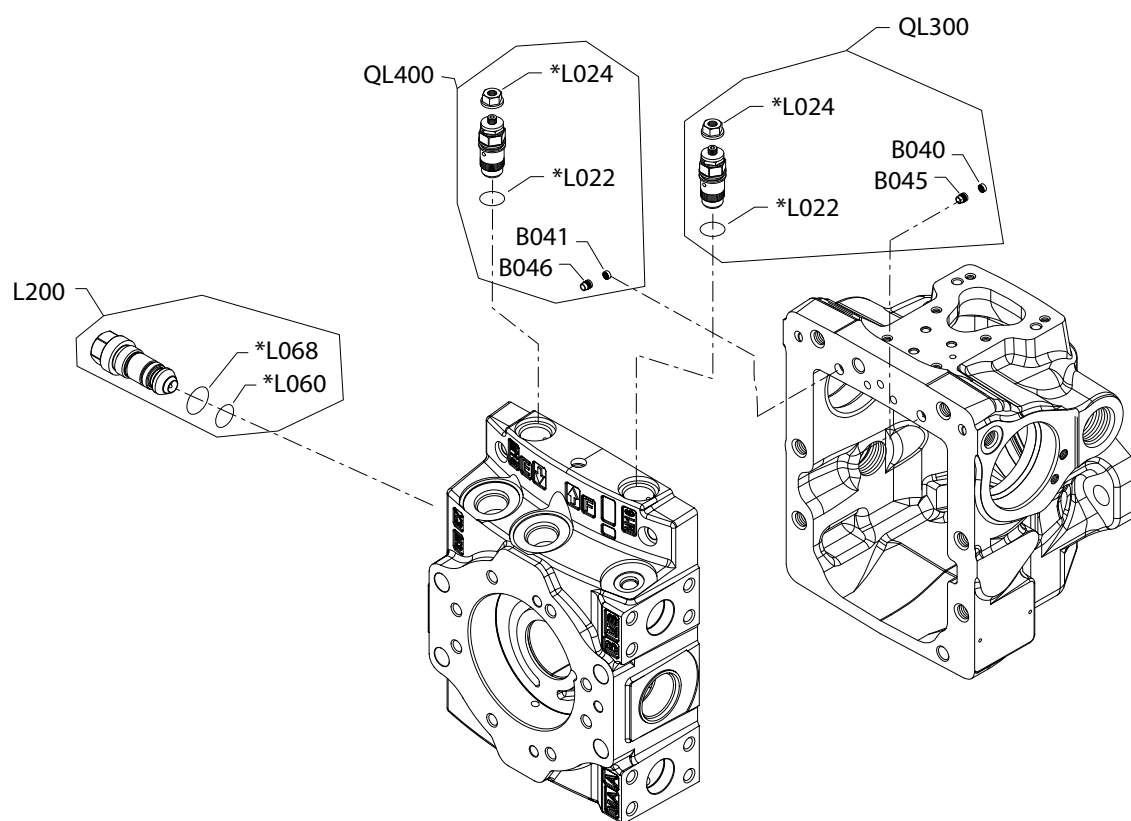
### Order code: L38

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L200 | 08-10 |  | 11049154 | High pressure relief valve, 420 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

## High pressure setting

Parts configuration

### (L15-L45, LED)



Generic end cap shown

\* Included in overhaul seal kit Q210

## High pressure setting

### Common parts

| Item  | Date Begin | Date End | Part Number | Part Name                                                  | Qty. per Model/Kit |
|-------|------------|----------|-------------|------------------------------------------------------------|--------------------|
| B040  | 20-40      |          | 140967      | Screen ( <a href="#">SB-2020-029</a> on page 208)          | 1                  |
| B041  | 20-40      |          | 140967      | Screen ( <a href="#">SB-2020-029</a> on page 208)          | 1                  |
| B045  | 20-40      |          | 11062684    | Screen retainer ( <a href="#">SB-2020-029</a> on page 208) | 1                  |
| B046  | 20-40      |          | 11062684    | Screen retainer ( <a href="#">SB-2020-029</a> on page 208) | 1                  |
| L022  | 08-10      |          | 504207      | O-ring                                                     | 1                  |
| L024  | 08-10      |          | 336826      | Seal nut                                                   | 1                  |
| L060  | 08-10      |          | 365023      | O-ring                                                     | 1                  |
| L068  | 08-10      |          | 11052201    | O-ring                                                     | 1                  |
| QL300 | 08-10      |          | 11004709    | Pressure limiter kit, adjustable, CW rotation pump         | 1                  |
| QL400 | 08-10      |          | 11004709    | Pressure limiter kit, adjustable, CCW rotation pump        | 1                  |

### Order code: L40, L41, L42

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L200 | 08-10 |  | 11049155 | High pressure relief valve, 450 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: L43, L44, L45

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L200 | 08-10 |  | 11049156 | High pressure relief valve, 480 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: LED

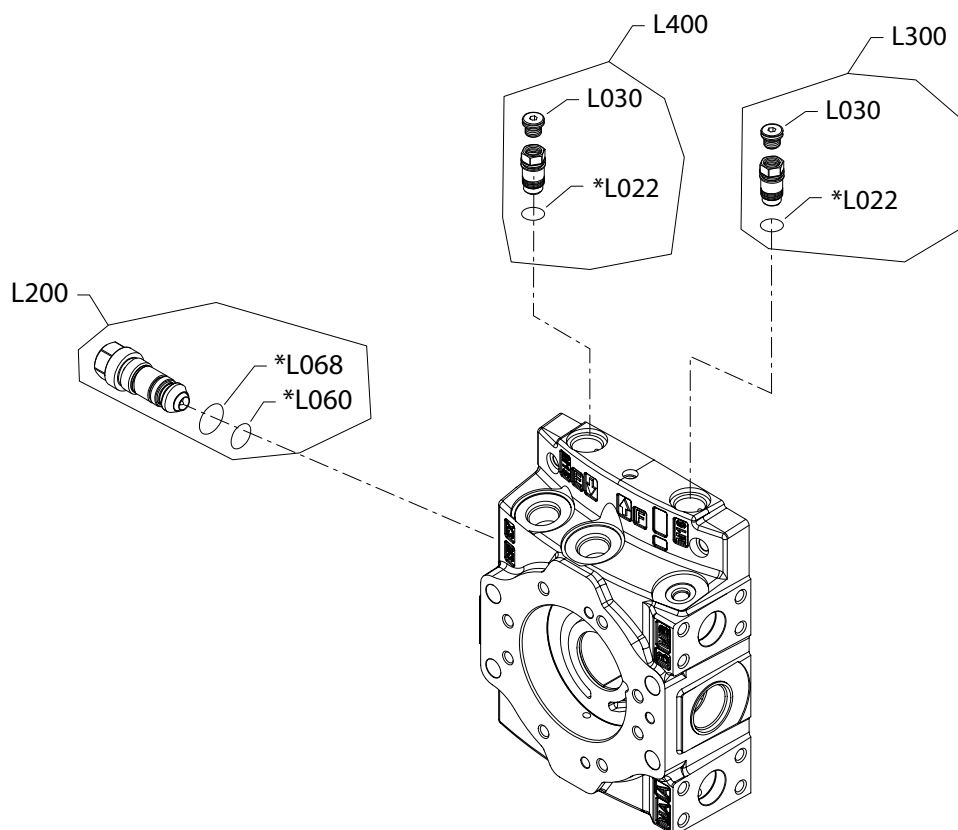
|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L200 | 08-10 |  | 11106573 | High pressure relief valve, 460 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

## High pressure setting

### High pressure setting S38, S42-S45

Parts configuration

**(S38, S42-S45)**



Generic end cap shown

\* Included in overhaul seal kit Q210

## High pressure setting

### Common parts

| Item | Date Begin | Date End | Part Number | Part Name                                  | Qty. per Model/Kit |
|------|------------|----------|-------------|--------------------------------------------|--------------------|
| L022 | 08-10      |          | 504207      | O-ring                                     | 1                  |
| L030 | 12-02      |          | 140644      | Plug assembly                              | 1                  |
| L060 | 08-10      |          | 365023      | O-ring                                     | 1                  |
| L068 | 08-10      |          | 11052201    | O-ring                                     | 1                  |
| L300 | 12-02      |          | 11085422    | Pressure sensor adapter, CW rotation pump  | 1                  |
| L400 | 12-02      |          | 11085422    | Pressure sensor adapter, CCW rotation pump | 1                  |

### Order code: S38

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L200 | 24-05 |  | 11049152 | High pressure relief valve, 380 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: S42

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L200 | 12-04 |  | 11049154 | High pressure relief valve, 420 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

### Order code: S44

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L200 | 12-02 |  | 11116160 | High pressure relief valve, 440 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

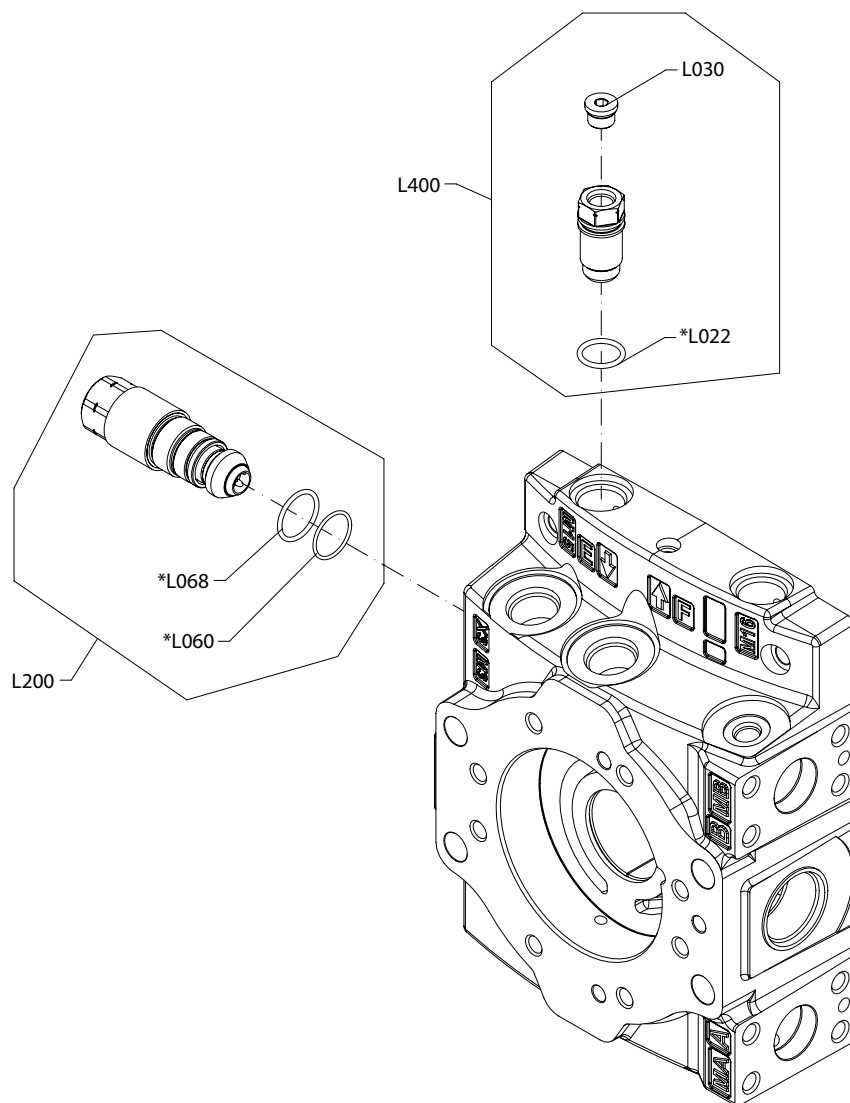
### Order code: S45

|      |       |  |          |                                     |   |
|------|-------|--|----------|-------------------------------------|---|
| L200 | 12-22 |  | 11049155 | High pressure relief valve, 450 bar | 1 |
|------|-------|--|----------|-------------------------------------|---|

## High pressure setting

### H1P high pressure setting (port B) S40

Parts configuration



Generic endcap shown.

\* Included in overhaul seal kit Q210

**High pressure setting**

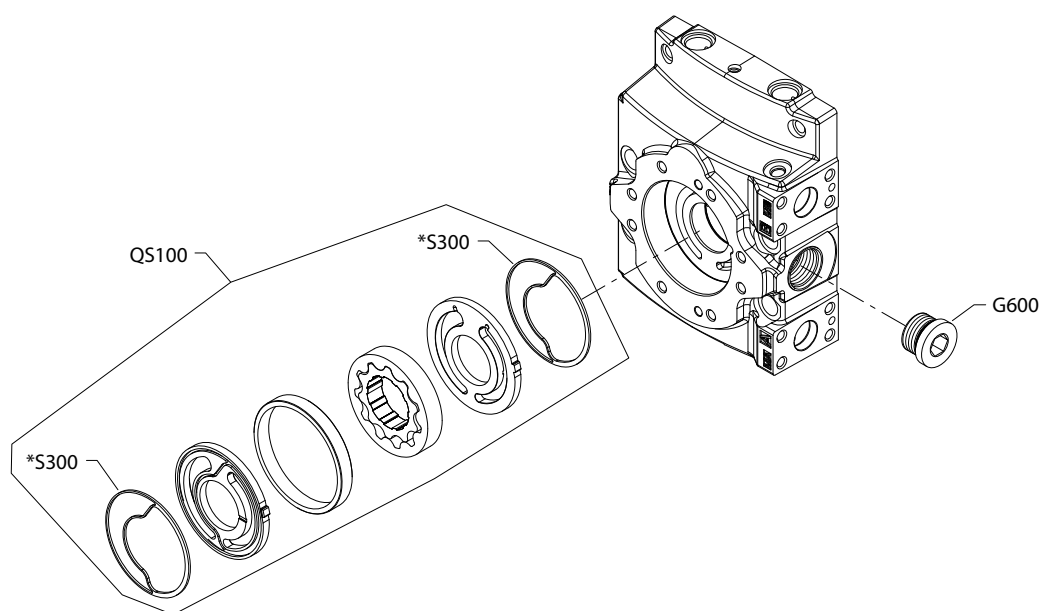
*Order code: S40*

| Item | Date Begin | Date End | Part Number | Part Name                           | Qty. per Model/Kit |
|------|------------|----------|-------------|-------------------------------------|--------------------|
| L022 | 21-11      |          | 504207      | O-ring                              | 1                  |
| L030 | 21-11      |          | 140644      | Plug assembly                       | 1                  |
| L060 | 21-11      |          | 365023      | O-ring                              | 1                  |
| L068 | 21-11      |          | 11052201    | O-ring                              | 1                  |
| L200 | 21-11      |          | 11049153    | High pressure relief valve, 400 bar | 1                  |
| L400 | 21-11      |          | 11085422    | Pressure sensor adapter             | 1                  |

## Charge pump

### H1P charge pump

*Parts configuration*



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

\* Included in overhaul seal kit Q210

## Charge pump

Order code: A

| Item  | Date Begin | Date End | Part Number | Part Name                                                        | Qty. per Model/Kit |
|-------|------------|----------|-------------|------------------------------------------------------------------|--------------------|
| QS100 | 10-08      |          | 11075695    | Charge pump kit, 26cc ( <a href="#">SB-2011-022</a> on page 191) | 1                  |
| S300  | 08-10      |          | 11126778    | Seal ring ( <a href="#">SB-2013-019</a> on page 197)             | 2                  |

Order code: L

|       |       |  |          |                                                                  |   |
|-------|-------|--|----------|------------------------------------------------------------------|---|
| QS100 | 10-08 |  | 11069135 | Charge pump kit, 34cc ( <a href="#">SB-2011-022</a> on page 191) | 1 |
| S300  | 08-10 |  | 11126778 | Seal ring ( <a href="#">SB-2013-019</a> on page 197)             | 2 |

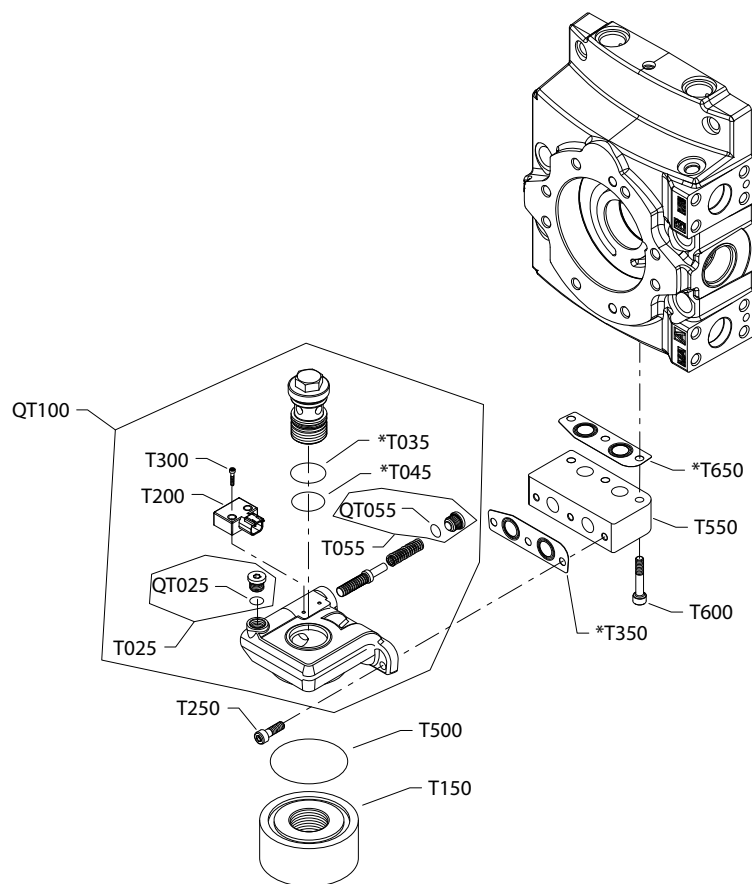
Order code: N

|      |       |  |                       |                             |   |
|------|-------|--|-----------------------|-----------------------------|---|
| G600 | 10-15 |  | 676734 (9005110-9500) | Plug assembly               | 1 |
| G600 | 16-09 |  | 11164205              | Plug assembly, M42 (metric) | 1 |

## Filtration

### H1P filtration C

*Parts configuration*



Generic end cap shown

\* Included in overhaul seal kit Q210

## Filtration

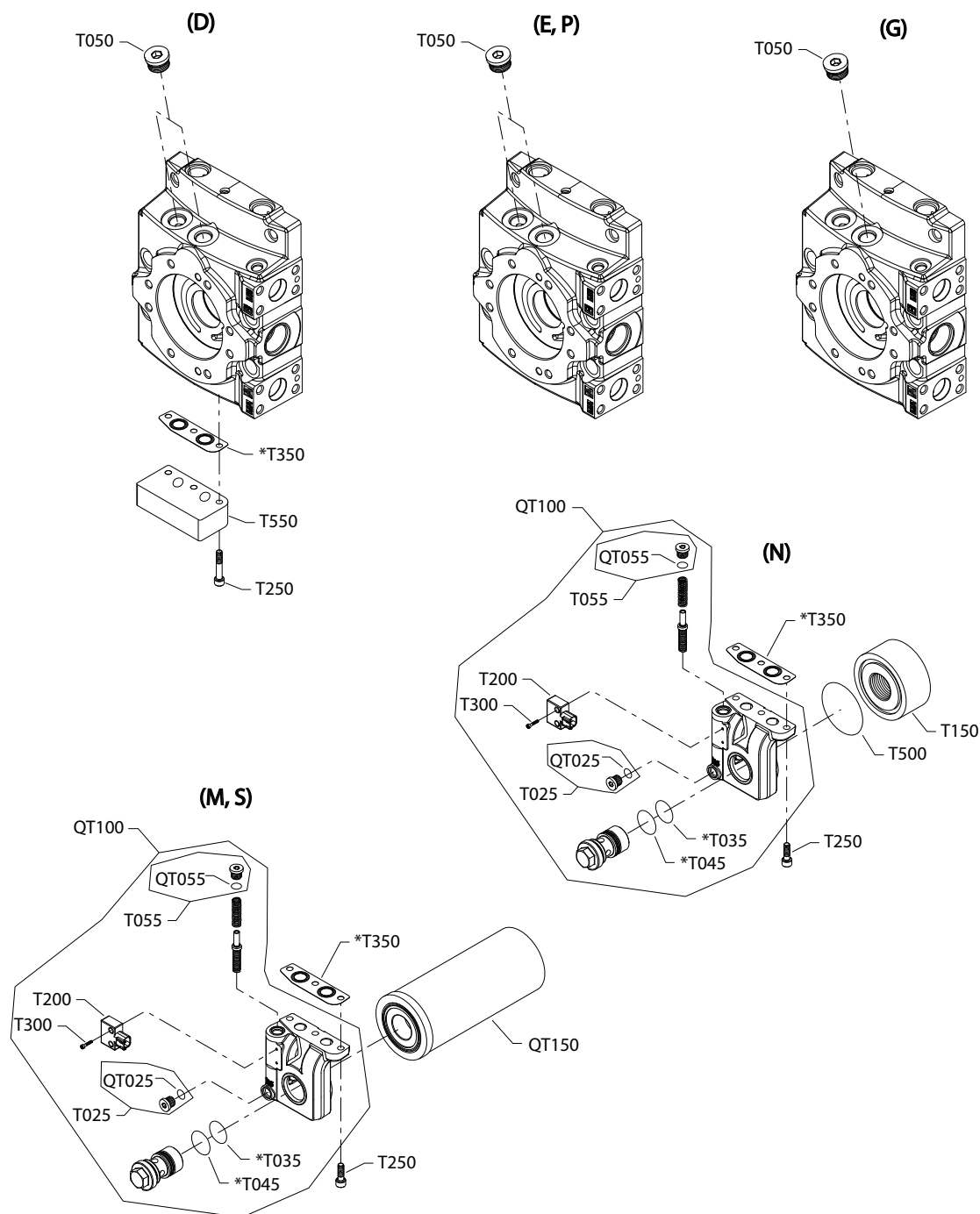
Order code: C

| Item  | Date Begin | Date End | Part Number           | Part Name                                                    | Qty. per Model/Kit |
|-------|------------|----------|-----------------------|--------------------------------------------------------------|--------------------|
| T025  | 08-10      |          | 141269                | Plug assembly                                                | 1                  |
| T035  | 08-10      |          | 761148                | O-ring                                                       | 1                  |
| T045  | 08-10      |          | 314500 (9004100-1250) | O-ring                                                       | 1                  |
| T055  | 08-10      |          | 141269                | Plug assembly                                                | 1                  |
| QT100 | 08-10      |          | 11127352              | Pressure filter adapter assembly                             | 1                  |
| T150  | 08-10      |          | 11190584              | Cover                                                        | 1                  |
| T200  | 08-10      |          | 11031852              | Filtration sensor ( <a href="#">SB-2007-052</a> on page 184) | 1                  |
| T250  | 08-10      |          | 11128665              | Screw, M8 x 25                                               | 3                  |
| T300  | 08-10      |          | 140560                | Screw, M3 x 16                                               | 2                  |
| T350  | 08-10      |          | 140737                | Filter adapter gasket                                        | 1                  |
| T500  | 08-10      |          | 000943 (9004100-2300) | O-ring                                                       | 1                  |
| T550  | 08-10      |          | 11008273              | Adapter plate                                                | 1                  |
| T600  | 08-10      |          | 376624                | Screw, M8 x 45                                               | 3                  |
| T650  | 08-10      |          | 140737                | Gasket                                                       | 1                  |

## Filtration

### H1P filtration D-S

Parts configuration



Generic end caps shown

\* Included in overhaul seal kit Q210

## Filtration

Order code: D

| Item | Date Begin | Date End | Part Number           | Part Name             | Qty. per Model/Kit |
|------|------------|----------|-----------------------|-----------------------|--------------------|
| T050 | 09-43      |          | 664524 (9005110-9000) | Plug assembly         | 2                  |
| T250 | 09-43      |          | 092106                | Screw                 | 3                  |
| T350 | 09-43      |          | 140737                | Filter adapter gasket | 1                  |
| T550 | 09-43      |          | 11074118              | Adapter plate         | 1                  |

Order code: E

|      |       |  |                       |               |   |
|------|-------|--|-----------------------|---------------|---|
| T050 | 09-43 |  | 664524 (9005110-9000) | Plug assembly | 2 |
|------|-------|--|-----------------------|---------------|---|

Order code: G

|      |       |  |                       |               |   |
|------|-------|--|-----------------------|---------------|---|
| T050 | 09-43 |  | 664524 (9005110-9000) | Plug assembly | 1 |
|------|-------|--|-----------------------|---------------|---|

Order code: L

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

Order code: M

|       |       |  |                       |                                                              |   |
|-------|-------|--|-----------------------|--------------------------------------------------------------|---|
| QT150 | 08-10 |  | 11004919              | Filter assembly                                              | 1 |
| T025  | 08-10 |  | 141269                | Plug assembly                                                | 1 |
| T035  | 08-10 |  | 761148                | O-ring                                                       | 1 |
| T045  | 08-10 |  | 314500 (9004100-1250) | O-ring                                                       | 1 |
| T055  | 08-10 |  | 141269                | Plug assembly                                                | 1 |
| QT100 | 08-10 |  | 11127352              | Pressure filter adapter assembly                             | 1 |
| T200  | 08-10 |  | 11031852              | Filtration sensor ( <a href="#">SB-2007-052</a> on page 184) | 1 |
| T250  | 08-10 |  | 11128665              | Screw                                                        | 3 |
| T300  | 08-10 |  | 140560                | Screw                                                        | 2 |
| T350  | 08-10 |  | 140737                | Filter adapter gasket                                        | 1 |

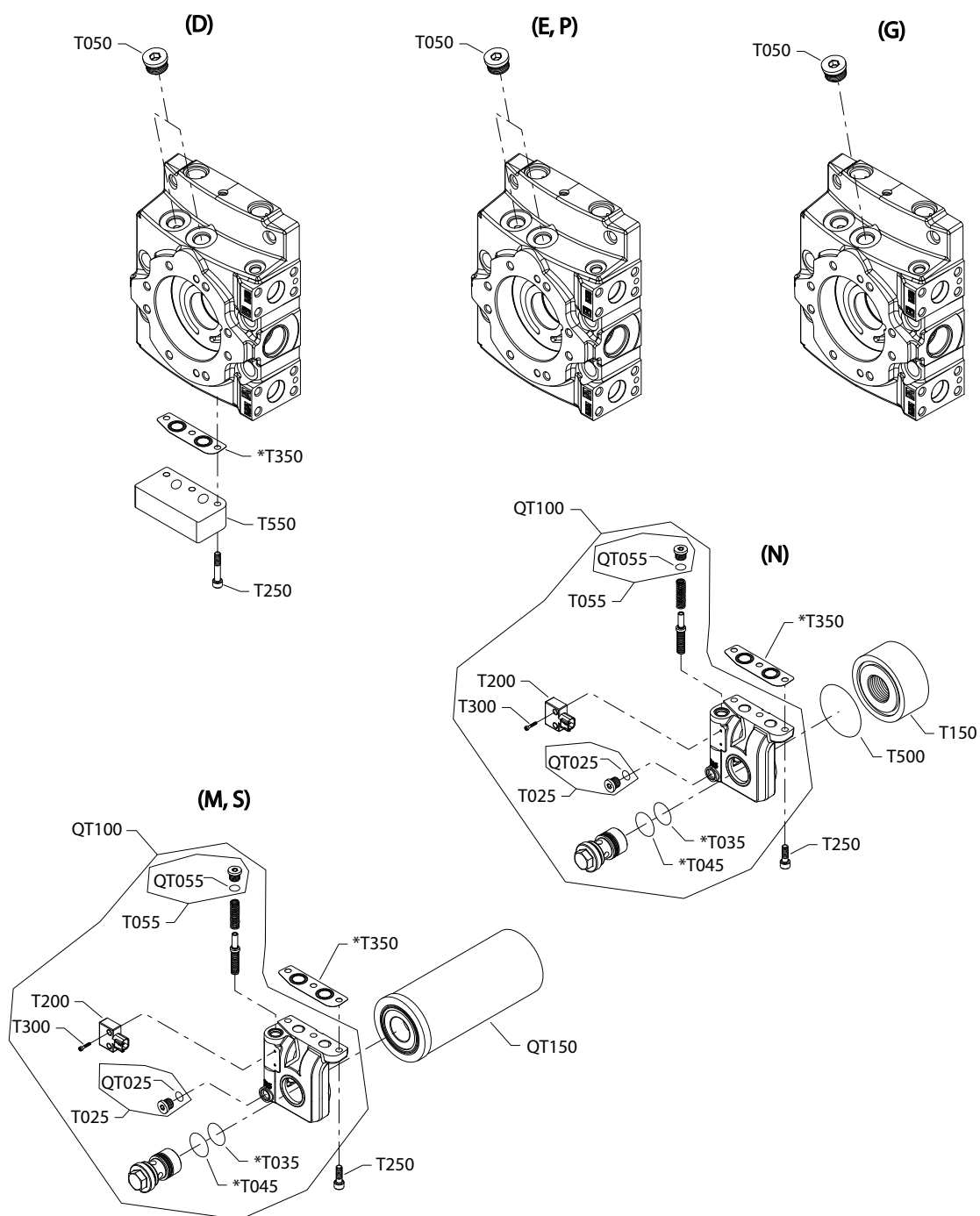
Order code: N

|       |       |  |                       |                                                              |   |
|-------|-------|--|-----------------------|--------------------------------------------------------------|---|
| T025  | 08-47 |  | 141269                | Plug assembly                                                | 1 |
| T035  | 08-47 |  | 761148                | O-ring                                                       | 1 |
| T045  | 08-47 |  | 314500 (9004100-1250) | O-ring                                                       | 1 |
| T055  | 08-47 |  | 141269                | Plug assembly                                                | 1 |
| QT100 | 08-47 |  | 11127352              | Pressure filter adapter assembly                             | 1 |
| T150  | 08-47 |  | 11190584              | Cover                                                        | 1 |
| T200  | 08-47 |  | 11031852              | Filtration sensor ( <a href="#">SB-2007-052</a> on page 184) | 1 |
| T250  | 08-47 |  | 11128665              | Screw                                                        | 3 |
| T300  | 08-47 |  | 140560                | Screw                                                        | 2 |
| T350  | 08-47 |  | 140737                | Filter adapter gasket                                        | 1 |
| T500  | 08-47 |  | 000943 (9004100-2300) | O-ring                                                       | 1 |

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

## Filtration

### Parts configuration



Generic end caps shown

\* Included in overhaul seal kit Q210

## Filtration

Order code: P

| Item | Date Begin | Date End | Part Number           | Part Name     | Qty. per Model/Kit |
|------|------------|----------|-----------------------|---------------|--------------------|
| T050 | 08-10      |          | 664524 (9005110-9000) | Plug assembly | 2                  |

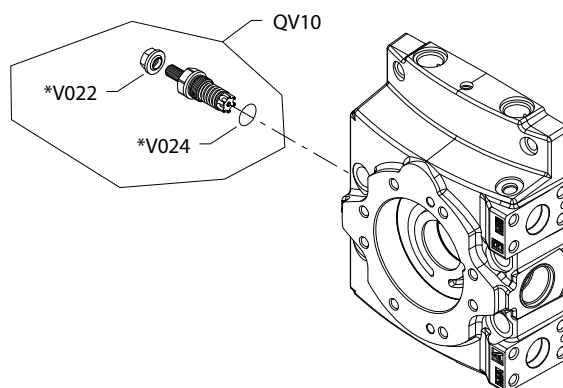
Order code: S

|       |       |  |                       |                                                              |   |
|-------|-------|--|-----------------------|--------------------------------------------------------------|---|
| QT150 | 08-10 |  | 11004919              | Filter assembly                                              | 1 |
| T025  | 08-10 |  | 141269                | Plug assembly                                                | 1 |
| T035  | 08-10 |  | 761148                | O-ring                                                       | 1 |
| T045  | 08-10 |  | 314500 (9004100-1250) | O-ring                                                       | 1 |
| T055  | 08-10 |  | 141269                | Plug assembly                                                | 1 |
| QT100 | 08-10 |  | 11230401              | Pressure filter adapter assembly                             | 1 |
| T200  | 08-10 |  | 11031853              | Filtration sensor ( <a href="#">SB-2007-052</a> on page 184) | 1 |
| T250  | 08-10 |  | 11128665              | Screw                                                        | 3 |
| T300  | 08-10 |  | 140560                | Screw                                                        | 2 |
| T350  | 08-10 |  | 140737                | Filter adapter gasket                                        | 1 |

## Charge pressure relief and ISL settings

### H1P 115/130cc charge pressure relief 14-40

*Parts configuration*




---

Generic end caps shown

---

\* Included in overhaul seal kit Q210

## Charge pressure relief and ISL settings

Order code: 14-22

| Item | Date Begin | Date End | Part Number           | Part Name                                                          | Qty. per Model/Kit |
|------|------------|----------|-----------------------|--------------------------------------------------------------------|--------------------|
| QV10 | 15-04      |          | 11137578              | Charge relief valve kit ( <a href="#">SB-2016-004</a> on page 200) | 1                  |
| QV10 | 08-10      | 15-03    | 11004711              | Charge relief valve kit                                            | 1                  |
| V022 | 15-04      |          | 066159                | Seal nut, M12 ( <a href="#">SB-2016-004</a> on page 200)           | 1                  |
| V022 | 08-10      | 15-03    | 612291 (9003508-0008) | Seal nut, M8                                                       | 1                  |
| V024 | 08-10      |          | 001149 (9004201-6200) | O-ring                                                             | 1                  |

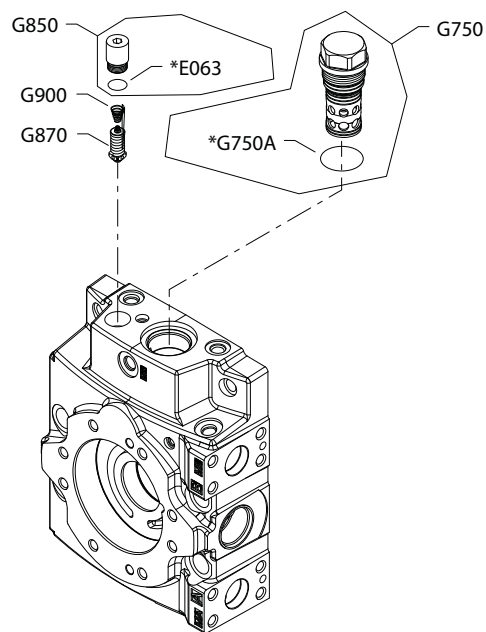
Order code: 24-40

|      |       |       |                       |                                                                    |   |
|------|-------|-------|-----------------------|--------------------------------------------------------------------|---|
| QV10 | 15-04 |       | 11137579              | Charge relief valve kit ( <a href="#">SB-2016-004</a> on page 200) | 1 |
| QV10 | 08-10 | 15-03 | 11017127              | Charge relief valve kit                                            | 1 |
| V022 | 15-04 |       | 066159                | Seal nut, M12 ( <a href="#">SB-2016-004</a> on page 200)           | 1 |
| V022 | 08-10 | 15-03 | 612291 (9003508-0008) | Seal nut, M8                                                       | 1 |
| V024 | 08-10 |       | 001149 (9004201-6200) | O-ring                                                             | 1 |

## Charge pressure relief and ISL settings

### H1P 115/130cc ISL setting A01-G23

*Parts configuration*



Generic control shown

\* Included in overhaul seal kit Q210

## Charge pressure relief and ISL settings

Order code: A02 and G14

| Item  | Date Begin | Date End | Part Number           | Part Name                              | Qty. per Model/Kit |
|-------|------------|----------|-----------------------|----------------------------------------|--------------------|
| G750  | 08-10      |          | 11137759              | ISL valve assembly, 5.5                | 1                  |
| G750A | 08-10      |          | 140866                | O-ring                                 | 1                  |
| G850  | 08-10      |          | 11126727              | Plug assembly                          | 1                  |
| E063  | 08-10      |          | 001131 (9004201-5000) | O-ring                                 | 1                  |
| G870  | 08-10      |          | 3103375-0140          | SCR valve assembly, 140 bar [2030 psi] | 1                  |
| G900  | 08-10      |          | 4800780               | Spring                                 | 1                  |

Order code: G16

|       |       |  |                       |                                        |   |
|-------|-------|--|-----------------------|----------------------------------------|---|
| G750  | 14-32 |  | 11145639              | ISL valve assembly, 4.4                | 1 |
| G750A | 14-32 |  | 140866                | O-ring                                 | 1 |
| G850  | 14-32 |  | 11126727              | Plug assembly                          | 1 |
| E063  | 14-32 |  | 001131 (9004201-5000) | O-ring                                 | 1 |
| G870  | 14-32 |  | 3103375-0160          | SCR valve assembly, 160 bar [2320 psi] | 1 |
| G900  | 14-32 |  | 4800780               | Spring                                 | 1 |

Order code: G18

|       |       |  |                       |                                        |   |
|-------|-------|--|-----------------------|----------------------------------------|---|
| G750  | 08-10 |  | 11137759              | ISL valve assembly, 5.5                | 1 |
| G750A | 08-10 |  | 140866                | O-ring                                 | 1 |
| G850  | 08-10 |  | 11126727              | Plug assembly                          | 1 |
| E063  | 08-10 |  | 001131 (9004201-5000) | O-ring                                 | 1 |
| G870  | 08-10 |  | 3103375-0175          | SCR valve assembly, 175 bar [2538 psi] | 1 |
| G900  | 08-10 |  | 4800780               | Spring                                 | 1 |

Order code: G21

|       |       |  |                       |                                        |   |
|-------|-------|--|-----------------------|----------------------------------------|---|
| G750  | 08-10 |  | 11137759              | ISL valve assembly, 5.5                | 1 |
| G750A | 08-10 |  | 140866                | O-ring                                 | 1 |
| G850  | 08-10 |  | 11126727              | Plug assembly                          | 1 |
| E063  | 08-10 |  | 001131 (9004201-5000) | O-ring                                 | 1 |
| G870  | 08-10 |  | 3103375-0210          | SCR valve assembly, 210 bar [3045 psi] | 1 |
| G900  | 08-10 |  | 4800780               | Spring                                 | 1 |

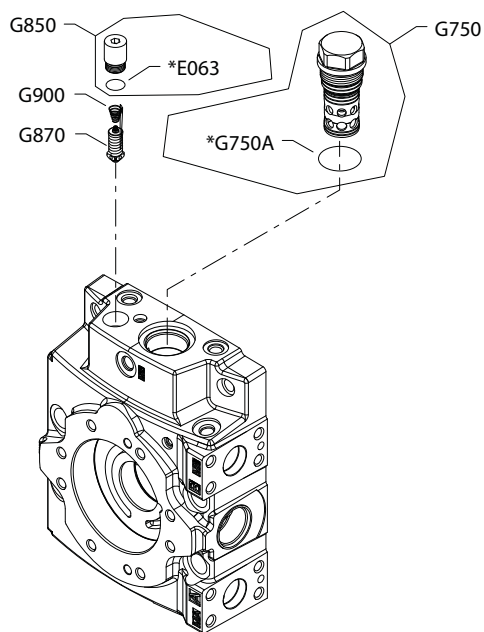
Order code: G23

|       |       |  |                       |                                        |   |
|-------|-------|--|-----------------------|----------------------------------------|---|
| G750  | 08-10 |  | 11137759              | ISL valve assembly, 5.5                | 1 |
| G750A | 08-10 |  | 140866                | O-ring                                 | 1 |
| G850  | 08-10 |  | 11126727              | Plug assembly                          | 1 |
| E063  | 08-10 |  | 001131 (9004201-5000) | O-ring                                 | 1 |
| G870  | 08-10 |  | 3103375-0230          | SCR valve assembly, 230 bar [3335 psi] | 1 |
| G900  | 08-10 |  | 4800780               | Spring                                 | 1 |

## Charge pressure relief and ISL settings

### H1P 115/130cc ISL setting G25-Y4E

*Parts configuration*



Generic end cap shown

\* Included in overhaul seal kit Q210

## Charge pressure relief and ISL settings

Order code: G25

| Item  | Date Begin | Date End | Part Number           | Part Name                              | Qty. per Model/Kit |
|-------|------------|----------|-----------------------|----------------------------------------|--------------------|
| G750  | 08-10      |          | 11137759              | ISL valve assembly, 5.5                | 1                  |
| G750A | 08-10      |          | 140866                | O-ring                                 | 1                  |
| G850  | 08-10      |          | 11126727              | Plug assembly                          | 1                  |
| E063  | 08-10      |          | 001131 (9004201-5000) | O-ring                                 | 1                  |
| G870  | 08-10      |          | 3103375-0250          | SCR valve assembly, 250 bar [3625 psi] | 1                  |
| G900  | 08-10      |          | 4800780               | Spring                                 | 1                  |

Order code: GAA

|       |       |  |                       |                                        |   |
|-------|-------|--|-----------------------|----------------------------------------|---|
| G750  | 08-10 |  | 11145639              | ISL valve assembly, 4.4                | 1 |
| G750A | 08-10 |  | 140866                | O-ring                                 | 1 |
| G850  | 08-10 |  | 11126727              | Plug assembly                          | 1 |
| E063  | 08-10 |  | 001131 (9004201-5000) | O-ring                                 | 1 |
| G870  | 08-10 |  | 3103375-0140          | SCR valve assembly, 140 bar [2030 psi] | 1 |
| G900  | 08-10 |  | 4800780               | Spring                                 | 1 |

Order code: GAB

|       |       |  |                       |                                        |   |
|-------|-------|--|-----------------------|----------------------------------------|---|
| G750  | 08-10 |  | 11145639              | ISL valve assembly, 4.4                | 1 |
| G750A | 08-10 |  | 140866                | O-ring                                 | 1 |
| G850  | 08-10 |  | 11126727              | Plug assembly                          | 1 |
| E063  | 08-10 |  | 001131 (9004201-5000) | O-ring                                 | 1 |
| G870  | 08-10 |  | 3103375-0175          | SCR valve assembly, 175 bar [2538 psi] | 1 |
| G900  | 08-10 |  | 4800780               | Spring                                 | 1 |

Order code: GAC

|       |       |  |                       |                                        |   |
|-------|-------|--|-----------------------|----------------------------------------|---|
| G750  | 08-10 |  | 11145639              | ISL valve assembly, 4.4                | 1 |
| G750A | 08-10 |  | 140866                | O-ring                                 | 1 |
| G850  | 08-10 |  | 11126727              | Plug assembly                          | 1 |
| E063  | 08-10 |  | 001131 (9004201-5000) | O-ring                                 | 1 |
| G870  | 08-10 |  | 3103375-0210          | SCR valve assembly, 210 bar [3045 psi] | 1 |
| G900  | 08-10 |  | 4800780               | Spring                                 | 1 |

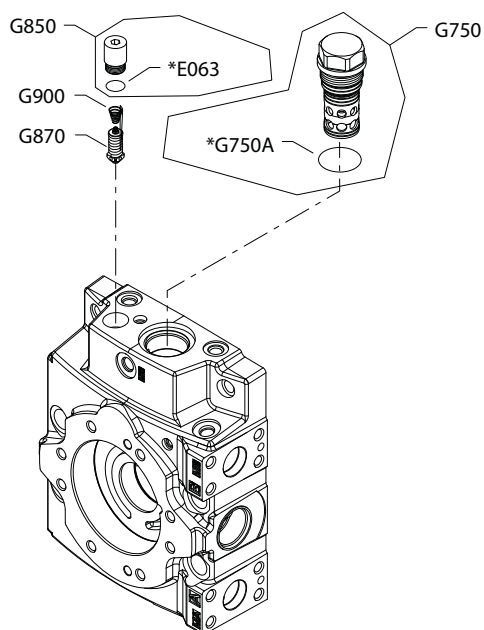
Order code: GAD

|       |       |  |                       |                                        |   |
|-------|-------|--|-----------------------|----------------------------------------|---|
| G750  | 08-10 |  | 11145639              | ISL valve assembly, 4.4                | 1 |
| G750A | 08-10 |  | 140866                | O-ring                                 | 1 |
| G850  | 08-10 |  | 11126727              | Plug assembly                          | 1 |
| E063  | 08-10 |  | 001131 (9004201-5000) | O-ring                                 | 1 |
| G870  | 08-10 |  | 3103375-0230          | SCR valve assembly, 230 bar [3335 psi] | 1 |
| G900  | 08-10 |  | 4800780               | Spring                                 | 1 |

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

## Charge pressure relief and ISL settings

*Parts configuration*



Generic end cap shown

\* Included in overhaul seal kit Q210

## Charge pressure relief and ISL settings

Order code: GAE

| Item  | Date Begin | Date End | Part Number           | Part Name                              | Qty. per Model/Kit |
|-------|------------|----------|-----------------------|----------------------------------------|--------------------|
| G750  | 08-10      |          | 11145639              | ISL valve assembly, 4.4                | 1                  |
| G750A | 08-10      |          | 140866                | O-ring                                 | 1                  |
| G850  | 08-10      |          | 11126727              | Plug assembly                          | 1                  |
| E063  | 08-10      |          | 001131 (9004201-5000) | O-ring                                 | 1                  |
| G870  | 08-10      |          | 3103375-0250          | SCR valve assembly, 250 bar [3625 psi] | 1                  |
| G900  | 08-10      |          | 4800780               | Spring                                 | 1                  |

Order code: GAU

|       |       |  |          |                                        |   |
|-------|-------|--|----------|----------------------------------------|---|
| G750  | 16-50 |  | 11137581 | ISL valve assembly, 4.4                | 1 |
| G750A | 16-50 |  | 140866   | O-ring                                 | 1 |
| G850  | 16-50 |  | 11126727 | Plug assembly                          | 1 |
| G870  | 16-50 |  | 11165436 | SCR valve assembly, 110 bar [1595 psi] | 1 |
| G900  | 16-50 |  | 4800780  | Spring                                 | 1 |

Order code: Y4E

|       |       |  |                       |                                        |   |
|-------|-------|--|-----------------------|----------------------------------------|---|
| G750  | 15-18 |  | 11137759              | ISL valve assembly, 4.4                | 1 |
| G750A | 15-18 |  | 140866                | O-ring                                 | 1 |
| G850  | 15-18 |  | 11126727              | Plug assembly                          | 1 |
| E063  | 15-18 |  | 001131 (9004201-5000) | O-ring                                 | 1 |
| G870  | 15-18 |  | 3103375-0140          | SCR valve assembly, 140 bar [2030 psi] | 1 |
| G900  | 15-18 |  | 4800780               | Spring                                 | 1 |

## Overhaul seal kit

### H1P 115/130cc seal kit

| Item  | Date Begin | Date End | Part Number           | Part Name                                                 | Qty. per Model/Kit |
|-------|------------|----------|-----------------------|-----------------------------------------------------------|--------------------|
| Q210  | 08-10      |          | 11178088              | Overhaul seal kit, H1P 115/130cc                          | 1                  |
| D060  | 08-10      |          | 612291 (9003508-0008) | Seal nut                                                  | 1                  |
| D150  | 07-01      |          | 11227209              | Control gasket ( <a href="#">SB-2016-033</a> on page 203) | 1                  |
| D611  | 07-01      | 21-12    | 11066774              | O-ring ( <a href="#">SB-2021-014</a> on page 210)         | 2                  |
| D611  | 21-13      |          | 11225703              | O-ring                                                    | 2                  |
| D612  | 07-01      | 21-12    | 11003126              | Plug ( <a href="#">SB-2021-014</a> on page 210)           | 2                  |
| D612  | 21-13      |          | 11223708              | Plug                                                      | 2                  |
| E020  | 08-10      |          | 11075557              | O-ring                                                    | 2                  |
| E025  | 08-10      |          | 11075556              | Piston ring                                               | 2                  |
| E250  | 08-10      |          | 071845 (9004104-1510) | O-ring                                                    | 2                  |
| E500  | 08-10      |          | 649822                | Seal nut                                                  | 1                  |
| E550  | 08-10      |          | 649822                | Seal nut                                                  | 1                  |
| G150  | 08-10      |          | 11001894              | End cap gasket                                            | 1                  |
| G750A | 08-10      |          | 140866                | O-ring                                                    | 1                  |
| E063  | 08-10      |          | 001131 (9004201-5000) | O-ring                                                    | 1                  |
| J250  | 07-29      |          | 11024711              | Lip seal                                                  | 1                  |
| K150  | 10-39      |          | 11002236              | Adapter seal ( <a href="#">SB-2011-002</a> on page 189)   | 1                  |
| K150  | 10-39      |          | 11125012              | Adapter seal                                              | 1                  |
| L022  | 08-10      |          | 504207                | O-ring                                                    | 2                  |
| L024  | 08-10      |          | 336826                | Seal nut, M10 x 1                                         | 2                  |
| L060  | 08-10      |          | 365023                | O-ring                                                    | 2                  |
| L068  | 08-10      |          | 11052201              | O-ring                                                    | 2                  |
| QD26  | 08-10      |          | 11001952              | O-ring                                                    | 2                  |
| QD81  | 08-10      |          | 11059551              | O-ring                                                    | 1                  |
| QD81  | 08-10      |          | 11152257              | O-ring                                                    | 1                  |
| QD751 | 08-10      |          | 001131 (9004201-5000) | O-ring                                                    | 1                  |
| QH131 | 08-10      |          | 11013397              | O-ring                                                    | 1                  |
| S300  | 08-10      |          | 11126778              | Seal ring                                                 | 2                  |
| T035  | 08-10      |          | 761148                | O-ring                                                    | 1                  |
| T045  | 08-10      |          | 314500 (9004100-1250) | O-ring                                                    | 1                  |
| T350  | 08-10      |          | 140737                | Filter adapter gasket                                     | 1                  |
| T650  | 08-10      |          | 140737                | Filter adapter gasket                                     | 1                  |
| V022  | 10-43      |          | 066159                | Seal nut, M12 ( <a href="#">SB-2016-004</a> on page 200)  | 1                  |
| V022  | 08-10      |          | 612291 (9003508-0008) | Seal nut, M8                                              | 1                  |
| V024  | 08-10      |          | 001149 (9004201-6200) | O-ring                                                    | 1                  |

## Service bulletin

### SB-2006-030

#### Products affected

#### Subject

Control, servo piston and housing

#### Description

As a product improvement, Danfoss made changes to the H1 147 and 165cc pumps. The following parts are affected by this change; control, servo piston, and pump housing.

**Control:** The old control had five mounting screws and the control pilot supply screen was between the pump housing and the end cap. The new control uses six mounting screws and has the supply screen integrated into the control. The new and old controls are not interchangeable. The old control will be available for a period of time.

**Pump housing:** The old pump housing was designed to accept the original five screw control. The old pump housing was also machined to have the control pilot supply screen in it. The new pump housing was designed to accept the new six mounting screw control. The supply screen has been moved to the control. Also, the new pump housing was changed slightly to accept the new servo piston assembly. The new and old pump housings are not interchangeable. The old pump housing is no longer available for service.

**Servo piston assembly:** The servo piston assembly has new spring seats. The new servo piston assembly can be used in the new and old housings. The old servo piston assembly can only be used in the old housings. The old servo piston assembly is obsolete and no longer available for service.

**Service kit:** A service kit has been created to service the older models requiring a new housing. This kit includes; the new control and screws, new pump housing, new servo piston assembly, and a pump overhaul seal kit.

#### Models affected

All H1 147 and 165cc pumps

#### Serial numbers

This change became effective at serial number N-07-01-xxxxx.

#### Part numbers affected

| Description           | Old part number | New part number      | Servo piston type      |
|-----------------------|-----------------|----------------------|------------------------|
| Housing (Class)       | 11005477        | 11019991             | Nested spring assembly |
| Housing (standard)    | 11005069        | According to control | Standard assembly      |
| EDC 12V (A2) Kit      | 11004693        | 11019987             | Standard assembly      |
| EDC 24V (A3) Kit      | 11004695        | 11019988             | Standard assembly      |
| EDC 12V Mor (A4) Kit  | 11004697        | 11019989             | Standard assembly      |
| EDC 24V Mor (A5) Kit  | 11004699        | 11019990             | Standard assembly      |
| EDC 12V Corf (A6) Kit | 11004701        | 11019991             | Nested spring assembly |

| Description                            | Old part number | New part number |
|----------------------------------------|-----------------|-----------------|
| Servo piston assembly (standard)       | 140500          | 11005250        |
| Servo piston assembly (nested springs) | 11000580        | 11005249        |

Service bulletin

Parts disposition

Interchangeable

SB-2007-052

Products affected

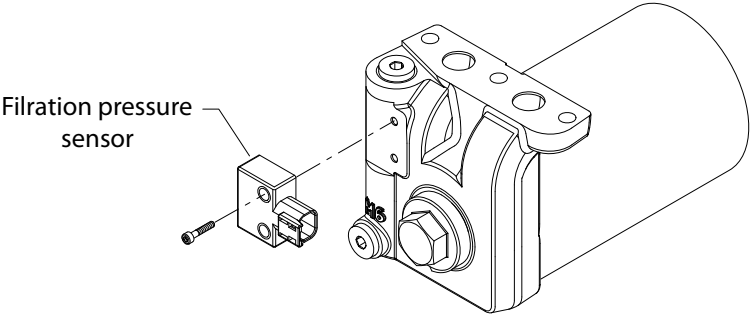
H1 pumps

Subject

Filtration pressure sensor

Description

As a product improvement, Danfoss has changed the filtration pressure sensor. The new filtration pressure sensor is completely interchangeable with the old sensor. The old sensor will be obsoleted.



Models affected

All H1 pumps with an "M" or "S" filtration option

Serial numbers affected

This change became effective at serial number N-07-43-xxxxx

Part numbers affected

| Description                | Old part number | new part number |
|----------------------------|-----------------|-----------------|
| Filtration sensor position | 140355          | 11031852        |
| Filtration sensor position | 11000357        | 11031853        |

Parts disposition

Interchangeable, use parts in stock

## Service bulletin

### SB-2009-046

#### Products affected

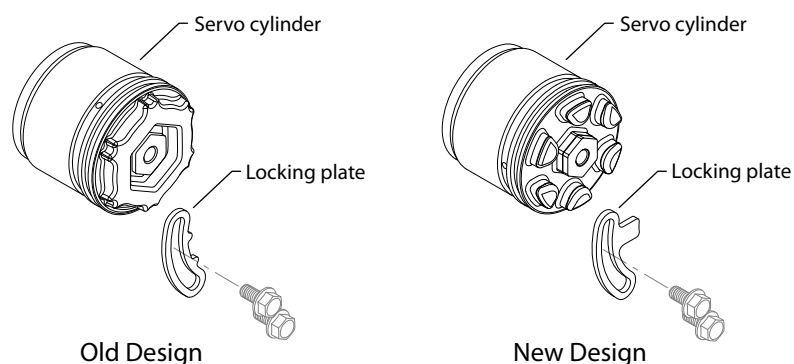
H1 78, 115/130 and 147/165cc pumps

#### Subject

Servo cylinder and locking plate design change

#### Description

As a product improvement, Danfoss has changed the servo cylinder and locking plate. The new servo cylinder has a larger locking area to allow for a larger locking plate tab for added strength. The old servo cylinders are obsolete and no longer available for service. The old locking plate will remain available for repair. The new and old designs are interchangeable, if both parts are replaced together.



#### Models affected

All H1 78, 115/130 and 147/165cc pumps

#### Serial numbers

This change became effective at serial number

- N-10-29-xxxxx (21 July 2010)
- N-10-35-xxxxx (30 August 2010)
- N-10-28-xxxxx. (15 July 2010)

#### Part numbers affected

| Description                | Frame size   | Old part number | New part number |
|----------------------------|--------------|-----------------|-----------------|
| Servo cylinder, no-adjust  | 78 cc        | 140853          | 11089749        |
| Servo cylinder, adjustable | 78 cc        | 140852          | 11089779        |
| Locking plate              | 78 cc        | 140513          | 11033382        |
| Servo cylinder, no-adjust  | 115 - 130 cc | 141224          | 11089773        |
| Servo cylinder, adjustable | 115 - 130 cc | 141225          | 11089772        |
| Locking plate              | 115 - 130 cc | 140513          | 11033382        |
| Servo cylinder, no-adjust  | 147 - 165 cc | 140493          | 11089775        |
| Servo cylinder, adjustable | 147 - 165 cc | 140309          | 11089774        |
| Locking plate              | 147 - 165 cc | 140513          | 11033382        |

## Service bulletin

### Parts disposition

Interchangeable only if both parts are replaced together

## Service bulletin

**SB-2009-068**

### Products affected

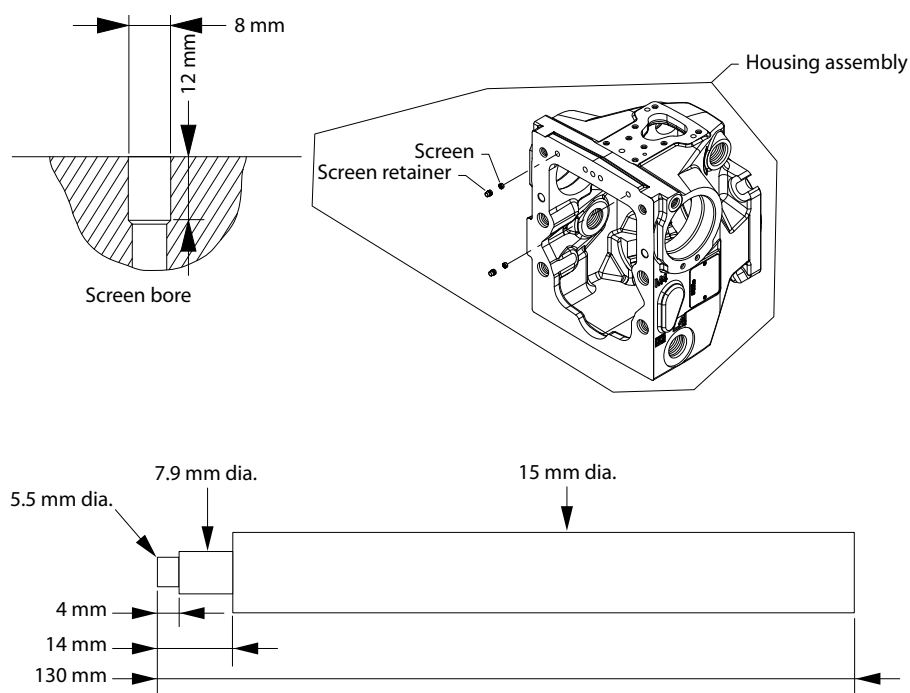
H1 78, 115/130 and 147/165 cc pumps

### Subject

Change to the design of servo screen retention in pump housing

### Description

Danfoss has made a change to the way the servo passage screens are retained in the pump housing of H1- 78 cc, 115/130 cc and 147/165 cc pumps. The screens in the past were retained only by friction fit. The screens are now pressed into the bores to the step. The retainers are then pressed in the bore against the screens with a maximum force of 3000 Newtons. The retainers must be against the screens so no movement of the screens occurs. A tool for installation of the retainer can be made with the dimensions shown below. The bores in the housing for the screens have been cut deeper to allow for the length of the retainers. The housings sold for service parts have changed to a housing assembly, with the screens and retainers installed. The old housings can be reworked to allow for the use of the new retainers by boring the 8mm bores for the screen and retainer 12mm deep from the gasket surface to the step that the screen sets on. The screen part number remains the same.



### Models affected

All H1 78, 115/130 and 147/165cc pump

### Serial numbers

This change became effective at serial number

- H1P147/165 (G): N09-25-XXX59
- H1P147/165 (Z): N09-26-XXX36
- H1P115/130 (G): N09-24-X4341

## Service bulletin

- H1P115/130 (L): N10-04-X3743
- H1P078 (H): N09-25-00081
- H1P078 (K): N09-29-03540

### Part numbers affected

| Frame size                          | Old housing part number | Housing assembly |
|-------------------------------------|-------------------------|------------------|
| 147/165 cc (G)                      | 11005012                | 11005677         |
| 147/165 cc w/1 1/16 drain ports (Z) | 11004991                | 11005674         |
| 115/130 cc (G)                      | 11002342                | 11005070         |
| 115/130 cc w/speed sensing (L)      | 11030117                | 11030118         |
| 78 cc (H)                           | 140904                  | 11005071         |
| 78 cc w/speed sensing (K)           | 11024418                | 11011752         |

### Parts disposition

- Interchangeable
- Use parts in stock
- Order replacement parts
- Rework housing parts in stock
- Revise existing part orders

## Service bulletin

### SB-2011-002

#### Products affected

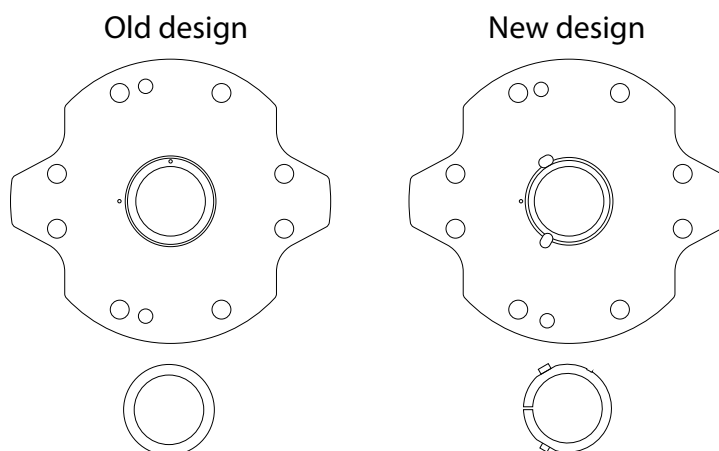
H1 115-165cc pumps

#### Subject

Adapter and thrust plate

#### Description

As a product improvement Danfoss has changed the adapter plate and thrust plate design. In case you have to replace either the adapter or the thrust plate you need to order the appropriate Repair Service Kit as per the attached cross reference list because the old adapter and thrust plate design will no longer be provided. The thrust plate is not interchangeable to the adapter.



#### Models affected

H1 115-165cc pumps

#### Serial numbers affected

This change became effective at:

- SAE -NN N-10-44-xxxxx (Nov 2010)
- SAE -A N-11-05-xxxxx (Feb 2011)
- SAE -B N-11-14-xxxxx (April 2011)
- SAE -B-B N-10-44-xxxxx (Nov 2010)
- SAE -C N-10-48-xxxxx (Dec 2010)
- SAE -D N-10-46-xxxxx (Nov 2010)
- SAE -SN N-11-22-xxxxx (June 2011)

#### Part numbers affected

| Description        | Old number | new number | Service kit (adapter and thrust washer) |
|--------------------|------------|------------|-----------------------------------------|
| Thrust washer      | 140973     | 11001182   | -                                       |
| Adapter seal       | 140703     | 11002236   | -                                       |
| Adapter SAE (NN)   | 140969     | 11087614   | 11086819                                |
| Adapter SAE A (H1) | 140694     | 11087615   | 11086818                                |

## Service bulletin

| Description        | Old number | new number | Service kit (adapter and thrust washer) |
|--------------------|------------|------------|-----------------------------------------|
| Adapter SAE A (H2) | 140694     | 11087615   | 11086818                                |
| Adapter SAE B (H3) | 140696     | 11087617   | 11086817                                |
| Adapter SAE D (H4) | 141012     | 11023751   | 11086882                                |
| Adapter SAE B (H5) | 140696     | 11087617   | 11086817                                |
| Adapter SAE C (H6) | 140698     | 11087618   | 11086816                                |
| Adapter SAE C (SN) | 11081188   | 11086770   | -                                       |

### Mounting kit

| Description       | Old number | new number |
|-------------------|------------|------------|
| Mounting Kit (NN) | 11079317   | 11083499   |
| Mounting Kit (H1) | 11079318   | 11083494   |
| Mounting Kit (H2) | 11079319   | 11083495   |
| Mounting Kit (H3) | 11079320   | 11083496   |
| Mounting Kit (H4) | 11069133   | 11083497   |
| Mounting Kit (H5) | 11079321   | 11083493   |
| Mounting Kit (H6) | 11079322   | 11083498   |
| Mounting Kit (SN) | 11071702   | 11088769   |

### Parts disposition

Non-interchangeable, use parts in stock

## Service bulletin

### SB-2011-022

#### Products affected

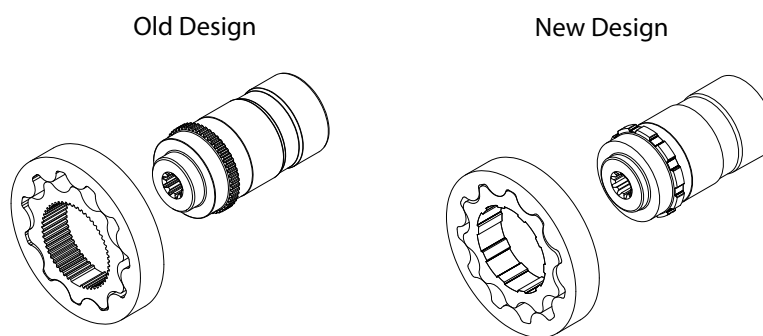
H1 115/130cc pumps

#### Subject

Gerotor and charge pump shaft design change

#### Description

As a product improvement and part commonality between models Danfoss is changing the charge pump shaft and gerotor set design. The inner and outer spline of the charge pump shaft and consequently the inner spline of the inner gerotor wheel are affected by this change.



#### Models affected

H1 115/130cc pumps

#### Serial numbers

This change became effective at N-10-36-xxxxx (6 September 2010)

#### Part numbers affected

| Code | Description                   | Old part number | New part number |
|------|-------------------------------|-----------------|-----------------|
| H1   | Charge pump shaft, 11T, 16/32 | 11002333        | 11064258        |
| H2   | Charge pump shaft, 9T, 16/32  | 11002231        | 11064260        |
| H3   | Charge pump shaft, 13T, 16/32 | 11002232        | 11064272        |
| H4   | Charge pump shaft, 13T, 8/16  | 11002234        | 11045667        |
| H5   | Charge pump shaft, 15T, 16/32 | 11002235        | 11064275        |
| H6   | Charge pump shaft, 14T, 12/24 | 11002233        | 11064276        |
| NN   | Charge pump shaft, 9T, 16/32  | 11002231        | 11064260        |
| S1   | Charge pump shaft, 14T, 12/24 | 11002233        | 11064276        |
| A    | Charge pump kit, 26 cc        | 11004702        | 11075695        |
| L    | Charge pump kit, 34 cc        | 11004704        | 11069135        |

#### Parts disposition

Interchangeable only if both parts are replaced together

Use parts in stock; old and new design cannot be mixed

## Service bulletin

**SB-2011-039**

### Products affected

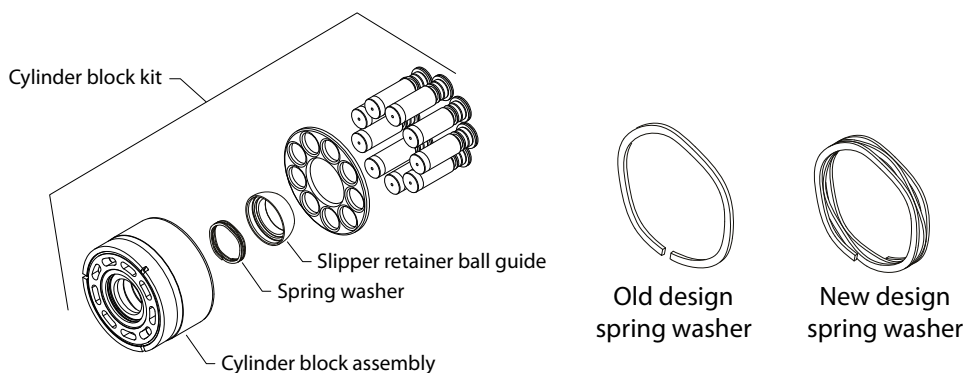
H1 115/130cc pumps

### Subject

Cylinder block spring washer change

### Description

The new parts are not interchangeable with the old parts, and the old parts are no longer available. The cylinder block kit part number has not changed. If any of the old parts are needed, a new cylinder block kit must be used.



### Models affected

H1 115/130cc pumps

### Serial numbers

This change became effective at serial number

|              |                                   |
|--------------|-----------------------------------|
| 115 cc pumps | N-11-38-xxxxx (20 September 2010) |
| 130 cc pumps | N-11-35-xxxxx. (29 August 2010)   |

### Part numbers affected

| Description                                | Old part number | New part number |
|--------------------------------------------|-----------------|-----------------|
| Slipper retainer ball guide                | 141253          | 11121504        |
| Spring washer                              | 141276          | 11063561        |
| Cylinder block assembly, 115cc             | -               | 11124490        |
| Cylinder block assembly, 115cc, speed ring | -               | 11124491        |
| Cylinder block assembly, 130cc             | -               | 11126003        |
| Cylinder block assembly, 130cc, speed ring | -               | 11124493        |
| Cylinder block kit, 115cc                  | 141393/P        | no change       |
| Cylinder block assembly, 115cc, speed ring | 11030115        | no change       |

### Service bulletin

| Description                                   | Old part number | New part number |
|-----------------------------------------------|-----------------|-----------------|
| Cylinder block assembly, 130cc                | 141252/P        | no change       |
| Cylinder block assembly, 130cc,<br>speed ring | 11030173        | no change       |

### Parts disposition

Interchangeable only if both parts are replaced together

## Service bulletin

### SB-2012-026

#### Products affected

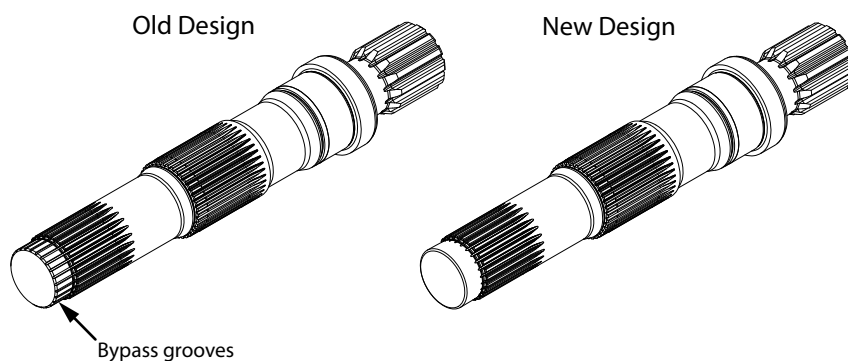
H1 115/130cc pumps

#### Subject

Shaft change

#### Description

Danfoss has removed the bypass on the end of the shaft of 115/130cc H1 pumps. The old shaft allowed unfiltered oil from the pump case into the charge pump and the high pressure loop. The bypass feature is now in the end cap. This change is not interchangeable with EPF end caps that have external remote filtration built prior to 10-47-xxxxx (16 November 2010). The old design shafts are obsolete and no longer available.



#### Models affected

H1 115/130cc pumps

#### Serial numbers

See below

#### Part numbers affected

| Description         | Old part number | New part number | Effective date               |
|---------------------|-----------------|-----------------|------------------------------|
| Shaft, tapered (F3) | 11022062        | 11119637        | N12-30-xxxxx (19 Sept. 2012) |
| Shaft, 27T (G2)     | 11001965        | 11123698        | N12-39-xxxxx (25 Sept. 2012) |
| Shaft, 13T (G3)     | 11001966        | 11119634        | N12-37-xxxxx (22 Oct. 2012)  |

#### Parts disposition

Non-interchangeable

Use parts in stock

## Service bulletin

### SB-2013-003

#### Products affected

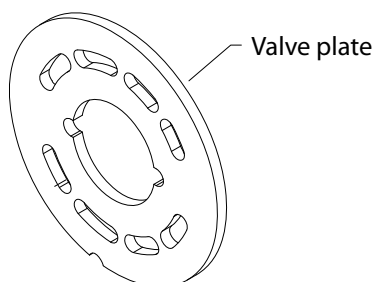
H1 pumps

#### Subject

Valve plate change

#### Description

As part of continuing product improvement efforts, Danfoss is implementing a design change to the valve plates. The new valve plates are interchangeable with old valve plate. The new design reduces cavitation wear to the valve plate. The old valve plate will become obsolete.



#### Models affected

H1 69 through 165cc pumps

#### Serial numbers

See below

#### Part numbers affected

| Description        | Old part number | New part number | Effective date              |
|--------------------|-----------------|-----------------|-----------------------------|
| 069/078 R CP17-1.5 | 11075607        | 11125564        | N-13-05-xxxxx (31 Jan 2013) |
| 069/078 R CP17+2.5 | 11076863        | 11125563        | N-13-05-xxxxx (31 Jan 2013) |
| 069/078 L CP17+2.5 | 11076865        | 11125551        | N-13-05-xxxxx (31 Jan 2013) |
| 069/078 L CP17-1.5 | 11076866        | 11125562        | N-13-05-xxxxx (31 Jan 2013) |
| 089/100 R CP17-1.5 | 11077025        | 11125566        | N-13-05-xxxxx (31 Jan 2013) |
| 089/100 R CP17+2.5 | 11077027        | 11125567        | N-12-50-xxxxx (12 Dec 2012) |
| 089/100 L CP17-1.5 | 11077026        | 11125568        | N-13-05-xxxxx (31 Jan 2013) |
| 089/100 L CP17+2.5 | 11077028        | 11125565        | N-12-49-xxxxx (5 Dec 2012)  |
| 115/130 R CP17+2.5 | 11077029        | 11125572        | N-13-05-xxxxx (25 Jan 2013) |
| 115/130 R CP17-1.5 | 11077031        | 11123707        | N-13-05-xxxxx (31 Jan 2013) |

## Service bulletin

| Description             | Old part number | New part number | Effective date              |
|-------------------------|-----------------|-----------------|-----------------------------|
| 115/130 L CP17+2.5      | 11077030        | 11125569        | N-13-05-xxxxx (31 Jan 2013) |
| 115/130 L CP17-1.5      | 11077062        | 11125571        | N-13-03-xxxxx (16 Jan 2013) |
| 147/165 R CP17-1.5      | 11077063        | 11123708        | N-13-05-xxxxx (31 Jan 2013) |
| 147/165 R CP17+2.5      | 11077065        | 11125576        | N-13-05-xxxxx (31 Jan 2013) |
| 147/165 R (larger dia.) | 11093335        | 11126989        | N-13-05-xxxxx (31 Jan 2013) |
| 147/165 L CP17-1.5      | 11077064        | 11125575        | N-13-03-xxxxx (14 Jan 2013) |
| 147/165 L CP17+2.5      | 11077066        | 11125574        | N-13-05-xxxxx (31 Jan 2013) |

### Parts disposition

- Interchangeable
- Use parts in stock

**Service bulletin**

**SB-2013-019**

**Products affected**

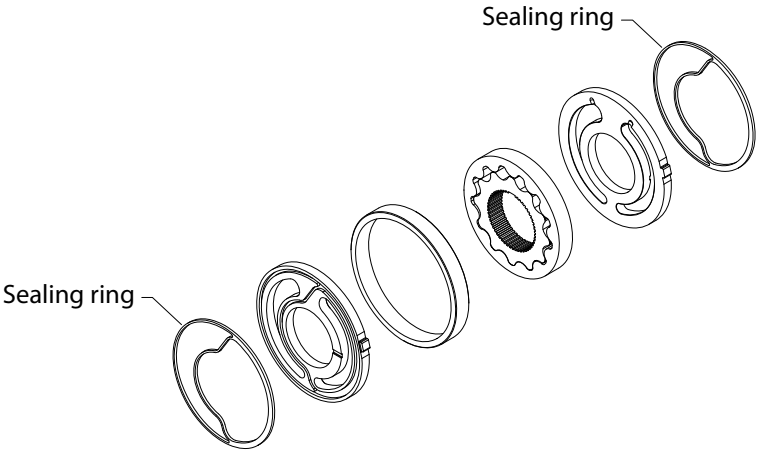
H1 pumps

**Subject**

Charge pump seal

**Description**

As a product improvement, Danfoss has changed the material on the sealing ring in the charge pump port plates of H1 pumps. The part number was changed for tracking purposes because the parts look similar. The old part numbers will become obsolete and no longer available as service parts.



**Models affected**

H1 pumps

**Serial numbers**

Part 11126778 took effect at serial number: N-13-23-00773 (04June2013)

Part 11126777 took effect at serial number: N-13-22-25411 (28 May2013)

**Part numbers affected**

| Description                      | Old part number | New part number |
|----------------------------------|-----------------|-----------------|
| Seal Ring, H1P115-165 port plate | 11008462        | 11126778        |
| Seal Ring, H1P045-100 port plate | 11009457        | 11126777        |

**Parts disposition**

Interchangeable

Scrap used parts

Service bulletin

SB-2015-035

Products affected

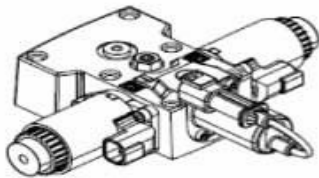
H1 pumps

Subject

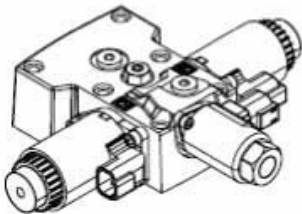
Control override valve service kit change

Description

Service kits for Control Override Valves (CCO/COR) on H1 pumps have been reconfigured to include a new control option. There has been a connector change to the coil. The new connector is a DEUTSCH key-lock pin style ( W2SC). The old solenoid has a wire lead with a standard DEUTSCH connector (W2P).



Old style control (W2P connector)



New style control (W2SC connector)

Each new service kit comes with an adapter cable which has a W2P and a W2SC on each end.



Adapter Cable

New service kit numbers have been issued for the new control option. The old service kits are no longer available. Reference PUB HY2014-175.

|                                        |                                                                                     |
|----------------------------------------|-------------------------------------------------------------------------------------|
| <b>EDC, 12v DEUTSCH connector, COR</b> | Before Change: H1-P-100-L-A- <b>A6</b> -C2-N-D8-H-F1-H5-L-42-L-42-D-P-24-PN-NNN-NNN |
|                                        | After Change: H1-P-100-L-A- <b>S6</b> -C2-N-D8-H-F1-H5-L-42-L-42-D-P-24-PN-NNN-NNN  |
| <b>EDC, 24v DEUTSCH connector, CCO</b> | Before Change: H1-P-100-R-A- <b>C1</b> -C2-N-D6-H-G9-H2-L-38-L-38-M-L-24-PN-NNN-NNN |
|                                        | After Change: H1-P-100-R-A- <b>E8</b> -C2-N-D6-H-G9-H2-L-38-L-38-M-L-24-PN-NNN-NNN  |

Models affected

H1 pumps

## Service bulletin

### Serial numbers

No serial numbers affected. The new option began with the new part number.

### Part numbers affected

| Description                         | Old control option | Old number | New control option | New number |
|-------------------------------------|--------------------|------------|--------------------|------------|
| SVC KIT-EDC, H1P 12V DT04 FAST CORF | A6                 | 11019736   | S6                 | 11152574   |
| SVC KIT-EDC, H1P 12V DT04 CCO       | C5                 | 11086382   | E7                 | 11147471   |
| SVC KIT-EDC, H1P 12V DT04 CCO KEY-C | D4                 | 11131492   | E7                 | 11147471   |
| SVC KIT-EDC, H1P 24V DT04 CCO       | C6                 | 11086383   | E8                 | 11147472   |
| SVC KIT-EDC, H1P 24V DT04 FAST CORF | C1                 | 11037176   | E8                 | 11147472   |
| SVC KIT-EDC, H1P 095 12V CCO        |                    |            | E5                 | 11147422   |
| SVC KIT-EDC, H1P 095 24V CCO        |                    |            | E6                 | 11147423   |
| CABLE-ADAPTER (W2SC/ W2SC)          |                    |            |                    | 11153287   |
| CABLE-ADAPTER (W2SC/ W2P)           |                    |            |                    | 11150437   |

Control options S6, E7 and E8 contain parts for the new style connector. The attached cable adaptor W2P / W2SC supplied in the service kit is necessary to replace the old control.

### Parts disposition

Non-interchangeable

## Service bulletin

**SB-2016-004**

### Products affected

H1 115/130cc pumps

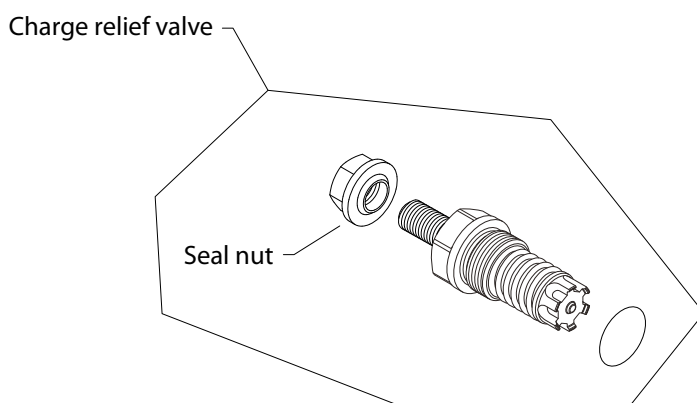
### Subject

Charge relief valve

### Description

A design change has been made to the charge pressure relief valve on all 115/130cc H1 pumps. The charge relief poppet drain hole has been relocated to the side and the adjusting set screw and seal lock nut have changed from M8 to M12 threading.

The old charge relief valve is interchangeable, but the new charge relief valve is not. Components within the assemblies are not interchangeable.



### Models affected

H1 115/130cc pumps

### Serial numbers

The STD end cap change became effective at serial number N-15-01-xxxxx (03 Jan 2015)

The ISL end cap change became effective at serial number N-15-13-xxxxx (30 March 2015)

### Part numbers affected

| Description                                | Old part number       | New part number |
|--------------------------------------------|-----------------------|-----------------|
| Charge pressure relief valve kit 18-22 bar | 11004711              | 11137578        |
| Charge pressure relief valve kit 24-34 bar | 11017127              | 11137579        |
| Seal nut                                   | 612291 (9003508-0008) | 066159          |

### Parts disposition

Non-interchangeable

## Service bulletin

**SB-2016-005**

### Products affected

H1 115/130cc pumps

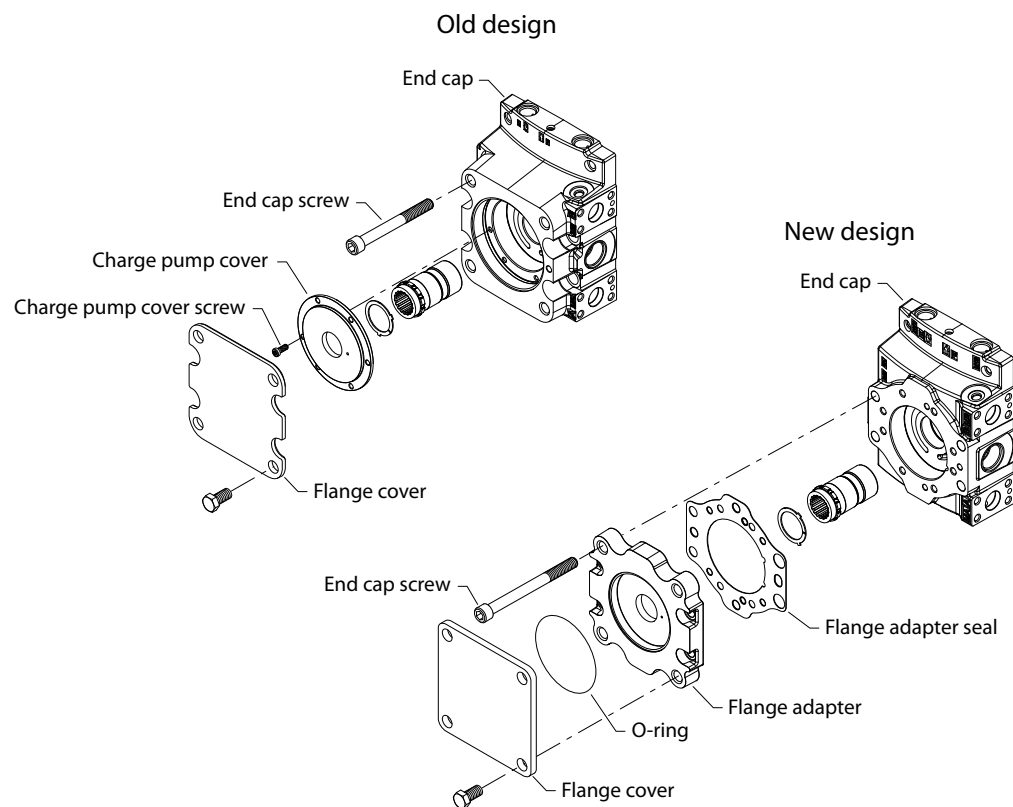
### Subject

End cap

### Description

The SAE-D end cap on 115/130cc H1 pumps has been changed to a standard end cap with a SAE-D flange adapter. The SAE-D flange is now bolted to the standard end cap. The thread depth in the housing was deepened to allow for the standard end cap screws (130mm).

The integrated SAE-D end cap has been obsoleted and the end caps are not interchangeable.



### Models affected

H1 115/130cc pumps

### Serial numbers

See below

## Service bulletin

### Part numbers affected

| Description                                 | Old part number | New part number | Effective date |
|---------------------------------------------|-----------------|-----------------|----------------|
| End cap assembly, 115/130L, SAE-D (D3)      | 11003644        | 11003643        | 9/10/2014      |
| End cap assembly, 115/130R, SAE-D (D3)      | 11003666        | 11003665        | 1/09/2015      |
| End cap assembly, 115/130L, SAE-D, ISL (D4) | 11003650        | 11003650        | 1/09/2015      |
| End cap assembly, 115/130R, SAE-D, ISL (D4) | 11003672        | 11003672        | 1/09/2015      |
| End cap assembly, 115/130L, SAE-D (D6)      | 11003648        | 11003645        | 10/13/2014     |
| End cap assembly, 115/130R, SAE-D (D6)      | 11003670        | 11003667        | 10/23/2014     |
| End cap assembly, 115/130L, SAE-D (D8)      | 11003646        | 11003647        | 9/11/2014      |
| End cap assembly, 115/130R, SAE-D (D8)      | 11003668        | 11003669        | 10/20/2014     |
| End cap assembly, 115/130L, SAE-D, ISL (E8) | 11101861        | 11003671        | 2/13/2015      |
| End cap assembly, 115/130R, SAE-D, ISL (E8) | 11003649        | 11003649        | 2/1/2015       |
| End cap screw                               | 519508          | 5000676         | N/A            |
| Adapter, H1P115/130 SAE-D (H4)              | 11109108        | 11109108        | 9/10/2014      |
| Adapter seal                                | 11125012        | 11125012        | N/A            |

### Parts disposition

Non-interchangeable

# Service bulletin

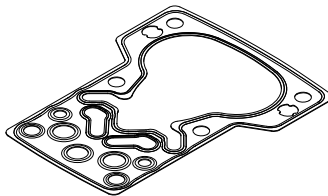
**SB-2016-033**

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

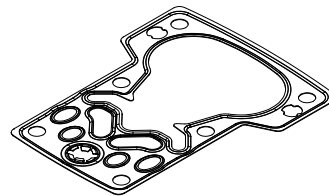
**Subject** Control Gasket

**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-2018-006**

**Products affected**

H1 115/130cc pumps

**Subject**

Shaft and cylinder block kit change

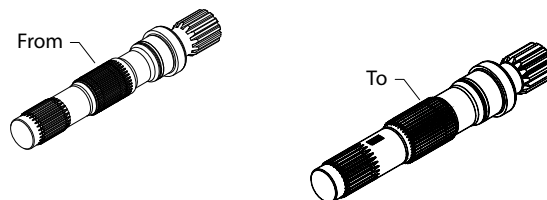
**Description**

Danfoss has made design changes to the main shaft and the slipper retainer ball guide in the H1 115/130cc pumps cylinder block kit. The internal block splines on the shaft are now machined longer and the slipper retainer ball guide is now splined.

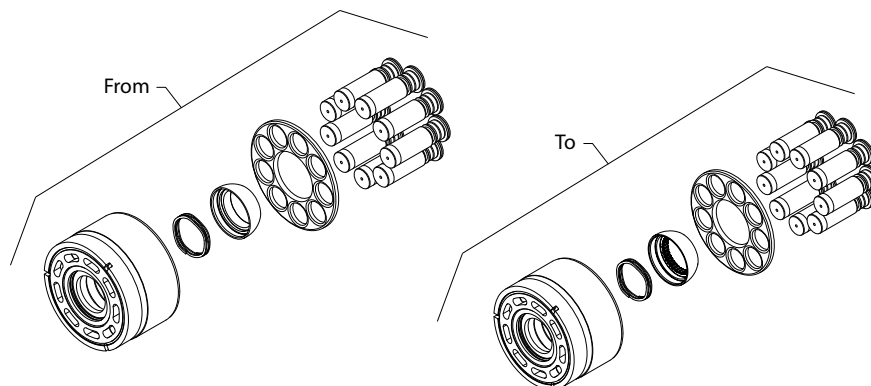
The new shaft may be substituted for the old shaft, but the old shaft cannot be substituted for the new shaft. The old shaft will be obsolete.

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 obsolete.

**Shaft Change:**



**Cylinder Block Kit Change:**



**Models affected**

H1 115/130cc pumps

## Service bulletin

### Serial numbers

Shaft change became effective at November 6, 2017 (N1745xxxxx)

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

### Part numbers affected

| Description                            | Old Part Number | New Part Number |
|----------------------------------------|-----------------|-----------------|
| Shaft, H1P115-130 13T 8/16             | 11119634        | 11176728        |
| Shaft, H1P115-130 TAPER 44-3 Keyway    | 11119637        | 11179440        |
| Shaft, H1P115-130 27T 16/32            | 11123698        | 11179438        |
| Shaft, H1P115-130 21T DIN5480          | 11135523        | 11179441        |
| Shaft, H1P115-130 18T DIN 5480         | 11170708        | 11179439        |
| Shaft, H1P115-130 13T 8/16 VCP         | 11170711        | 11179207        |
| Kit-Cylinder-Block H1P130 RIF          | 11171841        | 11190004        |
| Kit-Cylinder-Block H1P115 RIF          | 11177722        | 11190003        |
| Kit-Cylinder-Block H1P115              | 141393/P        | 11190003        |
| Kit-Cylinder-Block H1P130              | 141252/P        | 11190004        |
| Kit-Cylinder-Block H1P115 Speed Sensor | 11030115        | 11191005        |
| Kit-Cylinder-Block H1P130 Speed Sensor | 11030173        | 11191006        |
| Guide-Slipper Retainer, H1P115-130     | 11121504        | 11139801        |

### Parts disposition

Shaft is interchangeable- new to old

Cylinder block kit is non-interchangeable

Slipper retainer ball guide is non-interchangeable

## Service bulletin

### SB-2018-010

#### Products affected

H1 controls

#### subject

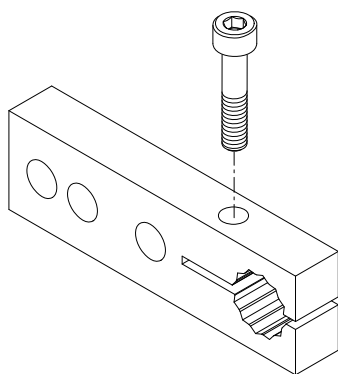
Manual handle and bolt design change

#### Description

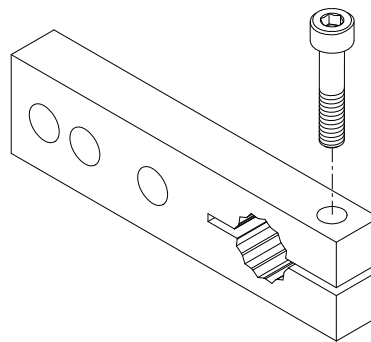
Danfoss has changed the manual handle and screw on all manual displacement controls used on 45/53cc, 60/68cc, 69/78cc, 89/100cc, 115/130cc, 147/165cc and 210/250cc H1 pumps as a product improvement.

The tension screw for the handle has been moved to the outer edge of the part to increase the clamping capacity onto the shaft. The screw has changed from a grade 12.9 to 10.8, changing the torque to 9 Nm.

The new parts are interchangeable with the old parts. The old parts are not interchangeable with the new parts due to the clamp load of the part to the shaft.



Old control handle



New control handle

#### Models affected

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

#### Serial numbers

This change became effective on January 31, 2018

#### Part numbers affected

| Description | Old number | New number |
|-------------|------------|------------|
| Screw       | 041160     | 11173701   |
| Handle      | 11113513   | 11185938   |

#### Parts disposition

Non-interchangeable (clamp load)

## Service bulletin

**SB-2018-025**

### Products affected

H1 pumps

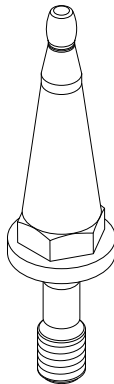
### Subject

Swashplate feedback link

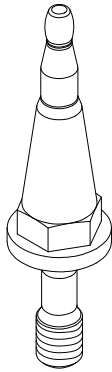
### Description

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 obsolete.



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

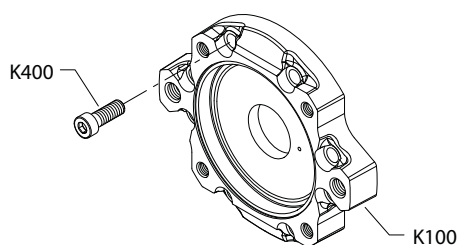
#### Subject

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

### SB-2020-029

#### Products affected

H1 pumps and tandems

#### Subject

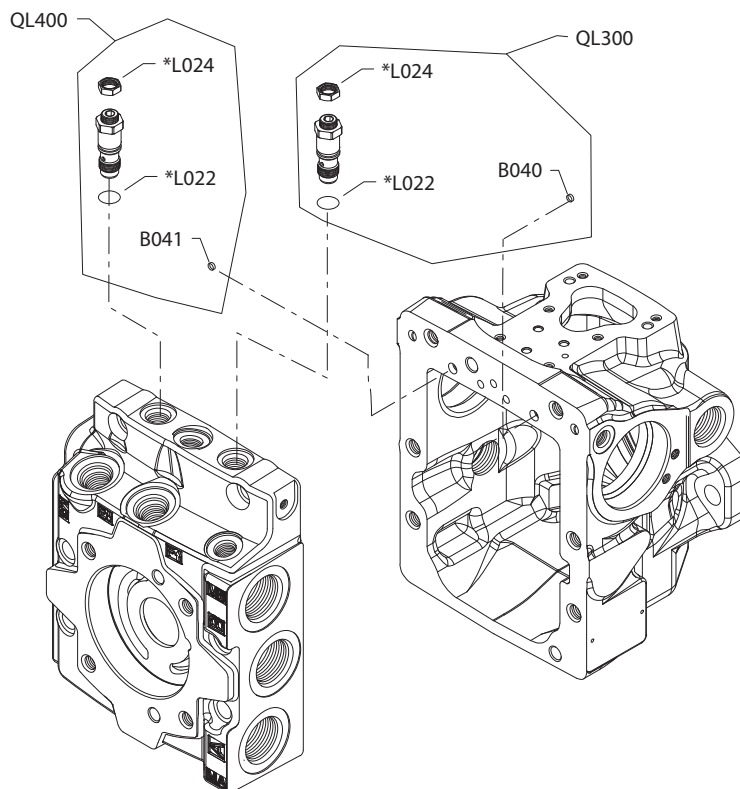
Pressure limiter kits

## Service bulletin

### Description

Danfoss has changed to the pressure limiter service kit. The screens from the housing service kit have been moved to the pressure limiter service kit. The housing assembly (QH125) will continue to come with the screens (and retainers depending on the frame size) pre-assembled.

There is no part number change to the pressure limiter service kit or the housing service kits. In case of conversion of such pumps to those with PL-valves the end cap must be removed to install PL screens and retainers. Please refer to the Repair Instructions.



Generic end cap and housing used to show part location only.

### Models affected

H1 pumps and tandems: 45/53cc; 60/68cc; 89/100cc; 115/130cc; 147/165cc; 210/250cc

### Serial numbers affected

This change became effective at (01 October 2020)

### Part numbers affected

None

### Parts disposition

Not applicable

## Service bulletin

**SB-2021-014**

### Products affected

H1 and MP1 pumps

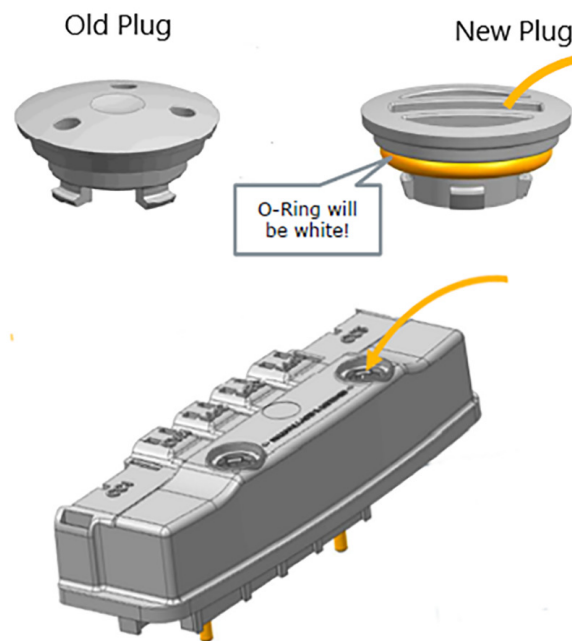
### Subject

Automotive control plug design change

### Description

Danfoss Power Solutions has made a design change to the Automotive Control (AC) plug on H1 and MP1 products. The new O-ring has an improved seal around the plug to the housing. This affects all automotive control service kits (AC).

The new and old plugs are not interchangeable. Overhaul seal kits will contain both the old and new plugs. Automotive Control (AC) service kit part numbers have been changed because the plug is non-interchangeable. The older service kits have been obsoleted.



### Models affected

H1, MP1 Automotive Control (AC)

### Serial numbers affected

- This change became effective at N-21-13-xxxxx 01 April 2021
- This change became effective at S-21-17-xxxxx 28 May 2021
- This change became effective at A-21-18-xxxxx 03 May 2021

## Service bulletin

### Part numbers affected

| Description                             | Old Part Number | New Part Number |
|-----------------------------------------|-----------------|-----------------|
| PLUG-HOUSING-CONTROLLER-AC H1P ASSY     | 11000467        | 11226992        |
| SVC KIT-AC1, GEN1 12V GENERIC D3F       | 11065118        | 11232544        |
| SVC KIT-AC2, GEN1 12V GENERIC D5F       | 11065119        | 11232766        |
| SVC KIT-AC1, GEN1 24V GENERIC D4F       | 11065120        | 11232765        |
| SVC KIT-AC2, GEN1 24V GENERIC D6F       | 11065121        | 11232767        |
| SVC KIT-AC1, GEN3 12V GENERIC D3F       | 11147941        | 11232768        |
| SVC KIT-AC2, GEN3 12V GENERIC D5F       | 11147940        | 11232770        |
| SVC KIT-AC1, GEN3 24V GENERIC D4F       | 11147943        | 11232769        |
| SVC KIT-AC2, GEN3 24V GENERIC D6F       | 11147942        | 11232771        |
| SVC KIT-AC1, GEN3 FLASH 12V GENERIC F1E | 11180761        | 11232792        |
| SVC KIT-AC1, GEN3 FLASH 24V GENERIC F1E | 11180762        | 11232793        |
| SVC KIT-AC2, GEN3 FLASH 12V GENERIC F2J | 11180763        | 11232794        |
| SVC KIT-AC2, GEN3 FLASH 24V GENERIC F2J | 11180765        | 11232795        |
| SVC KIT-AC1, GEN1 HG 12V GENERIC D3F    | 11082509        | 11234305        |
| SVC KIT-AC2, GEN1 HG 12V GENERIC D5F    | 11082522        | 11234306        |
| SVC KIT-AC1, GEN1 HG 24V GENERIC D4F    | 11082524        | 11234307        |
| SVC KIT-AC2, GEN1 HG 24V GENERIC D6F    | 11052526        | 11234308        |
| SVC KIT-AC1, H1P078 GEN1 12V CUST D33   | 11134620        | 11234311        |
| SVC KIT-AC1, GEN1 12V CUST D57          | 11155464        | 11234317        |
| SVC KIT-AC1, H1P078 GEN1 12V CUST D20   | 11160841        | 11234319        |
| SVC KIT-AC1, GEN1 24V CUST D61          | 11193660        | 11234326        |
| SVC KIT-AC2, GEN1 24V GENERIC D5J       | 11195129        | 11234327        |
| SVC KIT-AC2, GEN1 24V CUST C90 C93      | 11195374        | 11234328        |
| SVC KIT-AC1, GEN1 12V CUST D90          | 11193446        | 11234416        |
| SVC KIT-AC1, GEN3 12V CUST D90          | 11198212        | 11234417        |
| SVC KIT-AC1, GEN3 12V CUST D93          | 11201433        | 11234418        |
| SVC KIT-AC1, GEN1 12V CUST D12          | 11201908        | 11234419        |
| SVC KIT-AC, H1P 12V CUST (D92)          | 11235075        | 11235075        |
| SVC KIT-AC1, GEN3 FLASH 12V FA1         | 11239052        | 11281634        |

### Parts disposition

Non-interchangeable

**SB-2024-007**

### Products affected

H1 manual controls

### Subject

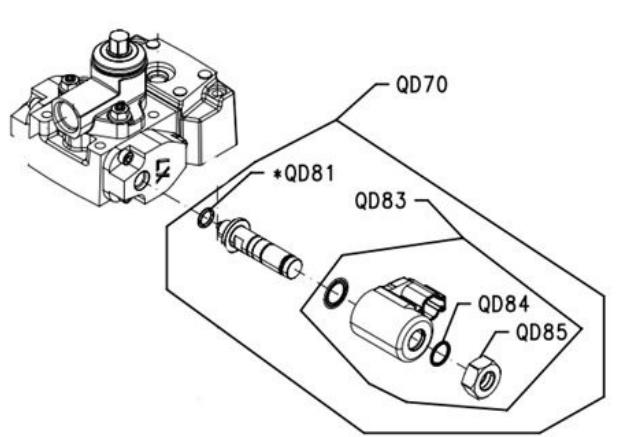
CCO thread

### Description

Danfoss has increased the overall length of the coil and nut by 2mm on the CCO valve assembly. This effect all manual control valves on H1P, H1T and MP1 pumps. Can substitute new solenoid kit for old solenoid kit: CANNOT substitute old service kit for new service kit.

## Service bulletin

The internal parts are not interchangeable from new to old, or old to new. The old solenoid assembly and their internal parts are obsolete and no longer available as service parts.



### Models affected

H1 manual controls

### Serial numbers affected

This change became effective at February 02, 2024

### Part numbers affected

| Description                          | Old part number | New part number | Item # |
|--------------------------------------|-----------------|-----------------|--------|
| SOLENOID, ON/OFF THREAD 12V DT04-2P  | 11129916        | 11231212        | QD70   |
| SOLENOID, ON/OFF THREAD 24V DT04-2P  | 11129917        | 11231213        | QD70   |
| O-RING, HMS151 9.00x1.80 N NBR70     | 11152257        | No Change       | QD81   |
| NUT-HEX, SW22                        | 11140394        | No Change       | QD85   |
| Internal parts non-interchangeable   |                 |                 | QDxx * |
| SVC KIT-COIL, 12V DT CONN CCO        | 11136347        | 11253939        | QD83 * |
| SVC KIT-COIL, 24V DT CONN CCO        | 11136348        | 11253938        | QD83 * |
| O-RING, ISO3601-1 13.00x2.00 N-FKM70 | 11140393        | 11232752        | QD84 * |
| O-RING, ISO3601-1 17.00x1.50 N-VMQ70 | 11149504        | 11232753        | QD86 * |

### Parts disposition

Non-interchangeable (internal parts)

Interchangeable (complete assembly)

**Products we offer:**

- Cylinders
- Electric converters, machines, and systems
- Electronic controls, HMI, and IoT
- Hoses and fittings
- Hydraulic power units and packaged systems
- Hydraulic valves
- Industrial clutches and brakes
- Motors
- PLUS+1® software
- Pumps
- Steering
- Transmissions

**Danfoss Power Solutions** designs and manufactures a complete range of engineered components and systems. From hydraulics and electrification to fluid conveyance, electronic controls, and software, our solutions are engineered with an uncompromising focus on quality, reliability, and safety.

Our innovative products makes increased productivity and reduced emissions a possibility, but it's our people who turn those possibilities into reality. Leveraging our unsurpassed application know-how, we partner with customers around the world to solve their greatest machine challenges. Our aspiration is to help our customers achieve their vision — and to earn our place as their preferred and trusted partner.

**Go to [www.danfoss.com](http://www.danfoss.com) or scan the QR code for further product information.**

**Hydro-Gear**

[www.hydro-gear.com](http://www.hydro-gear.com)

**Daikin-Sauer-Danfoss**

[www.daikin-sauer-danfoss.com](http://www.daikin-sauer-danfoss.com)

**Danfoss  
Power Solutions (US) Company**  
2800 East 13th Street  
Ames, IA 50010, USA  
Phone: +1 515 239 6000

**Danfoss  
Power Solutions GmbH & Co. OHG**  
Krokamp 35  
D-24539 Neumünster, Germany  
Phone: +49 4321 871 0

**Danfoss  
Power Solutions ApS**  
Nordborgvej 81  
DK-6430 Nordborg, Denmark  
Phone: +45 7488 2222

**Danfoss  
Power Solutions Trading  
(Shanghai) Co., Ltd.**  
Building #22, No. 1000 Jin Hai Rd  
Jin Qiao, Pudong New District  
Shanghai, China 201206  
Phone: +86 21 2080 6201

Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without subsequent changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.