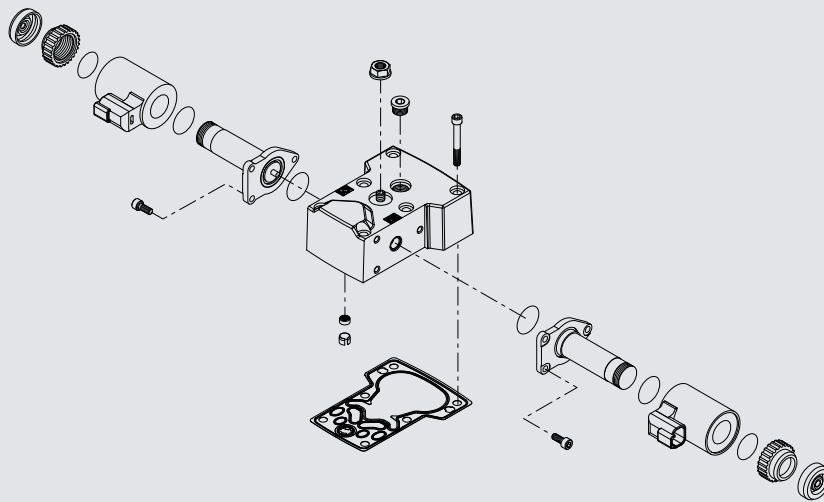


Variable Displacement Pumps

H1P 210, 250, and 280cc



Revision history

Table of revisions

Date	Changed	Rev
March 2026	Updated charge pump information, removed A8 and A9 shaft options, new stylesheet output	1004
January 2026	Updated filtration F	1003
October 2025	D067 part number updated	1002
July 2025	Updated HPRV info, Removed J4 end cap, updated Parts Numbers, Updated QD75 part number	1001
May 2025	added K4 aux mounting	0906
January 2025	Updated C010 part number, added SB-2024-007 and changes to MDC part numbers, added S38 option, removed outdated high pressure options, updated PL part numbers	0905
May 2024	Updated QD29 part number	0904
March 2024	Updated coil kit number on E8/G6, replaced 327007 with 9005110-4400, updated description E6/E7 control, removed reference to 9004100-0260, Updated F3 shaft decscription	0903
August 2023	Updated E300 part number	0902
June 2023	Removed E7 auxiliary mounting option	0901
February 2023	Corrected item number	0803
February 2023	Updated part number	0802
March 2022	Updated H1 and H2 auxiliary mounting part numbers	0801
August 2021	Added new options; updated automotive controls part numbers	0701
January 2021	Added 280cc frame size information	0601
December 2020	Moved pressure limiter screens and retainers from housing kits to pressure limiter kits	0501
May 2020	Updated slipper retainer ball guide part number and added SB-2020-013	0414
May 2020	Changed document number from 'AX00000143' to 'AX152986481244' and corrected CCO part numbers	0413
January 2020	Updated control gasket part numbers	0310
June 2019	Updated part numbers; added new options	0309
February 2019	Added various new options	0308
November 2018	Added control options T6, T7, T8 and T9	0307
May 2018	Updated graphics	0306
May 2018	Added control option D4 and filtration option M	0305
April 2018	Updated to Engineering Tomorrow design	0304

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SB-2020-013.....	135
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General information

Service parts identification

The following information and procedure is used to identify the module group, item number, manufacture date, part number, and part name of the parts included in the product.

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

Nameplate

Each unit will have a nameplate affixed to the housing. The nameplate of the H1P 210, 250, and 280 cc pumps 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.

Nameplate example



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.

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 Europe. The number in parentheses is sold in the United States. Customers would order 9008000-0118 if ordering the part in the United States.

Example of a part identification (H1P 250)

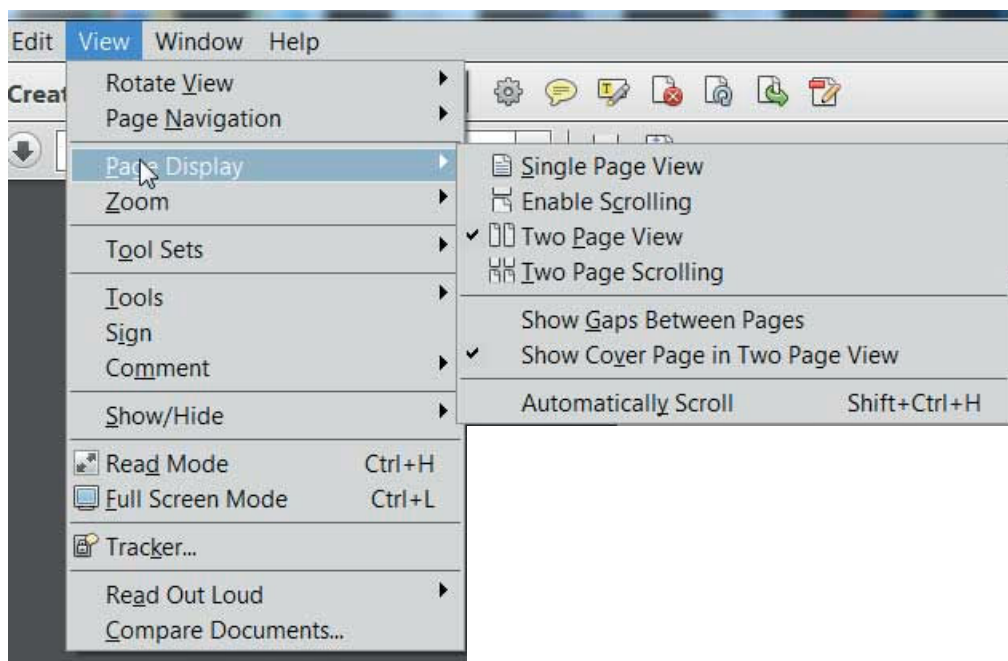
The nameplate on an H1 pump has an Order Code of H1P250 R A A A3 C1 N D8 C F8 E2 L 42 L 42 W P 24 PN NNN NNN. Use the following procedures to determine the part number of the drive shaft used on this pump.

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

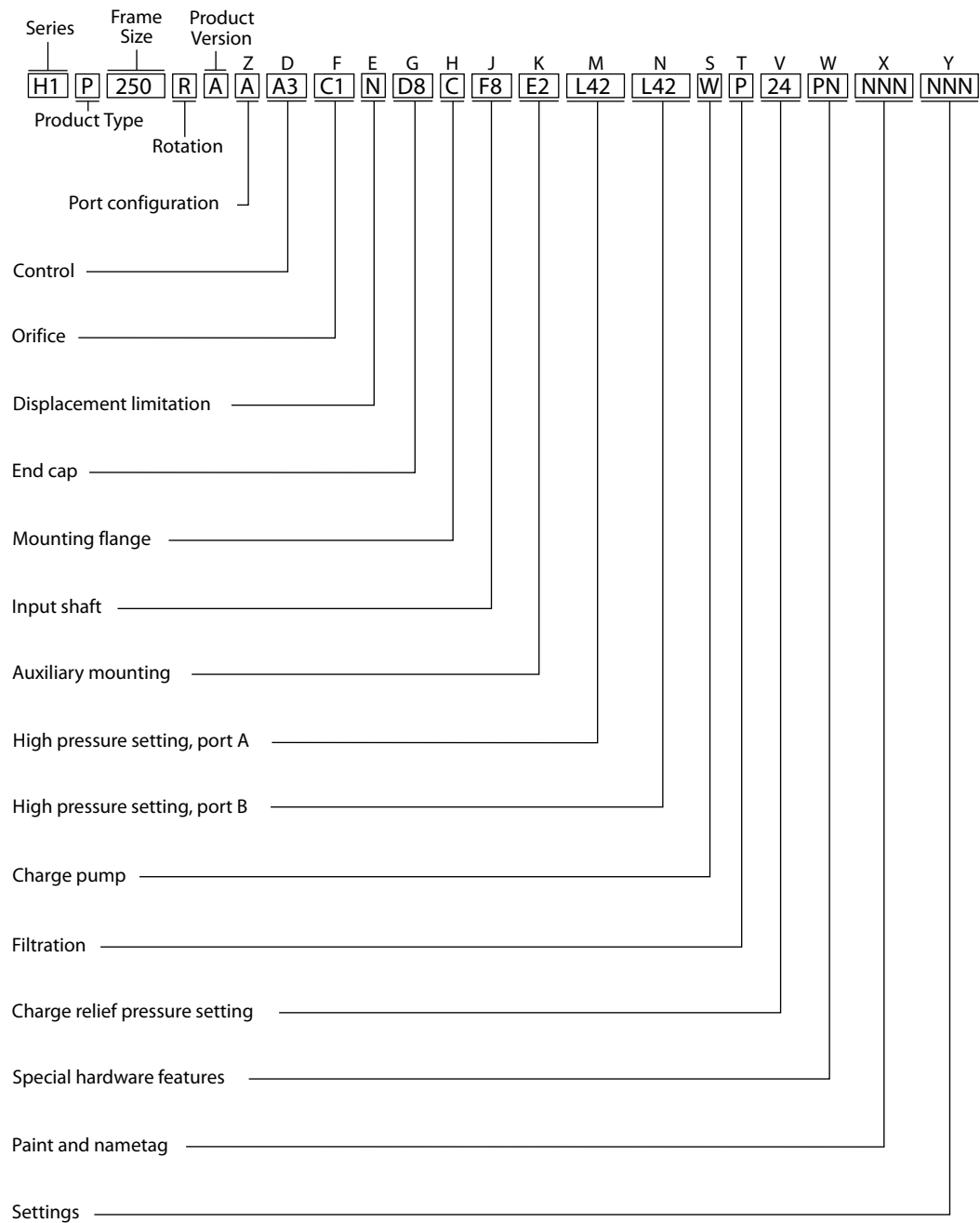
Adobe Acrobat 2-page viewing

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"



Order code

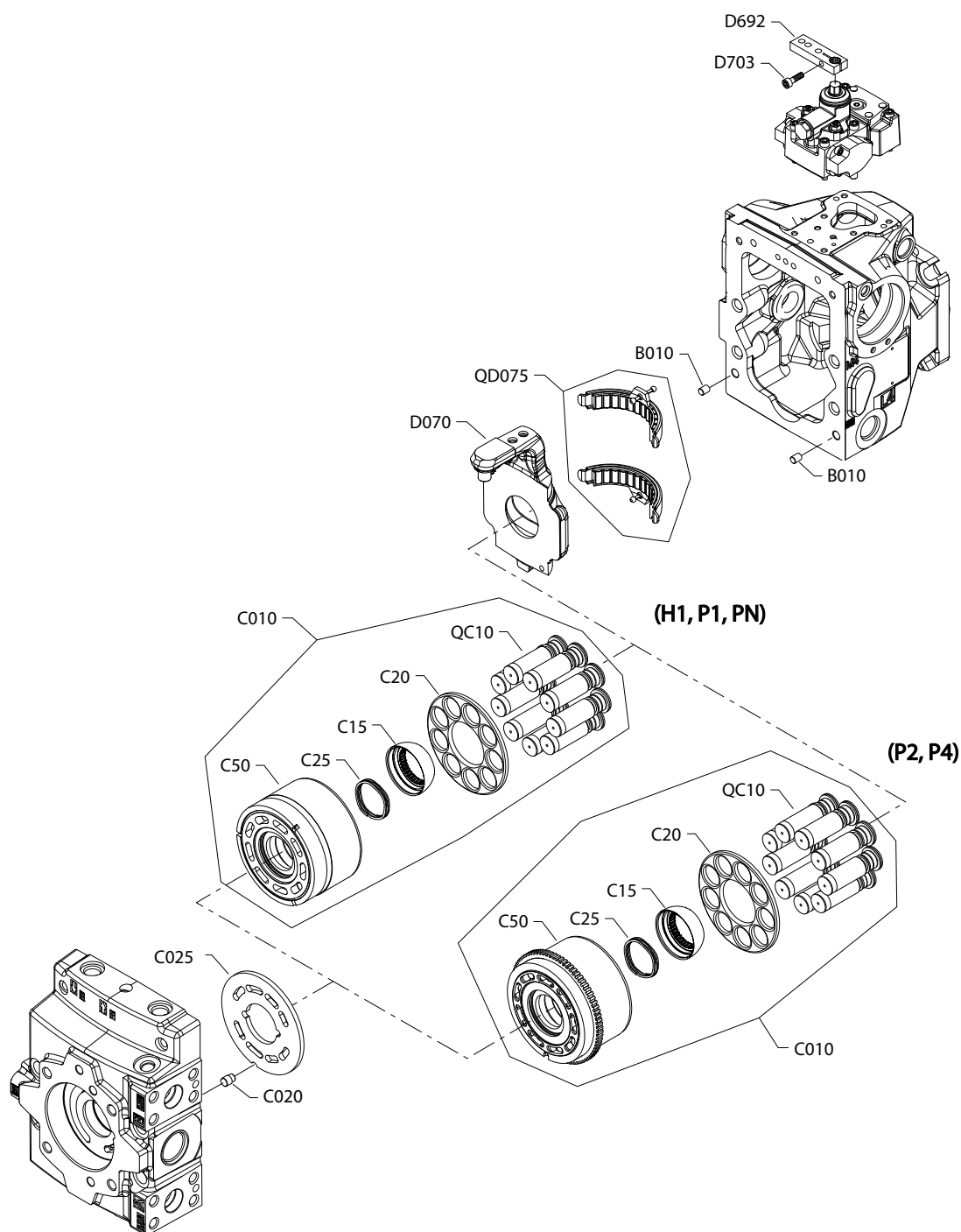


P108 825E

Common parts and special hardware

H1P 210/250/280cc special hardware H1, P1, P2

Parts configuration



Generic control and housing used to show port location only.

Common parts list

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
B010	14-01		9004800-3708	Dowel pin	2
C020	14-01		141128	Valve plate pin, CCW	1
C020	14-01		141126	Valve plate pin, CW	1
C15	17-47		11148928	Slipper retainer ball guide (<i>SB-2018-008</i> on page 131 and <i>SB-2020-013</i> on page 135)	1
C20	14-01		11027714	Slipper retainer, 210cc	1
C20	14-01		11027716	Slipper retainer, 250cc, 280cc	1
C25	14-01		11251661	Spring washer	1
D070	14-01		11031983	Swashplate	1
QC10	14-01		11070646	Slipper/piston kit, 210cc	1
QC10	14-01		11070648	Slipper/piston kit, 250cc	1
QC10	16-33		11183001	Slipper/piston kit, 280cc	1
QD075	14-01		11070642	Swashplate bearing kit	1

Order code: H1

C010	17-47		11190007	Cylinder block kit, 210cc (<i>SB-2018-008</i> on page 131)	1
C010	17-47		11190008	Cylinder block kit, 250cc (<i>SB-2018-008</i> on page 131)	1
C010	16-33		11182465	Cylinder block kit, 280cc	1
C025	14-01		11083068	Valve plate, CCW, 210, 250, and 280cc	1
C025	14-01		11083069	Valve plate, CW, 210, 250, and 280cc	1
C50	14-01		11124498	Cylinder block assembly, 210cc	1
C50	14-01		11124500	Cylinder block assembly, 250cc	1
C50	16-33		11182336	Cylinder block assembly, 280cc	1
D692	14-01		11185938	Control handle	1
D703	14-01		11173701	Screw, M6 x 20	1

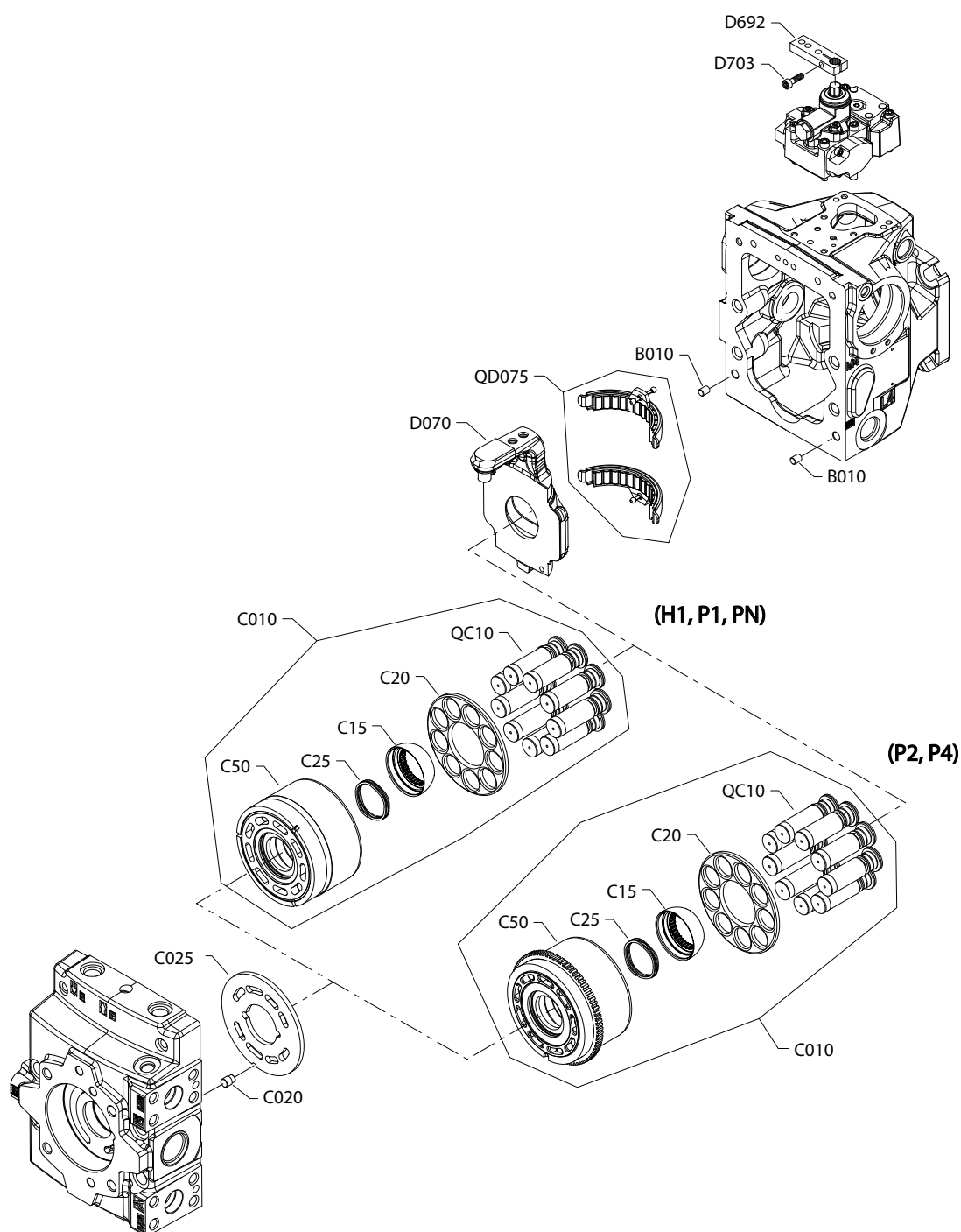
Order code: P1

C010	17-47		11190007	Cylinder block kit, 210cc (<i>SB-2018-008</i> on page 131)	1
C010	17-47		11190008	Cylinder block kit, 250cc (<i>SB-2018-008</i> on page 131)	1
C10	16-33		11182465	Cylinder block kit, 280cc	1
C025	15-14		11083057	Valve plate, CCW, 210, 250, and 280cc	1
C025	15-14		11083065	Valve plate, CW, 210, 250, and 280cc	1
C50	15-14		11124498	Cylinder block assembly, 210cc	1
C50	15-14		11124500	Cylinder block assembly, 250cc	1
C50	16-33		11182336	Cylinder block assembly, 280cc	1



Parts continue to the next 2 pages.

Parts configuration



Note

Generic control and housing used to show port location only.

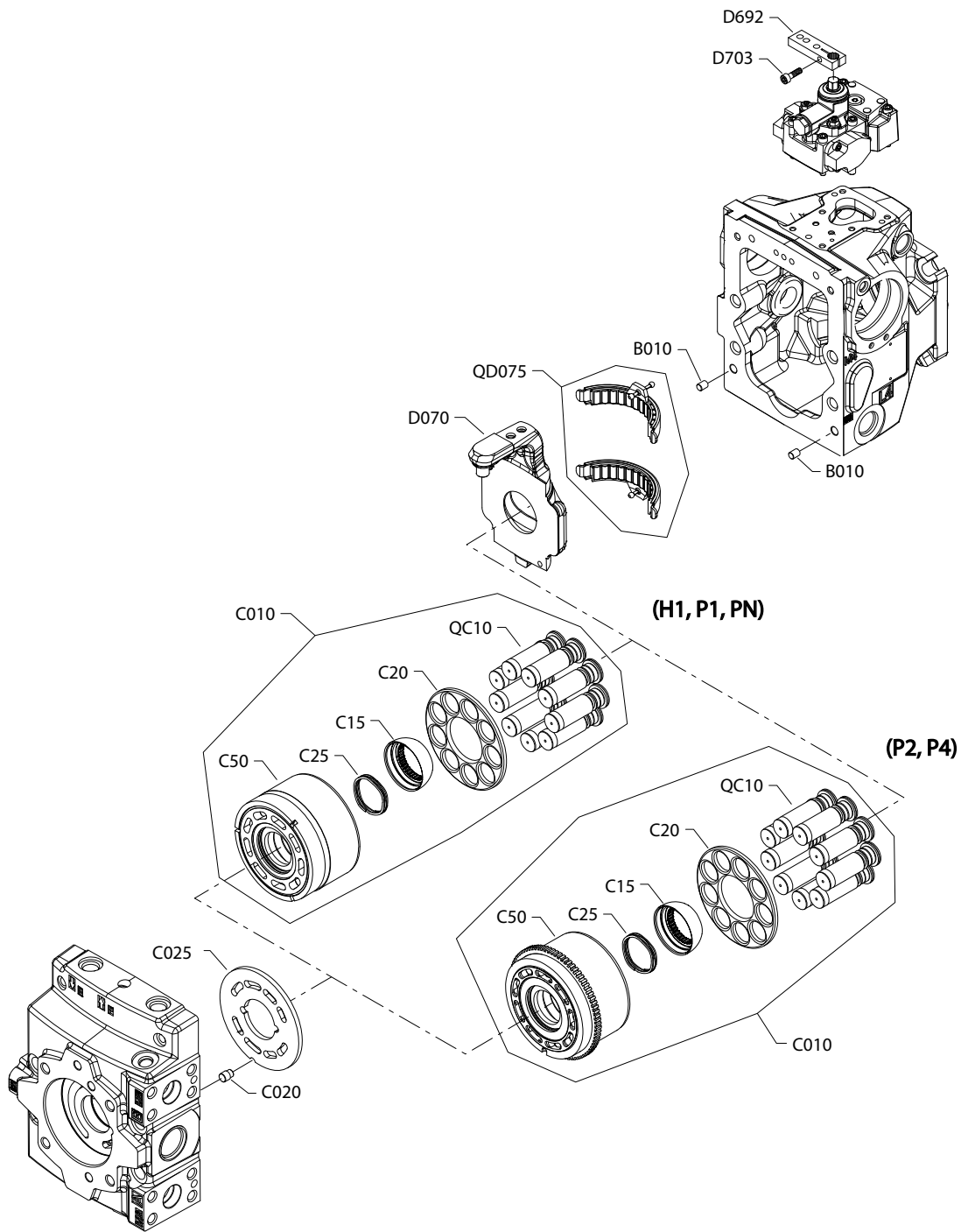
Common parts list

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
B010	14-01		9004800-3708	Dowel pin	2
C020	14-01		141128	Valve plate pin, CCW	1
C020	14-01		141126	Valve plate pin, CW	1
C15	17-47		11148928	Slipper retainer ball guide (<i>SB-2018-008</i> on page 131 and <i>SB-2020-013</i> on page 135)	1
C20	14-01		11027714	Slipper retainer, 210cc	1
C20	14-01		11027716	Slipper retainer, 250cc, 280cc	1
C25	14-01		11251661	Spring washer	1
D070	14-01		11031983	Swashplate	1
QC10	14-01		11070646	Slipper/piston kit, 210cc	1
QC10	14-01		11070648	Slipper/piston kit, 250cc	1
QC10	16-33		11183001	Slipper/piston kit, 280cc	1
QD075	14-01		11070642	Swashplate bearing kit	1

Order code: P2

C010	17-47		11191009	Cylinder block kit w/speed ring, 210cc (<i>SB-2018-008</i> on page 131)	1
C010	17-47		11191010	Cylinder block kit w/speed ring, 250cc (<i>SB-2018-008</i> on page 131)	1
C010	20-27		11262021	Cylinder block kit w/speed ring, 280cc	1
C025	14-01		11083057	Valve plate, CCW, 210, 250, and 280cc	1
C025	14-01		11083065	Valve plate, CW, 210, 250, and 280cc	1
C50	14-01		11124499	Cylinder block w/speed ring assembly, 210cc	1
C50	14-01		11124501	Cylinder block w/speed ring assembly, 250cc	1
C50	20-27		11262020	Cylinder block w/speed ring assembly, 280cc	1

H1P 210/250/280cc special hardware P4, PN



Note

Generic control and housing used to show port location only.

Common parts list

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
B010	14-01		9004800-3708	Dowel pin	2
C020	14-01		141128	Valve plate pin, CCW	1
C020	14-01		141126	Valve plate pin, CW	1
C15	17-47		11148928	Slipper retainer ball guide (<i>SB-2018-008</i> on page 131 and <i>SB-2020-013</i> on page 135)	1
C20	14-01		11027714	Slipper retainer, 210cc	1
C20	14-01		11027716	Slipper retainer, 250cc, 280cc	1
C25	14-01		11251661	Spring washer	1
D070	14-01		11031983	Swashplate	1
QC10	14-01		11070646	Slipper/piston kit, 210cc	1
QC10	14-01		11070648	Slipper/piston kit, 250cc	1
QC10	16-33		11183001	Slipper/piston kit, 280cc	1
QD075	14-01		11070642	Swashplate bearing kit	1

Order code: P4

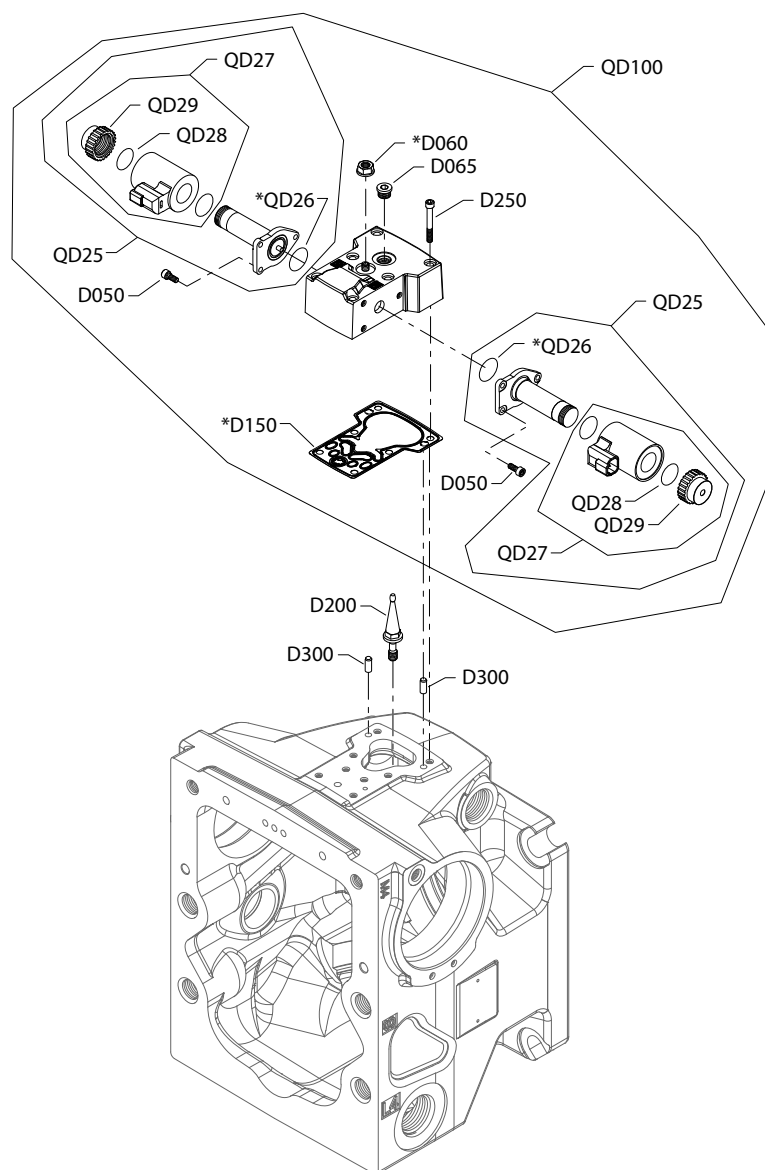
C010	17-47		11191009	Cylinder block kit w/speed ring, 210cc (<i>SB-2018-008</i> on page 131)	1
C010	17-47		11191010	Cylinder block kit w/speed ring, 250cc (<i>SB-2018-008</i> on page 131)	1
C010	20-27		11262021	Cylinder block kit w/speed ring, 280cc	1
C025	14-01		11083068	Valve plate, CCW, 210, 250, and 280cc	1
C025	14-01		11083069	Valve plate, CW, 210, 250, and 280cc	1
C50	14-01		11124499	Cylinder block assembly w/speed ring, 210cc	1
C50	14-01		11124501	Cylinder block assembly w/speed ring, 250cc	1
C50	20-27		11262020	Cylinder block assembly w/speed ring, 280cc	1

Order code: PN

C010	17-47		11191009	Cylinder block kit w/speed ring, 210cc (<i>SB-2018-008</i> on page 131)	1
C010	17-47		11190008	Cylinder block kit w/speed ring, 250cc (<i>SB-2018-008</i> on page 131)	1
C010	16-33		11182465	Cylinder block kit w/speed ring, 280cc	1
C025	14-01		11083068	Valve plate, CCW, 210, 250, and 280cc	1
C025	14-01		11083069	Valve plate, CW, 210, 250, and 280cc	1
C50	14-01		11124498	Cylinder block assembly, 210cc	1
C50	14-01		11124500	Cylinder block assembly, 250cc	1
C50	16-30		11182336	Cylinder block assembly, 280cc	1

Controls

H1P control A2, A3



E100 912E

Note

Generic housing shown.

* Included in overhaul seal kit Q210

Common parts

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
D050	14-01		716860	Screw, M5 x 12	6
D060	14-01		612291 (9003508-0008)	Seal nut, M8	1
D065	14-01		9005110-4400	Plug assembly (SAE)	1
D150	14-01		11227209	Control gasket (<i>SB-2016-033</i> on page 129)	1
D200	14-01		11202172	Swash plate feedback link (<i>SB-2018-025</i> on page 133)	1
D250	14-01		505038	Screw, M6 x 45	6
D300	14-01		310979	Dowel pin	2
QD26	14-01		11001952	O-ring	2
QD28	14-01		063172	O-ring	2

Order code: A2

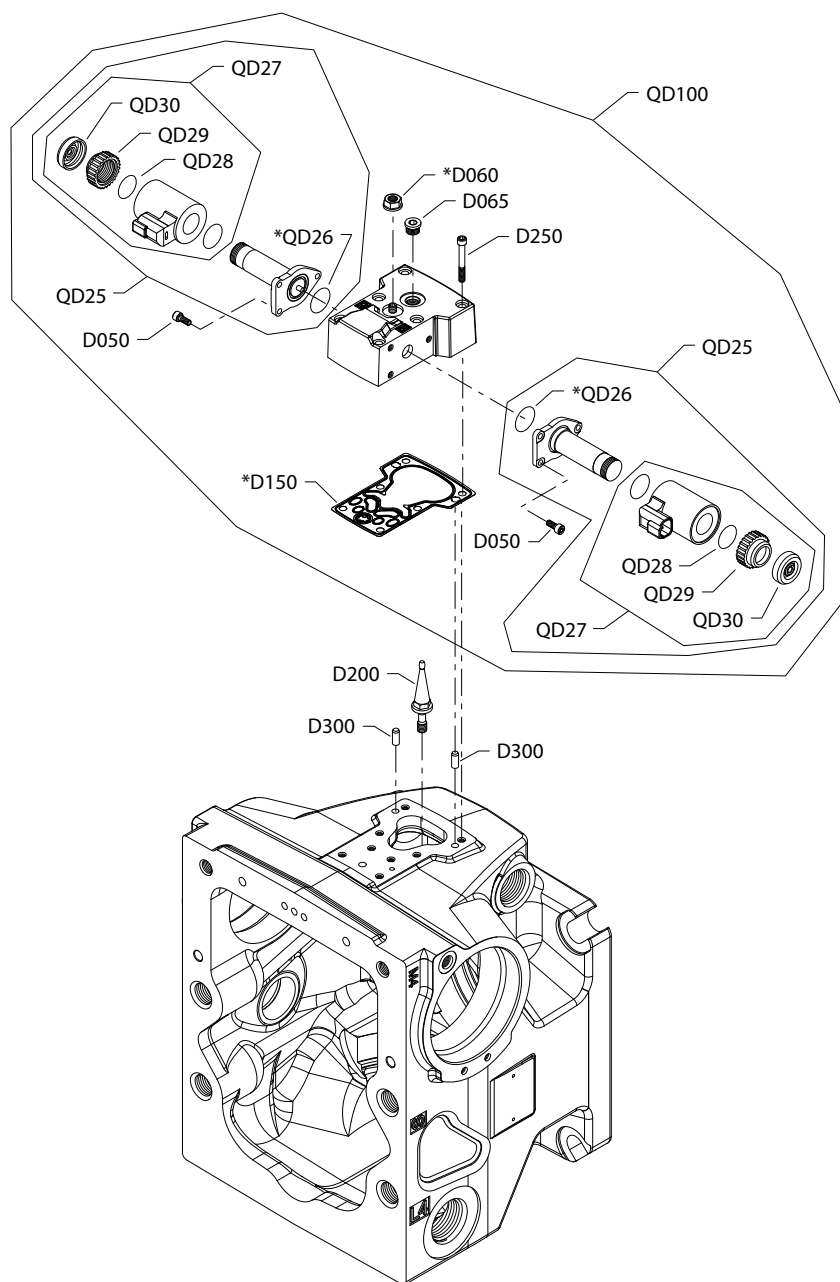
QD25	14-01		11012457	Proportional solenoid, 12v	2
QD27	14-01		11028018	Coil kit, 12v, DEUTSCH connector	2
QD29	14-01		11027046	Coil nut	2
QD100	14-01		11019680	EDC kit, 12v, DEUTSCH connector, fast	1

Order code: A3

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

H1P control A4, A5

A4 and A5 configuration



Note

Generic housing shown.

* Included in overhaul seal kit Q210

Common parts

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
D050	14-01		716860	Screw, M5 x 12	6
D060	14-01		612291 (9003508-0008)	Seal nut, M8	1
D065	14-01		9005110-4400	Plug assembly	1
D150	14-01		11227209	Control gasket (<i>SB-2016-033</i> on page 129)	1
D200	14-01		11202172	Swash plate feedback link (<i>SB-2018-025</i> on page 133)	1
D250	14-01		505038	Screw, M6 x 45	6
D300	14-01		310979	Dowel pin	2
QD26	14-01		11001952	O-ring	2
QD28	14-01		063172	O-ring	2
QD30	14-01		11027883	Cap	2

Order code: A4

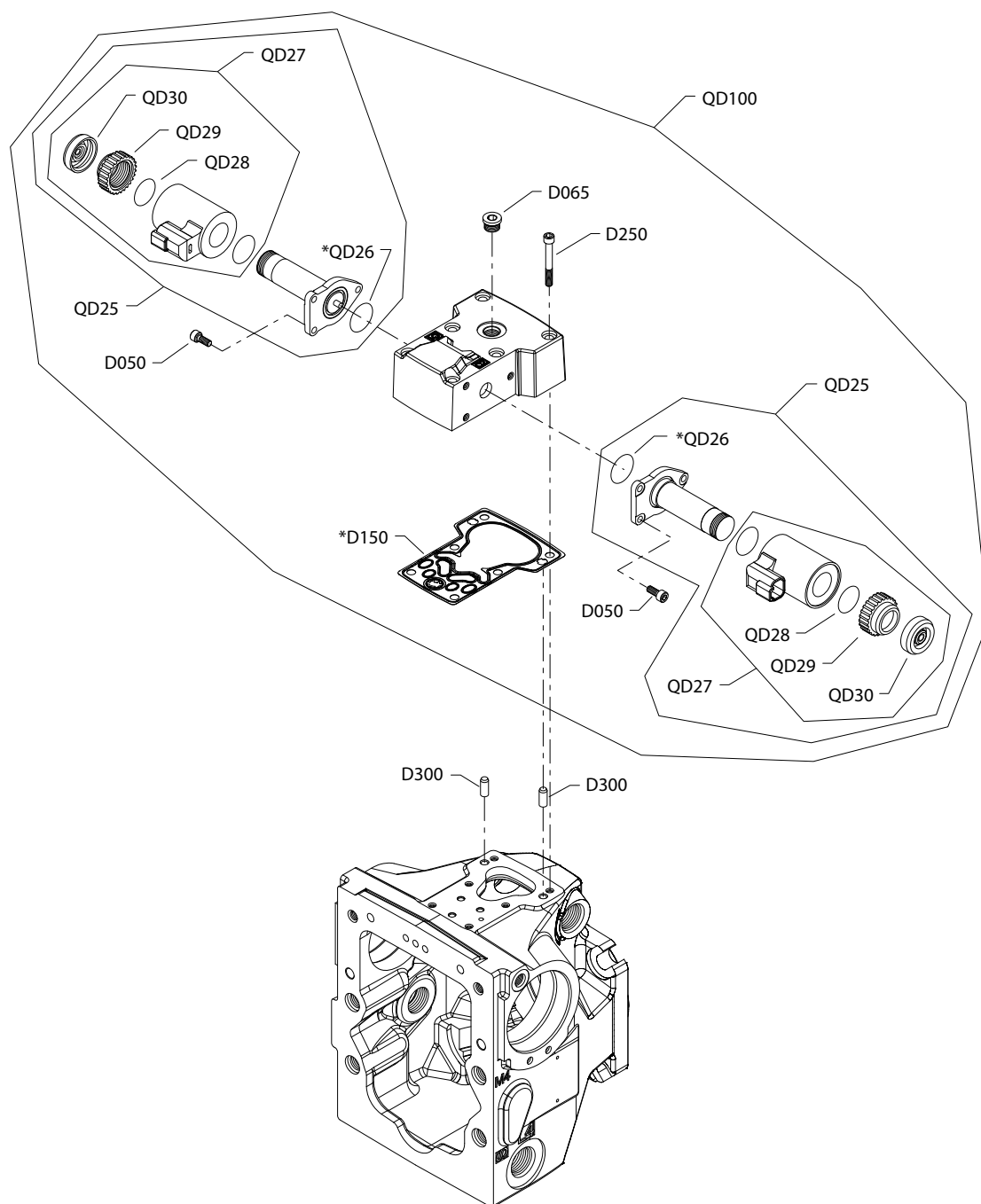
QD25	14-01		140750	Proportional solenoid, 12v	2
QD27	14-01		11004698	Coil kit, 12v, DEUTSCH connector	2
QD29	14-01		11319330	Coil nut	2
QD100	14-01		11019732	EDC kit, 12v, DEUTSCH connector, fast, manual override	1

Order code: A5

QD25	14-01		140751	Proportional solenoid, 24v	2
QD27	14-01		11004700	Coil kit, 24v, DEUTSCH connector	2
QD29	14-01		11319361	Coil nut	2
QD100	14-01		11019733	EDC kit, 24v, DEUTSCH connector, fast, manual override	1

H1P control A9, B1

Parts configuration



Note

Generic housing shown

* Included in overhaul seal kit Q210

Common parts

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
D050	14-01		716860	Screw, M5 x 12	6
D065	14-01		9005110-4400	Plug assembly	1
D150	14-01		11227209	Control gasket	1
D250	14-01		505038	Screw, M6 x 45	6
D300	14-01		310979	Dowel pin	2
QD26	14-01		11001952	O-ring	2
QD28	14-01		063172	O-ring	2
QD30	14-01		11027883	Cap	2

Order code: A9

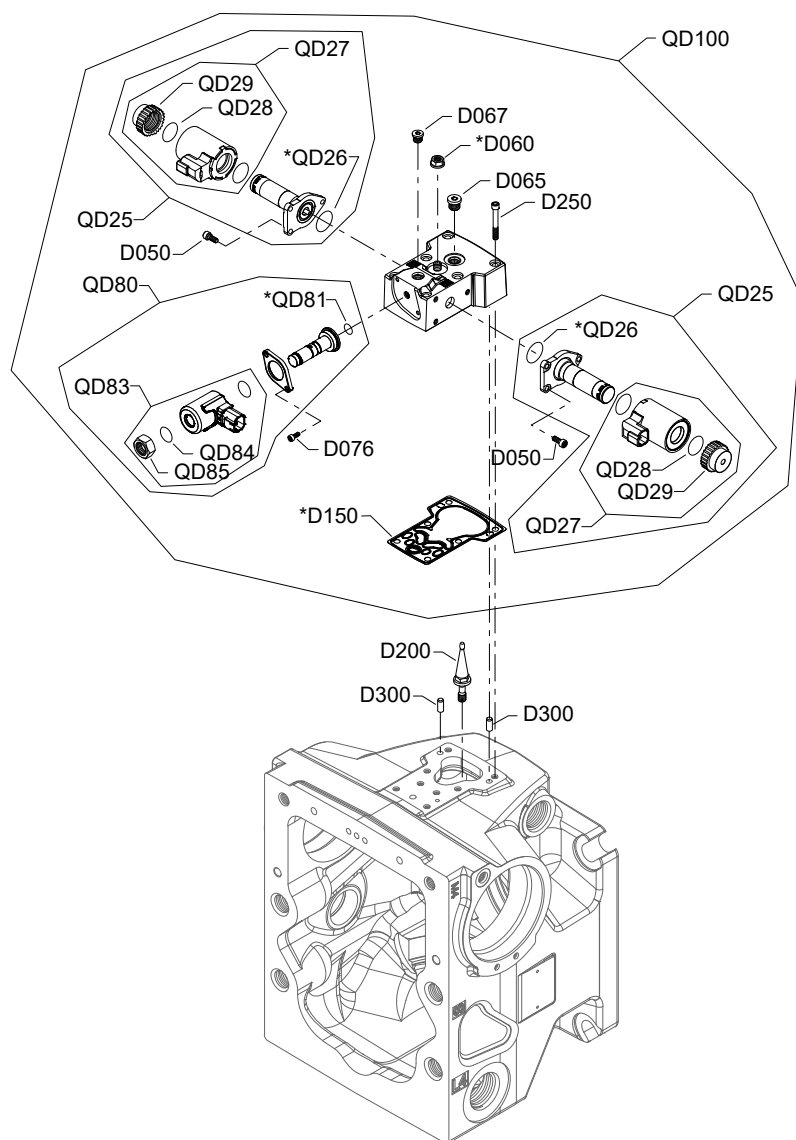
QD25	14-01		141301	Proportional solenoid, 12v, DEUTSCH connector	2
QD27	14-01		11005222	Coil kit, 12v, DEUTSCH connector	2
QD29	14-01		11319330	Coil nut	2
QD100	14-01		11025905	FNR control kit, 12v, manual override, DEUTSCH connector	1

Order code: B1

QD25	14-01		141313	Proportional solenoid, 24v, DEUTSCH connector	2
QD27	14-01		11005223	Coil kit, 24v, DEUTSCH connector	2
QD29	14-01		11319361	Coil nut	2
QD100	14-01		11025906	FNR control kit, 24v, manual override, DEUTSCH connector	1

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

Common parts

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
D050	14-01		716860	Screw, M5 x 12	6
D060	14-01		612291 (9003508-0008)	Seal nut, M8	1
D065	14-01		905110-4400	Plug assembly (SAE)	1
D067	14-01		905110-4400	Plug assembly (SAE)	1
D076	14-01		067694	Screw, M4 x 10	2
D150	14-01		11227209	Control gasket (<i>SB-2016-033</i> on page 129)	1
D200	14-01		11202172	Swash plate feedback link (<i>SB-2018-025</i> on page 133)	1
D250	14-01		505038	Screw, M6 x 45	6
D300	14-01		310979	Dowel pin	2
QD26	14-01		11001952	O-ring	2
QD28	14-01		063172	O-ring	2
QD81	14-01		11152257	O-ring	1
QD85	14-01		11140394	Coil nut	1

Order code: E6

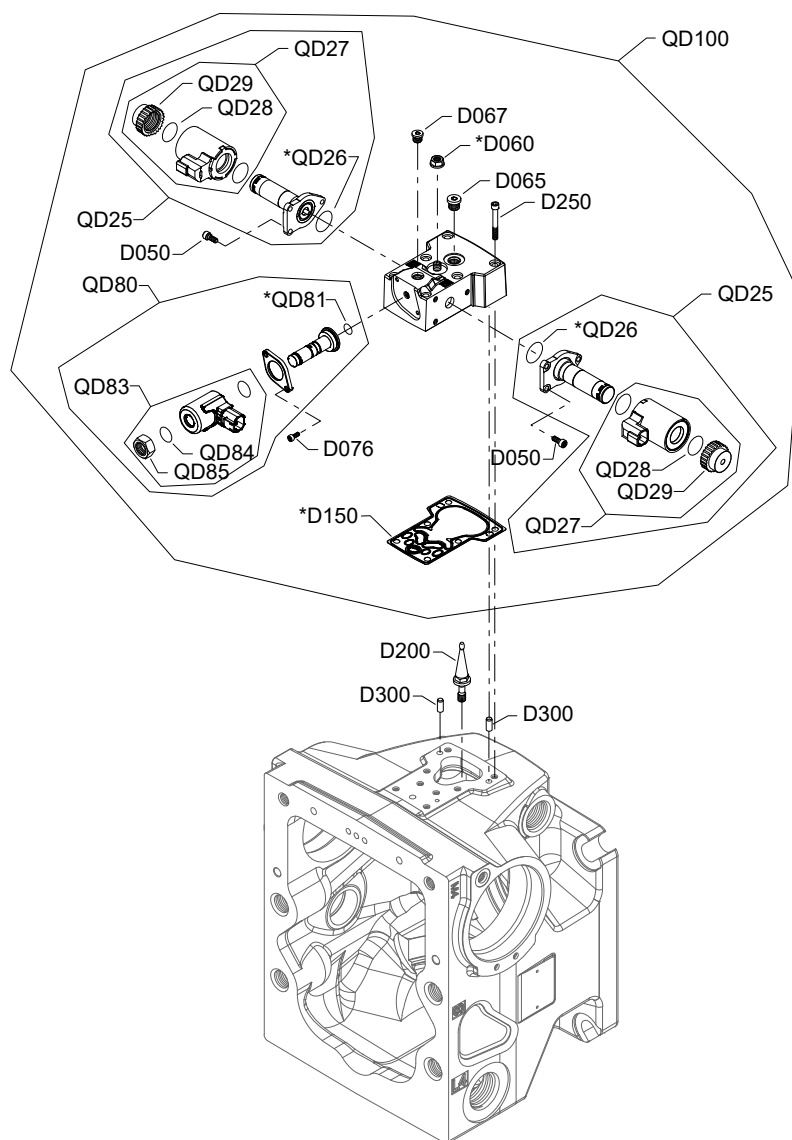
QD25	14-01		11012459	Proportional solenoid, 24v	2
QD27	14-01		11028019	Coil kit, 24v, DEUTSCH connector	2
QD29	14-01		11028024	Coil nut	2
QD80	14-01		11231201	Solenoid valve, on/off, 24v	1
QD83	14-01		11232697	Coil kit, 24v	1
QD84	14-01		11232752	O-ring	1
QD100	14-01		11147423	EDC kit, 24v, CCO	1

Order code: E7

D065	16-09		5000572	Plug assembly (metric)	1
D067	16-09		5000572	Plug assembly, (metric)	1
QD25	14-01		11012457	Proportional solenoid, 12v	2
QD27	14-01		11028018	Coil kit, 12v, DEUTSCH connector	2
QD29	14-01		11027046	Coil nut	2
QD80	14-01		11231200	Solenoid valve, on/off, 12v	1
QD83	14-01		11232757	Coil kit, 12v	1
QD84	14-01		11232752	O-ring	1
QD100	14-01		11147471	EDC kit, 12v, CCO (SAE)	1
QD100	16-09		11164610	EDC kit, 12v, CCO (metric)	1

H1P control E8

Parts configuration



Note

Generic housing shown.

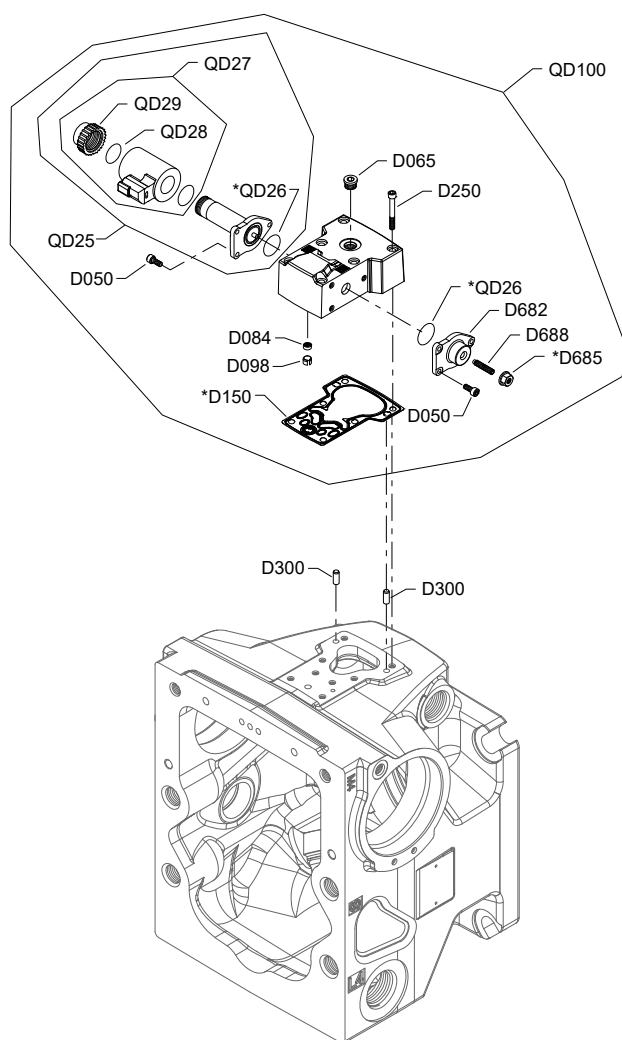
* Included in overhaul seal kit Q210

Order code: E8

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
D050	14-01		716860	Screw, M5 x 12	6
D060	14-01		612291 (9003508-0008)	Seal nut, M8	1
D065	14-01		905110-4400	Plug assembly	1
D067	14-01		905110-4400	Plug assembly	1
D076	14-01		067694	Screw, M4 x 10	2
D150	14-01		11227209	Control gasket (<i>SB-2016-033</i> on page 129)	1
D200	14-01		11202172	Swashplate feedback link (<i>SB-2018-025</i> on page 133)	1
D250	14-01		505038	Screw, M6 x 45	6
D300	14-01		310979	Dowel pin	2
QD25	14-01		11012459	Proportional solenoid, 24v	2
QD26	14-01		11001952	O-ring	2
QD27	14-01		11028019	Coil kit, 24v, DEUTSCH connector	2
QD28	14-01		063172	O-ring	2
QD29	14-01		11028024	Coil nut	2
QD80	14-01		11231201	Solenoid vale, on/off, 24v	1
QD81	14-01		11152257	O-ring	1
QD83	14-01		11232697	Coil kit, 24v	1
QD84	14-01		11232752	O-ring	1
QD85	14-01		11140394	Coil nut	1
QD100	14-01		11147472	EDC kit, 24v, CCO	1

H1P control F1, F2

F1 and F2 configuration



Note

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

Common parts

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
D050	14-01		716860	Screw, M5 x 12	6
D065	14-01		9005110-4400	Plug assembly	1
D150	14-01		11227209	Control gasket (<i>SB-2016-033</i> on page 129)	1
D250	14-01		505038	Screw, M6 x 45	6
D300	14-01		310979	Dowel pin	2
D682	14-01		11079441	Flange	1
D685	14-01		612291 (9003508-0008)	Seal nut, M8	1
D688	14-01		11079453	Adjusting screw	1
QD26	14-01		11001952	O-ring	2
QD28	14-01		063172	O-ring	1

Order code: F1

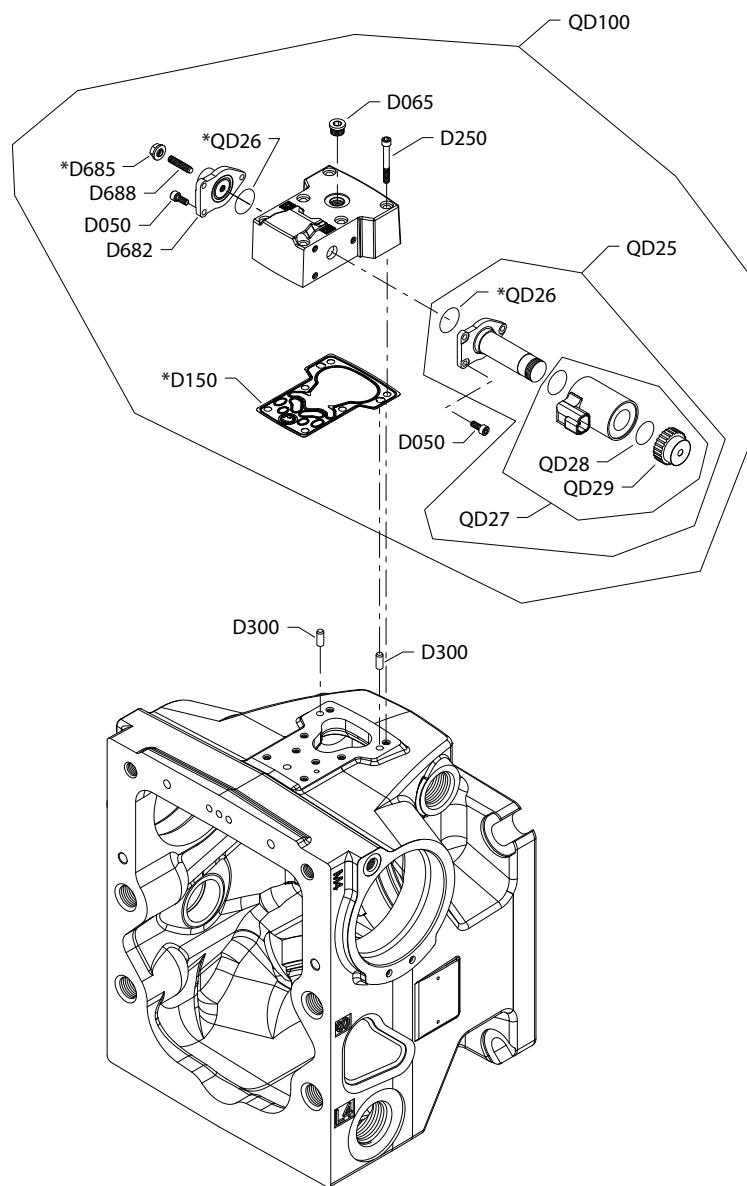
QD25	14-01		11012457	Proportional solenoid, 12v	1
QD27	14-01		11028018	Coil kit, 12v, DEUTSCH connector	1
QD29	14-01		11027046	Coil nut	1
QD100	14-01		11081306	FDC kit, 12v, DEUTSCH connector	1

Order code: F2

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

H1P control F4

F4 configuration



Note

Generic housing shown.

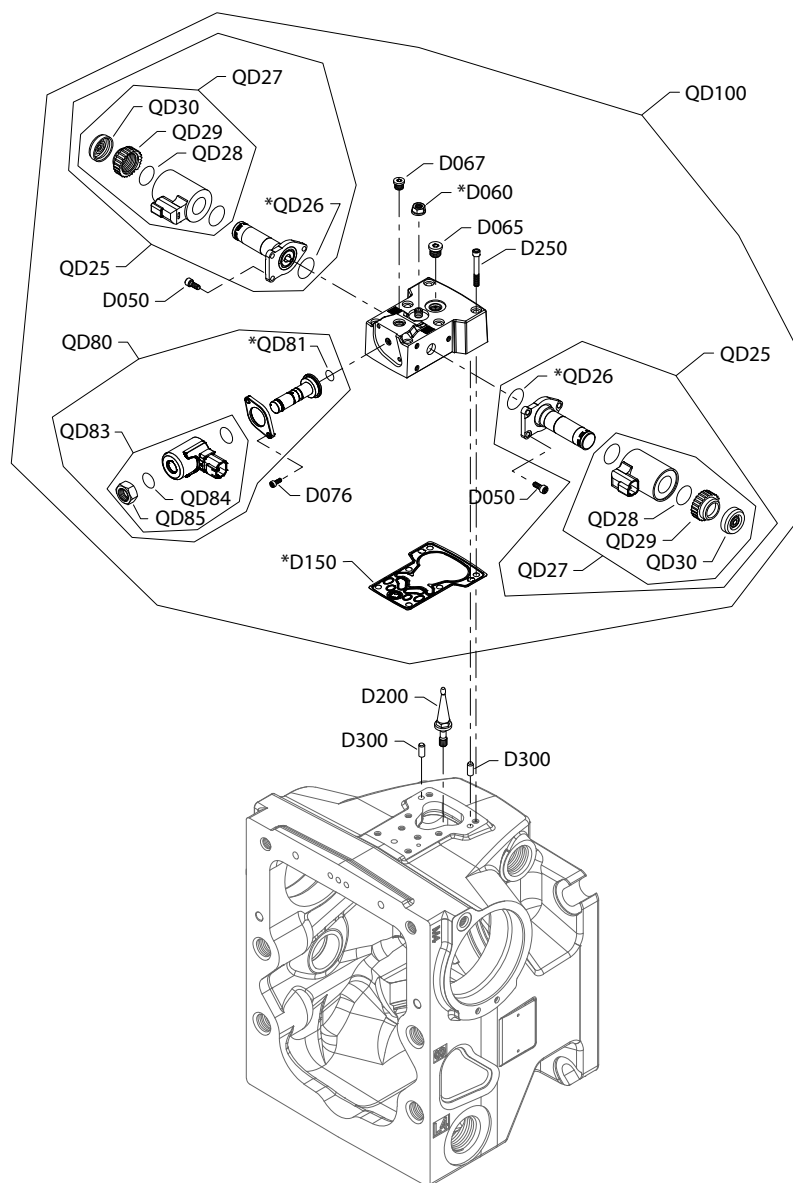
* Included in overhaul seal kit

Order code: F4

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
D050	14-01		716860	Screw, M5 x 12	6
D065	14-01		9005110-4400	Plug assembly	1
D150	14-01		11227209	Control gasket (<i>SB-2016-033</i> on page 129)	1
D250	14-01		505038	Screw, M6 x 45	6
D300	14-01		310979	Dowel pin	2
D682	14-01		11079441	Flange	1
D685	14-01		612291 (9003508-0008)	Seal nut, M8	1
D688	14-01		11079453	Adjusting screw	1
QD25	14-01		11012459	Proportional solenoid, 24v	1
QD26	14-01		11001952	O-ring	2
QD27	14-01		11028019	Coil kit, 24v, DEUTSCH connector	1
QD28	14-01		063172	O-ring	1
QD29	14-01		11028024	Coil nut	1
QD100	14-01		11174982	FDC kit, 24v, DEUTSCH connector	1

H1P control G8

G8 configuration



Note

Generic housing shown.

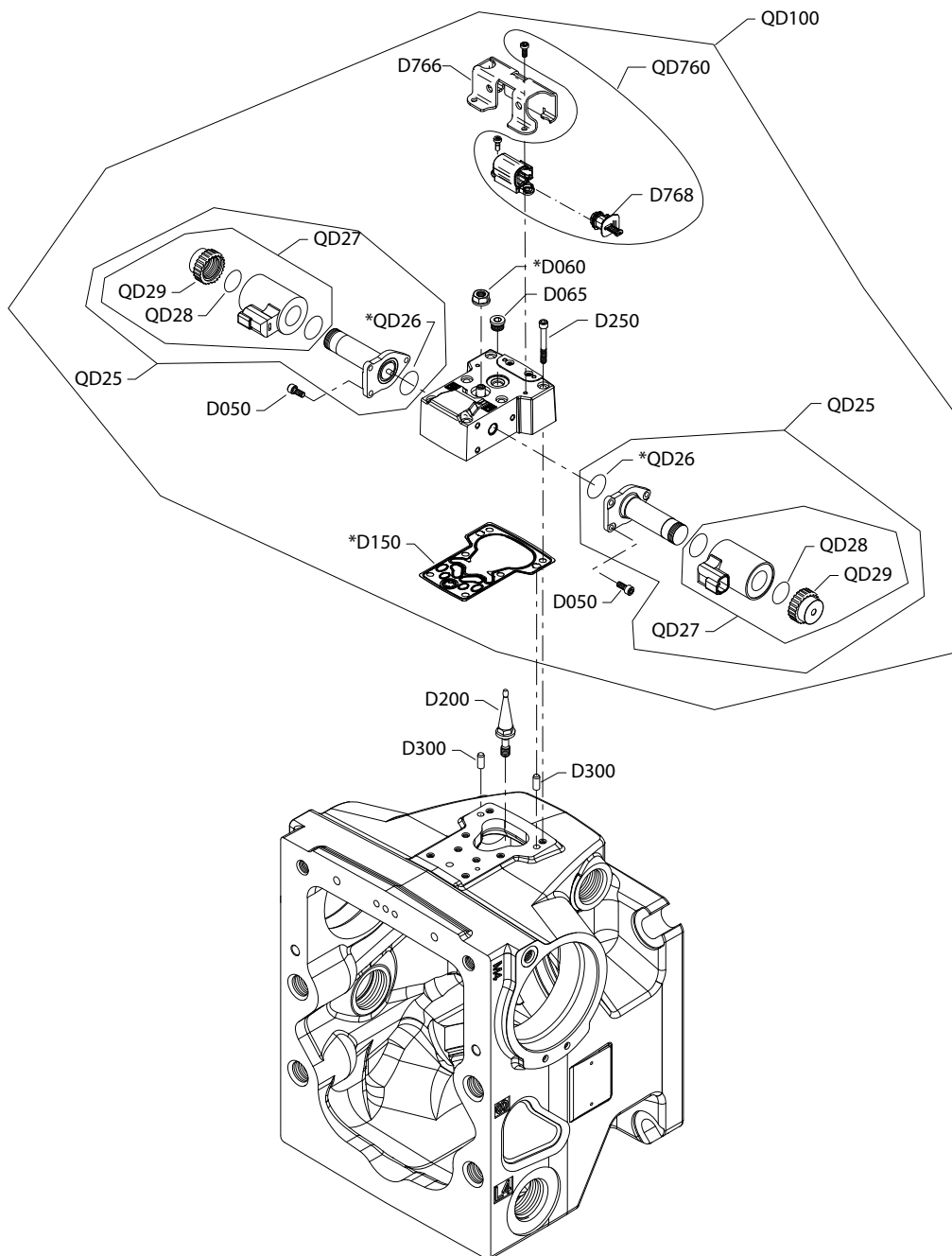
* Included in overhaul seal kit Q210

Order code: G8

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
D050	14-01		716860	Screw, M5 x 12	6
D060	14-01		612291 (9003508-0008)	Seal nut, M8	1
D065	14-01		9005110-4400	Plug assembly	1
D067	14-01		9005110-4400	Plug assembly	1
D076	14-01		067694	Screw, M4 x 10	2
D150	14-01		11227209	Control gasket (<i>SB-2016-033</i> on page 129)	1
D200	14-01		11202172	Swash plate feedback link (<i>SB-2018-025</i> on page 133)	1
D250	14-01		505038	Screw, M6 x 45	6
D300	14-01		310979	Dowel pin	2
QD25	14-01		140750	Proportional solenoid, 12v	2
QD26	14-01		11001952	O-ring	2
QD27	14-01		11004698	Coil kit, 12v, DEUTSCH connector	2
QD28	14-01		063172	O-ring	2
QD29	14-01		11319330	Coil nut	2
QD30	14-01		11027883	Cap	2
QD80	14-01		11231200	Solenoid vale, on/off, 12v	1
QD81	14-01		11152257	O-ring	1
QD83	14-01		11232757	Coil kit, 12v	1
QD84	14-01		11232752	O-ring	1
QD85	14-01		11140394	Coil nut	1
QD100	14-01		11155365	EDC kit, 12v, CCO, MOR	1

H1P control H2, H3

Parts configuration



Note

Generic housing shown

* Included in overhaul seal kit Q210

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

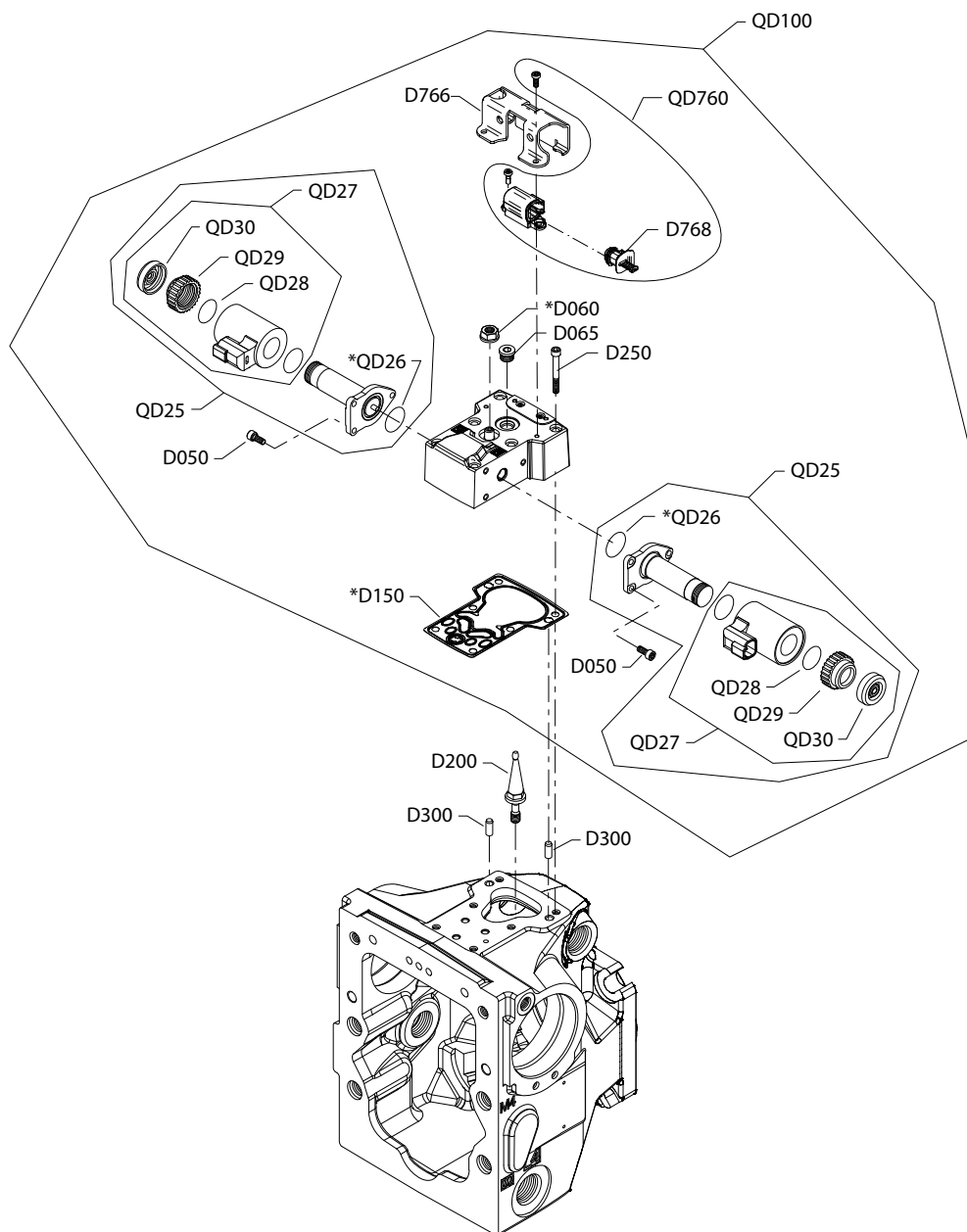
QD100	18-11		11196619	EDC kit, 12v, ASNSR	1
QD25	18-11		11012457	Proportional solenoid, 12v	2
QD27	18-11		11028018	Coil kit, 12V, DEUTSCH connector	2
QD29	18-11		11027046	Nut	2

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

H1P control H6, H7

Parts configuration



Note

Generic housing shown

* Included in overhaul seal kit Q210

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

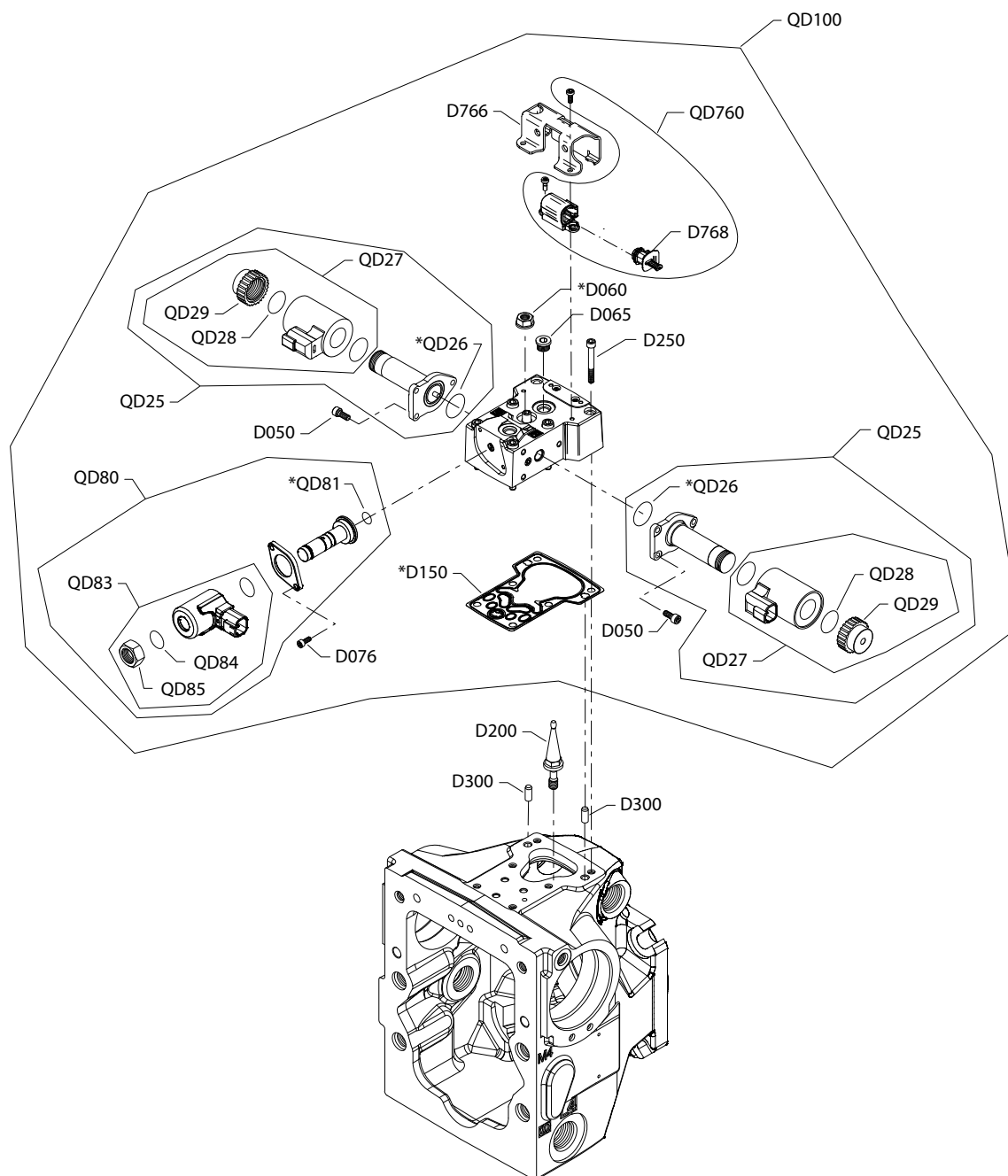
QD100	18-13		11179281	EDC kit, 12V	1
QD25	18-13		140750	Proportional solenoid, 12V	2
QD27	18-13		11004698	Coil kit, 12V, DEUTSCH connector	2
QD29	18-13		11319330	Coil nut	2

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

H1P control H8, H9

Parts configuration



Note

Generic housing shown

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

* Included in overhaul seal kit Q210

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

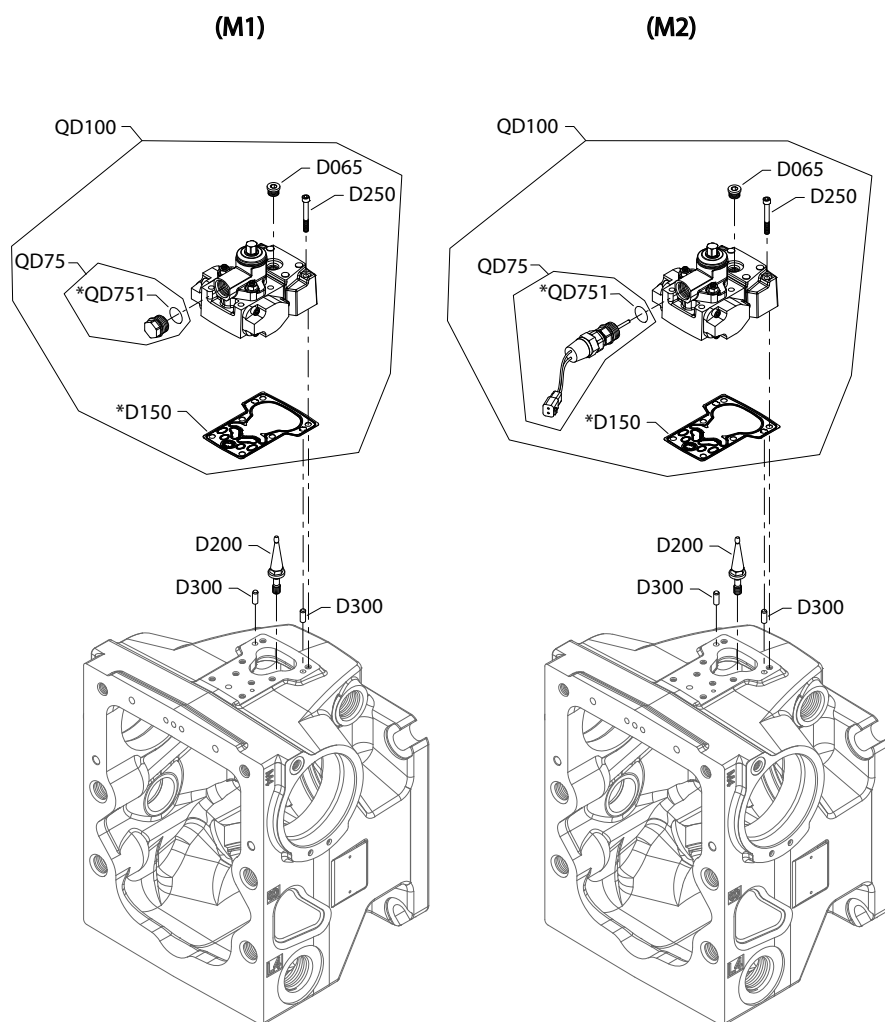
QD100	18-13		11179293	EDC kit, 12V	1
QD100	16-30		11182566	EDC kit, 12v ASNSR (metric)	1
QD25	18-13		11012457	Proportional solenoid, 12V	2
QD27	18-13		11028018	Coil kit, 12V, DEUTSCH connector	2
QD29	18-13		11027046	Coil nut	2
QD80	18-13		11231200	Solenoid, 12V, DEUTSCH connector	1
QD83	18-13		11232757	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

H1P control M1, M2

M1 and M2 configuration



Note

Generic housing shown

* Included in overhaul seal kit

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 (<i>SB-2016-033</i> on page 129)	1
D200	14-01		11202172	Swashplate feedback link (<i>SB-2018-025</i> on page 133)	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

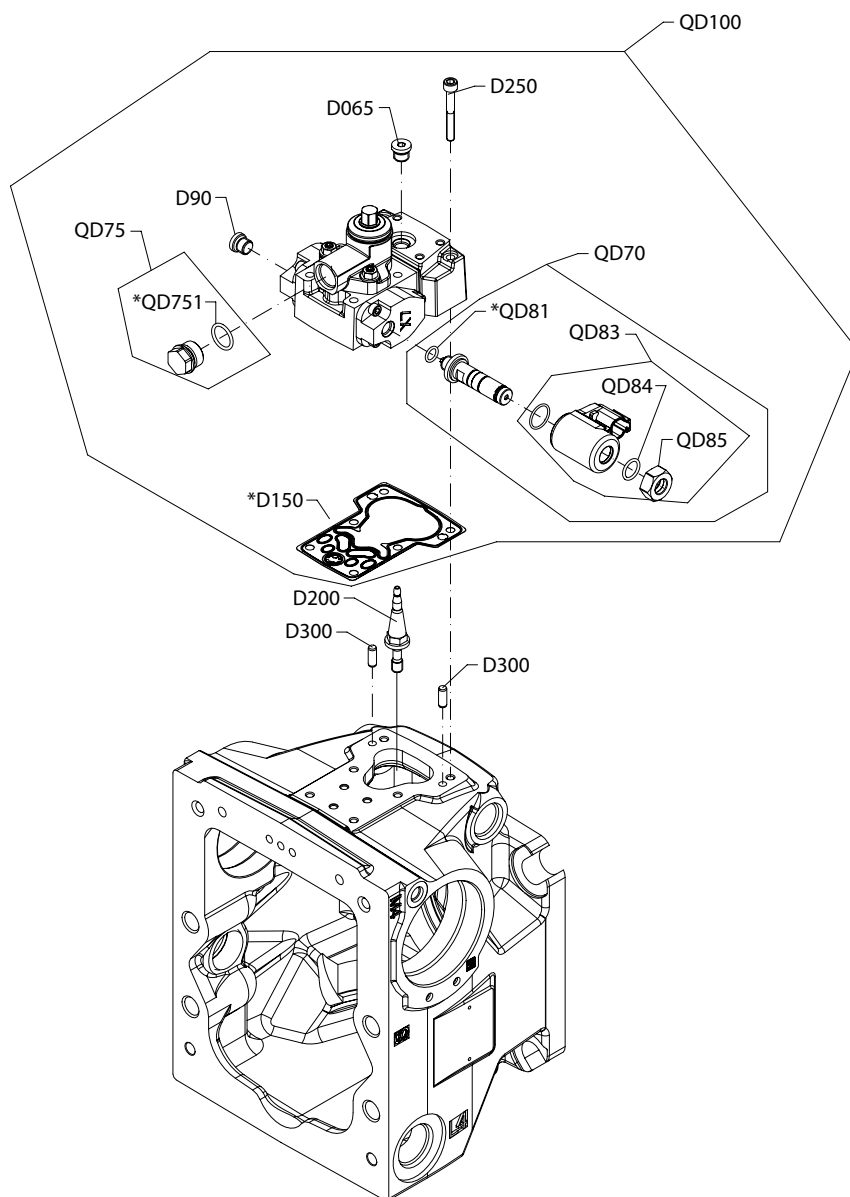
QD75	14-01		11119332	Spring seat assembly	1
QD100	14-01		11141225	MDC kit	1

Order code: M2

QD75	14-01		11328169	Spring seat/neutral start switch assembly	1
QD100	14-01		11141236	MDC kit	1

H1P control M3, M4

M3 and M4 configuration



Generic housing shown

* Included in overhaul seal kit Q210

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 (<i>SB-2016-033</i> on page 129)	1
D200	14-01		11202172	Swashplate feedback link (<i>SB-2018-025</i> on page 133)	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 (<i>SB-2024-007</i> on page 138)	1
QD85	14-01		11140394	Coil nut	1
QD751	14-01		001131 (9004201-5000)	O-ring	1

Order code: M3

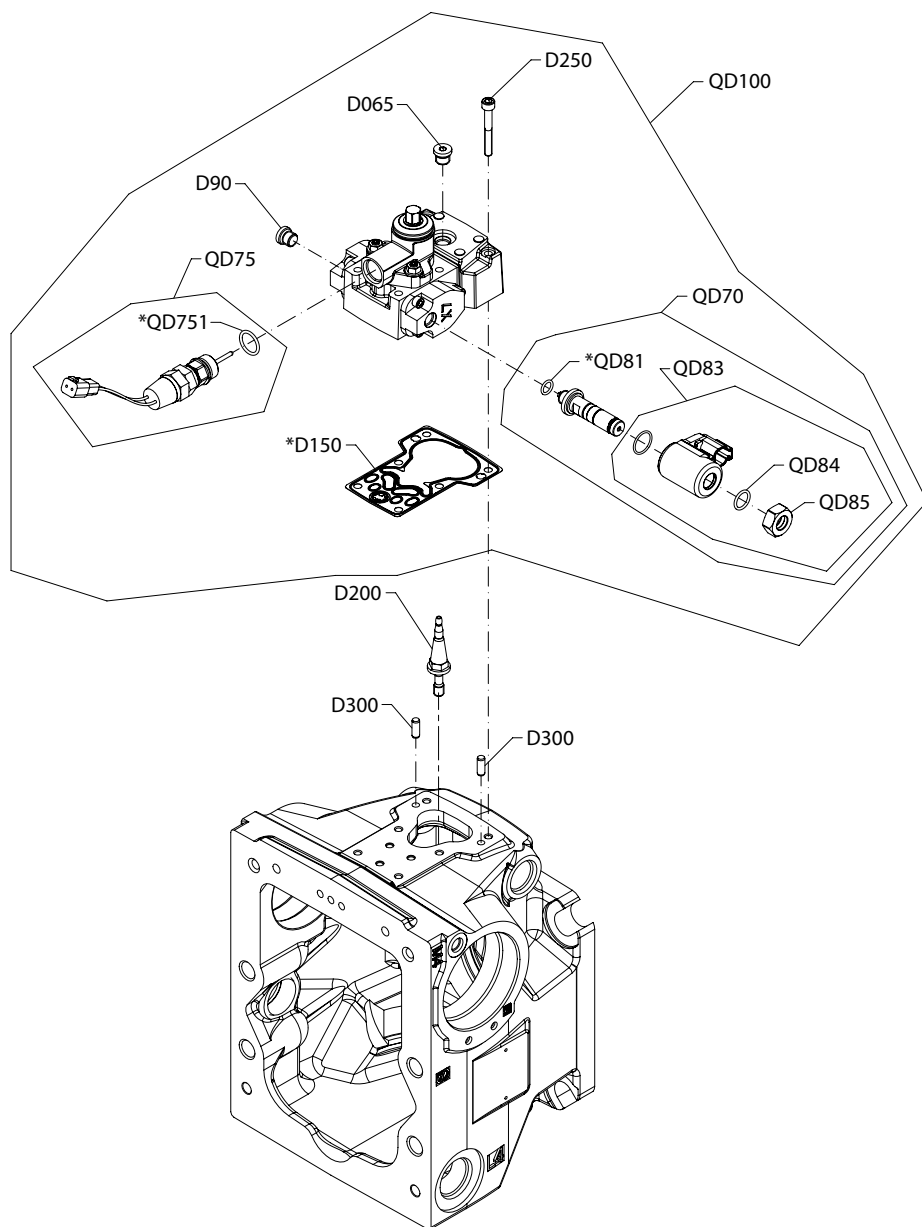
QD70	14-01		11231212	Solenoid valve, 12v (<i>SB-2024-007</i> on page 138)	1
QD83	24-01		11253939	Coil kit, 12v (<i>SB-2024-007</i> on page 138)	1
QD100	14-01		11218976	MDC kit, 12v, CCO	1

Order code: M4

QD70	14-01		11231213	Solenoid valve, 24v (<i>SB-2024-007</i> on page 138)	1
QD83	24-01		11253938	Coil kit, 24v, CCO (<i>SB-2024-007</i> on page 138)	1
QD100	14-01		11218977	MDC kit, 24v	1

H1P control M5, M6

M5 and M6 configuration



Note

Generic housing shown

* Included in overhaul seal kit Q210

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 (<i>SB-2016-033</i> on page 129)	1
D200	14-01		11202172	Swashplate feedback link (<i>SB-2018-025</i> on page 133)	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 (<i>SB-2024-007</i> on page 138)	1
QD85	14-01		11140394	Coil nut	1
QD751	14-01		001131 (9004201-5000)	O-ring	1

Order code: M5

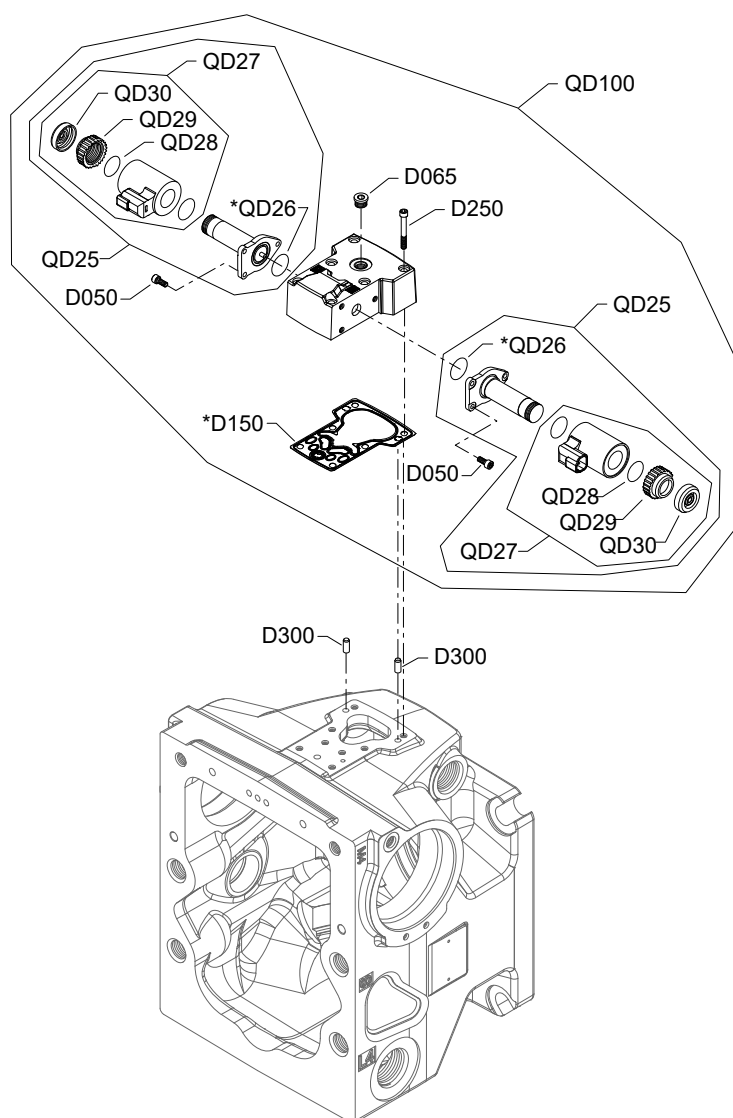
QD70	14-01		11231212	Solenoid valve, 12v (<i>SB-2024-007</i> on page 138)	1
QD83	24-01		11253939	Coil kit, 12v (<i>SB-2024-007</i> on page 138)	1
QD100	14-01		11218978	MDC kit, 12v, neutral start switch assembly, CCO	1

Order code: M6

QD70	14-01		11231213	Solenoid valve, 24v (<i>SB-2024-007</i> on page 138)	1
QD83	24-01		11253938	Coil kit, 24v (<i>SB-2024-007</i> on page 138)	1
QD100	14-01		11218979	MDC kit, 24v, neutral start switch assembly, CCO	1

H1P control N1, N2

N1 and N2 configuration



Generic housing shown

* Included in overhaul seal kit Q210

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

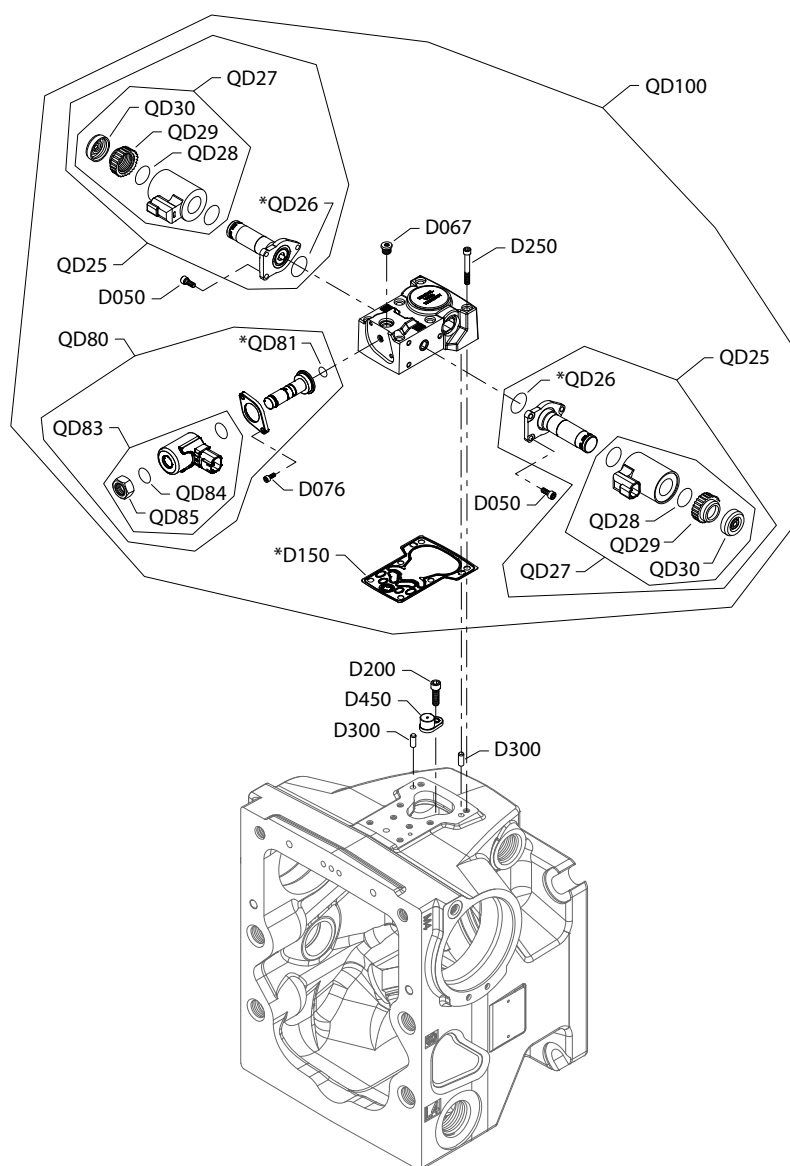
QD25	16-30		140750	Proportional solenoid, 12v, DEUTSCH connector	2
QD27	16-30		11004698	Coil kit, 12v, DEUTSCH connector	2
QD29	16-30		11319330	Coil nut	2
QD100	16-30		11147921	NFPE control kit, 12v, manual override, DEUTSCH connector	1

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

H1P control N3, N4

N3 and N4 configuration



Generic housing shown

* Included in overhaul seal kit Q210

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

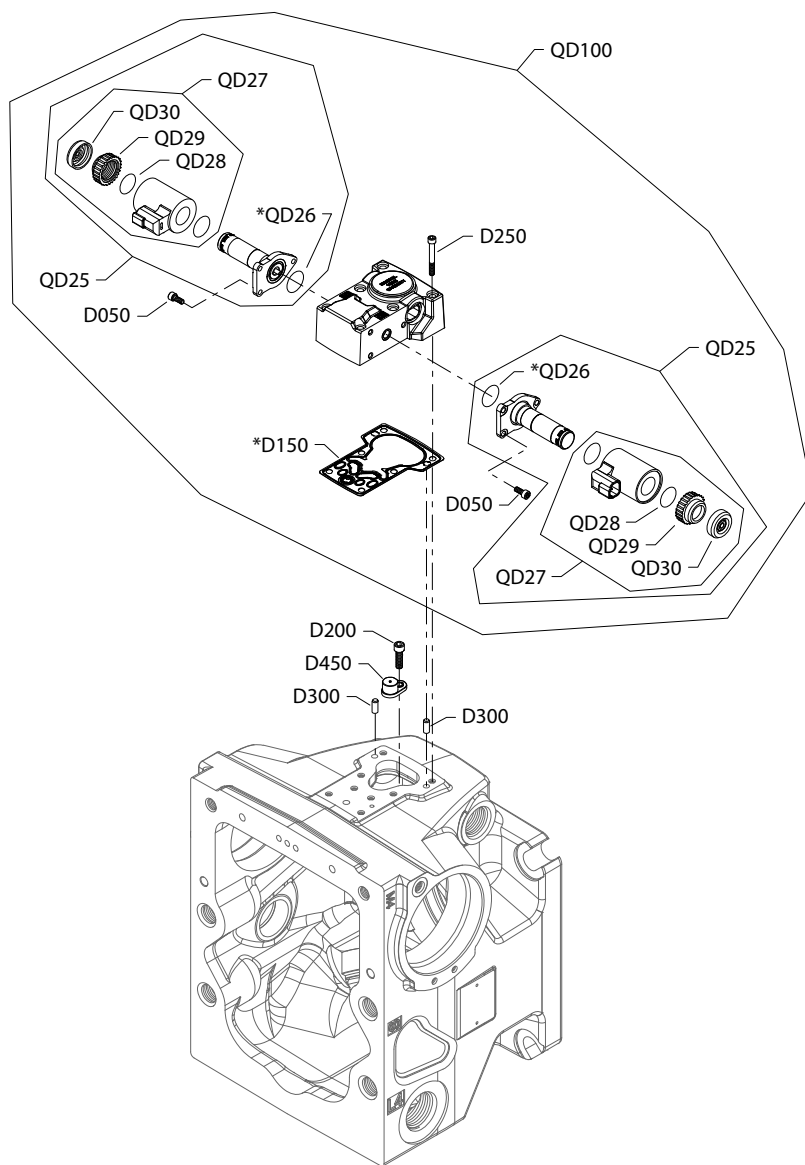
QD25	16-30		140750	Proportional solenoid, 12v	2
QD27	16-30		11004698	Coil kit, 12v, DEUTSCH connector	2
QD29	16-30		11319330	Coil nut	2
QD80	16-30		11231200	Solenoid, 12V, DEUTSCH connector	1
QD83	16-30		11232757	Coil kit, 12V, DEUTSCH connector	1
QD84	16-30		11232752	O-ring	1
QD100	16-30		11147920	NFPE 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

H1P control N5, N6

N5 and N6 configuration



Generic housing shown

* Included in overhaul seal kit Q210

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

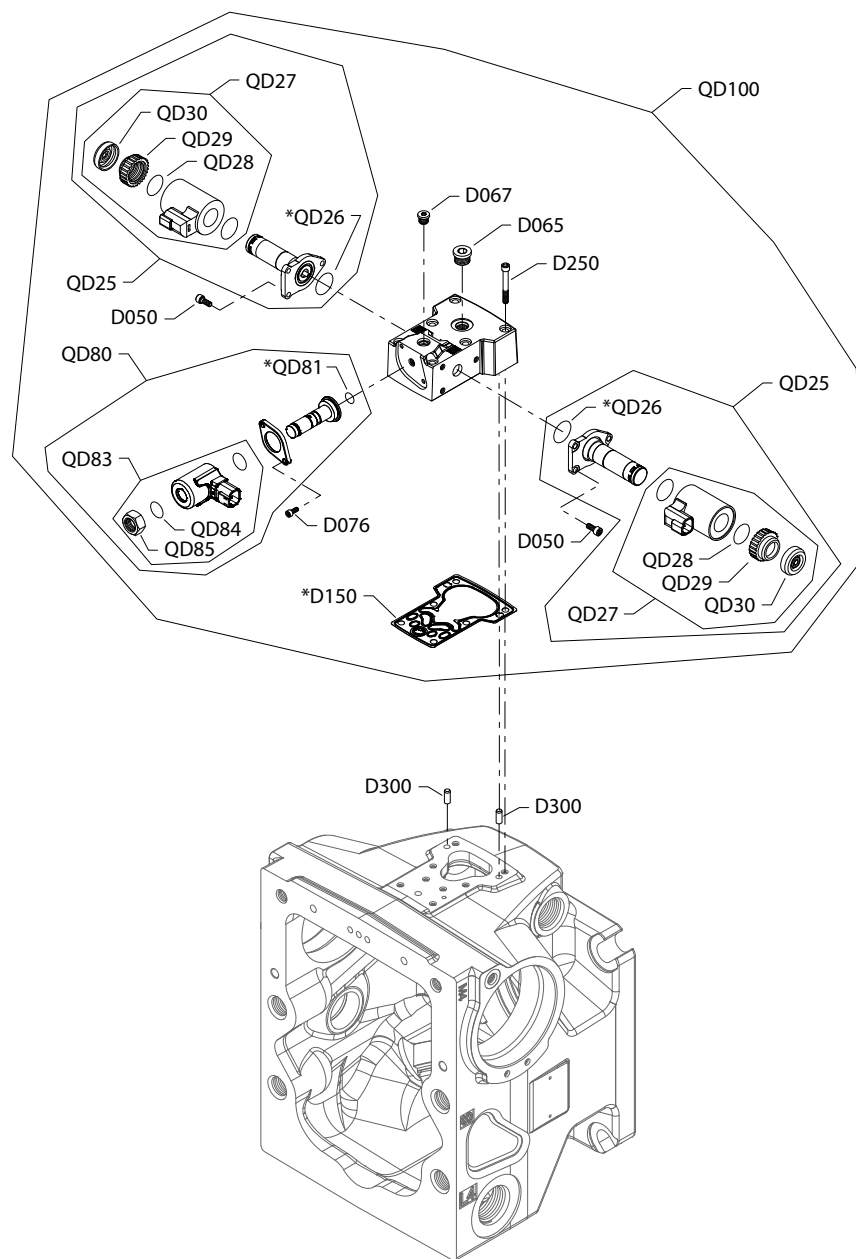
QD25	16-30		140750	Proportional solenoid, 12v	2
QD27	16-30		11004698	Coil kit, 12v, DEUTSCH connector	2
QD29	16-30		11319330	Coil nut	2
QD100	16-30		11147918	NFPE control kit, 12v, manual override	1

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

H1P control N7, N8

N7 and N8 configuration



Generic housing shown

* Included in overhaul seal kit Q210

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

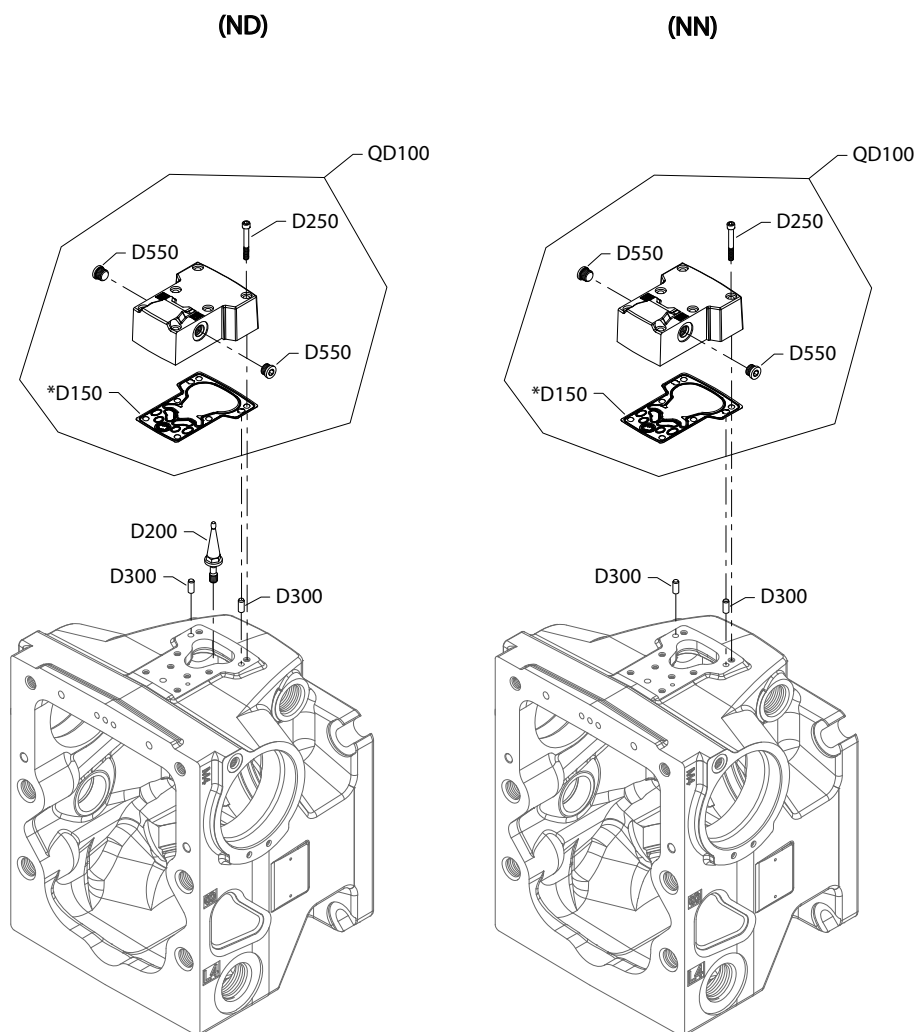
QD25	16-30		140750	Proportional solenoid, 12v	2
QD27	16-30		11004698	Coil kit, 12v, DEUTSCH connector	2
QD29	16-30		11319330	Coil nut	2
QD80	16-30		11231200	Solenoid, 12V, DEUTSCH connector	1
QD83	16-30		11232757	Coil kit, 12V, DEUTSCH connector	1
QD84	16-30		11232752	O-ring	1
QD100	16-30		11147919	NFPE 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

H1P control ND, NN

ND and NN configuration



Generic housing shown

* Included in overhaul seal kit Q210

Order code: ND

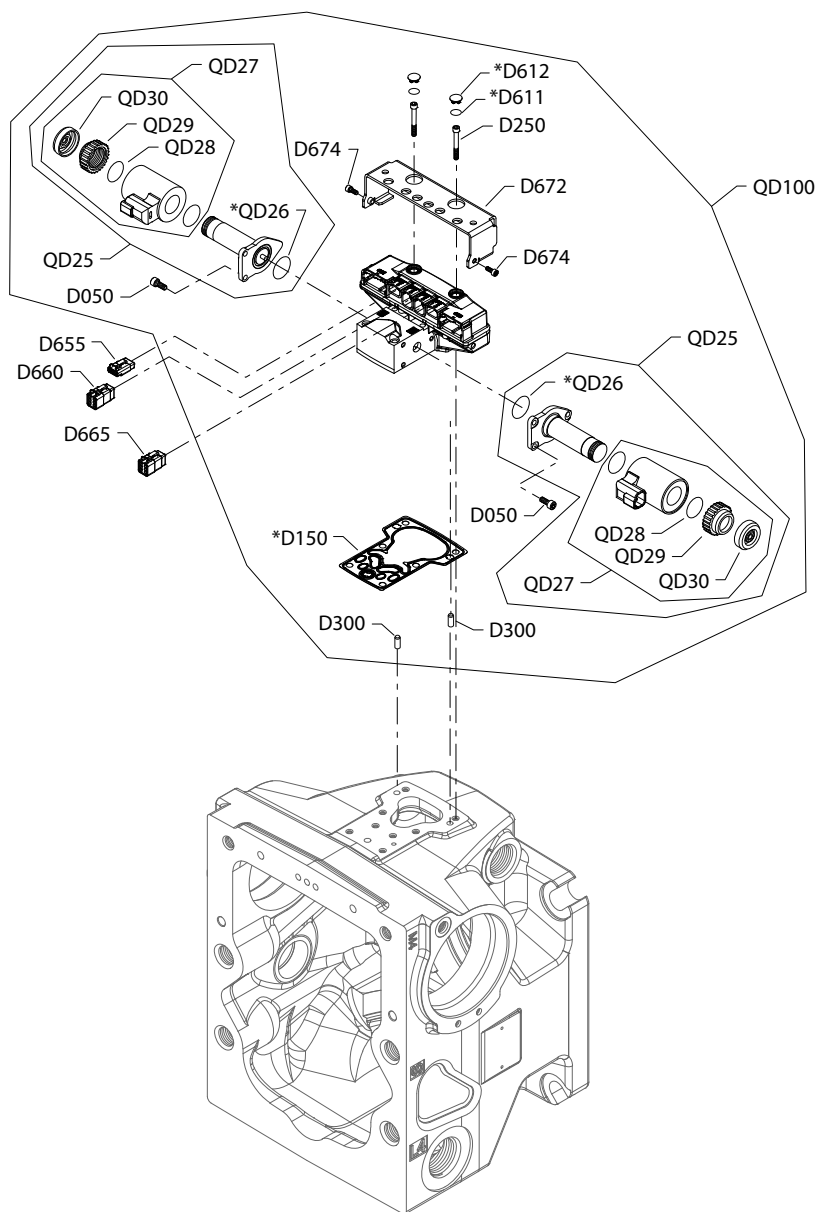
Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
D150	16-02		11227209	Control gasket	1
D200	16-02		11202172	Swashplate feedback link	1
D250	16-02		505038	Screw, M6 x 45	6
D300	16-02		310979	Dowel pin	2
D550	16-02		140644	Plug assembly	2
QD100	16-02		11121984	Control cover kit	1

Order code: NN

D150	14-01		11227209	Control gasket (<i>SB-2016-033</i> on page 129)	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

H1P control P5

P5 configuration



Note

Generic housing shown

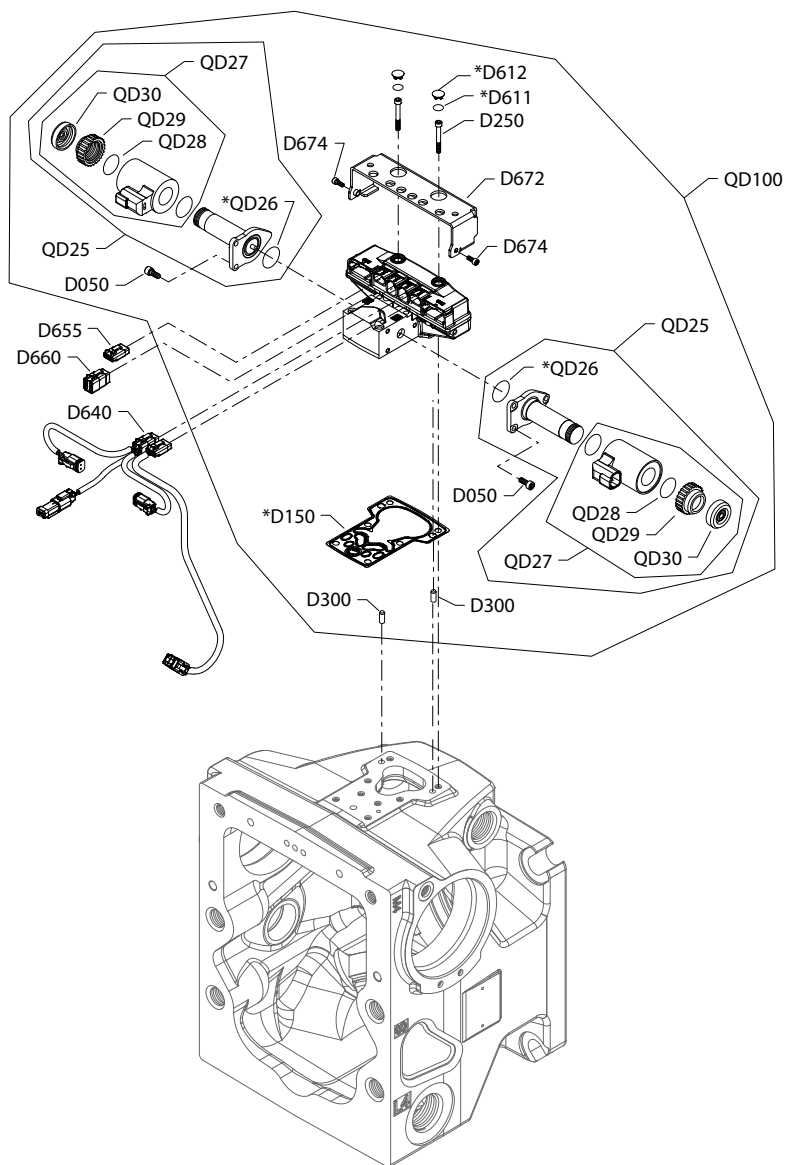
* Included in overhaul kit Q210

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 (<i>SB-2021-014</i> on page 137)	2
D611	21-13		11225703	O-ring	2
D612	17-15	21-12	11003126	Plug (<i>SB-2021-014</i> on page 137)	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

H1P control P6, P7

P6 and P7 configuration



Generic housing shown

* Included in overhaul seal kit Q210

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 (<i>SB-2021-014</i> on page 137)	2
D611	21-13		11225703	O-ring	2
D612	16-30	21-12	11003126	Plug (<i>SB-2021-014</i> on page 137)	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

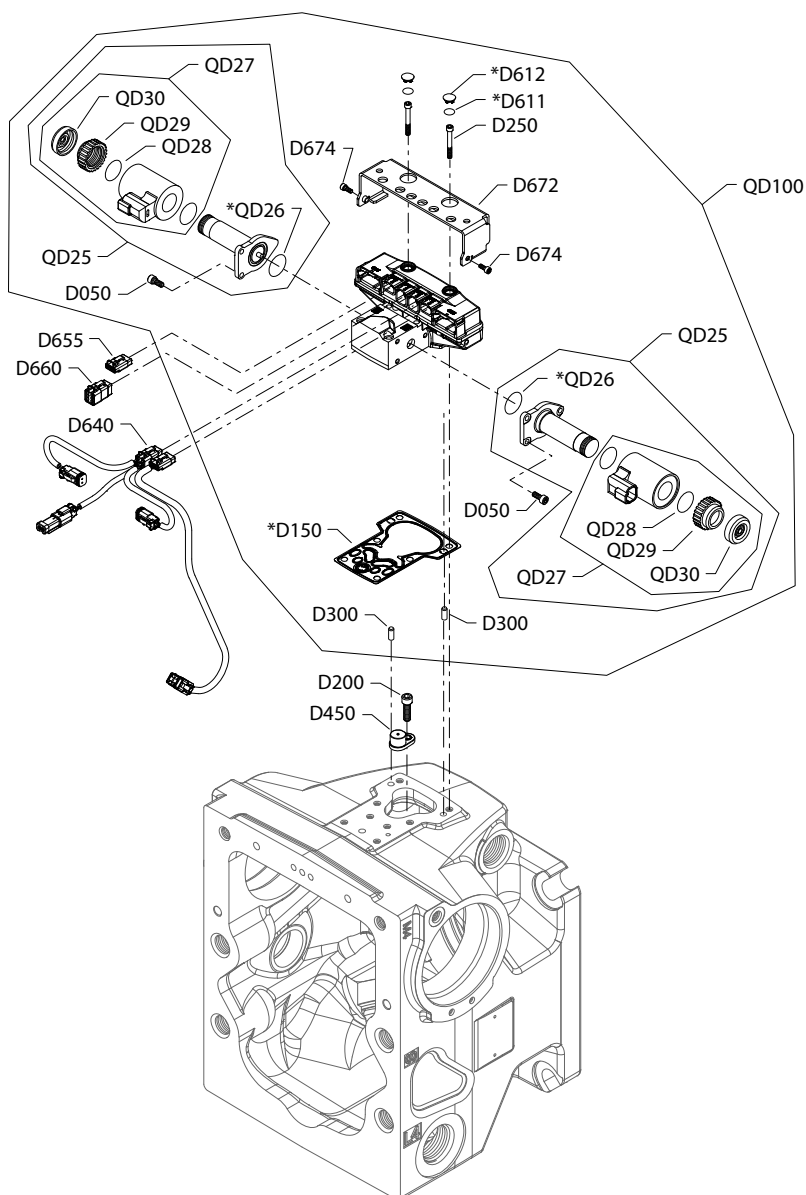
QD25	16-30		140750	Proportional solenoid, 12 volt	2
QD27	16-30		11004698	Coil kit, 12v, DEUTSCH connector	2
QD29	16-30		11319330	Coil nut	2
QD100	16-30		11232768	Automotive control kit, 12v, manual override	1

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

P8 and P9 configuration



Generic housing shown

* Included in overhaul seal kit Q210

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 (SB-2021-014 on page 137)	2
D611	21-13		11225703	O-ring	2
D612	16-30	21-12	11003126	Plug (SB-2021-014 on page 137)	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

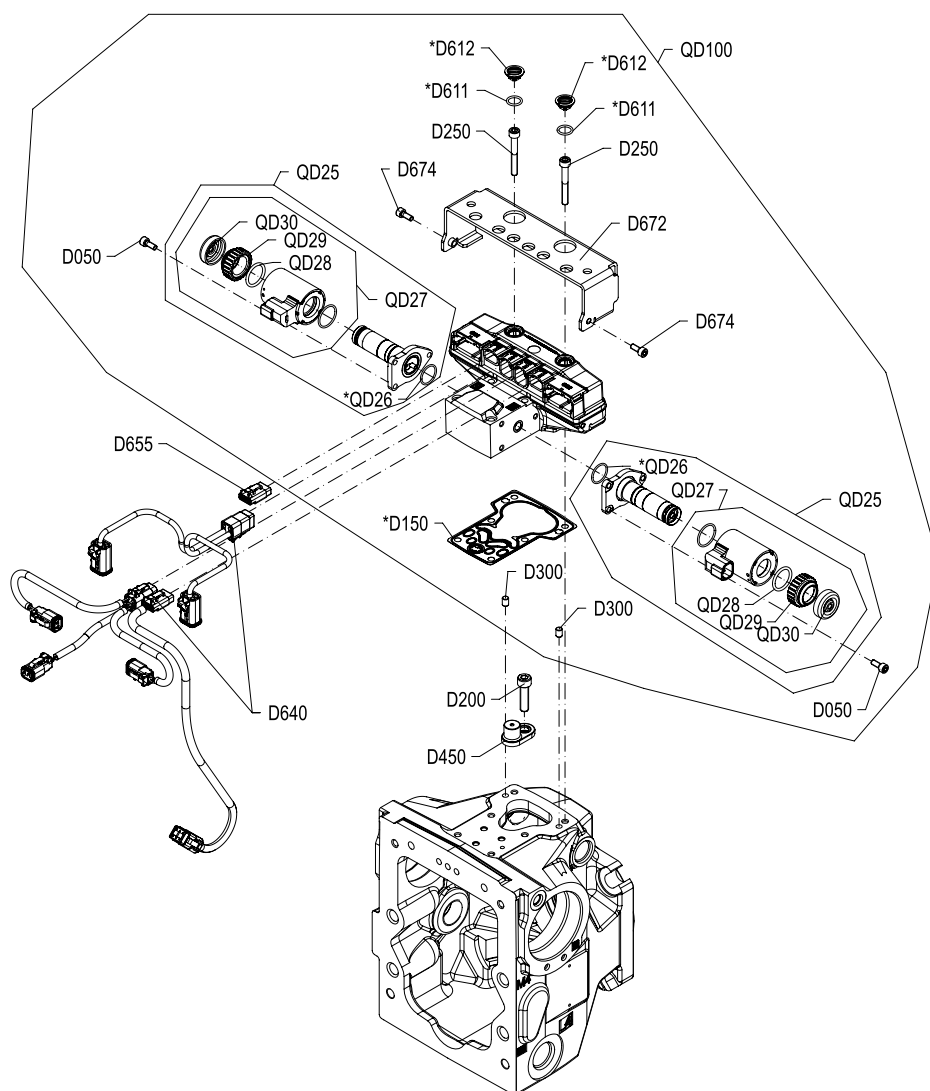
QD25	16-30		140750	Proportional solenoid, 12 volt	2
QD27	16-30		11004698	Coil kit, 12v, DEUTSCH connector	2
QD29	16-30		11319330	Coil nut	2
QD100	16-30		11232770	Automotive control kit, 12v, manual override	1

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

H1P control R1, R2

R1 and R2 configuration



Generic housing used to show part location only

* Included in overhaul seal kit Q210

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 (SB-2021-014 on page 137)	2
D611	21-13		11225703	O-ring	2
D612	16-30	21-12	11003126	Plug (SB-2021-014 on page 137)	2
D612	21-13		11223708	Plug	2
D640	16-30		11105876	AC wiring harness	1
D655	16-30		11084827	Blank, connector DTM 06-35	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

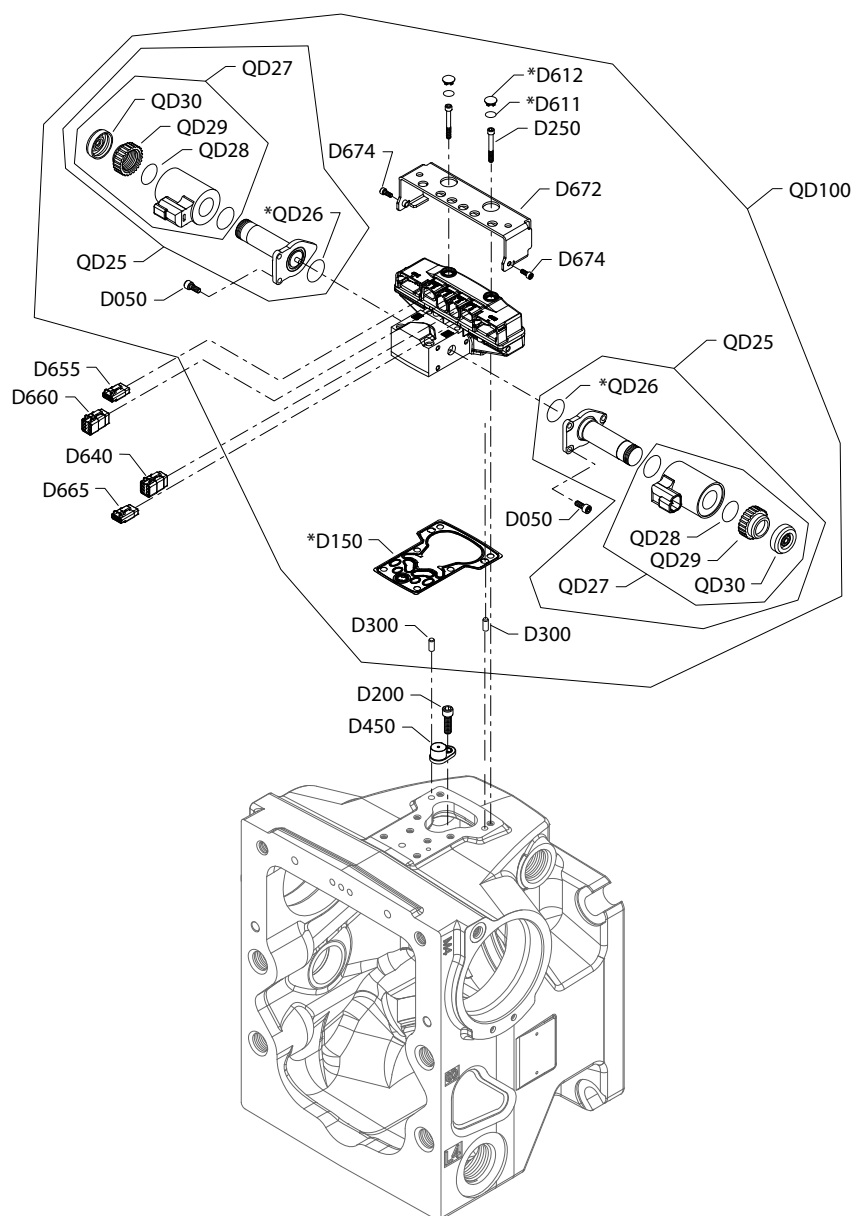
QD25	16-30		140750	Proportional solenoid, 12 volt	2
QD27	16-30		11004698	Coil kit, 12v, DEUTSCH connector	2
QD29	16-30		11319330	Coil nut	2
QD100	16-30		11232770	Automotive control kit, 12v, manual override	1

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

H1P control R3

R3 configuration



Generic housing shown

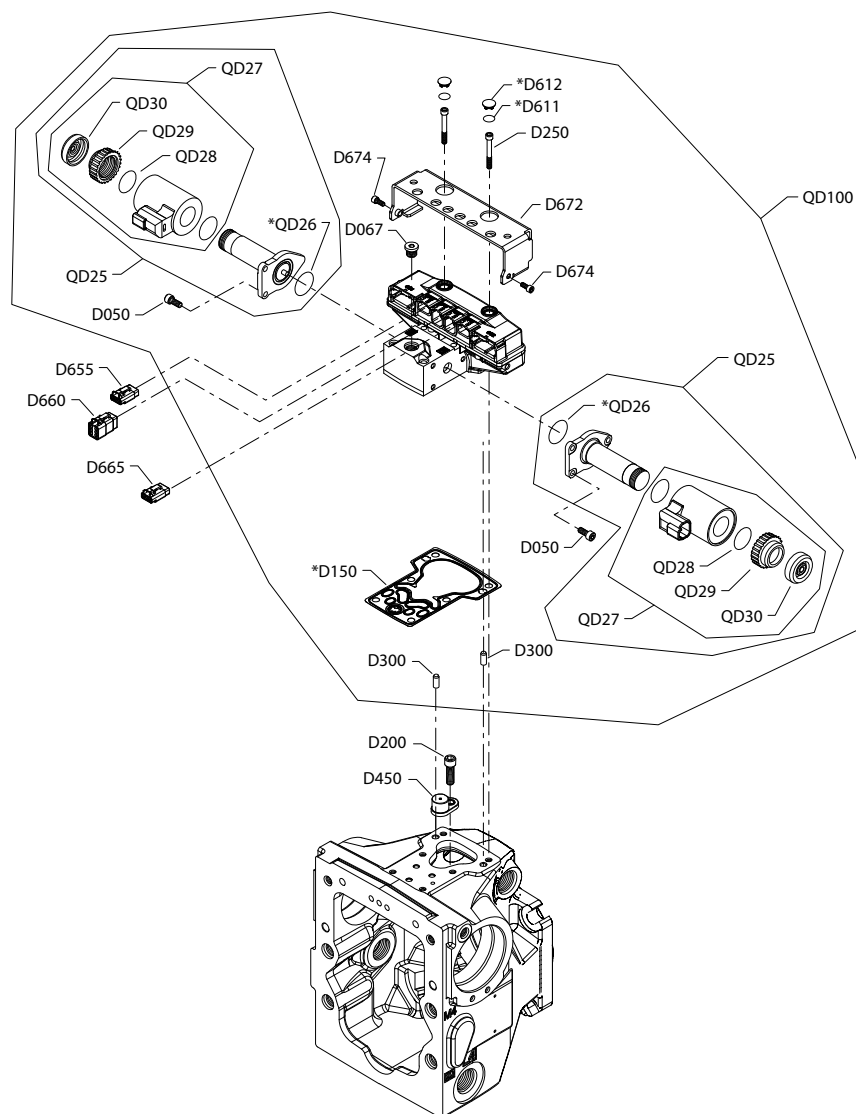
* Included in overhaul seal kit Q210

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 (SB-2021-014 on page 137)	2
D611	21-13		11225703	O-ring	2
D612	16-17	21-12	11003126	Plug (SB-2021-014 on page 137)	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

H1P control R4

R4 configuration



Generic housing shown

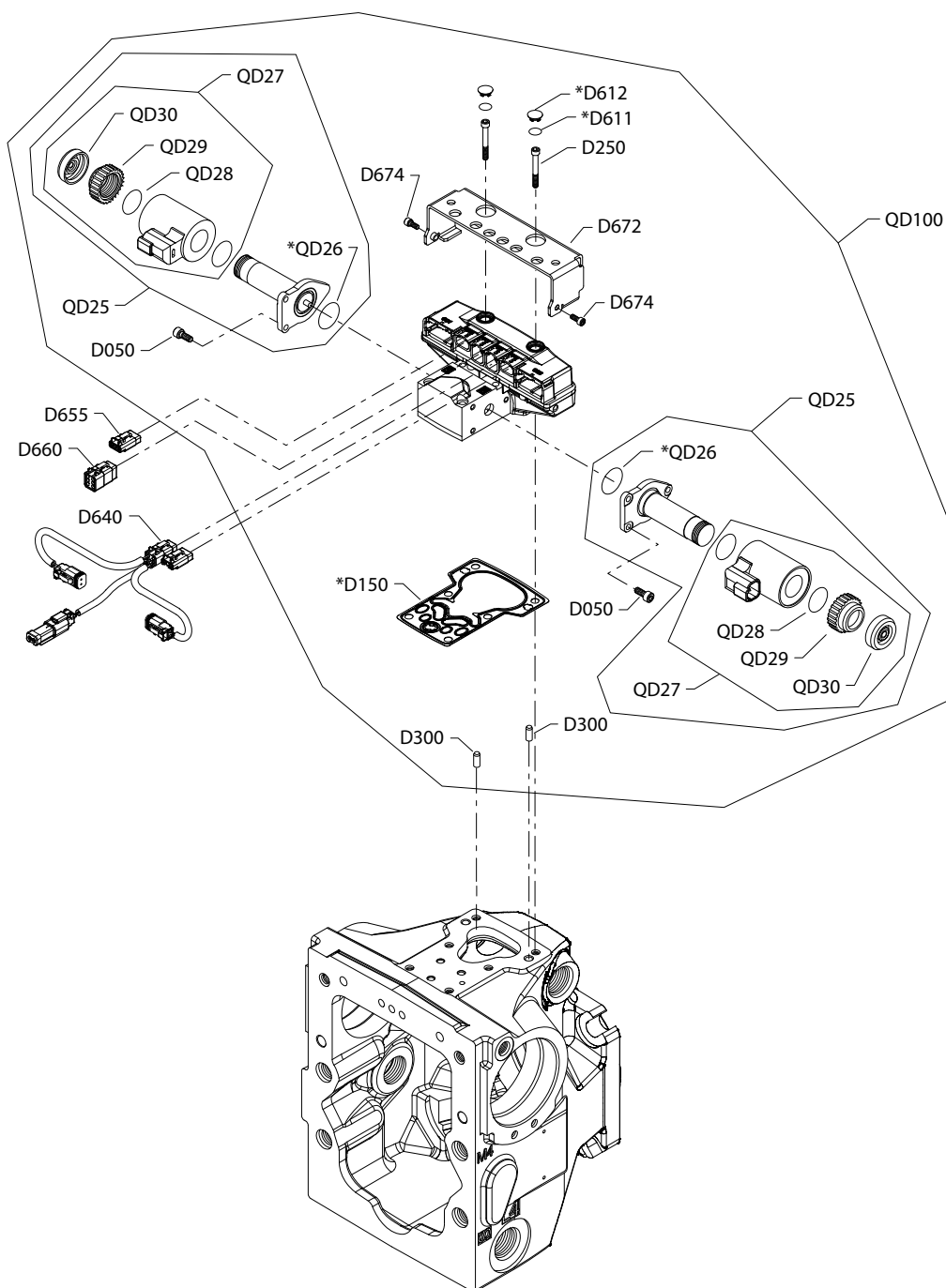
* Included in overhaul seal kit Q210

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 (SB-2021-014 on page 137)	2
D611	21-13		11225703	O-ring	2
D612	17-15	21-12	11003126	Plug (SB-2021-014 on page 137)	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

H1P control T6, T7

Parts configuration



Note

Generic housing shown

* Included in overhaul seal kit Q210

Order code: T6

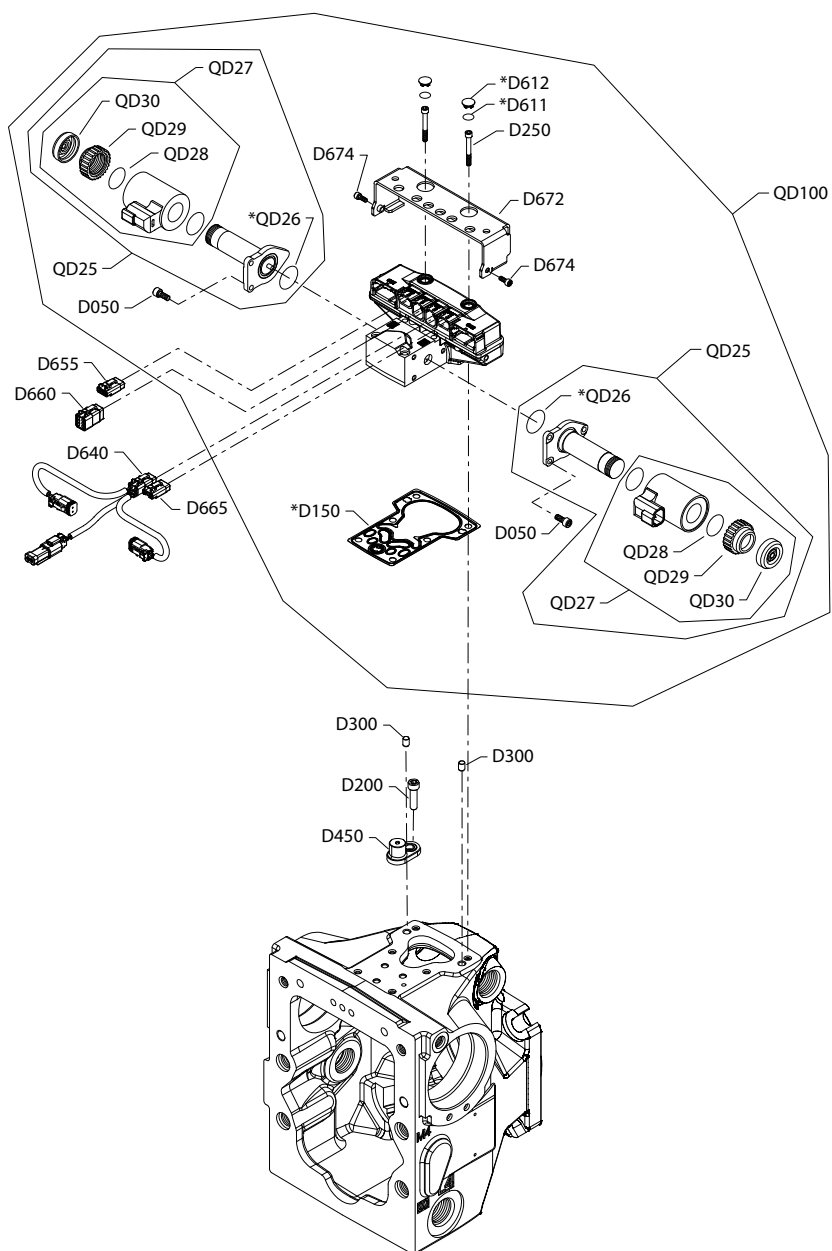
Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
D050	18-15		716860	Screw, M5 x 12	6
D150	18-15		11227209	Control Gasket	1
D250	18-15		505038	Screw, M6 x 45	6
D300	18-15		11036469	Dowel pin	2
D611	18-15	21-12	11066774	O-ring (SB-2021-014 on page 137)	2
D611	21-13		11225703	O-ring	2
D612	18-15	21-12	11003126	Plug (SB-2021-014 on page 137)	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 (SB-2021-014 on page 137)	2
D611	21-13		11225703	O-ring	2
D612	18-15	21-12	11003126	Plug (SB-2021-014 on page 137)	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

H1P control T8, T9

Parts configuration



Generic housing shown

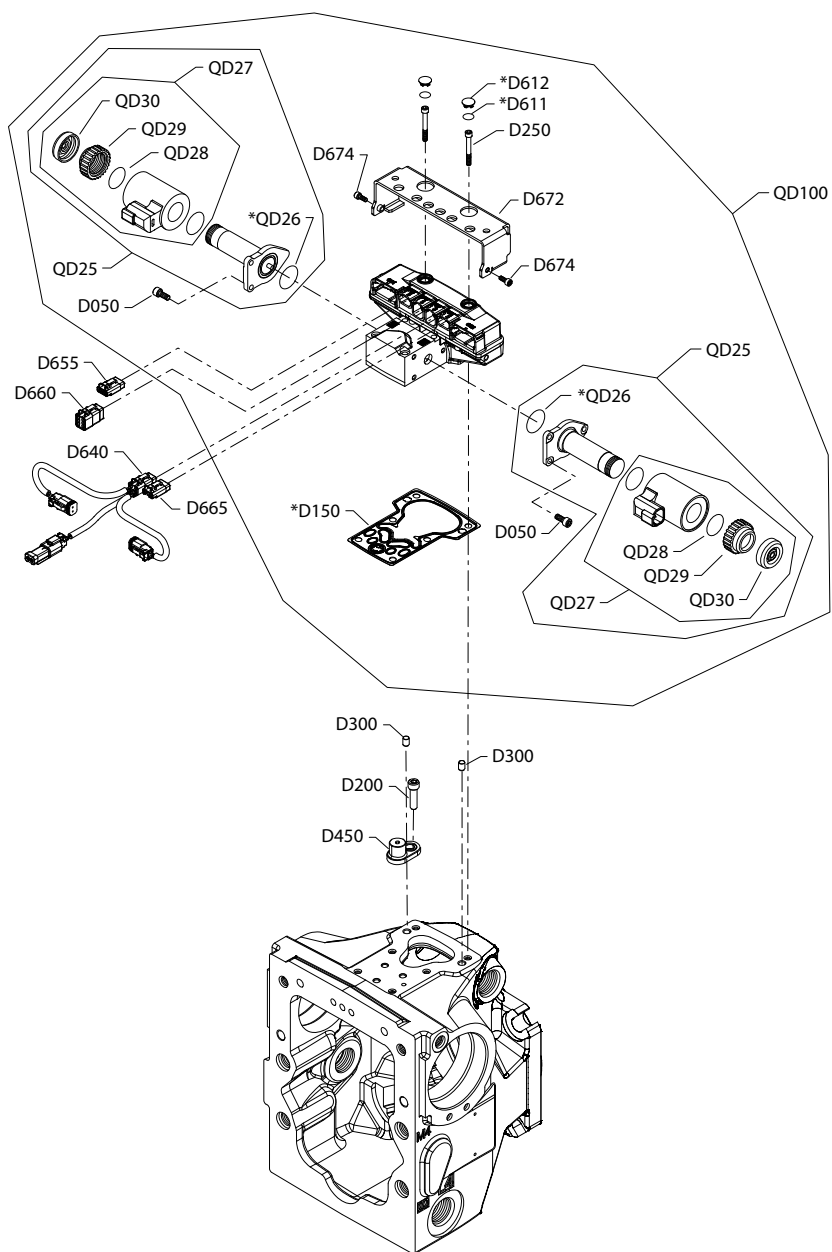
* Included in overhaul seal kit Q210

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 (SB-2021-014 on page 137)	2
D611	21-13		11225703	O-ring	2
D612	18-12	21-12	11003126	Plug (SB-2021-014 on page 137)	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.

Order code T8, T9



Generic housing shown

* Included in overhaul seal kit Q210

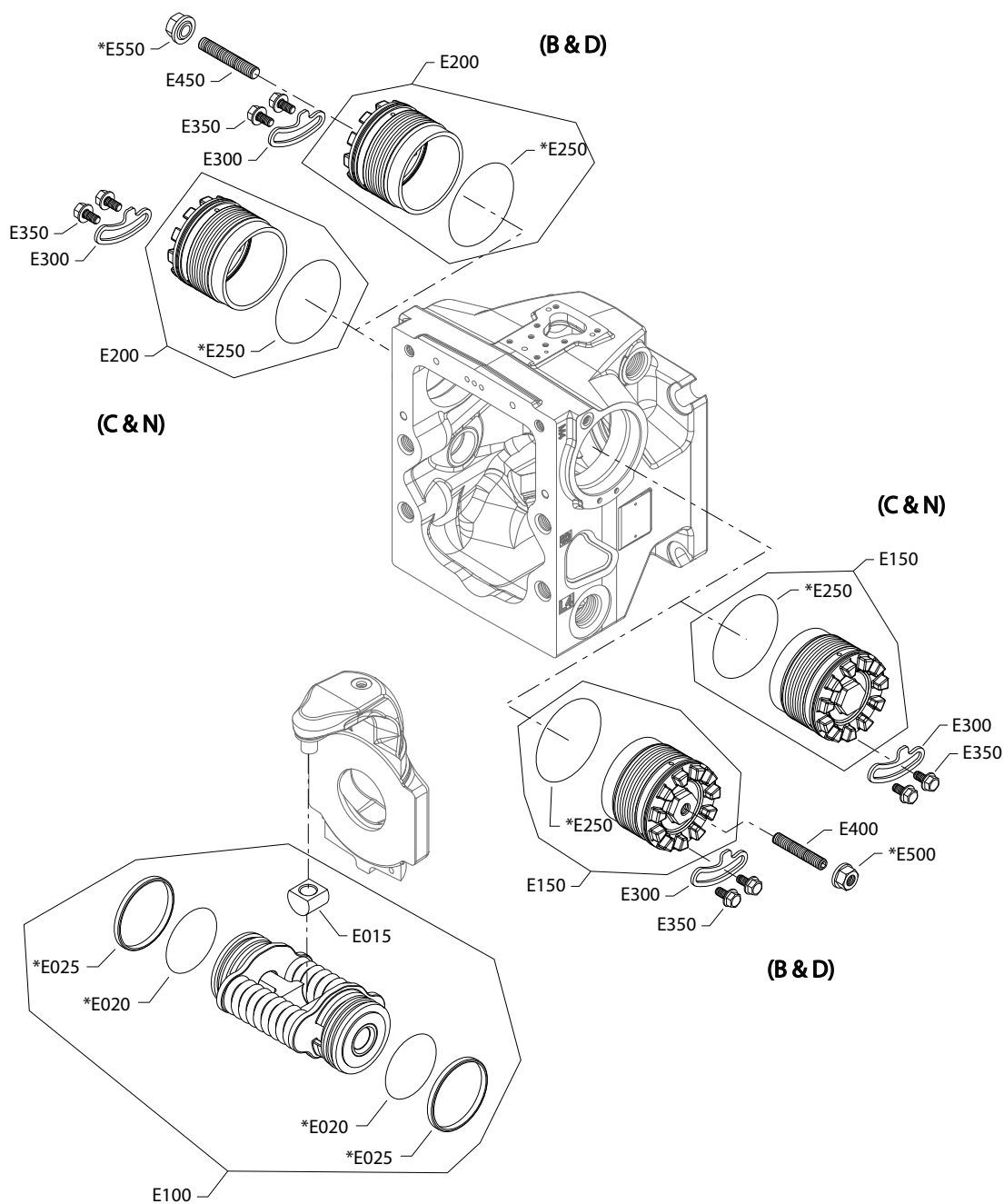
Order code: T9

Item	Date begin	Date end	Part number	Part name	Qty. per model/kit
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 (SB-2021-014 on page 137)	2
D611	21-13		11225703	O-ring	2
D612	18-12	21-12	11003126	Plug (SB-2021-014 on page 137)	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

Displacement limitation

H1P Displacement limitation

Parts configuration



* Included in overhaul seal kit Q210

Common parts

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
E015	14-01		11141992	Slider block	1
E020	14-01		545434	O-ring	2
E025	14-01		11075562	Piston ring	2
E250	14-01		733295	O-ring	2
E300	14-01		11229549	Locking plate	2
E350	14-01		508438	Screw, M6 x 12	4

Order code: B

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

Order code: C

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

Order code; D

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

Order code: N

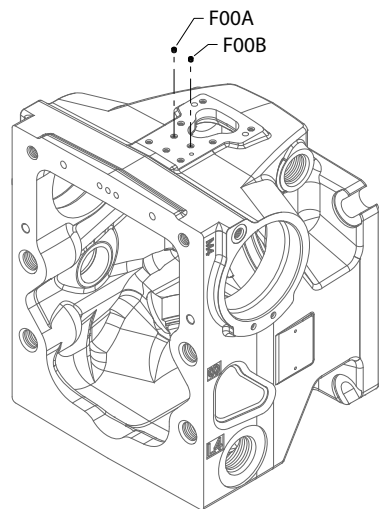
E100	14-01		11061435	Servo piston assembly	1
E150	14-01		11089777	Servo cylinder assembly	1
E200	14-01		11089777	Servo cylinder assembly	1

Orifice

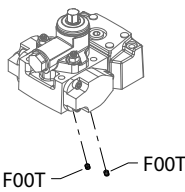
H1P orifice C-E

Parts configuration

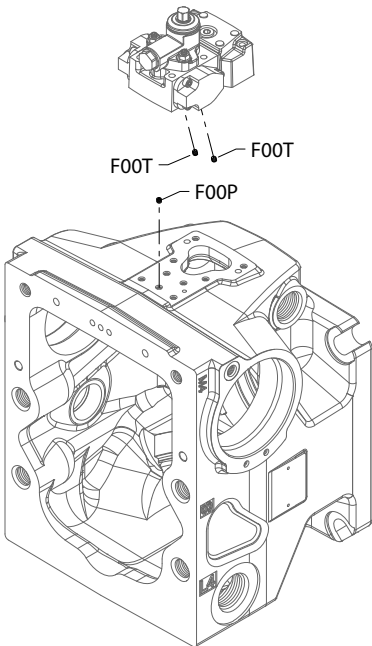
(C1, C2, C4, D8, E1)



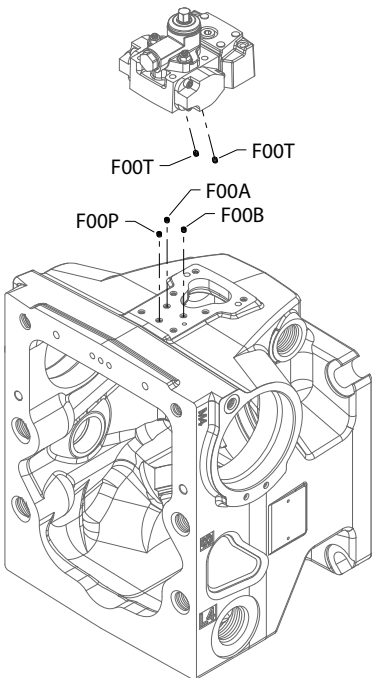
(C6 & C7)



(D3, D6, E5)



(D4)



E103 361E

Generic controls and housings shown.

Order code: C1

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

Order code: C2

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

Order code: C3

No parts					
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Order code: C4

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

Order code: C6

F00T	14-01		11151734	Orifice, 1.0, M6 x 0.75 mm	2
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Order code: C7

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

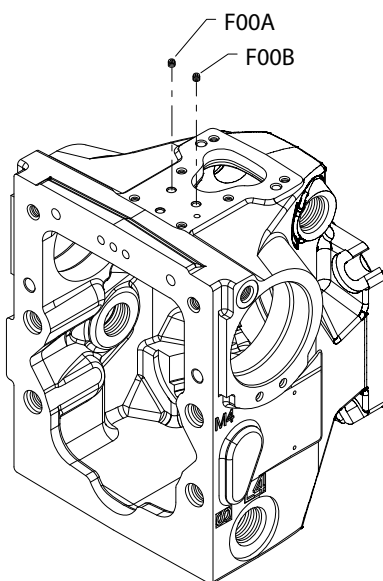


Note

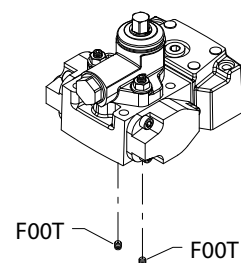
Parts continue to the next 2 pages.

Parts configuration

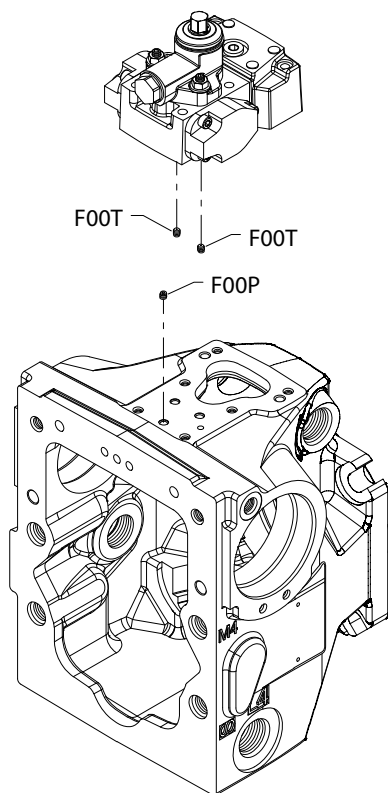
(C1, C2, C4, C5, D8, E1)



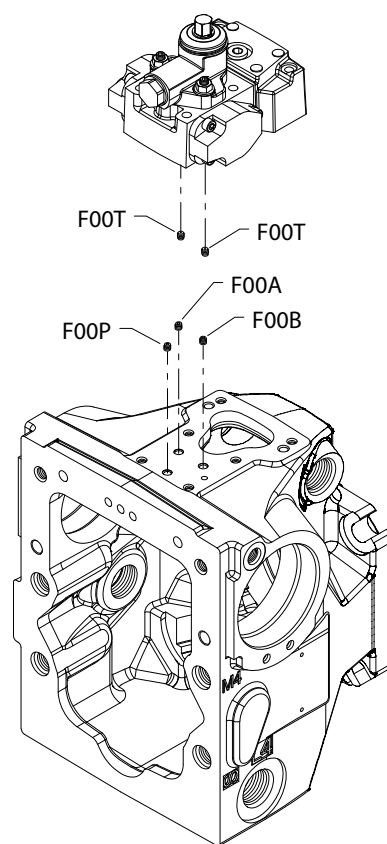
(C6, C7)



(C8, C9, D1, D2, D3, D6, E5)



(D4, D5)



Generic controls and housings shown.

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

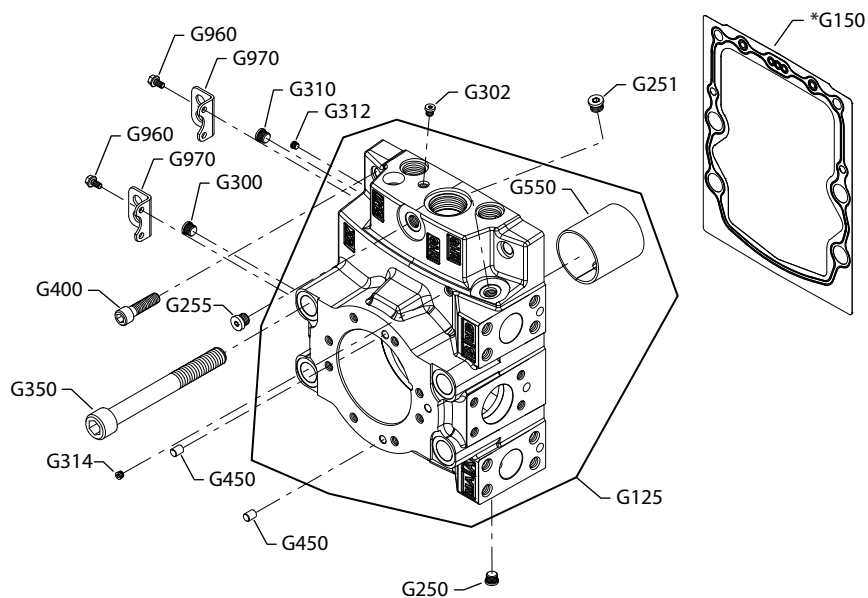
Order code: E5

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 210/250/280cc end cap D4

Parts configuration



Note

This option is only available in metric configurations.

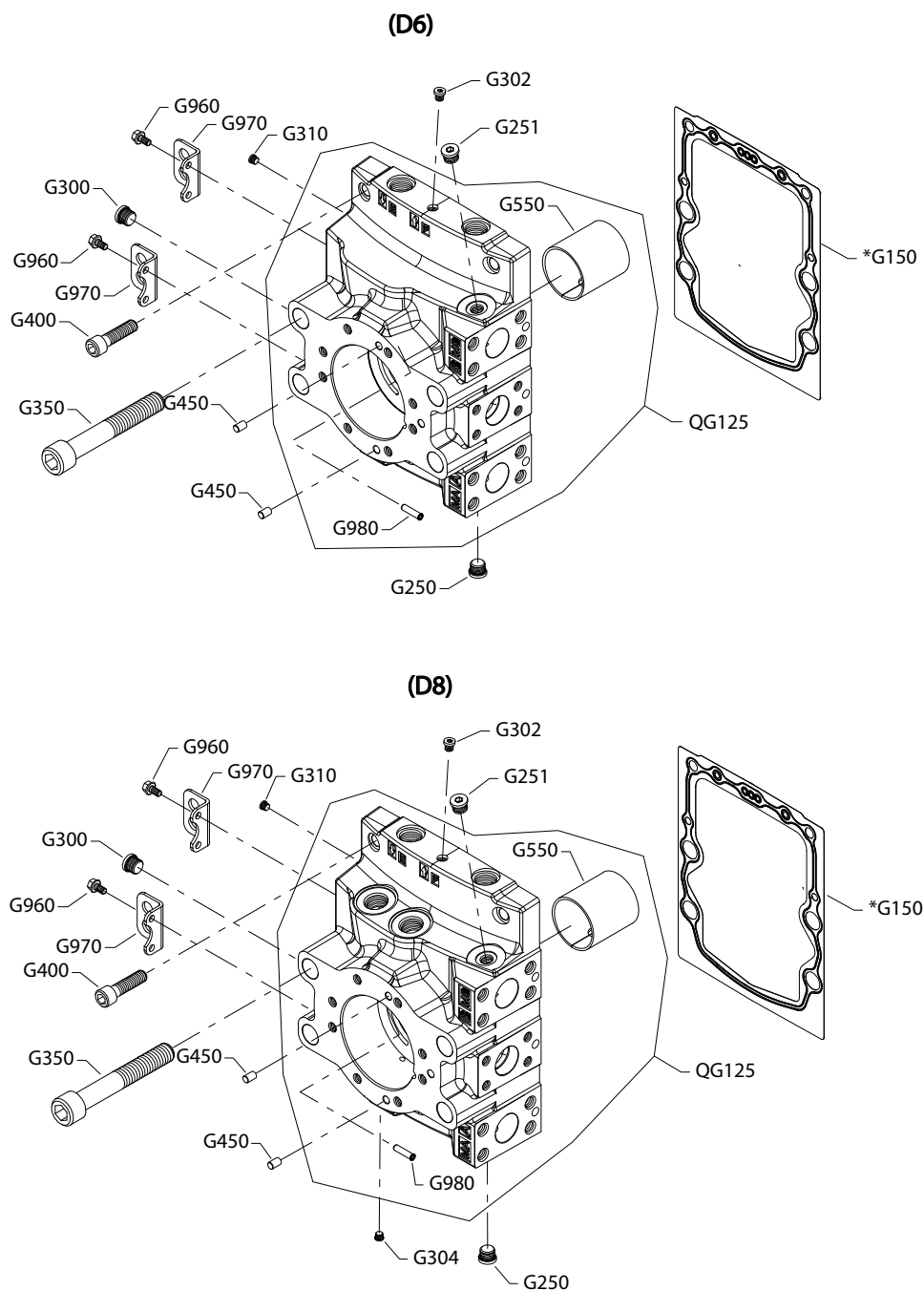
* Included in overhaul seal kit Q210

Order code: D4

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

H1P 210/250/280cc end cap D6, D8

D6 and D8 configuration



* Included in overhaul seal kit Q210

Common parts

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

Order code: D6

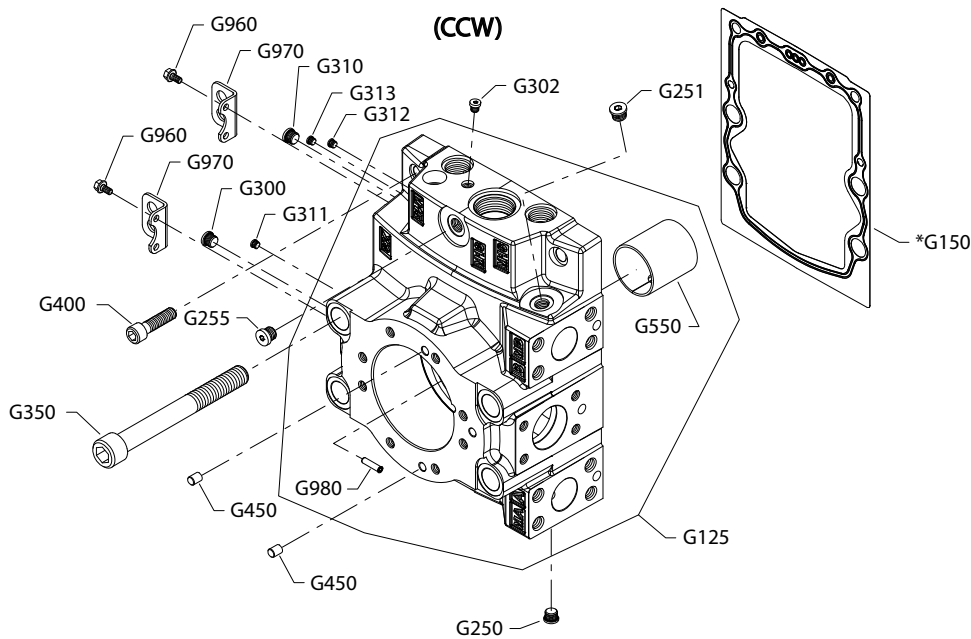
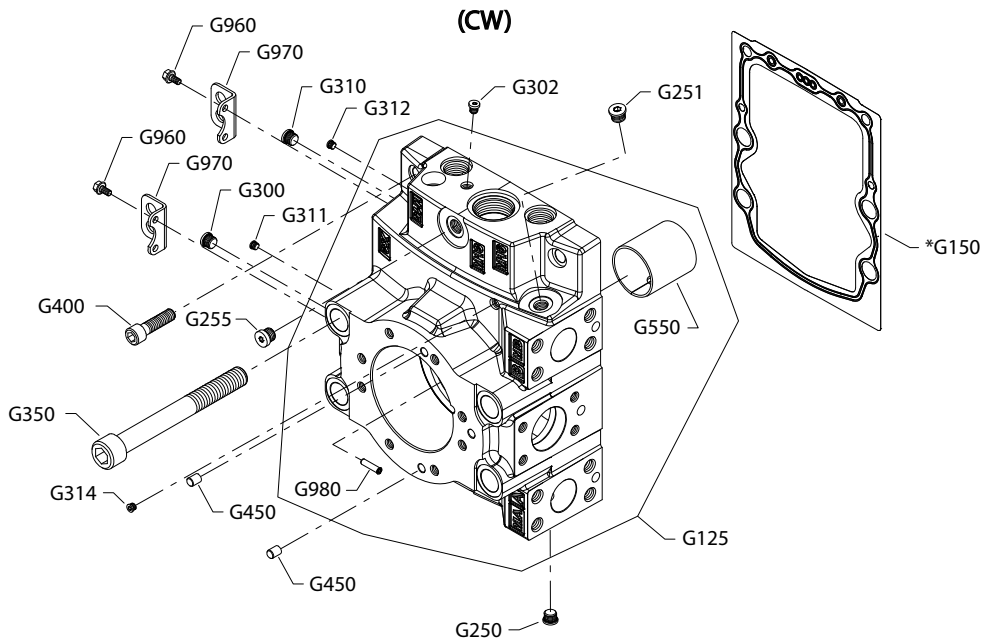
G125	14-01		11061890	End cap assembly, CW	1
G125	14-01		11061915	End cap assembly, CCW	1

Order code: D8

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

H1P 210/250cc end cap J1

J1 (clockwise and counterclockwise) configuration



* Included in overhaul seal kit Q210



Note

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

Common parts

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

Order code: J1 (CW)

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

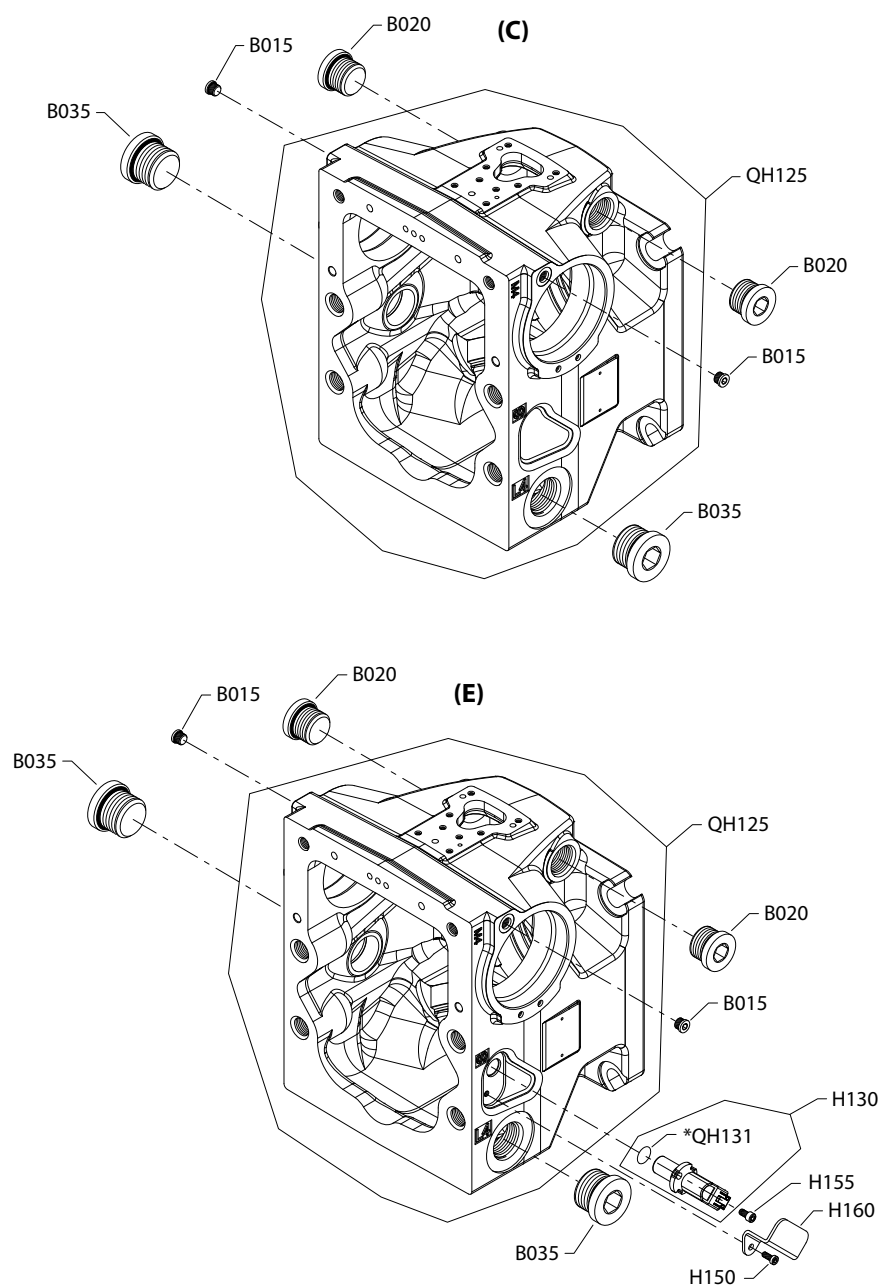
Order code: J1 (CCW)

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

Housing

H1P 210/250cc housing C, E

C and E configuration



* Included in overhaul seal kit Q210



Note

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

Common parts

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
B015	14-01		140642	Plug assembly (SAE)	2
B020	14-01		320002 (9005110-9200)	Plug assembly (SAE)	2
B035	14-01		676734 (9005110-9500)	Plug assembly (SAE)	2

Order code: C

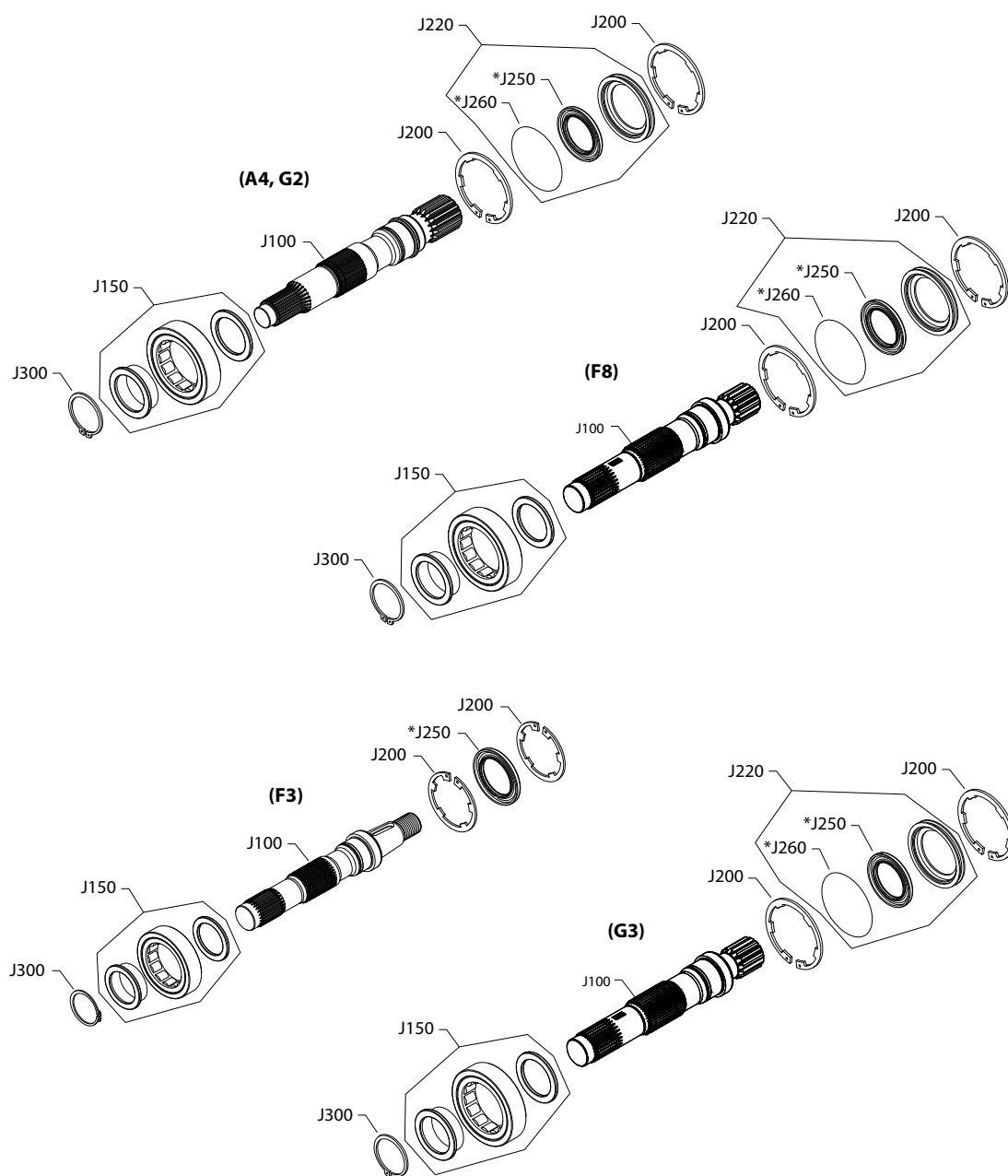
B015	14-01		5000572	Plug assembly, M12 (metric)	2
B020	14-01		11164204	Plug assembly, M33 (metric)	2
B035	14-01		11164205	Plug assembly, M42 (metric)	2
QH125	14-01		11078868	Housing assembly (SAE)	1
QH125	14-01		11164609	Housing assembly (metric)	1

Order code: E

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

Shaft

H1P 210/250/280cc shaft A4-G3



* Included in overhaul seal kit

Order code: A4

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
J100	17-37		11179446	Shaft, 27 tooth spline, M16 (<i>SB-2018-008</i> on page 131)	1
J150	14-01		11031971	Roller bearing	1
J200	14-01		11062141	Retaining ring	2
J220	14-01		11061439	Shaft seal assembly	1
J250	14-01		11024711	Lip seal	1
J260	14-01		056754	O-ring	1
J300	14-01		11062140	Retaining ring	1

Order code: F3

J100	17-36		11179450	Shaft, taper 44-3 (<i>SB-2018-008</i> on page 131)	1
J150	11-20		11031971	Roller bearing	1
J200	11-20		11062141	Retaining ring	2
J220	11-20		11061439	Shaft seal assembly	1
J250	11-20		11024711	Lip seal	1
J260	11-20		056754	O-ring	1
J300	11-20		11062140	Retaining ring	1

Order code: F8

J100	17-37		11179448	Shaft, 17 tooth spline (<i>SB-2018-008</i> on page 131)	1
J150	14-01		11031971	Roller bearing	1
J200	14-01		11062141	Retaining ring	2
J220	14-01		11061439	Shaft seal assembly	1
J250	14-01		11024711	Lip seal	1
J260	14-01		056754	O-ring	1
J300	14-01		11062140	Retaining ring	1

Order code: G2

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
J100	17-37		11179447	Shaft, 27 tooth spline (<i>SB-2018-008</i> on page 131)	1
J150	14-01		11031971	Roller bearing	1
J200	14-01		11062141	Retaining ring	2
J220	14-01		11061439	Shaft seal assembly	1
J250	14-01		11024711	Lip seal	1
J260	14-01		056754	O-ring	1
J300	14-01		11062140	Retaining ring	1

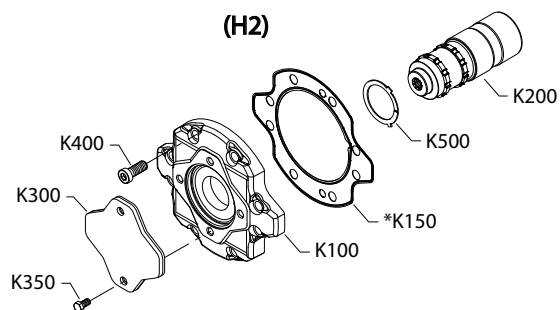
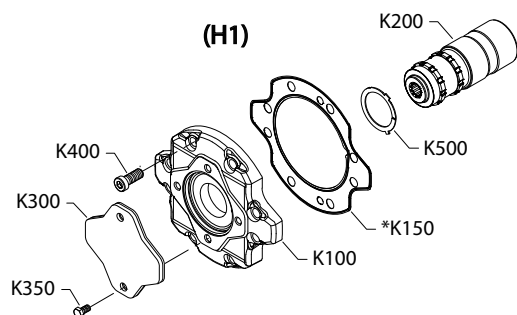
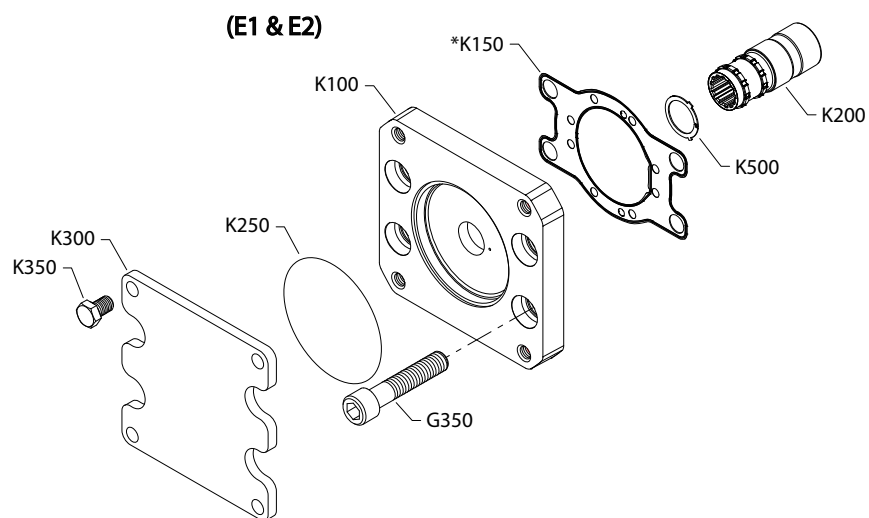
Order code: G3

J100	17-37		11179449	Shaft, 13 tooth spline (<i>SB-2018-008</i> on page 131)	1
J150	14-01		11031971	Roller bearing	1
J200	14-01		11062141	Retaining ring	2
J220	14-01		11061439	Shaft seal assembly	1
J250	14-01		11024711	Lip seal	1
J260	14-01		056754	O-ring	1
J300	14-01		11062140	Retaining ring	1

Auxiliary mounting

H1P 210/250/280cc aux mounting E1-E2, H1-H2

Parts configuration



* Included in overhaul seal kit Q210

Order code: E1

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

Order code: E2

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

Order code: H1

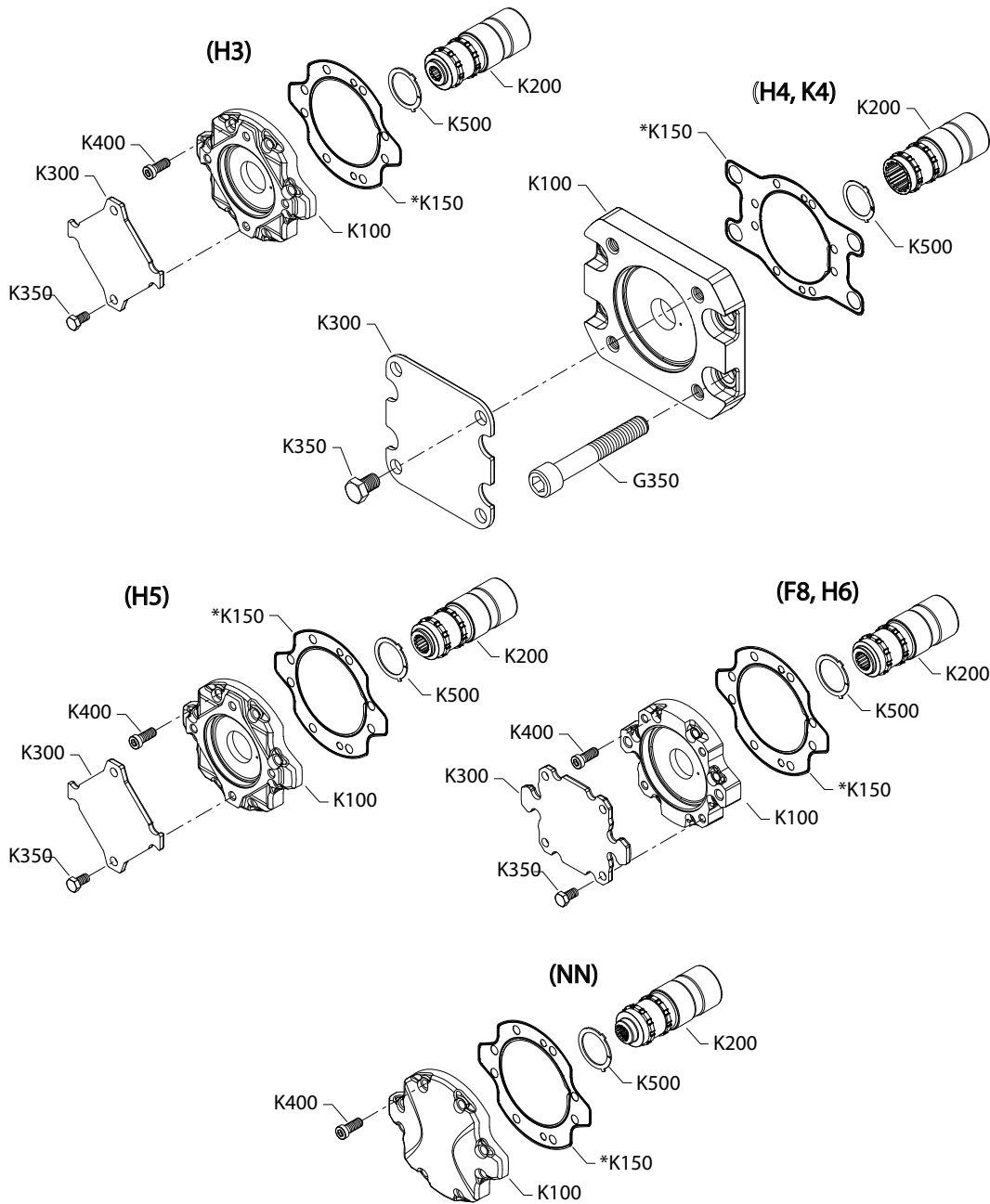
K100	14-01		11002191	Adapter flange, SAE A	1
K150	14-01		11002236	Adapter seal	1
K200	14-01		11031956	Charge pump shaft, 11 tooth	1
K300	14-01		11165482	Flange cover	1
K350	14-01		370247	Screw, M10 x 20	2
K400	14-01		140700	Screw, M12 x 30	8
K500	14-01		11001182	Thrust washer	1

Order code: H2

K100	14-01		11002191	Adapter flange, SAE A	1
K150	14-01		11002236	Adapter seal	1
K200	14-01		11031955	Charge pump shaft, 9 tooth	1
K300	14-01		11165482	Flange cover	1
K350	14-01		370247	Screw, M10 x 20	2
K400	14-01		140700	Screw, M12 x 30	8
K500	14-01		11001182	Thrust washer	1

H1P 210/250/280cc aux mounting F8, H3-NN

Parts configuration



* Included in overhaul seal kit Q210

Order code: F8

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

Order code: H3

K100	14-01		11002192	Adapter flange, SAE B	1
K150	14-01		11002236	Adapter seal	1
K200	14-01		11190388	Charge pump shaft, 13 tooth, 16/32 pitch	1
K300	14-01		11023747	Flange cover	1
K350	14-01		509528	Screw, M12 x 20	2
K400	14-01		140700	Screw, M12 x 30	8
K500	14-01		11001182	Thrust washer	1

Order code: H4

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

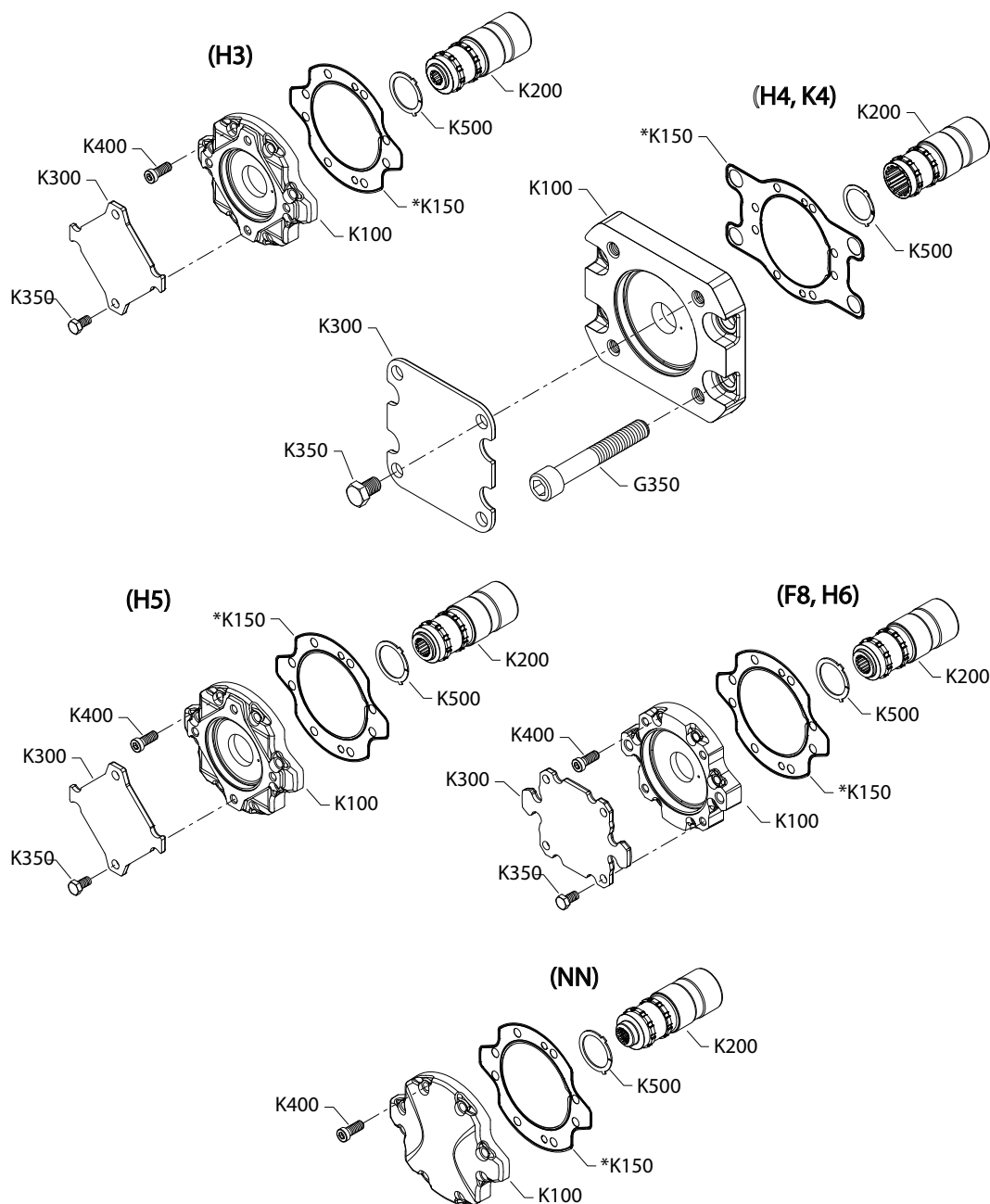
Order code: H5

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

**Note**

Parts continue to the next 2 pages.

Parts configuration



* Included in overhaul seal kit Q210

Order code: H6

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
K100	14-01		11138744	Adapter flange, SAE C (<i>SB-2018-036</i> on page 133)	1
K150	14-01		11002236	Adapter seal	1
K200	14-01		11191011	Charge pump shaft, 14 tooth, 12/24 pitch	1
K300	14-01		11165485	Flange cover	1
K350	14-01		509528	Screw, M12 x 20	4
K400	14-01		140700	Screw, M12 x 30 (<i>SB-2018-036</i> on page 133)	8
K500	14-01		11001182	Thrust washer	1

Order code: K4

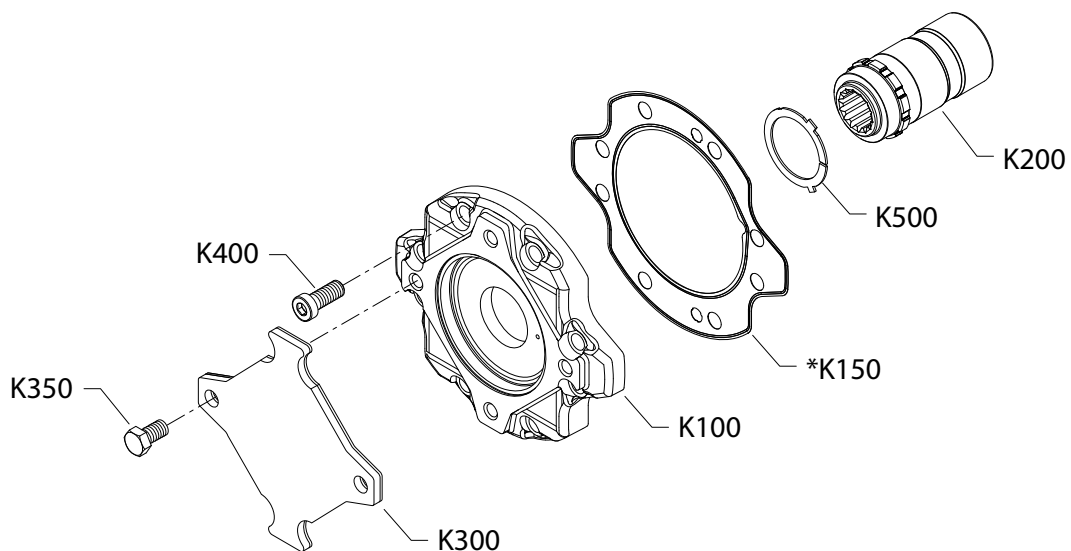
K100	24-50		11069791	Adapter flange, no pad	1
K150	24-50		11069670	Adapter seal	1
K200	24-50		11082010	Charge pump shaft, 27 tooth, 16/32 pitch	1
K300	24-50		11023751	Flange cover	1
K350	24-50		11024165	Screw, M20 x 30	4
K500	24-50		11001182	Thrust washer	1

Order code: NN

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

H1P 210/250/280cc aux mounting P6

Parts configuration



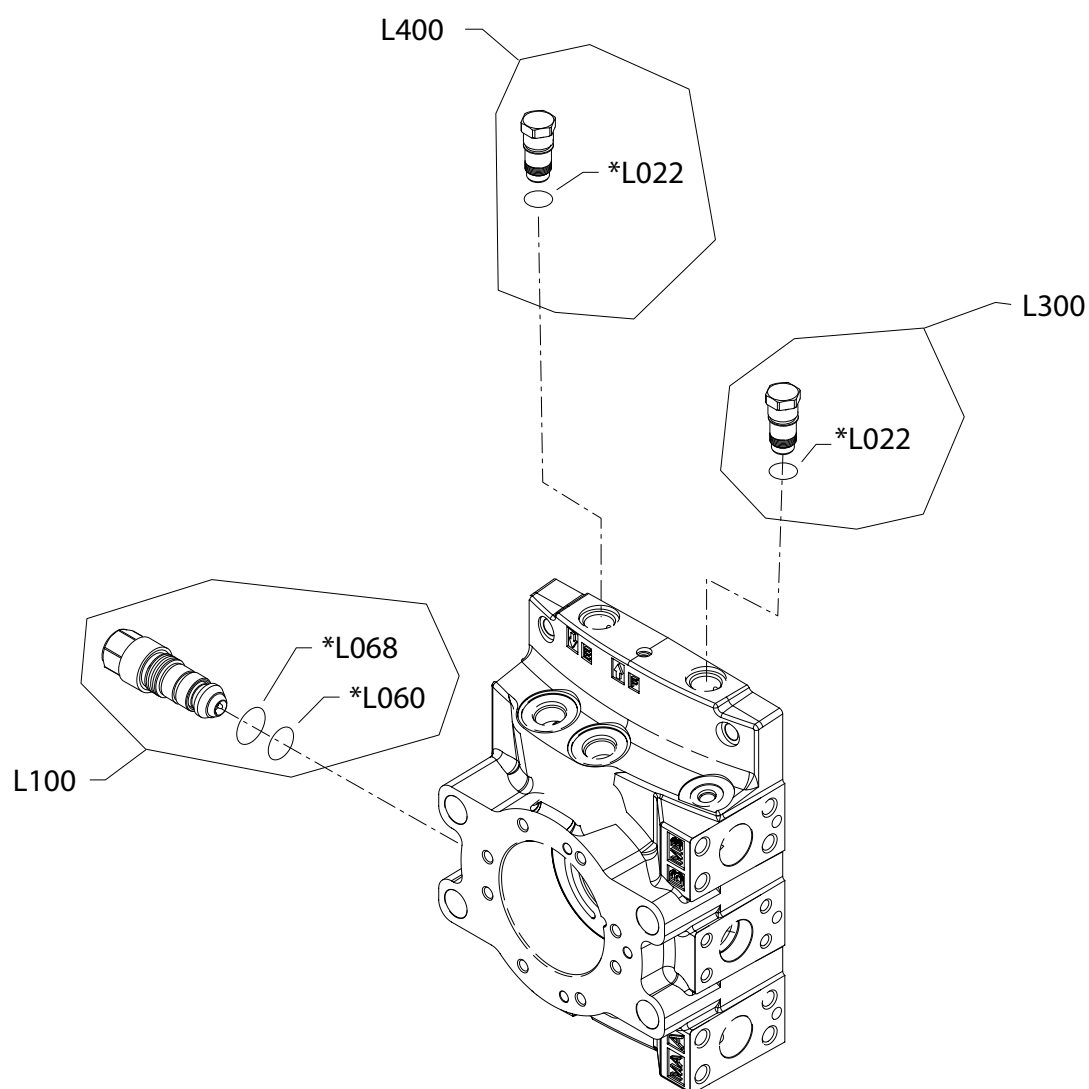
Order code: P6

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
K100	14-43		11002192	Adapter flange assembly, SAE B	1
K150	14-43		11002236	Adapter seal	1
K200	14-43		11191011	Charge pump shaft, 14 tooth, 12/24 pitch	1
K300	14-43		11023747	Cover	1
K350	14-43		509528	Screw, M12 x 20	2
K400	14-43		140700	Screw, M12 x 30	8
K500	14-43		11001182	Thrust washer	1

High pressure settings

Port A

High pressure setting (port A) K20-K45



Generic end cap shown

* Included in overhaul seal kit Q210

Common parts

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
L022	14-01		504207	O-ring	1
L060	14-01		365023	O-ring	1
L068	14-01		11052201	O-ring	1
L300	14-01		11002302	Pressure limiter plug assembly, CCW rotation pump	1
L400	14-01		11002302	Pressure limiter plug assembly, CW rotation pump	1

Order code: K20

L100	14-01		11049144	High pressure relief valve, 200 bar	1
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Order code: K23

L100	14-01		11049146	High pressure relief valve, 230 bar	1
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Order code: K25

L100	14-01		11049147	High pressure relief valve, 250 bar	1
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Order code: K28

L100	14-01		11049148	High pressure relief valve, 280 bar	1
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Order code: K30

L100	14-01		11049149	High pressure relief valve, 300 bar	1
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Order code: K33

L100	14-01		11049150	High pressure relief valve, 330 bar	1
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Order code: K35

L100	14-01		11049151	High pressure relief valve, 350 bar	1
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Order code: K38

L100	14-01		11049152	High pressure relief valve, 380 bar	1
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Order code: K40

L100	14-01		11049153	High pressure relief valve, 400 bar	1
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Order code: K42

L100	14-01		11049154	High pressure relief valve, 420 bar	1
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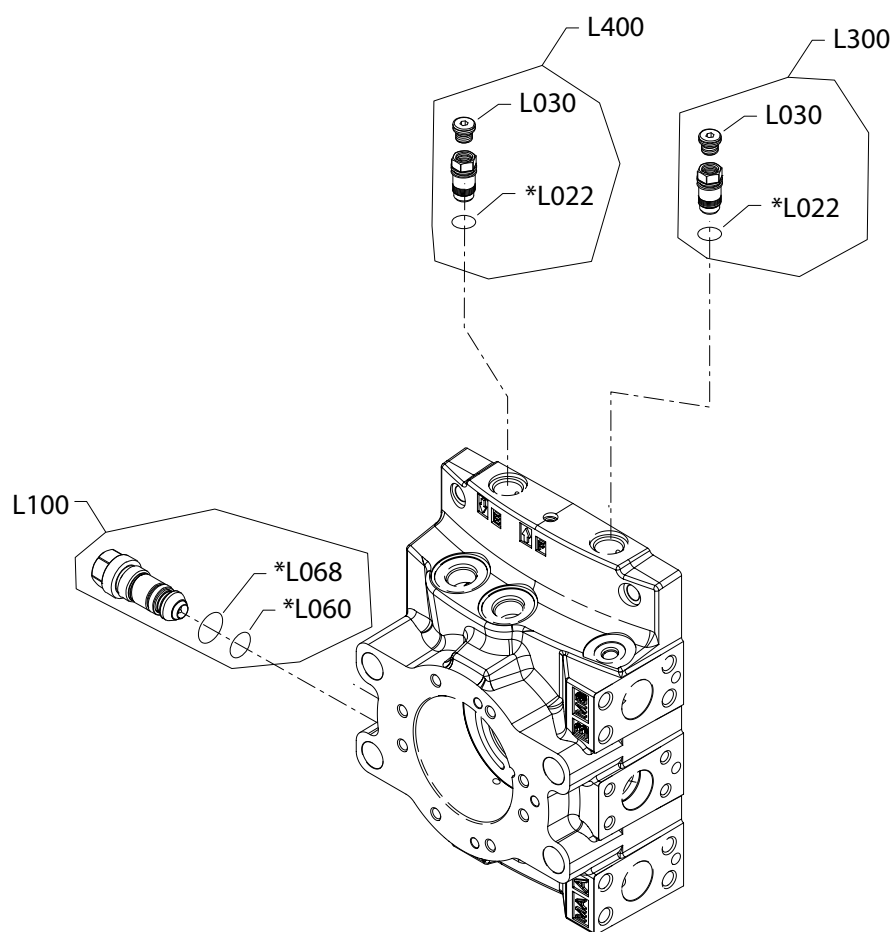
Order code: K45

L100	14-01		11049155	High pressure relief valve, 450 bar	1
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High pressure setting (port A) KWY

KWY configuration

(KWY)



Generic end caps shown

* Included in overhaul seal kit Q210

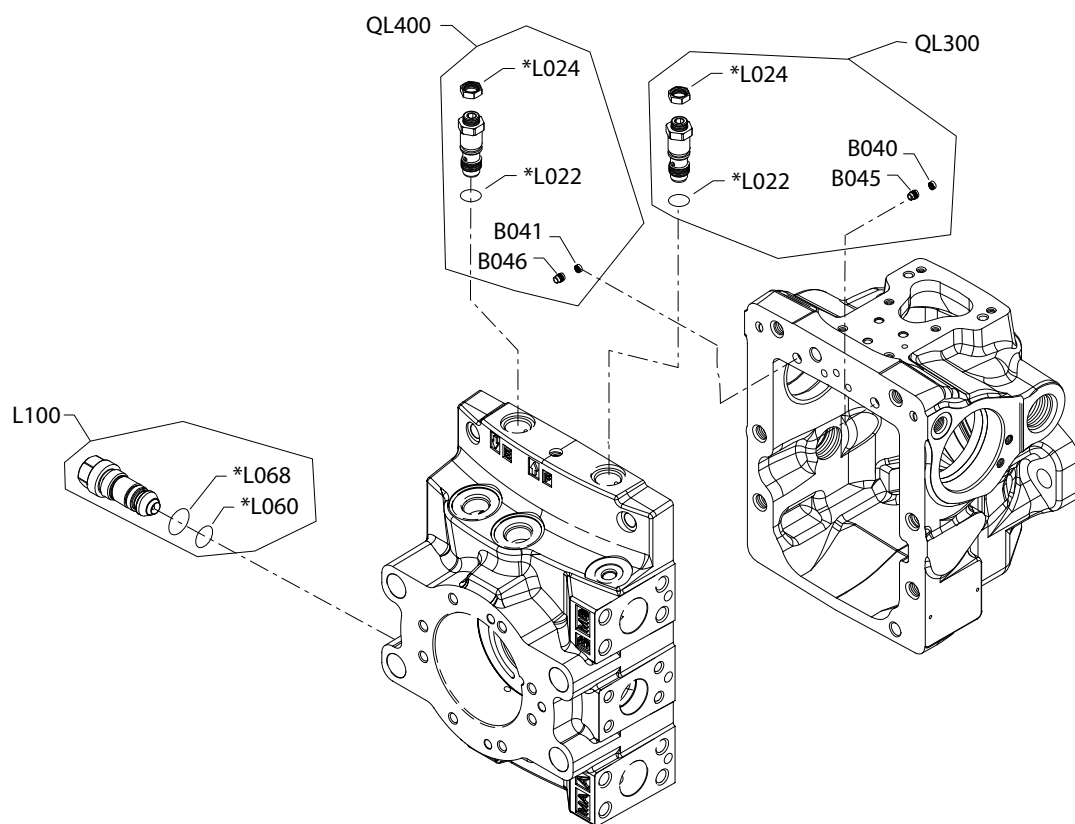
Order code KKY

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
L022	14-01		504207	O-ring	1
L030	14-01		513443	Plug assembly	1
L060	14-01		365023	O-ring	1
L068	14-01		11052201	O-ring	1
L100	14-01		11049155	High pressure relief valve, 450 bar	1
L300	14-01		11035112	Pressure sensor plug assembly, CCW rotation pump	1
L400	14-01		11035112	Pressure sensor plug assembly, CW rotation pump	1

High pressure setting (port A) L15-L35

Parts configuration

(L15-L35)



Note

Generic end cap shown

* Included in overhaul seal kit Q210

Common parts

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
B040	20-40		140967	Screen (<i>SB-2020-029</i> on page 136)	1
B041	20-40		140967	Screen (<i>SB-2020-029</i> on page 136)	1
B045	20-40		11062684	Screen retainer (<i>SB-2020-029</i> on page 136)	1
B046	20-40		11062684	Screen retainer (<i>SB-2020-029</i> on page 136)	1
L022	14-01		504207	O-ring	1
L024	14-01		336826	Seal nut, M10	1
L060	14-01		365023	O-ring	1
L068	14-01		11052201	O-ring	1
QL300	14-01		11004709	Pressure limiter kit, adjustable, CCW rotation pump	1
QL400	14-01		11004709	Pressure limiter kit, adjustable, CW rotation pump	1

Order code: L15

L100	14-01		11049144	High pressure relief valve, 200 bar	1
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Order code: L20

L100	14-01		11049147	High pressure relief valve, 250 bar	1
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Order code: L23

L100	14-01		11049148	High pressure relief valve, 280 bar	1
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Order code: L25

L100	14-01		11049149	High pressure relief valve, 300 bar	1
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Order code: L30

L100	14-01		11049151	High pressure relief valve, 350 bar	1
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Order code: L33

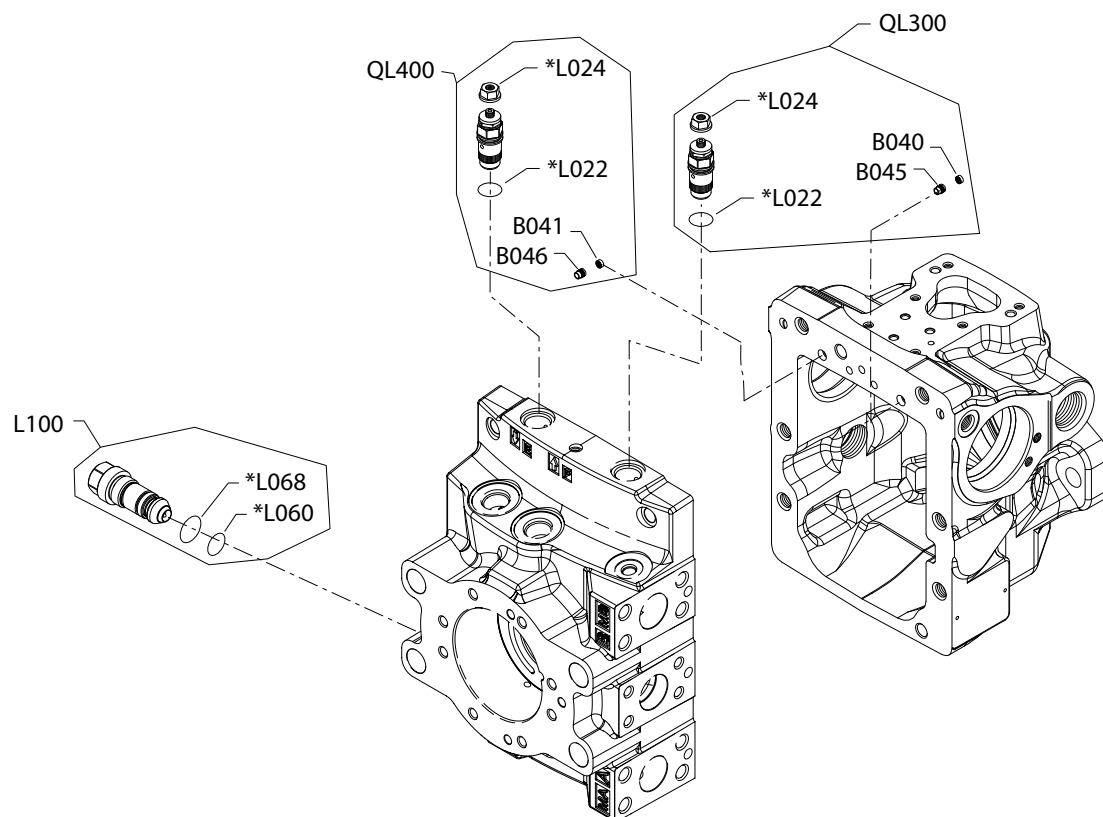
L100	14-01		11049152	High pressure relief valve, 380 bar	1
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Order code: L35

L100	14-01		11049153	High pressure relief valve, 400 bar	1
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High pressure setting (port A) L38-L45

L38-L45 configuration



Generic end cap shown

* Included in overhaul seal kit Q210

Common parts

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
B040	20-40		140967	Screen (<i>SB-2020-029</i> on page 136)	1
B041	20-40		140967	Screen (<i>SB-2020-029</i> on page 136)	1
B045	20-40		11062684	Screen retainer (<i>SB-2020-029</i> on page 136)	1
B046	20-40		11062684	Screen retainer (<i>SB-2020-029</i> on page 136)	1
L022	14-01		504207	O-ring	1
L024	14-01		336826	Seal nut	1
L060	14-01		365023	O-ring	1
L068	14-01		11052201	O-ring	1
QL300	14-01		11004709	Pressure limiter kit, adjustable, CCW rotation pump	1
QL400	14-01		11004709	Pressure limiter kit, adjustable, CW rotation pump	1

Order code: L38

L100	14-01		11049154	High pressure relief valve, 420 bar	1
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Order code: L40, L41, L42

L100	14-01		11049155	High pressure relief valve, 450 bar	1
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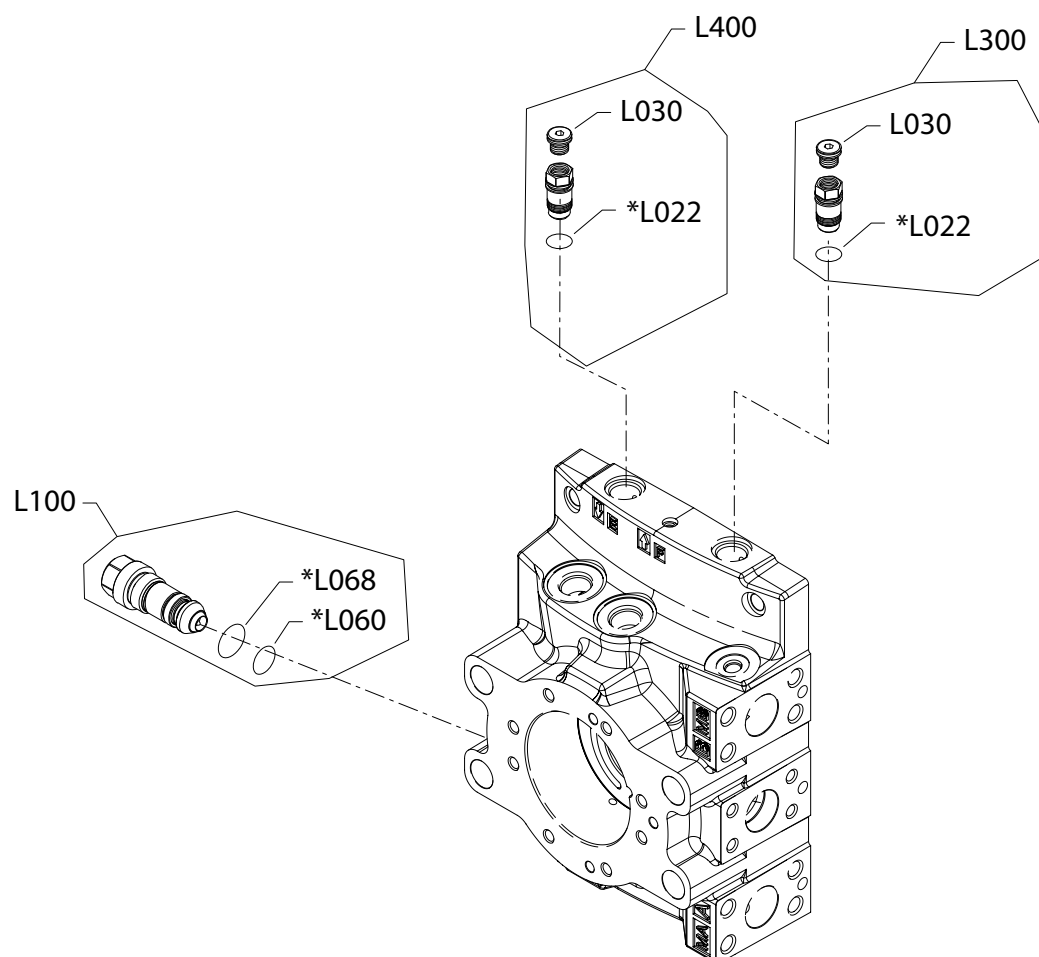
Order code: L43, L44, L45

L100	14-01		11049156	High pressure relief valve, 480 bar	1
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High pressure setting (port A) S38-S45

Parts configuration

(S38-S45)



Generic end caps shown

* Included in overhaul seal kit Q210

Common parts

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
L022	14-01		504207	O-ring	1
L030	14-01		140644	Plug assembly	1
L060	14-01		365023	O-ring	1
L068	14-01		11052201	O-ring	1
L300	14-01		11085422	Pressure sensor plug assembly, CCW	1
L400	14-01		11085422	Pressure sensor plug assembly, CW	1

Order code: S38

L100	24-05		11049152	High pressure relief valve, 380 bar	1
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Order code: S42

L100	23-32		11049154	High pressure relief valve, 420 bar	1
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Order code: S44

L100	14-01		11116160	High pressure relief valve, 440 bar	1
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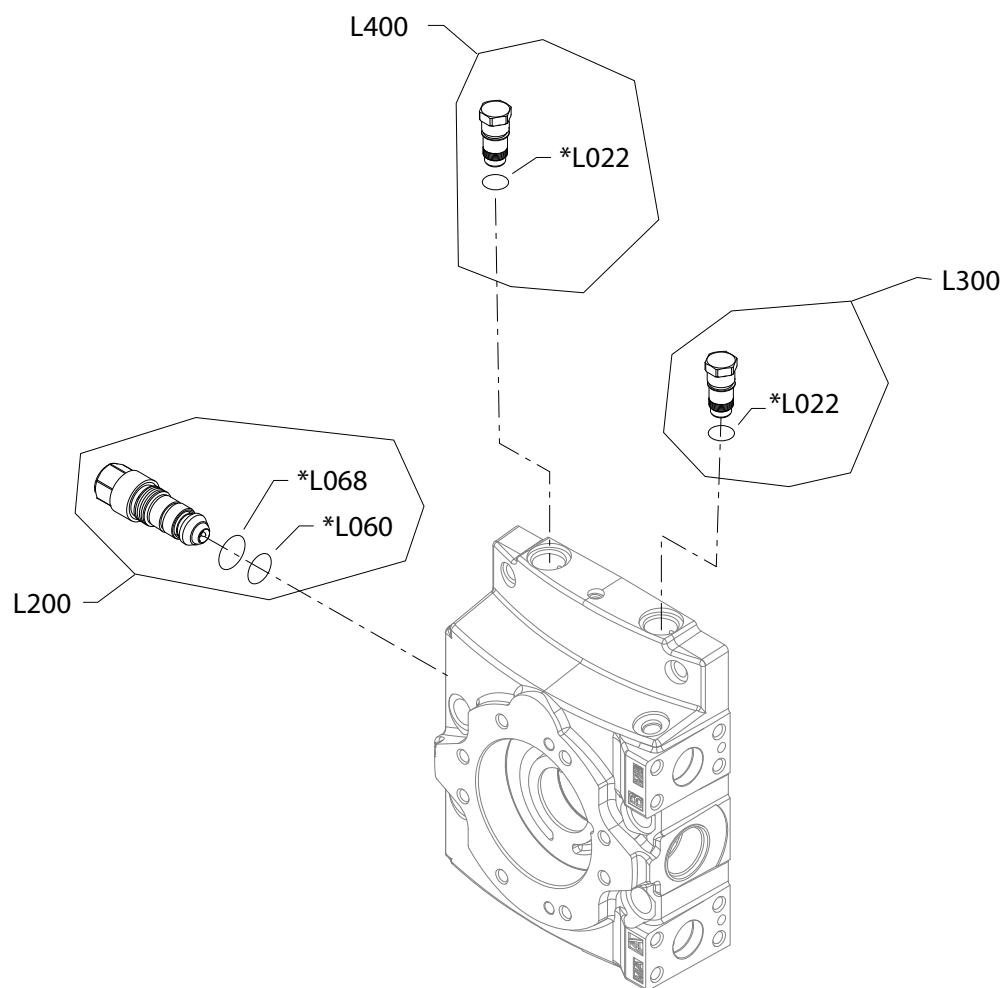
Order code: S45

L100	14-01		11049155	High pressure relief valve, 450 bar	1
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Port B

H1P 210/250/280cc high pressure setting (Port B) K20-K45

Parts configuration



Generic end cap shown

* Included in overhaul seal kit Q210

Common parts

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
L022	14-01		504207	O-ring	1
L060	14-01		365023	O-ring	1
L068	14-01		11052201	O-ring	1
QL300	14-01		11002302	Pressure limiter plug assembly, CW rotation pump	1
QL400	14-01		11002302	Pressure limiter plug assembly, CCW rotation pump	1

Order code: K20

L200	14-01		11049144	High pressure relief valve, 200 bar	1
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Order code: K23

L200	14-01		11049146	High pressure relief valve, 230 bar	1
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Order code: K25

L200	14-01		11049147	High pressure relief valve, 250 bar	1
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Order code: K28

L200	14-01		11049148	High pressure relief valve, 280 bar	1
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Order code: K30

L200	14-01		11049149	High pressure relief valve, 300 bar	1
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Order code: K35

L200	14-01		11049151	High pressure relief valve, 350 bar	1
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Order code: K38

L200	14-01		11049152	High pressure relief valve, 380 bar	1
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Order code: K40

L200	14-01		11049153	High pressure relief valve, 400 bar	1
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Order code: K42

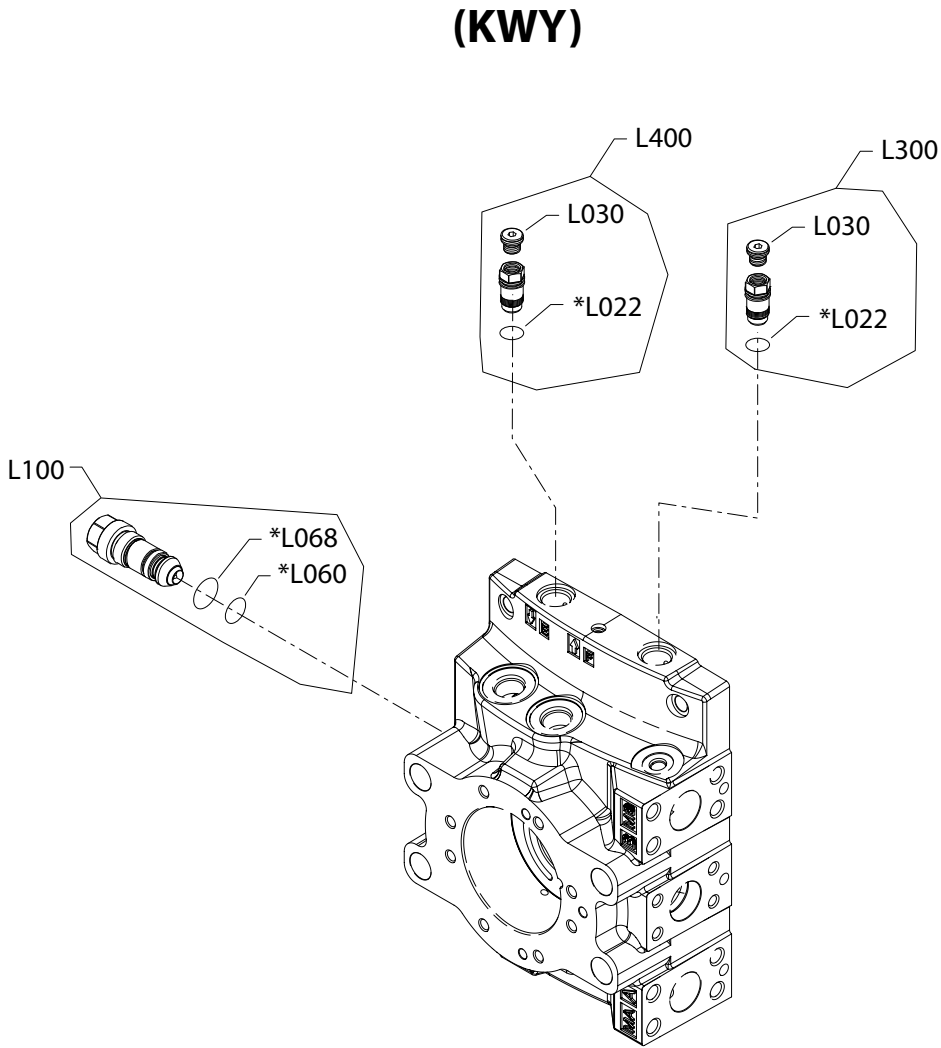
L200	14-01		11049154	High pressure relief valve, 420 bar	1
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Order code: K45

L200	14-01		11049155	High pressure relief valve, 450 bar	1
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High pressure setting (port B) KWY

Parts configuration



Generic housing shown

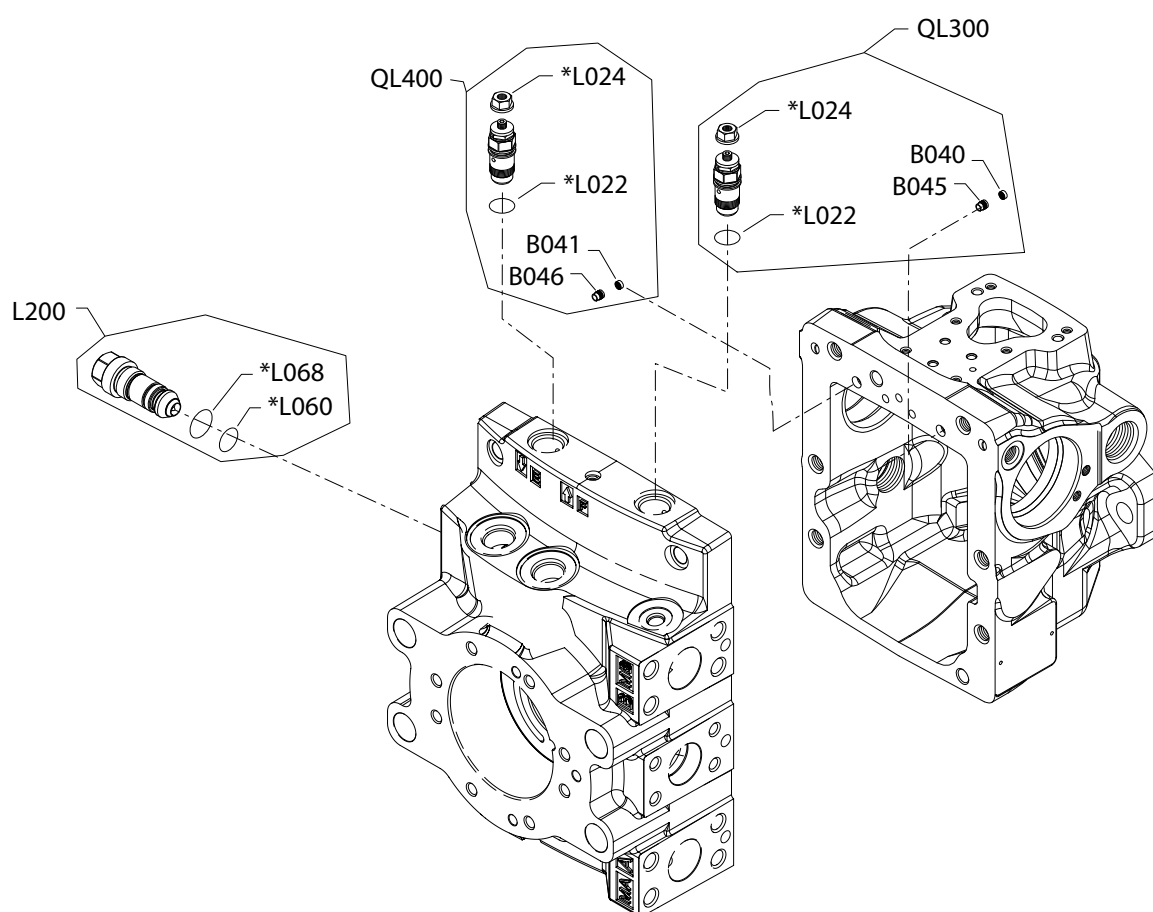
* Included in overhaul seal kit Q210

Order code: KWW

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
L022	14-01		504207	O-ring	1
L030	14-01		513443	Plug assembly	1
L060	14-01		365023	O-ring	1
L068	14-01		11052201	O-ring	1
L200	14-01		11049155	High pressure relief valve, 450 bar	1
L300	14-01		11035112	Pressure sensor plug assembly, CW rotation pump	1
L400	14-01		11035112	Pressure sensor plug assembly, CCW rotation pump	1

High pressure setting (port B) L15-L45

(L15-L45)



Note

Generic end cap shown

* Included in overhaul seal kit Q210

Common parts

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
B040	20-40		140967	Screen (<i>SB-2020-029</i> on page 136)	1
B041	20-40		140967	Screen (<i>SB-2020-029</i> on page 136)	1
B045	20-40		11062684	Screen retainer (<i>SB-2020-029</i> on page 136)	1
B046	20-40		11062684	Screen retainer (<i>SB-2020-029</i> on page 136)	1
L022	14-01		504207	O-ring	1
L024	14-01		336826	Seal nut	1
L060	14-01		365023	O-ring	1
L068	14-01		11052201	O-ring	1
QL300	14-01		11004709	Pressure limiter, adjustable, CW rotation pump	1
QL400	14-01		11004709	Pressure limiter, adjustable, CCW rotation pump	1

Order code: L15

L200	14-01		11049144	High pressure relief valve, 200 bar	1
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Order code: L20

L200	14-01		11049147	High pressure relief valve, 250 bar	1
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Order code: L23

L200	14-01		11049148	High pressure relief valve, 280 bar	1
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Order code: L25

L200	14-01		11049149	High pressure relief valve, 300 bar	1
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Order code: L28

L200	14-01		11049150	High pressure relief valve, 330 bar	1
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Order code: L30

L200	14-01		11049151	High pressure relief valve, 350 bar	1
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Order code: L33

L200	14-01		11049152	High pressure relief valve, 380 bar	1
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Order code: L35

L200	14-01		11049153	High pressure relief valve, 400 bar	1
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Order code: L38

L200	14-01		11049154	High pressure relief valve, 420 bar	1
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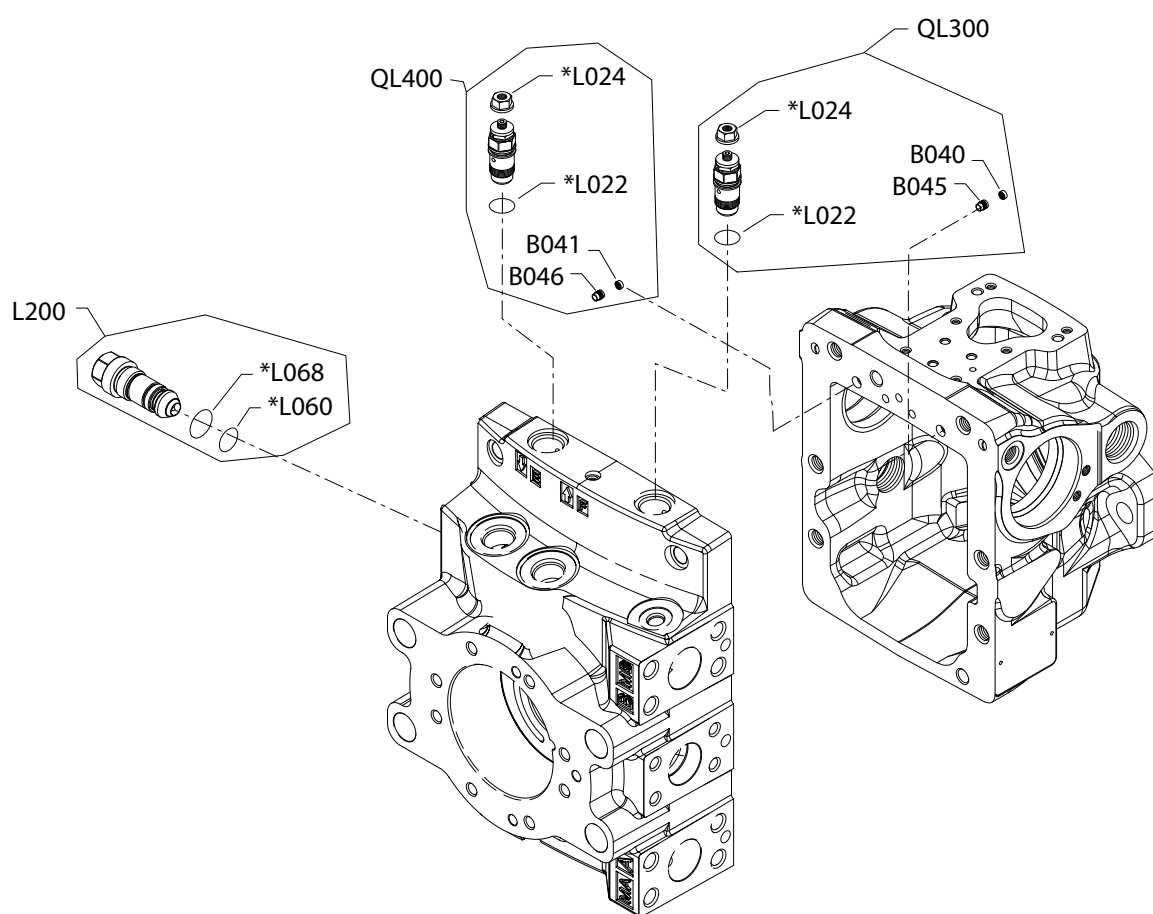


Note

Parts continue to the next 2 pages.

Parts configuration

(L15-L45)



Generic end cap shown

* Included in overhaul seal kit Q210

Common parts

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
B040	20-40		140967	Screen (<i>SB-2020-029</i> on page 136)	1
B041	20-40		140967	Screen (<i>SB-2020-029</i> on page 136)	1
B045	20-40		11062684	Screen retainer (<i>SB-2020-029</i> on page 136)	1
B046	20-40		11062684	Screen retainer (<i>SB-2020-029</i> on page 136)	1
L022	14-01		504207	O-ring	1
L024	14-01		336826	Seal nut	1
L060	14-01		365023	O-ring	1
L068	14-01		11052201	O-ring	1
QL300	14-01		11004709	Pressure limiter, adjustable, CW rotation pump	1
QL400	14-01		11004709	Pressure limiter, adjustable, CCW rotation pump	1

Order code: L40, L42

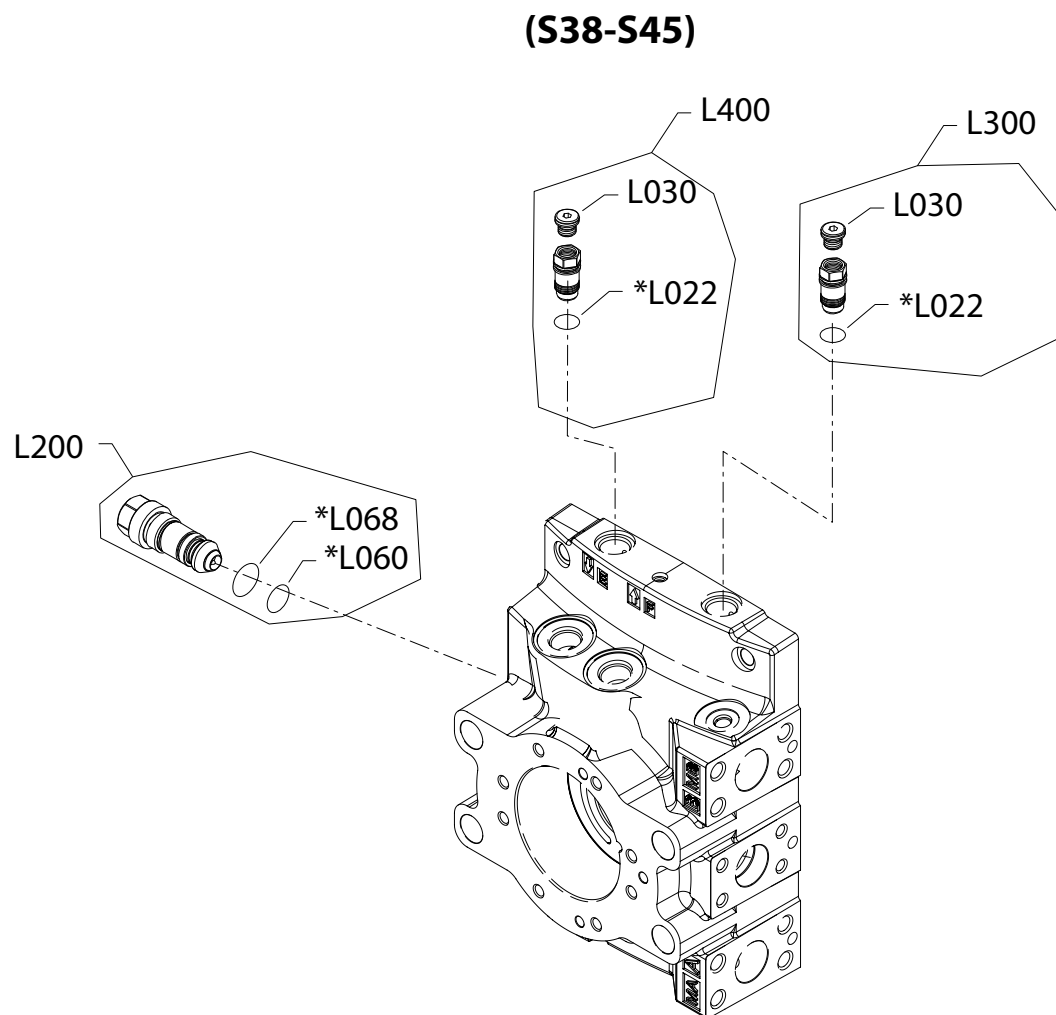
L200	14-01		11049155	High pressure relief valve, 450 bar	1
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Order code: L44, L45

L200	14-01		11049156	High pressure relief valve, 480 bar	1
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High pressure setting (port B) S38-S45

Parts configuration



Note

Generic end caps shown

* Included in overhaul seal kit

Common parts

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
L022	14-01		504207	O-ring	1
L030	14-01		140644	Plug assembly	1
L060	14-01		365023	O-ring	1
L068	14-01		11052201	O-ring	1
QL300	14-01		11085422	Pressure sensor adapter, CW rotation pump	1
QL400	14-01		11085422	Pressure sensor adapter, CCW rotation pump	1

Order code: S38

L200	24-05		11049152	High pressure relief valve, 380 bar	1
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Order code: S42

L200	23-32		11049154	High pressure relief valve, 420 bar	1
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Order code: S44

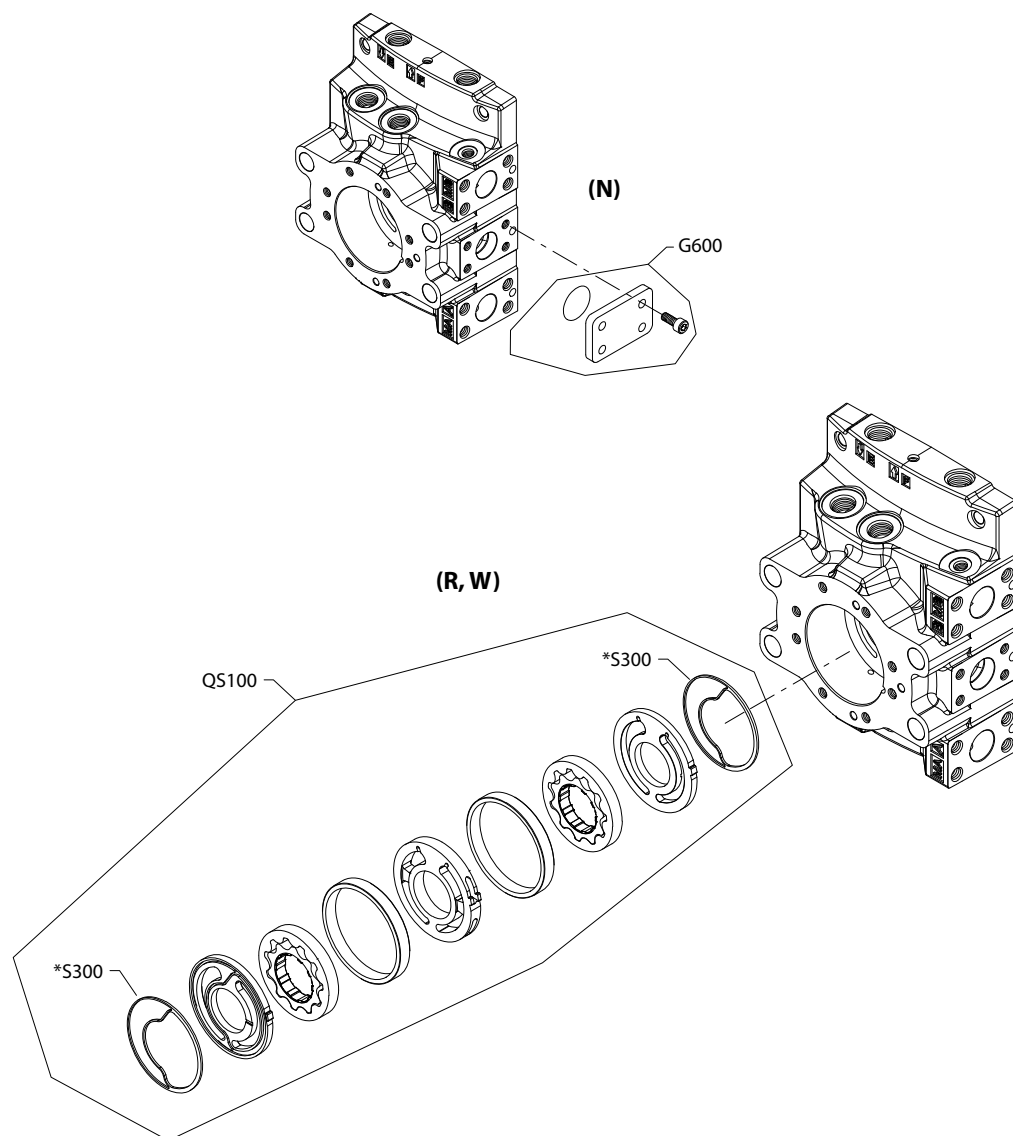
L200	14-01		11116160	High pressure relief valve, 440 bar	1
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Order code: S45

L200	14-01		11040155	High pressure relief valve, 450 bar	1
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H1P 210/250/280cc charge pump

Parts configuration



Order code: N

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
G600	14-01		11070638	Cover assembly	1

Order code: R

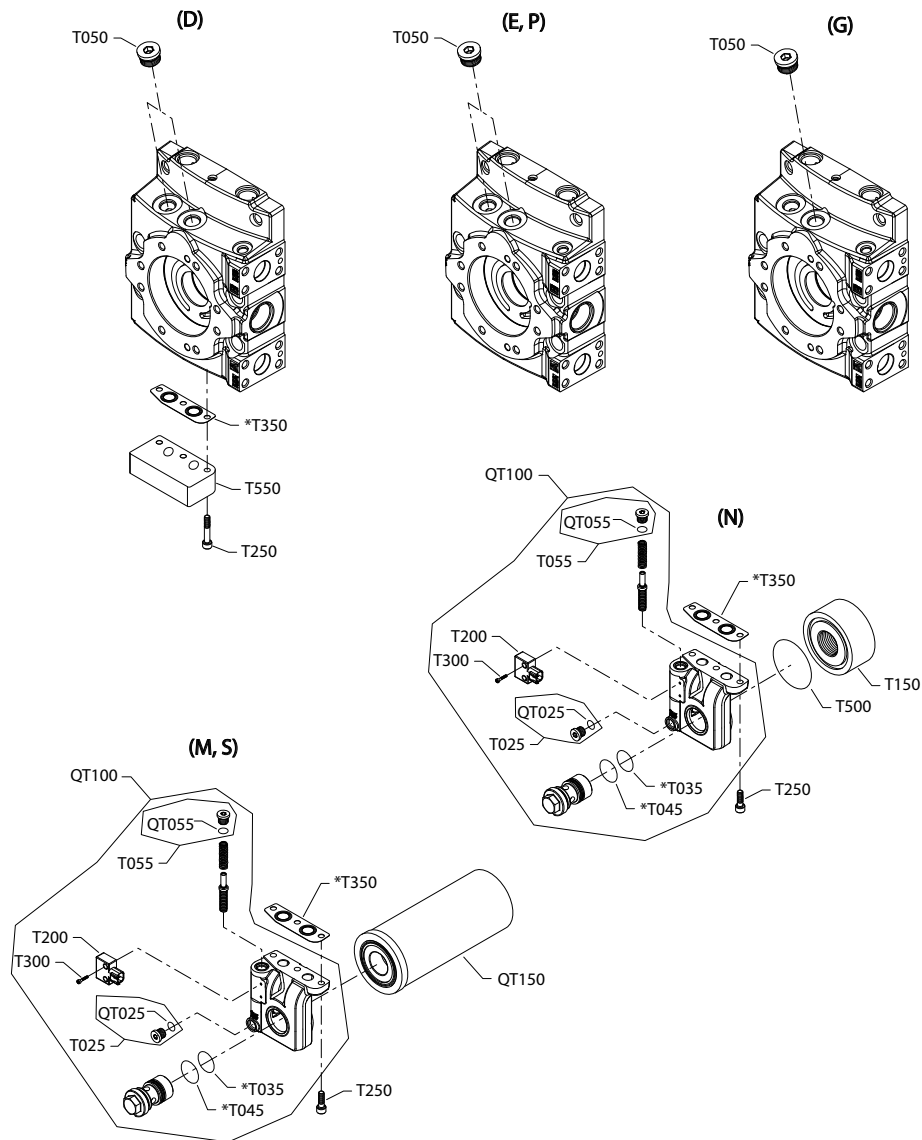
QS100	14-01		11070194	Charge pump kit, 52 cc	1
S300	14-01		11126778	Seal ring	2

Order code: W

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

Filtration

H1P 210/250/280cc filtration D-L, P



Note

Generic end caps shown

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

* Included in overhaul seal kit Q210

Order code: D

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

Order code: E

T050	14-01		664524 (9005110-9000)	Plug assembly	2
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Order code: F

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

Order code: L

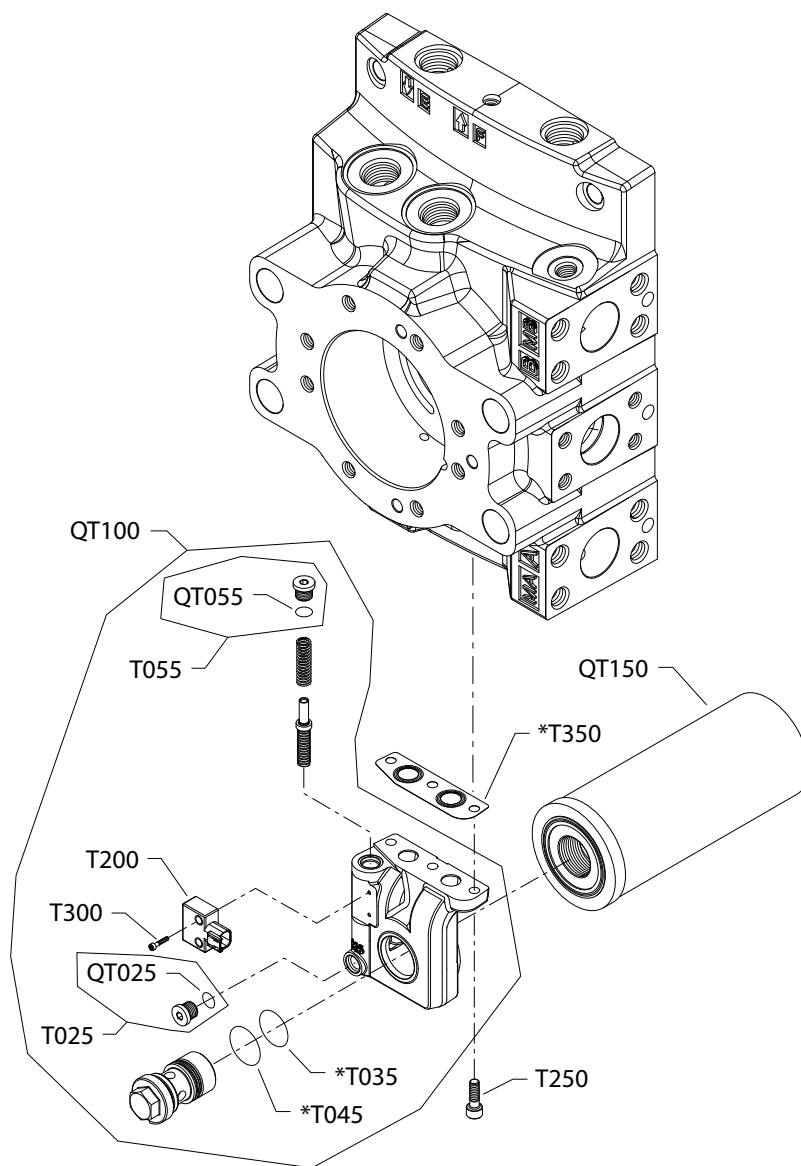
No parts

Order code: P

T050	14-01		664524 (9005110-9000)	Plug assembly	2
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H1P 210/250/280cc filtration M

Parts configuration



Note

This option is available in metric configurations only.

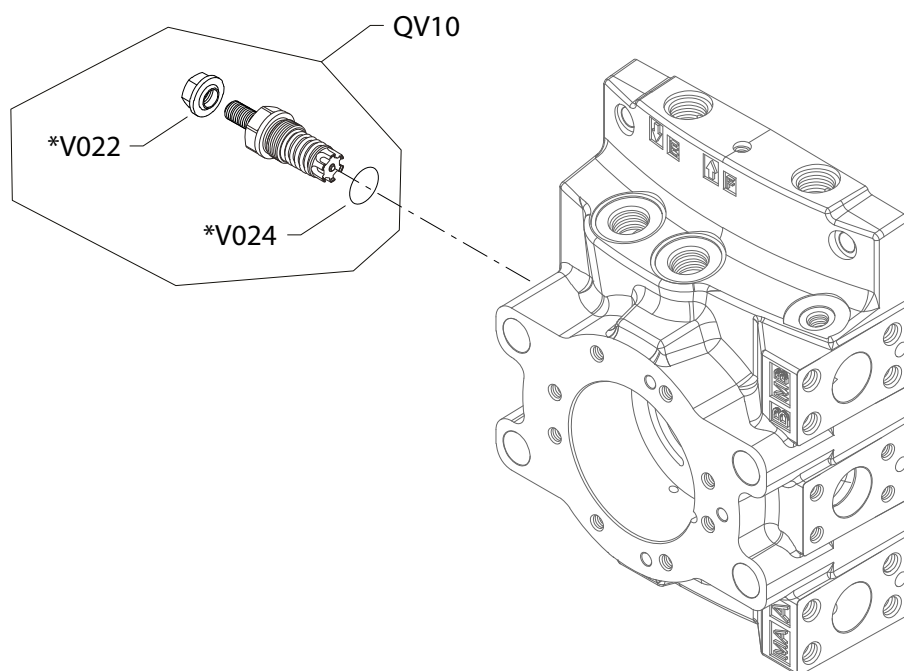
* Included in overhaul seal kit Q210

Order code: M

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

Charge pressure relief

H1P 210/250/280cc charge pressure relief 18-34



Note

Generic end caps shown

* Included in overhaul seal kit Q210

Order code: 18-22

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

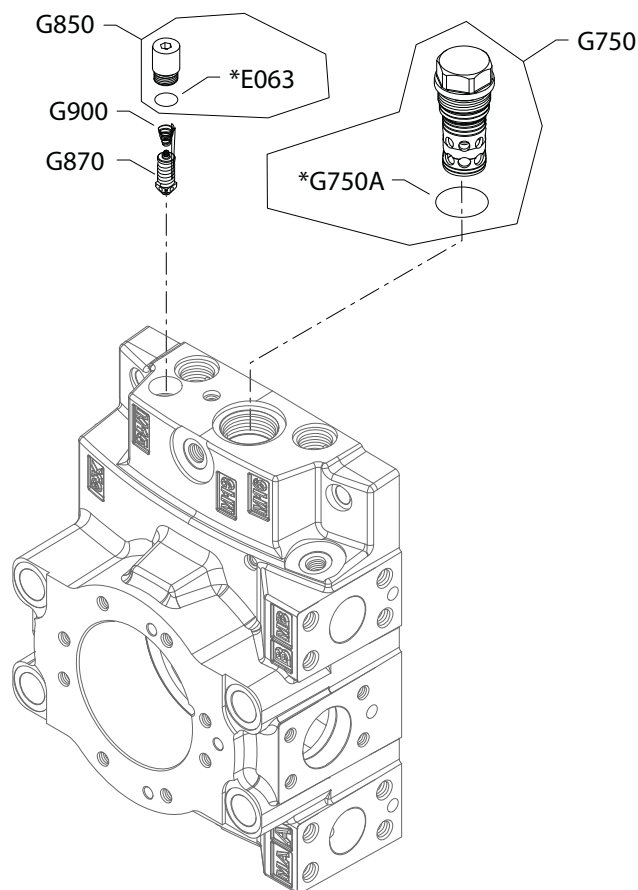
Order code: 24-34

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

ISL settings

H1P 210/250/280cc ISL settings GAF-GAL

Parts configuration



Note

Generic end caps shown

* Included in overhaul seal kit Q210

Common parts

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

Order code: GAF

G870	14-01		3103375-0140	SCR valve assembly, 140 bar [2030 psi]	1
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Order code: GAG

G870	14-01		3103375-0175	SCR valve assembly, 175 bar [2538 psi]	1
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Order code: GAH

G870	14-01		3103375-0210	SCR valve assembly, 210 bar [3045 psi]	1
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Order code: GAJ

G870	14-01		3103375-0230	SCR valve assembly, 230 bar [3335 psi]	1
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Order code: GAK

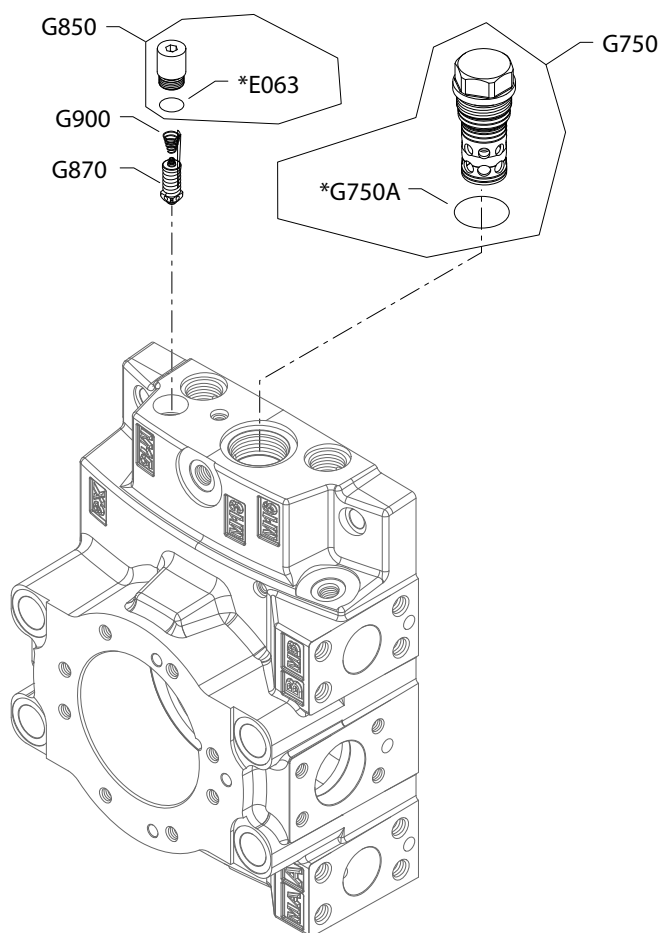
G870	14-01		3103375-0250	SCR valve assembly, 250 bar [3625 psi]	1
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Order code: GAL

G870	14-01		3103375-0140	SCR valve assembly, 140 bar [2030 psi]	1
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H1P 210/250/280cc ISL settings GAM-MAL

Parts configuration



Note

Generic end cap shown

* Included in overhaul seal kit Q210

Common parts

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

Order code: GAM

G870	14-01		3103375-0175	SCR valve assembly, 175 bar [2538 psi]	1
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Order code: GAN

G870	14-01		3103375-0210	SCR valve assembly, 210 bar [3045 psi]	1
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Order code: GAP

G870	14-01		3103375-0230	SCR valve assembly, 230 bar [3335 psi]	1
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Order code: GAR

G870	14-01		3103375-0250	SCR valve assembly, 250 bar [3625 psi]	1
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Order code: GAV

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

Order code: MAL

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

H1P 210/250/280cc seal kit

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
Q210	14-01		11178090	Overhaul seal kit, H1P210-280 (<i>SB-2016-034</i> on page 130)	1
D060	14-01		612291 (9003508-0008)	Seal nut	1
D150	14-01		11227209	Control gasket (<i>SB-2016-033</i> on page 129)	1
D611	14-01	21-12	11066774	O-ring (<i>SB-2021-014</i> on page 137)	2
D611	21-13		11225703	O-ring	2
D612	14-01		11003126	Plug (<i>SB-2021-014</i> on page 137)	2
D612	21-13		11223708	Plug	2
E020	14-01		545434	O-ring	2
E025	14-01		11075562	Piston ring	2
E083	14-01		001131	O-ring	1
E250	14-01		733295	O-ring	2
E500	14-01		649822	Seal nut	1
E550	14-01		649822	Seal nut	1
G150	14-01		11061613	End cap gasket	1
G750A	14-01		140866	O-ring	1
J250	14-01		11024711	Lip seal	1
J260	14-01		056754	O-ring	1
K150	14-01		11002236	Adapter seal	1
K150	14-01		11069670	Adapter seal	1
L022	14-01		504207	O-ring	2
L024	14-01		336826	Seal nut	2
L060	14-01		365023	O-ring	2
L068	14-01		11052201	O-ring	2
QD26	14-01		11001952	O-ring	2
QD81	14-01		11152257	O-ring	1
QD751	14-01		001131	O-ring	1
QH131	14-01		11013397	O-ring	1
S300	14-01		11126778	Seal ring	2
T035	14-01		761148	O-ring	1
T045	14-01		314500 (9004100-1250)	O-ring	1
T350	14-01		11146745	Filter adapter gasket	1
V022	14-01		066159	Seal nut	1
V024	14-01		001149 (9004201-6200)	O-ring	1

Service bulletin

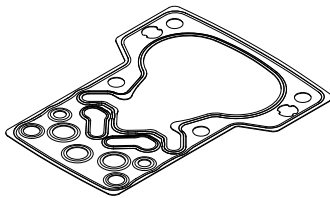
SB-2016-033

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

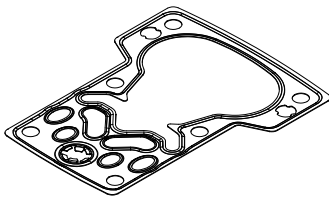
Subject Control Gasket

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

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



Old gasket



New gasket

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

Serial numbers

H1 Pumps - This change became effective on N-16-36-30132

H1 Tandems - This change became effective on N-16-37-30132

MP1 Control Kits - This change became effective on N-16-32-xxxxx

M46 Control Kits - This change became effective on N-16-32-xxxxx

Part numbers affected	Description	Old part number	New part number
	Electrical displacaeement control gasket	140879	11173377
	Manual displacaeement control gasket	11159911	11173377

Parts disposition Non-interchangeable - can substitute new for old

SB-2016-034

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

Subject Overhaul Seal Kit change

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

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

The overhaul seal kit part numbers have changed.

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

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

Part numbers affected

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

Parts disposition Non-interchangeable - can substitute new for old

SB-2018-008

Products affected

H1 210/250cc pumps

Subject

Shaft and cylinder block kit change

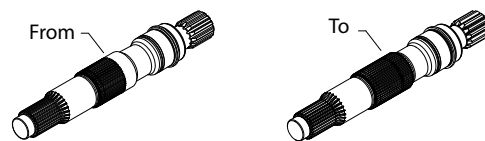
Description

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

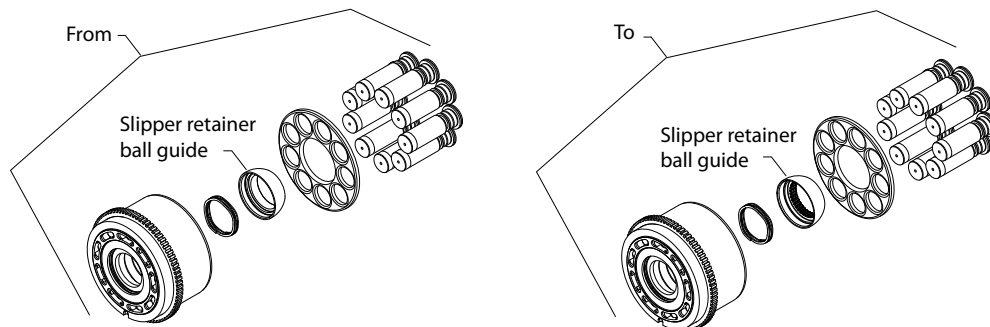
The new shaft may be substituted for the old shaft, but the old shaft cannot be substituted for the new shaft. The old shaft will be obsolete.

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 210/250cc pumps

Serial numbers affected

Shaft change became effective September 11, 2017 (N1737xxxxx)

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

Part numbers affected

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

Parts disposition

Shaft is interchangeable- new to old

Cylinder block kit is non-interchangeable

Slipper retainer ball guide is non-interchangeable

SB-2018-025

Products affected

H1 pumps

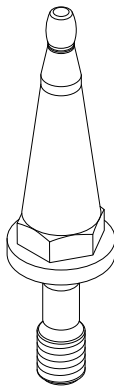
Subject

Swashplate feedback link

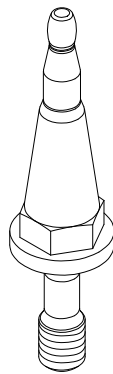
Description

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

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



Old feedback link



New feedback link

Models affected

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

Serial numbers

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

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

Part numbers affected

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

Parts disposition

Non-interchangeable

SB-2018-036

Products affected

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

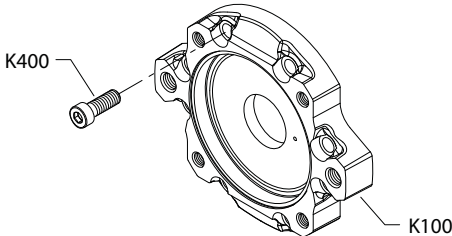
Subject

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-2020-013

Products affected

H1 pumps.

Subject

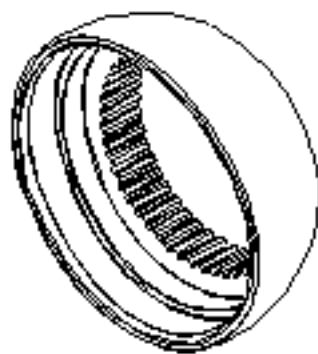
Cylinder block kit design change.

Description

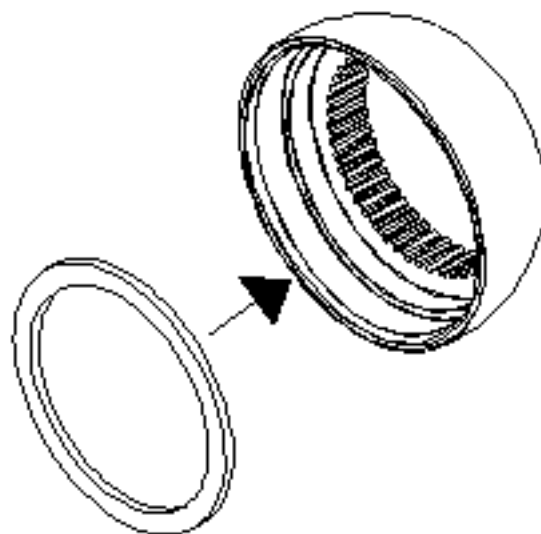
Danfoss Power Solutions has made a design change to the cylinder block kit on 210/250cc H1 pumps. A washer has been added between the ball guide and wave spring.

A new ball guide kit also includes the washer for service. It is recommended to use the new ball guide assembly kit on all rebuild units.

Current ball guide



Ball guide assembly, no visual change



Models affected

H1 210/250cc pumps.

Serial numbers affected

This change became effective at N-20-13-xxxxx (31 March 2020).

Part numbers affected

Description	Old part number	New part number
Slipper retainer ball guide	11148928	11251542*
Washer	-	11251510

* Part number includes washer.

Parts disposition

Non-interchangeable

SB-2020-029

Products affected

H1 pumps and tandems

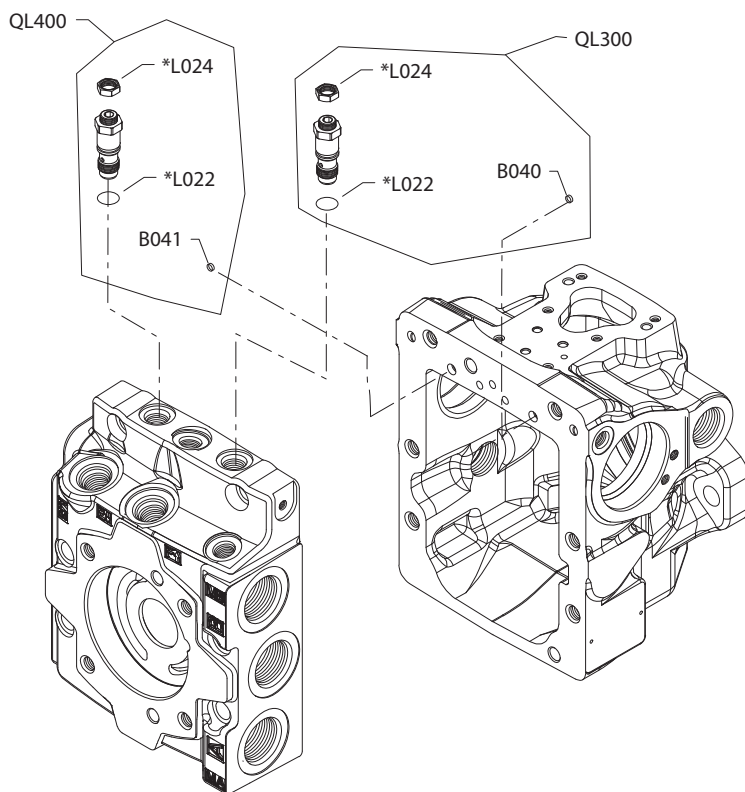
Subject

Pressure limiter kits

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.

**Note**

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

SB-2021-014

Products affected

H1 and MP1 pumps

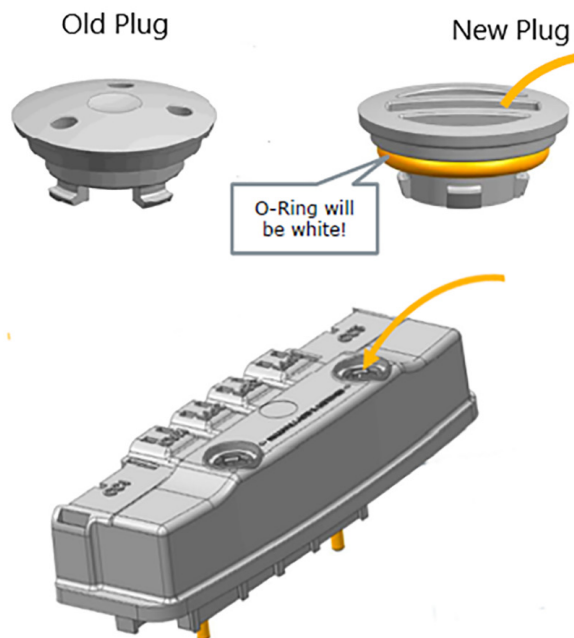
Subject

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

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

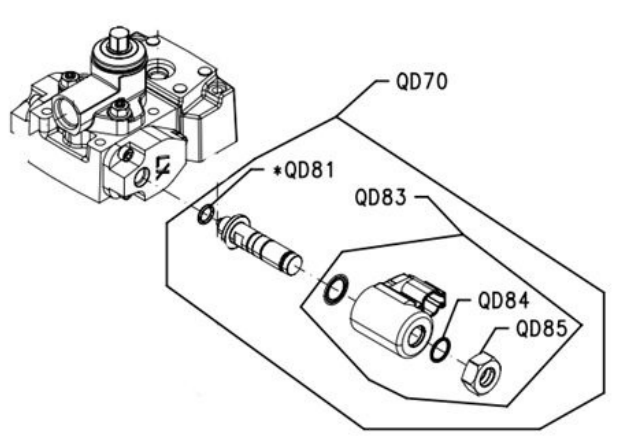
Subject

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.

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)



Hydro-Gear

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Additional product literature is available at powersource.danfoss.com.

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