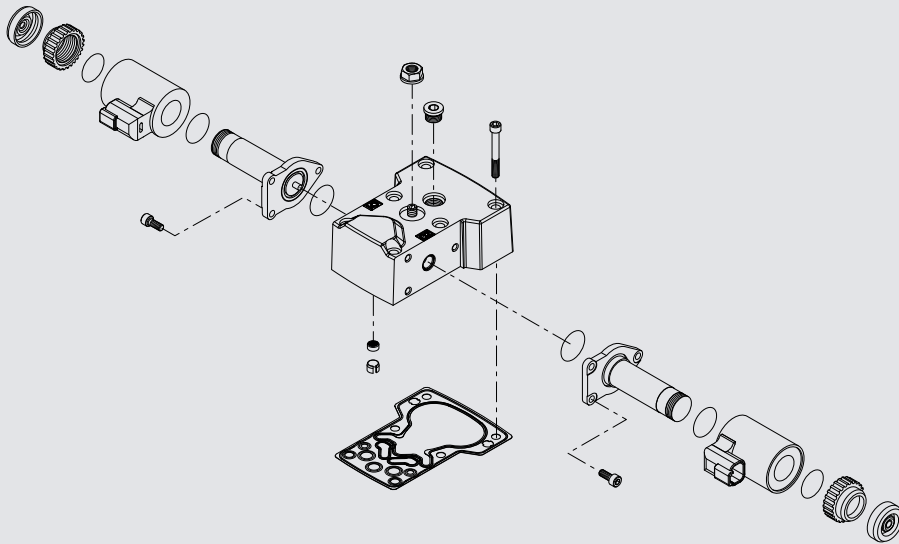


H1P 69 and 78cc

Variable Displacement Pump



Revision history

Table of revisions

Date	Changed	Rev
July 2026	Added shaft option K1	1213
June 2026	Fixed issue with service bulletin link not working	1212
April 2026	Updated aux pad part numbers, new stylesheet output	1211
January 2026	Updated part numbers for options D3,D6	1210
November 2025	Removed obsolete part	1209
October 2025	Added part 066159 to overhaul seal kit, removed obsolete parts, added options to F1 shaft, updated all HPRV information	1208
August 2025	Removed K250, corrected B045/B046 part numbers, H, R, K, S schematic	1207
July 2025	Updated QD75 part number	1206
November 2024	Updated control options M3 - M6, added SB_2024_007, updated K150 and L100 part numbers, removed outdated high pressure options	1205
May 2024	Updated QD29 part number, updated for split endcap and new charge relief, updated SB-2012-009, updated NN/PN C025 PN	1204
January 2024	Updated coil kit number on E8/G6, replaced 327007 with 9005110-4400, removed reference to 9004100-0260, Updated AC part numbers	1203
August 2023	Updated E300 part number	1202
May 2023	Removed E4 option	1201
May 2023	Updated Auxiliary Mounting H6 K300 Part Number	1104
March 2023	Updated J1 Part Numbers	1103
August 2022	Updated valveplate part numbers	1102
March 2022	Updated H1 and H2 auxiliary mounting part numbers	1101
August 2021	Added new options; updated automotive controls part numbers	1001
December 2020	Moved pressure limiter screens and retainers from housing kits to pressure limiter kits	0901
May 2020	Changed document number from 'AX00000026' to 'AX152886483258' and updated CCO part numbers	0812
January 2020	Updated control gasket part numbers	0710
August 2019	Corrected end cap item numbers	0709
June 2019	Updated part numbers; added new options	0708
February 2019	Added various new options	0707
November 2018	Added control options T6, T7, T8 and T9	0706
September 2018	Added control options H2 and H3	0705
May 2018	Added new orifice option and control option	0704
April 2018	Added control options H6, H7, H8 and H9	0703
February 2018	Updated to Engineering Tomorrow format	0702

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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 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.



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 69/78)

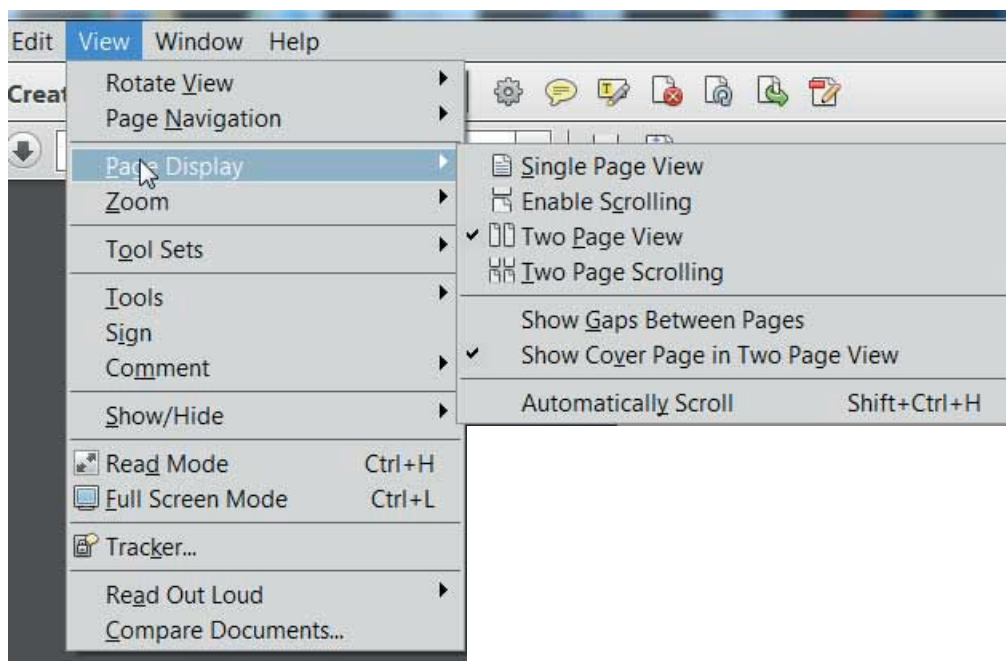
The nameplate on an H1 pump has an order code of H1P78L A A A2 C2 N F5 H G1 H6 L 33 L 33 C P 28 NN C07 NNN. Use the following procedures to determine the part number of the drive shaft used on this pump.

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 "G1". (H1P78L A A A2 C2 N F5 H G1 H6 L 33 L 33 C P 28 NN C07 NNN).
2. Referring to the Service Parts List, find the shaft group. Next find the order code that relates to this unit, which is "G1". The shaft is found to be item J100 and part number 11112174.

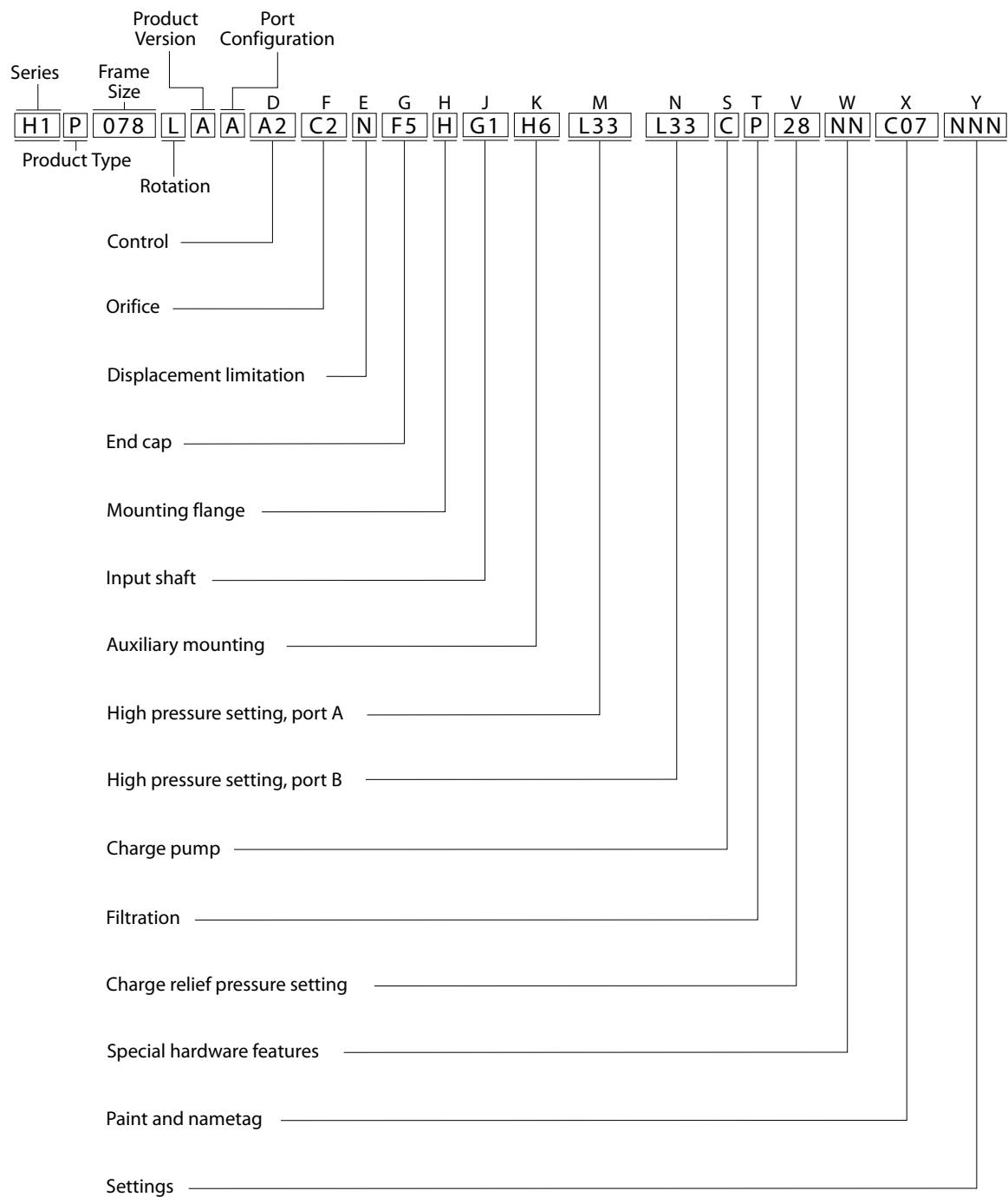
Adobe Acrobat 2-page viewing

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"



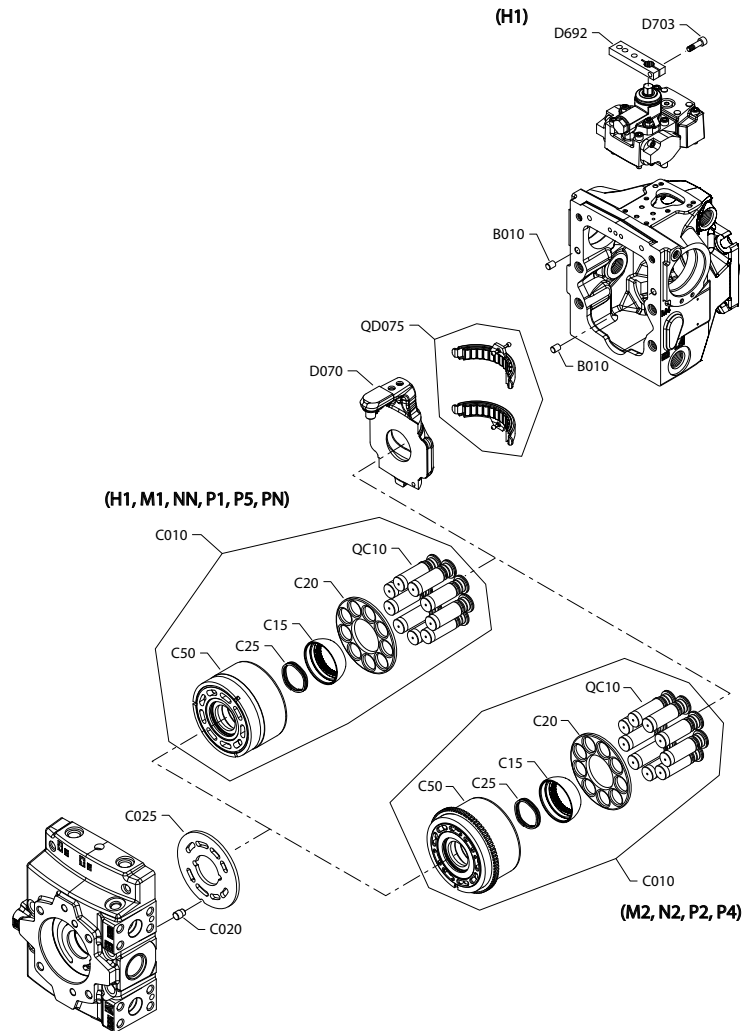
Order code



Notes

Common parts and special hardware

H1P 69/78cc special hardware H1, M1, P1



Note

Generic control and housing used to show part location only.

Option M5 is replaced with PN for pumps with EDC or FNR control, and replaced with option P1 for pumps with NFPE control.

Common parts

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
B010	07-14		9004800-3708	Dowel pin	2
C020	07-14		141128	Valve plate pin, CCW	1
C020	07-14		141126	Valve plate pin, CW	1
C15	17-47		11148925	Slipper retainer ball guide (<i>SB-2018-004</i> on page 191)	1
C20	07-14		140770	Slipper retainer	1
C25	11-41		11187155	Spring washer	1
D070	07-14		11105985	Swashplate	1
QC10	12-49		11089754	Slipper/piston kit, 69cc	1
QC10	07-14		11026146	Slipper/piston kit, 78cc	1
QD075	07-14		11008670	Swashplate bearing kit	1

Order code: H1

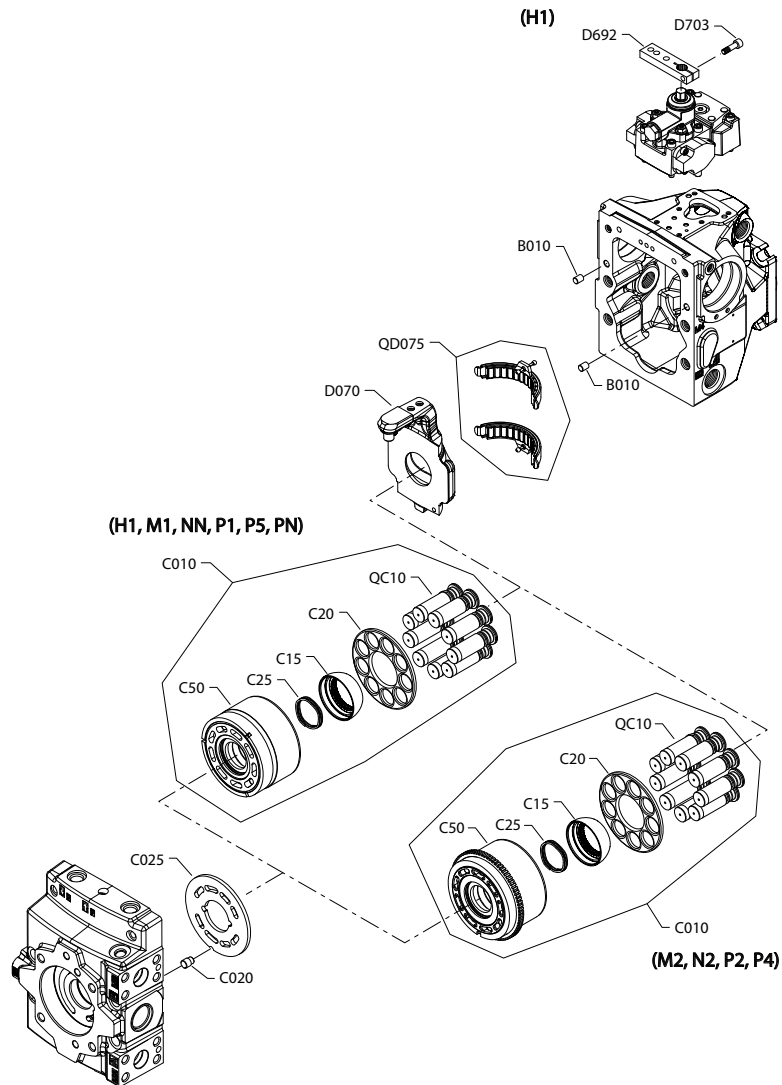
C50	13-28		11124482	Cylinder block assembly, 69cc	1
C50	13-28		11124484	Cylinder block assembly, 78cc	1
C010	17-47		11189989	Cylinder block kit, 69cc (<i>SB-2018-004</i> on page 191)	1
C010	17-47		11189990	Cylinder block kit, 78cc (<i>SB-2018-004</i> on page 191)	1
C025	13-28		11248228	Valve plate, CCW	1
C025	13-28		11244547	Valve plate, CW	1
D692	13-28		11185938	Control handle	1
D703	13-28		11173701	Screw, M6 x 20	1

Order code: M1, P1

C50	12-49		11124482	Cylinder block assembly, 69cc	1
C50	11-41		11124484	Cylinder block assembly, 78cc	1
C010	17-47		11189989	Cylinder block kit, 69cc (<i>SB-2018-004</i> on page 191)	1
C010	17-47		11189990	Cylinder block kit, 78cc (<i>SB-2018-004</i> on page 191)	1
C025	09-47		11248227	Valve plate, CCW (<i>SB-2013-003</i> on page 185)	1
C025	09-47		11248226	Valve plate, CW (<i>SB-2013-003</i> on page 185)	1

H1P 69/78cc special hardware M2-P4

Parts configuration



Note

Generic control and housing used to show part location only.

Option M5 is replaced with PN for pumps with EDC or FNR control, and replaced with option P1 for pumps with NFPE control.

Order code: M2, N2, P2

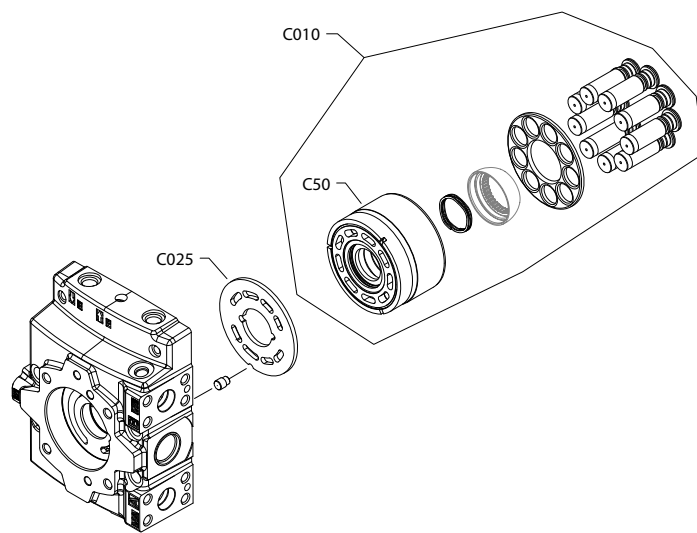
Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
C50	12-49		11124483	Cylinder block assembly, speed ring, 69cc	1
C50	11-41		11124485	Cylinder block assembly, speed ring, 78cc	1
C010	17-47		11191001	Cylinder block kit, speed ring, 69cc (<i>SB-2018-004</i> on page 191)	1
C010	17-47		11191002	Cylinder block kit, speed ring, 78cc (<i>SB-2018-004</i> on page 191)	1
C025	09-47		11248227	Valve plate, CCW (<i>SB-2013-003</i> on page 185)	1
C025	09-47		11248226	Valve plate, CW (<i>SB-2013-003</i> on page 185)	1

Order code: P4

C50	12-49		11124483	Cylinder block assembly, speed ring, 69cc	1
C50	11-41		11124485	Cylinder block assembly, speed ring, 78cc	1
C010	17-47		11191001	Cylinder block kit, speed ring, 69cc (<i>SB-2018-004</i> on page 191)	1
C010	17-47		11191002	Cylinder block kit, speed ring, 78cc (<i>SB-2018-004</i> on page 191)	1
C025	09-47		11248228	Valve plate, CCW (<i>SB-2013-003</i> on page 185)	1
C025	09-47		11244547	Valve plate, CW (<i>SB-2013-003</i> on page 185)	1

H1P 69/78 special hardware NN, PN

Parts configuration

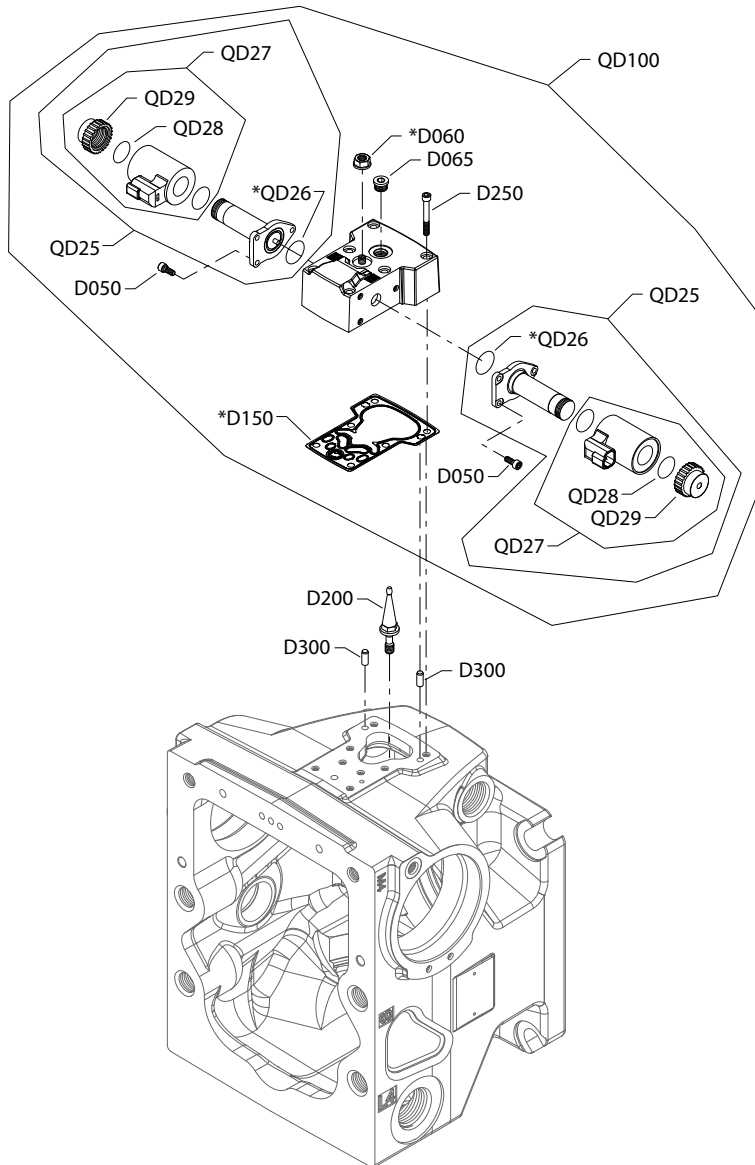


Order code: NN, PN

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
C50	12-49		11124482	Cylinder block assembly, 69cc	1
C50	11-41		11124484	Cylinder block assembly, 78cc	1
C010	17-47		11189989	Cylinder block kit, 69cc (<i>SB-2018-004</i> on page 191)	1
C010	17-47		11189990	Cylinder block kit, 78cc (<i>SB-2018-004</i> on page 191)	1
C025	10-02		11248228	Valve plate, CCW (<i>SB-2013-003</i> on page 185)	1
C025	10-02		11244547	Valve plate, CW (<i>SB-2013-003</i> on page 185)	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	07-14		716860	Screw, M5 x 12	6
D060	07-14		612291 (9003508-0008)	Seal nut, M8	1
D065	07-14		9005110-4400	Plug assembly (SAE)	1
D150	07-14		11227209	Control gasket (<i>SB-2016-033</i> on page 190)	1
D200	07-14		11202172	Swash plate feedback link (<i>SB-2018-025</i> on page 193)	1
D250	07-14		505038	Screw, M6 x 45	6
D300	07-14		310979	Dowel pin	2
QD26	07-14		11001952	O-ring	2
QD28	07-14		063172	O-ring	2

Order code: A2

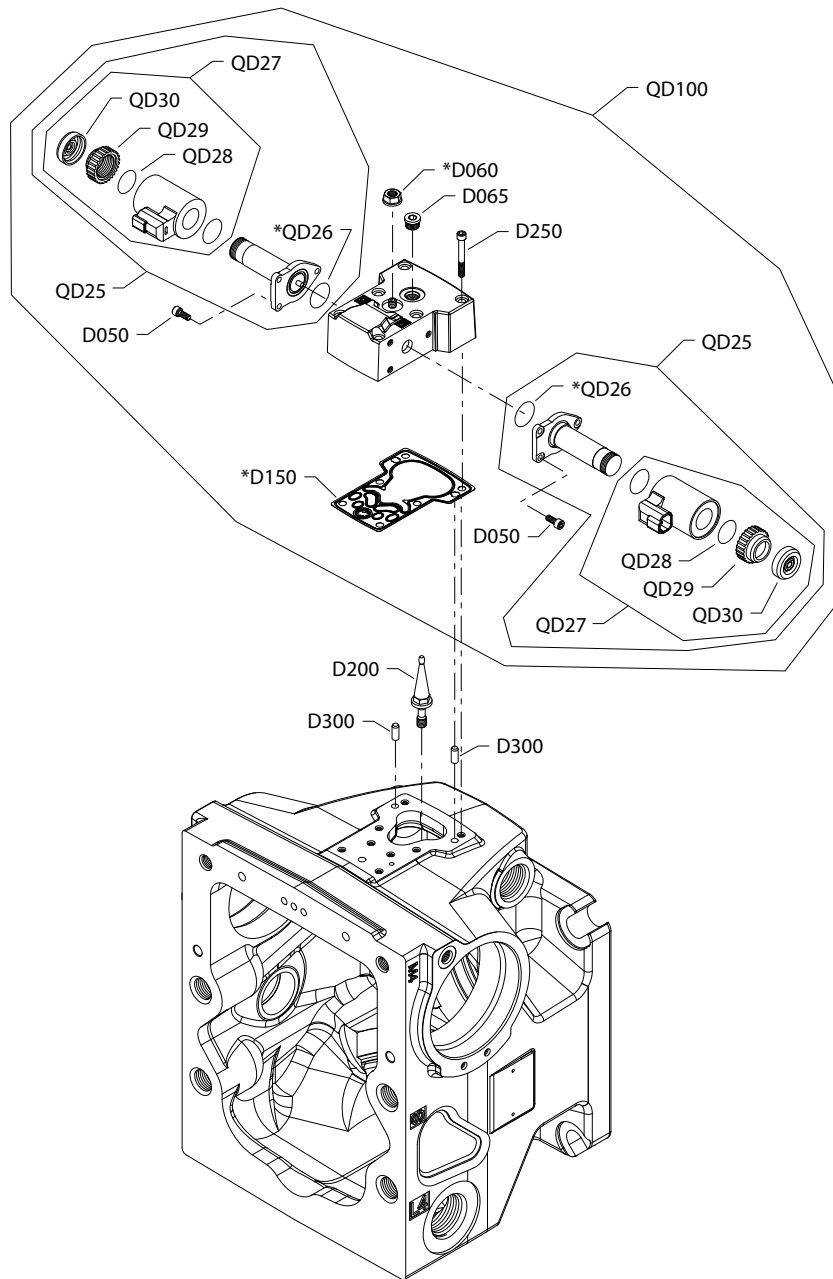
QD25	07-14		11012457	Proportional solenoid, 12v	2
QD27	07-14		11028018	Coil kit, 12v, DEUTSCH connector	2
QD29	07-14		11027046	Coil nut	2
QD100	07-14		11019680	EDC kit, 12v, DEUTSCH connector, fast	1

Order code: A3

QD25	07-14		11012459	Proportional solenoid, 24v	2
QD27	07-14		11028019	Coil kit, 24v, DEUTSCH connector	2
QD29	07-14		11028024	Coil nut	2
QD100	07-14		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	07-14		716860	Screw, M5 x 12	6
D060	07-14		612291 (9003508-0008)	Seal nut, M8	1
D065	07-14		9005110-4400	Plug assembly	1
D150	07-14		11227209	Control gasket (<i>SB-2016-033</i> on page 190)	1
D200	07-14		11202172	Swash plate feedback link (<i>SB-2018-025</i> on page 193)	1
D250	07-14		505038	Screw, M6 x 45	6
D300	07-14		310979	Dowel pin	2
QD26	07-14		11001952	O-ring	2
QD28	07-14		063172	O-ring	2
QD30	07-14		11027883	Cap	2

Order code: A4

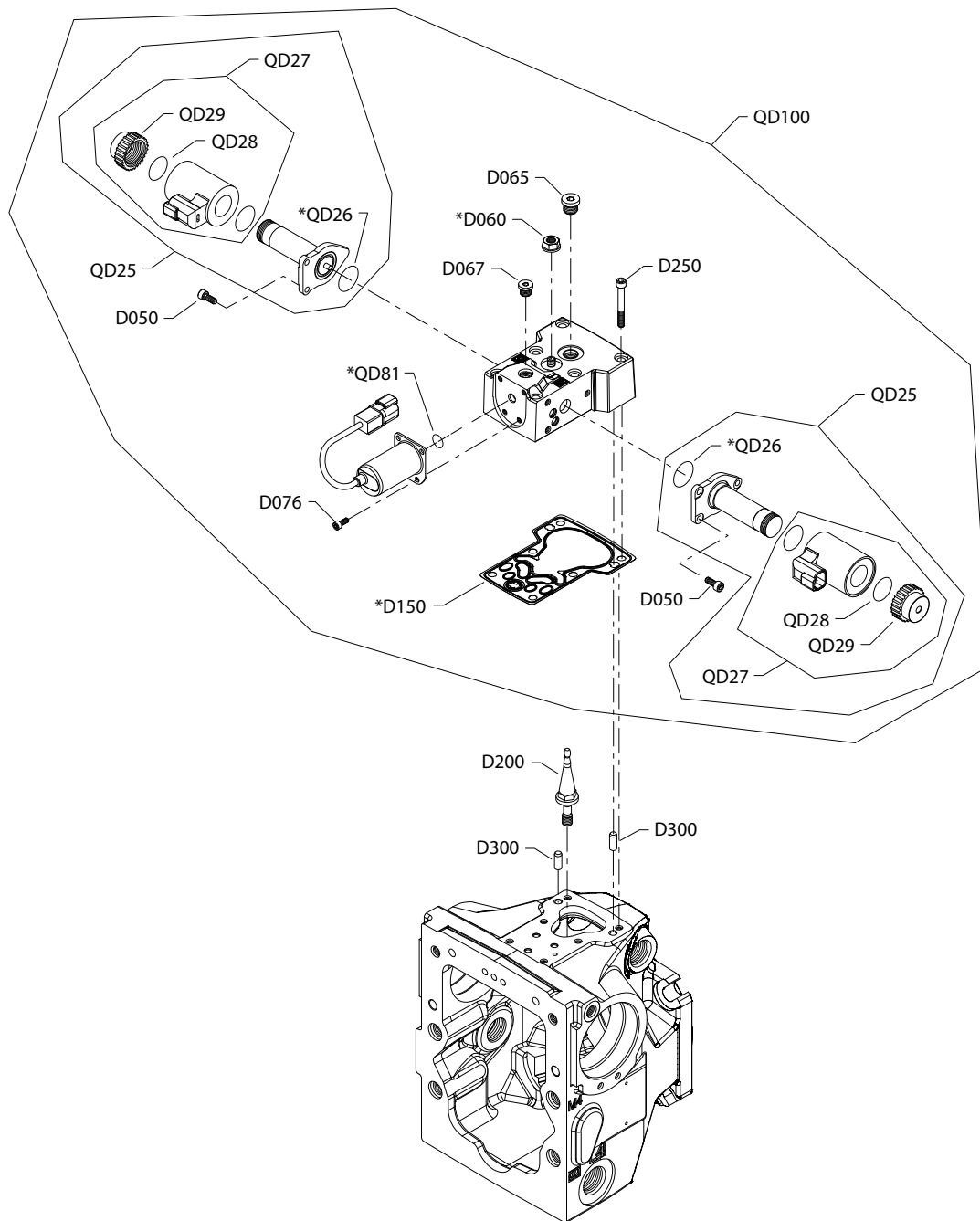
QD25	07-14		140750	Proportional solenoid, 12v	2
QD27	07-14		11004698	Coil kit, 12v, DEUTSCH connector	2
QD29	07-14		11319330	Coil nut	2
QD100	07-14		11019732	EDC kit, 12v, DEUTSCH connector, fast, manual override	1

Order code: A5

QD25	07-14		140751	Proportional solenoid, 24v	2
QD27	07-14		11004700	Coil kit, 24v, DEUTSCH connector	2
QD29	07-14		11319361	Coil nut	2
QD100	07-14		11019733	EDC kit, 24v, DEUTSCH connector, fast, manual override	1

H1P control A6

Parts configuration



Note

Generic housing shown.

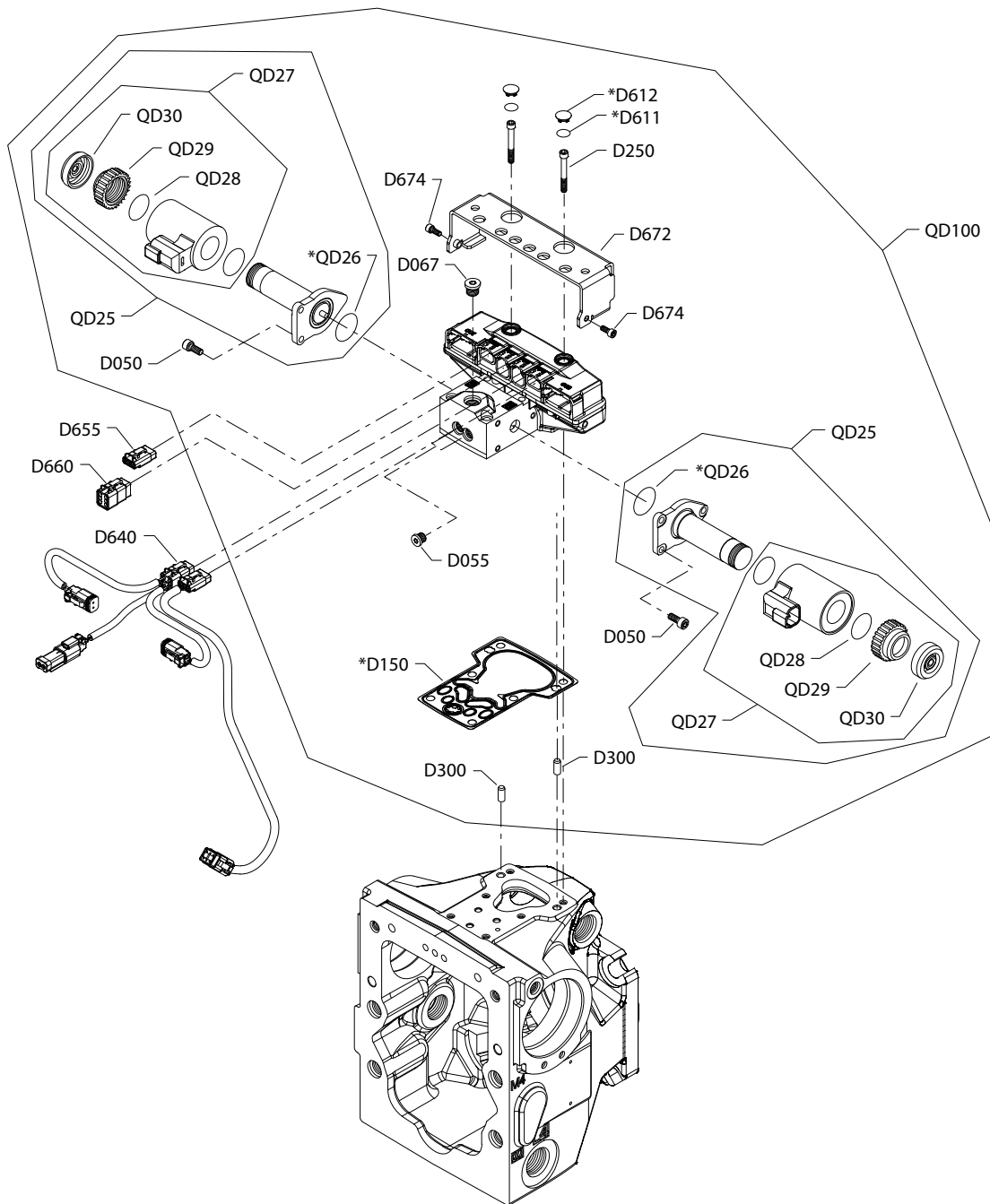
* Included in overhaul seal kit Q210

Order code: A6

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
D050	07-14	12-52	716860	Screw, M5 x 12	6
D060	07-14	12-52	612291 (9003508-0008)	Seal nut, M8	1
D065	07-14	12-52	9005110-4400	Plug assembly	1
D067	07-14	12-52	11040532	Plug assembly	1
D076	07-14	12-52	346957	Screw, M4 x 8	4
D150	07-14	12-52	11227209	Control gasket (<i>SB-2016-033</i> on page 190)	1
D200	07-14	12-52	11202172	Swashplate feedback link (<i>SB-2018-025</i> on page 193)	1
D250	07-14	12-52	505038	Screw, M6 x 45	6
D300	07-14	12-52	310979	Dowel pin	2
QD25	07-14	12-52	11012457	Proportional solenoid, 12V	2
QD26	07-14	12-52	11001952	O-ring	2
QD27	07-14	12-52	11028018	Coil kit, 12V, DEUTSCH connector	2
QD28	07-14	12-52	063172	O-ring	2
QD29	07-14	12-52	11027046	Coil nut	2
QD081	07-14	12-52	11059551	O-ring	1
QD100	07-14	12-52	11152574	EDC kit, 12V, high gain spool, control override (<i>SB-2015-035</i> on page 188)	1

H1P control A7

Parts configuration



Note

Generic housing shown

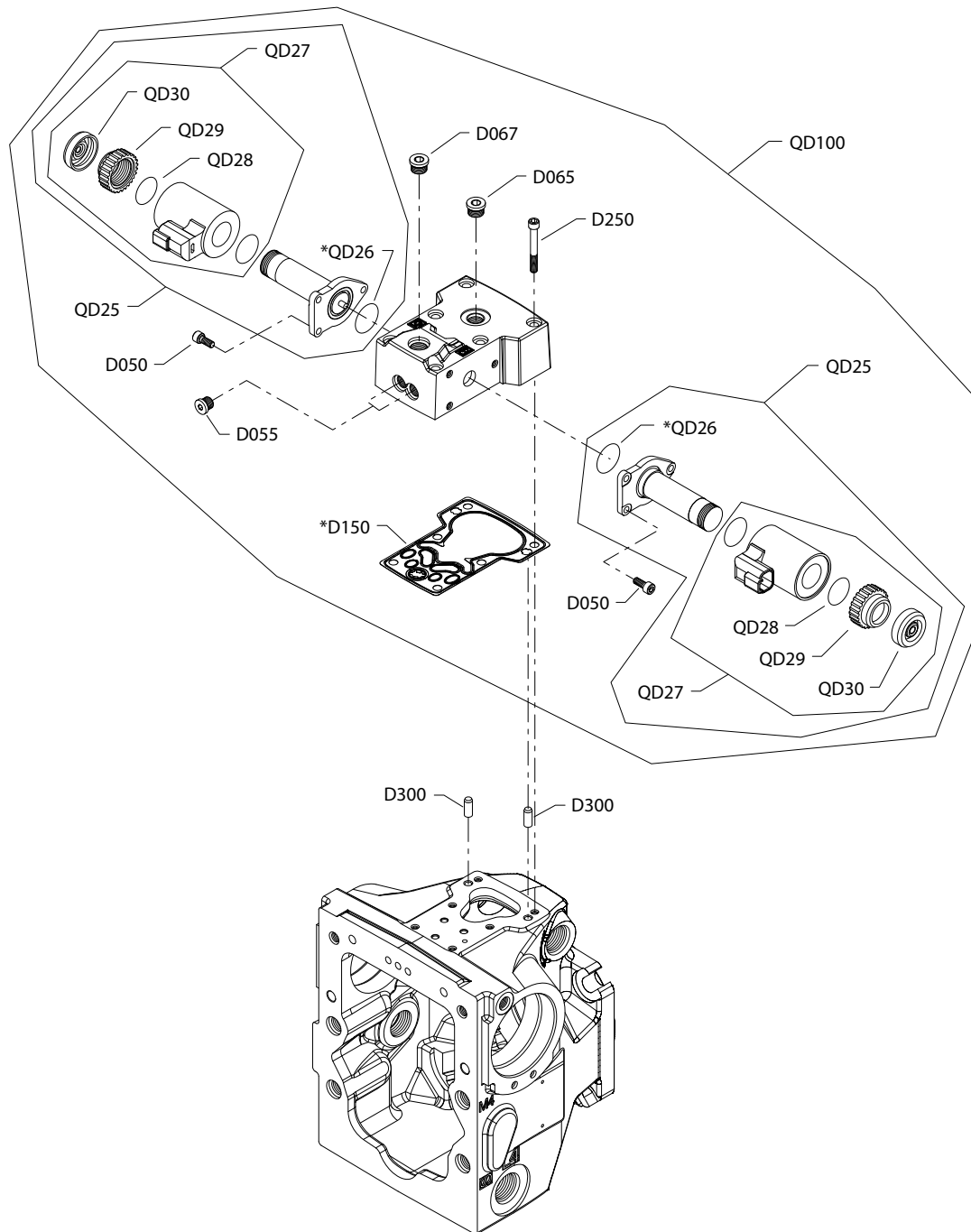
* Included in overhaul seal kit

Order code: A7

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
D050	10-14		716860	Screw, M5 x 12	6
D055	10-14		11040532	Plug assembly	2
D067	10-14		9005110-4400	Plug assembly	1
D150	10-14		11227209	Control gasket (<i>SB-2016-033</i> on page 190)	1
D250	10-14		505038	Screw, M6 x 45	6
D300	10-14		11036469	Dowel pin	2
D612	10-14	21-12	11003126	Plug (<i>SB-2021-014</i> on page 195)	2
D612	21-13		11223708	Plug	2
D611	10-14	21-12	11066774	O-ring (<i>SB-2021-014</i> on page 195)	2
D611	21-13		11225703	O-ring	2
D640	10-14		11023348	AC wiring harness	1
D655	10-14		11084827	Connector DTM 06-3S	1
D660	10-14		11084822	Connector DTM 06-6S	1
D672	10-14		11151875	Protection	1
D674	10-14		716860	Screw, M5 x 12	2
QD25	10-14		140750	Proportional solenoid, 12 volt	2
QD26	10-14		11001952	O-ring	2
QD27	10-14		11004698	Coil kit, 12v, DEUTSCH connector	2
QD28	10-14		063172	O-ring	2
QD29	10-14		11319330	Coil nut	2
QD30	10-14		11027883	Cap	2
QD100	10-14		11232544	Automotive control kit, 12v, manual override	1

H1P control A8

Parts configuration



Note

Generic housing shown.

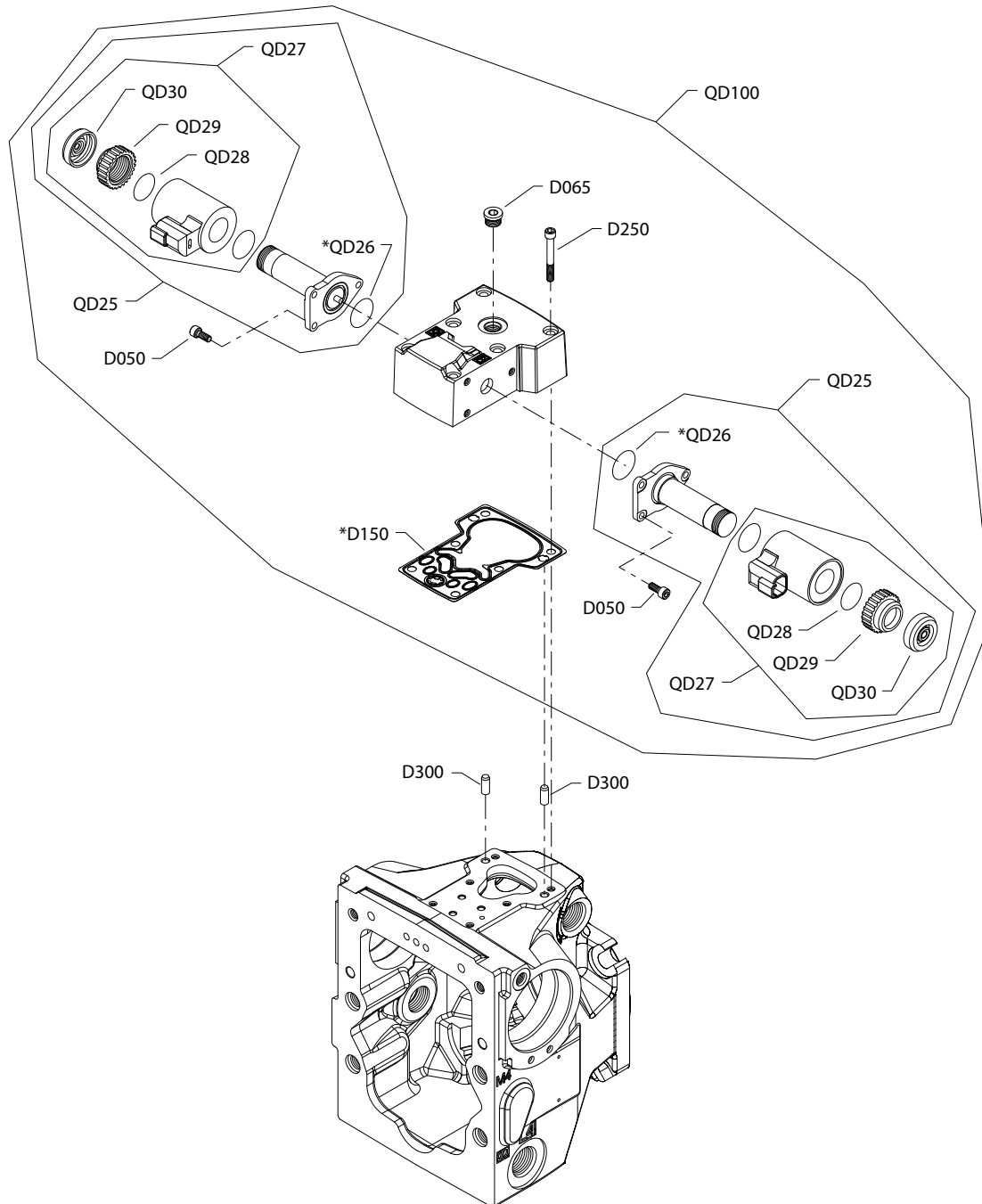
* Included in overhaul seal kit Q210

Order code: A8

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
D050	07-14		716860	Screw, M5 x 12	6
D055	07-14		11040532	Plug assembly	2
D065	07-14		9005110-4400	Plug assembly	1
D067	07-14		9005110-4400	Plug assembly	1
D150	07-14		11227209	Control gasket (<i>SB-2016-033</i> on page 190)	1
D250	07-14		505038	Screw, M6 x 45	6
D300	07-14		310979	Dowel pin	2
QD25	07-14		140750	Proportional solenoid, 12v, DEUTSCH connector	2
QD26	07-14		11001952	O-ring	2
QD27	07-14		11004698	Coil kit, 12v, DEUTSCH connector	2
QD28	07-14		063172	O-ring	2
QD29	07-14		11319330	Coil nut	2
QD30	07-14		11027883	Cap	2
QD100	07-14		11015803	NFPE control kit, 12V, manual override, DEUTSCH connector	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	07-14		716860	Screw, M5 x 12	6
D065	07-14		9005110-4400	Plug assembly	1
D150	07-14		11227209	Control gasket	1
D250	07-14		505038	Screw, M6 x 45	6
D300	07-14		310979	Dowel pin	2
QD26	07-14		11001952	O-ring	2
QD28	07-14		063172	O-ring	2
QD30	07-14		11027883	Cap	2

Order code: A9

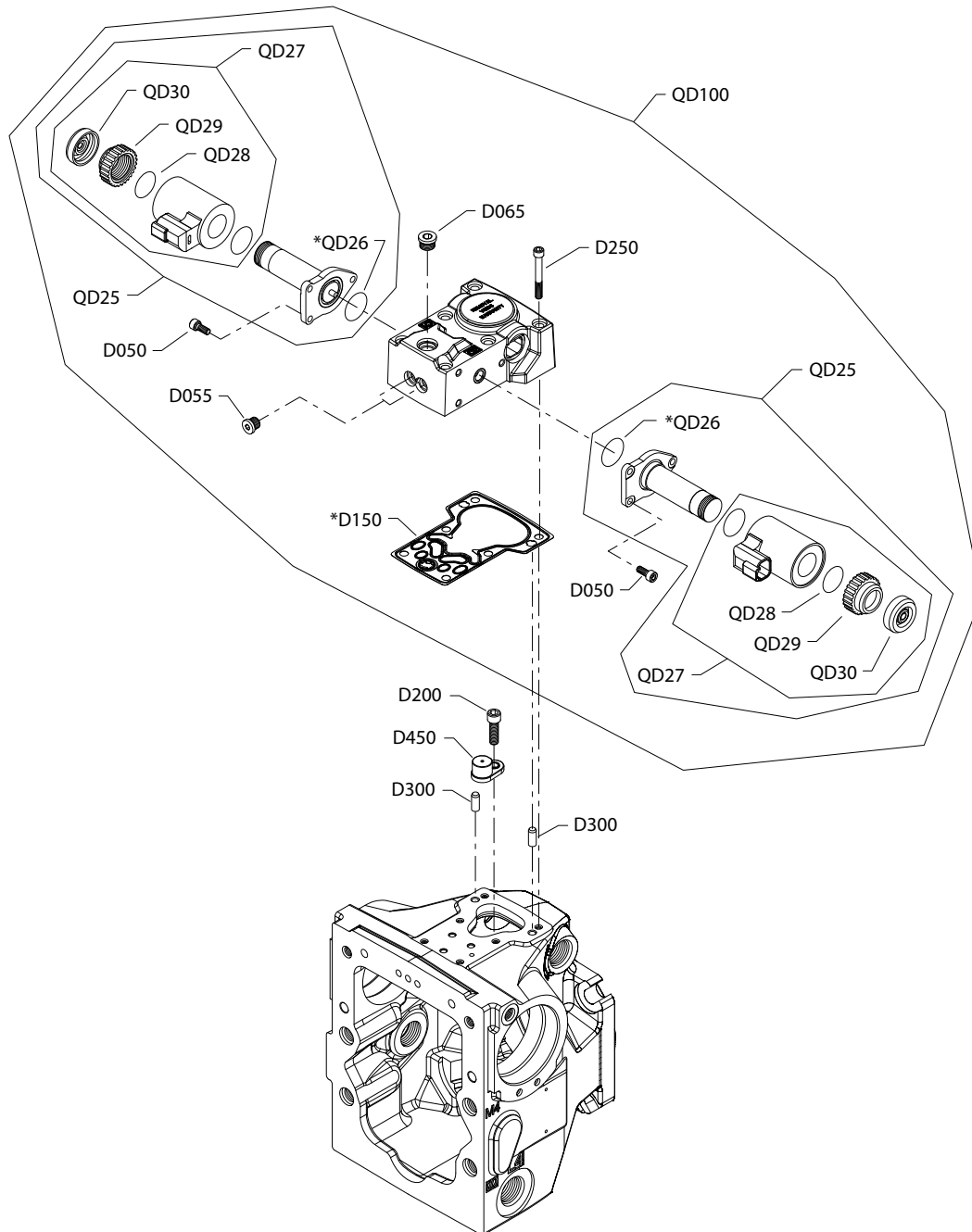
QD25	07-14		141301	Proportional solenoid, 12v, DEUTSCH connector	2
QD27	07-14		11005222	Coil kit, 12v, DEUTSCH connector	2
QD29	07-14		11319330	Coil nut	2
QD100	07-14		11025905	FNR control kit, 12v, manual override, DEUTSCH connector	1

Order code: B1

QD25	07-14		141313	Proportional solenoid, 24v, DEUTSCH connector	2
QD27	07-14		11005223	Coil kit, 24v, DEUTSCH connector	2
QD29	07-14		11319361	Coil nut	2
QD100	07-14		11025906	FNR control kit, 24v, manual override, DEUTSCH connector	1

H1P control B5

Parts configuration



Note

Generic housing shown

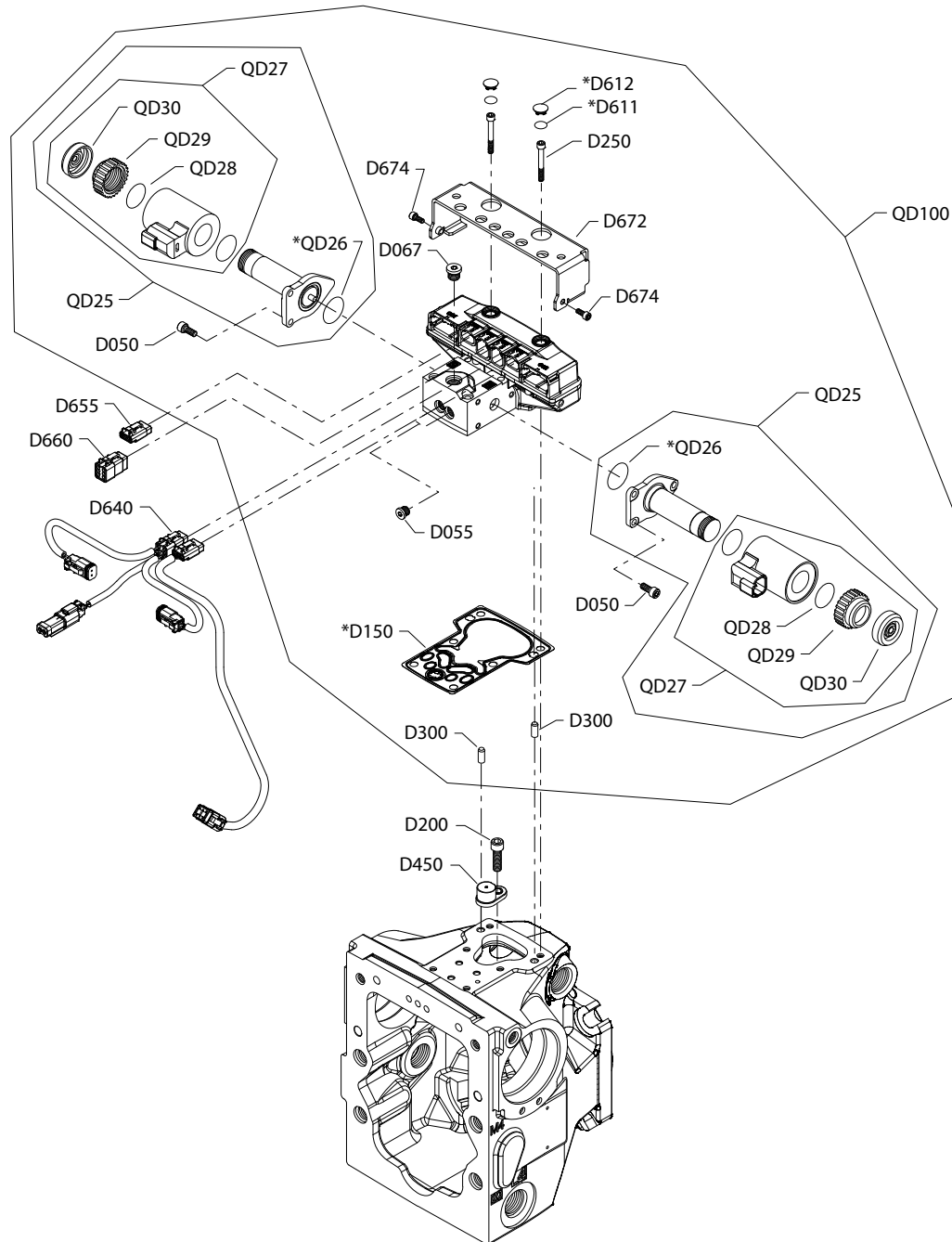
* Included in overhaul seal kit Q210

Order code: B5

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
D050	10-14		716860	Screw	6
D055	10-14		11040532	Plug assembly	2
D067	10-14		9005110-4400	Plug assembly	1
D150	10-14		11227209	Control gasket (<i>SB-2016-033</i> on page 190)	1
D200	10-14		141472	Screw	1
D250	10-14		505038	Screw	6
D300	10-14		310979	Dowel pin	2
D450	10-14		11003097	Magnet carrier	1
QD25	10-14		140750	Proportional solenoid, 12 volt	2
QD26	10-14		11001952	O-ring	2
QD27	10-14		11004698	Coil kit, 12V, DEUTSCH connector	2
QD28	10-14		063172	O-ring	2
QD29	10-14		11319330	Coil nut	2
QD30	10-14		11027883	Cap	2
QD100	10-14		11050138	NFPE control kit, 12V, manual override	1

H1P control B7

Parts configuration



Note

Generic housing shown.

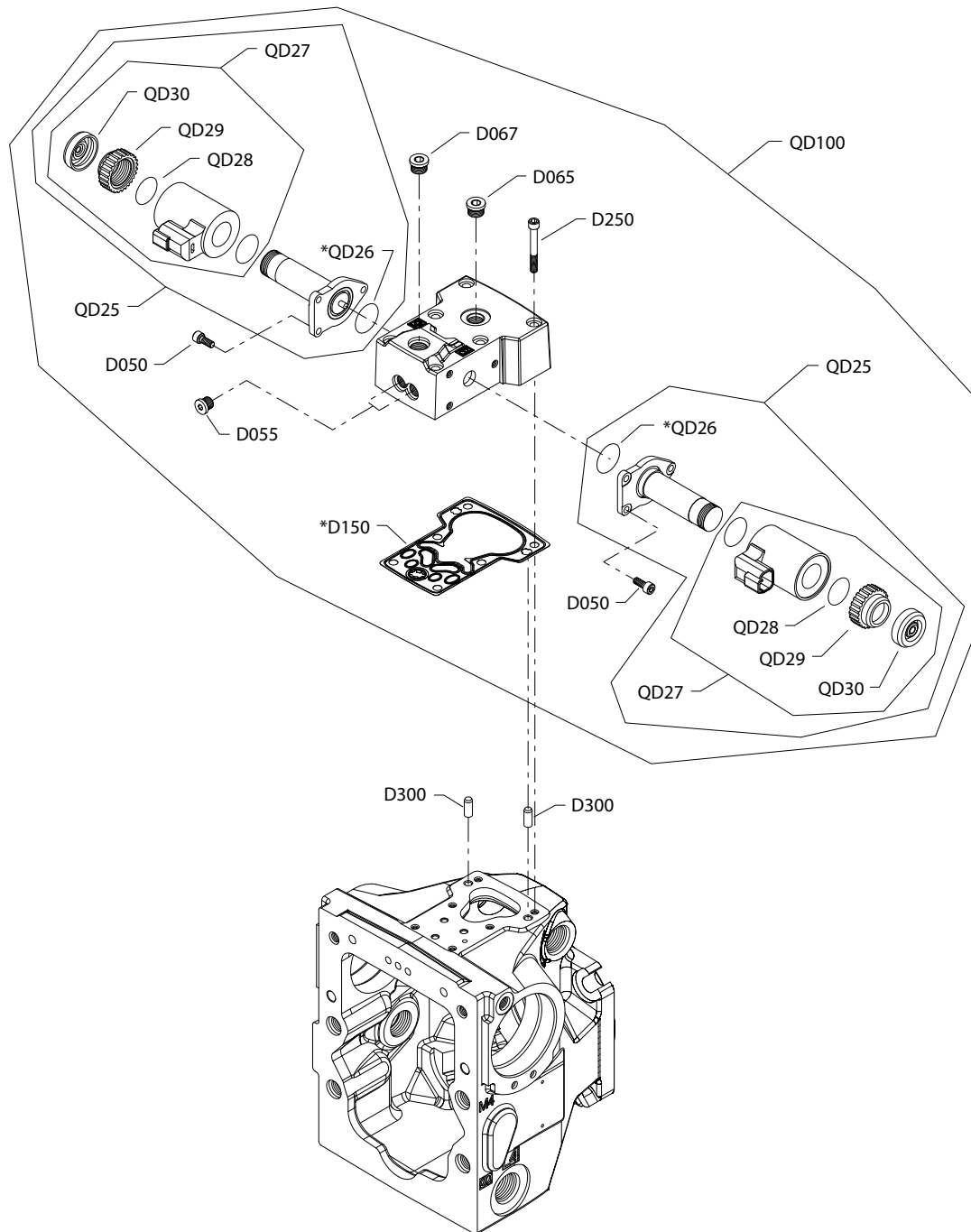
* Included in overhaul seal kit Q210

Order code: B7

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
D050	10-04		716860	Screw, M5 x 12	6
D055	10-04		11040532	Plug assembly	2
D067	10-04		9005110-4400	Plug assembly	1
D150	10-04		11227209	Control gasket (SB-2016-033 on page 190)	1
D200	10-04		141472	Screw, special	1
D250	10-04		505038	Screw, M6 x 45	6
D300	10-04		11036469	Dowel pin	2
D450	10-04		11003097	Magnet carrier	1
D611	10-04	21-12	11066774	O-ring (SB-2021-014 on page 195)	2
D611	21-13		11225703	O-ring	2
D612	10-04	21-12	11003126	Plug (SB-2021-014 on page 195)	2
D612	21-13		11223708	Plug	2
D640	10-04		11023348	AC wiring harness	1
D655	10-04		11084827	Connector DTM 06-35	1
D660	10-04		11084822	Connector DTM 06-65	1
D672	10-04		11151875	Protection	1
D674	10-04		716860	Screw, M5 x 12	2
QD25	10-04		140750	Proportional solenoid, 12 volt	2
QD26	10-04		11001952	O-ring	2
QD27	10-04		11004698	Coil kit, 12v, DEUTSCH connector	2
QD28	10-04		063172	O-ring	2
QD29	10-04		11319330	Coil nut	2
QD30	10-04		11027883	Cap	2
QD100	10-04		11232766	Automotive control kit, 12v, manual override	1

H1P control B8

Parts configuration



Note

Generic housing shown.

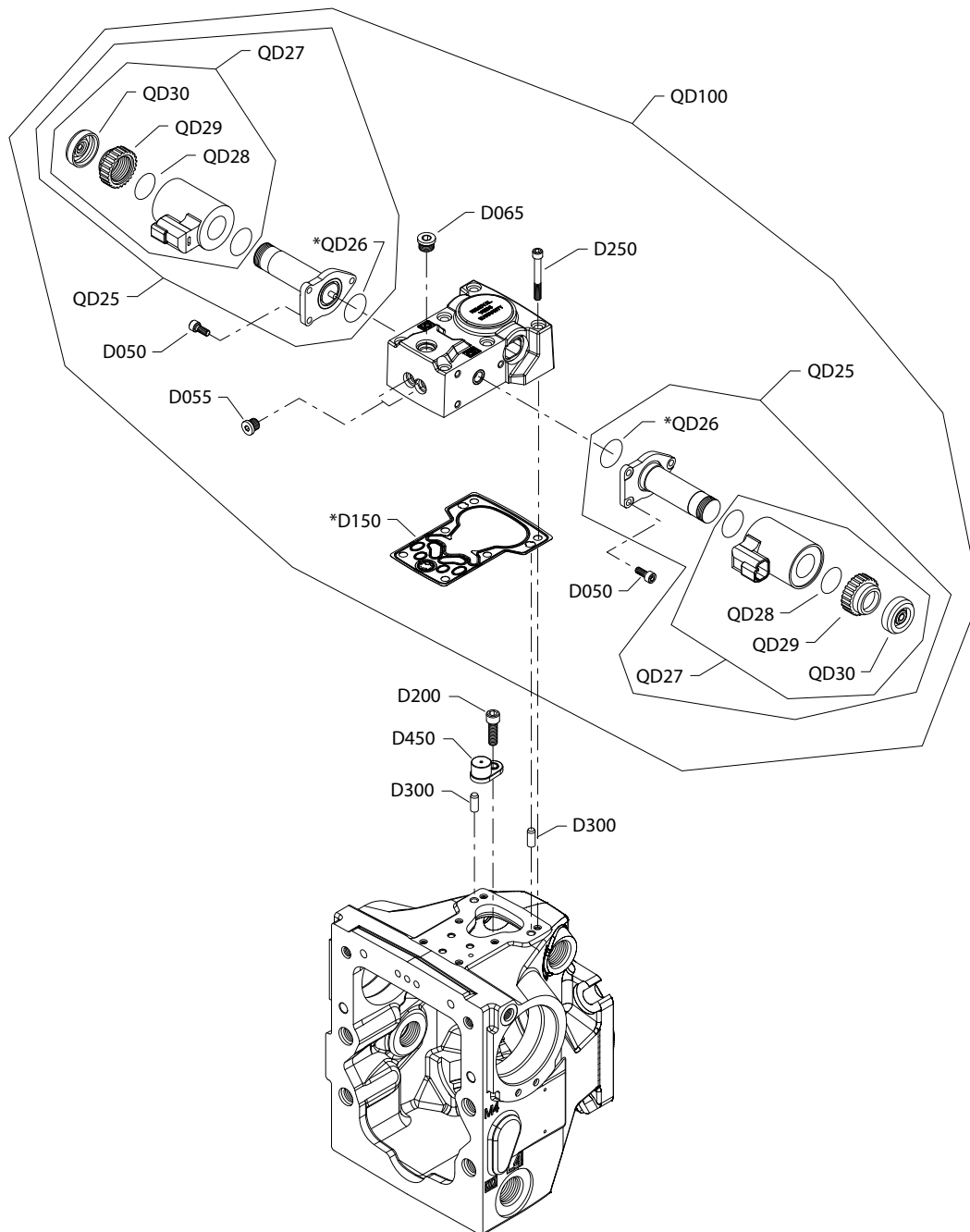
* Included in overhaul seal kit Q210

Order code: B8

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
D050	07-14		716860	Screw, M5 x 12	6
D055	07-14		11040532	Plug assembly	2
D065	07-14		9005110-4400	Plug assembly	1
D067	07-14		9005110-4400	Plug assembly	1
D150	07-14		11227209	Control gasket (<i>SB-2016-033</i> on page 190)	1
D250	07-14		505038	Screw, M6 x 45	6
D300	07-14		310979	Dowel pin	2
QD25	07-14		140751	Proportional solenoid, 24v, DEUTSCH connector	2
QD26	07-14		11001952	O-ring	2
QD27	07-14		11004700	Coil kit, 24v, DEUTSCH connector	2
QD28	07-14		063172	O-ring	2
QD29	07-14		11319361	Coil nut	2
QD30	07-14		11027883	Cap	2
QD100	07-14		11025904	NFPE control kit, 24v, manual override, DEUTSCH connector	1

H1P control B9

Parts configuration



Note

Generic housing shown.

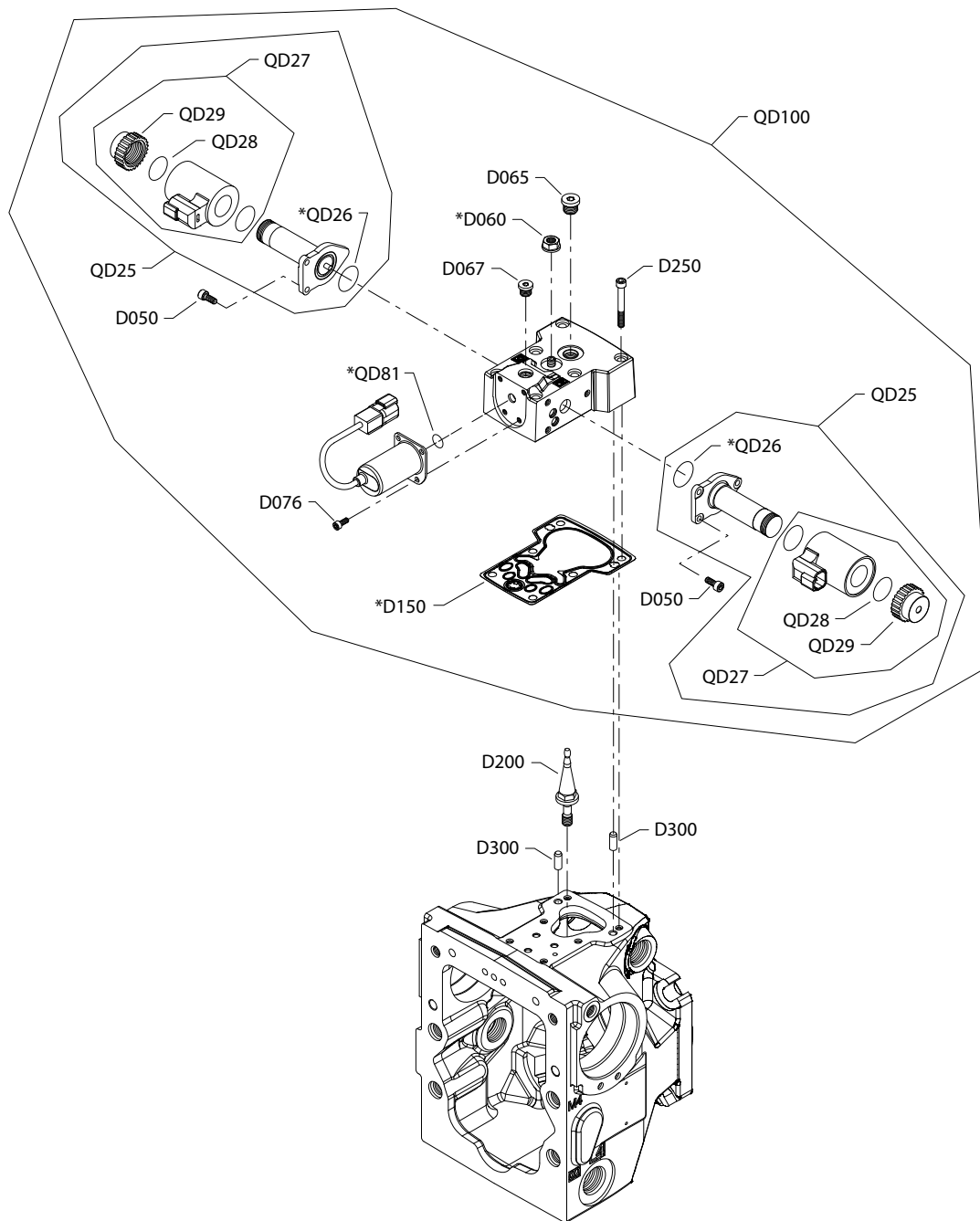
* Included in overhaul seal kit Q210

Order code: B9

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
D050	07-14		716860	Screw	6
D055	07-14		11040532	Plug assembly	2
D067	07-14		9005110-4400	Plug assembly	1
D150	07-14		11227209	Control gasket (<i>SB-2016-033</i> on page 190)	1
D200	07-14		141472	Screw	1
D250	07-14		505038	Screw	6
D300	07-14		310979	Dowel pin	2
D450	07-14		11003097	Magnet carrier	1
QD25	07-14		140751	Proportional solenoid, 24v, DEUTSCH connector	2
QD26	07-14		11001952	O-ring	2
QD27	07-14		1104700	Coil kit, 24v, DEUTSCH connector	2
QD28	07-14		063172	O-ring	2
QD29	07-14		11319361	Coil nut	2
QD30	07-14		11027883	Cap	2
QD100	07-14		11050137	NFPE control kit,, 24V, manual override	1

H1P control C1

Parts configuration



Note

Generic housing shown.

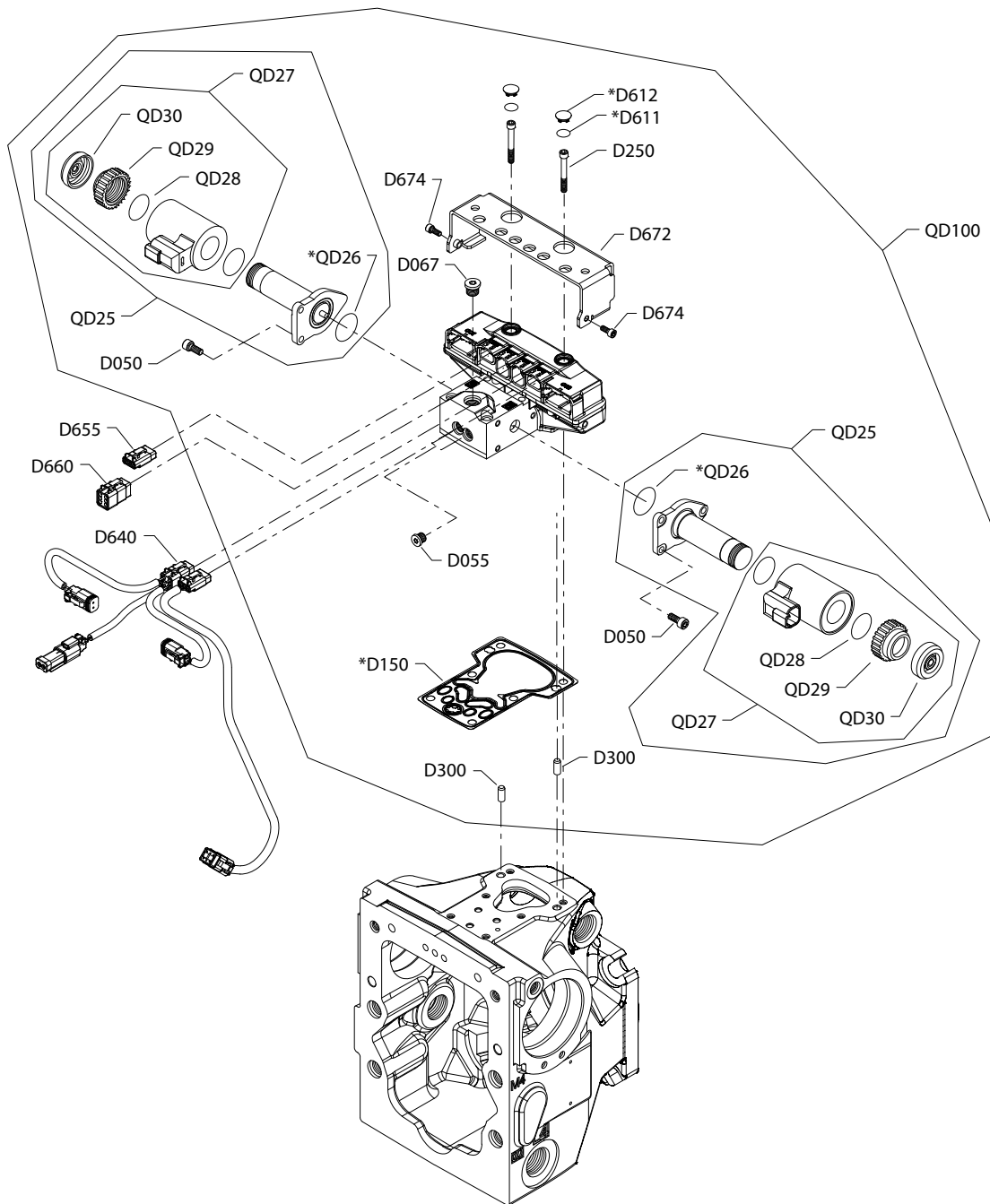
* Included in overhaul seal kit Q210

Order code: C1

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
D050	07-14	12-52	716860	Screw	6
D060	07-14	12-52	612291 (9003508-0008)	Seal nut	1
D065	07-14	12-52	9005110-4400	Plug assembly	1
D067	07-14	12-52	11040532	Plug assembly	1
D076	07-14	12-52	346957	Screw, M4 x 8	4
D150	07-14	12-52	11227209	Control gasket (<i>SB-2016-033</i> on page 190)	1
D200	07-14	12-52	11202172	Swashplate feedback link (<i>SB-2018-025</i> on page 193)	1
D250	07-14	12-52	505038	Screw	6
D300	07-14	12-52	310979	Dowel pin	2
QD25	07-14	12-52	11012459	Proportional solenoid, 24V, DEUTSCH connector	2
QD26	07-14	12-52	11001952	O-ring	2
QD27	07-14	12-52	11028019	Coil kit, 24V, DEUTSCH connector	2
QD28	07-14	12-52	063172	O-ring	2
QD29	07-14	12-52	11028024	Coil nut	2
QD81	07-14	12-52	11059551	O-ring	1
QD100	07-14	12-52	11147472	EDC kit, 24V, high gain spool, control override (<i>SB-2015-035</i> on page 188)	1

H1P control C2

Parts configuration



Note

Generic housing shown.

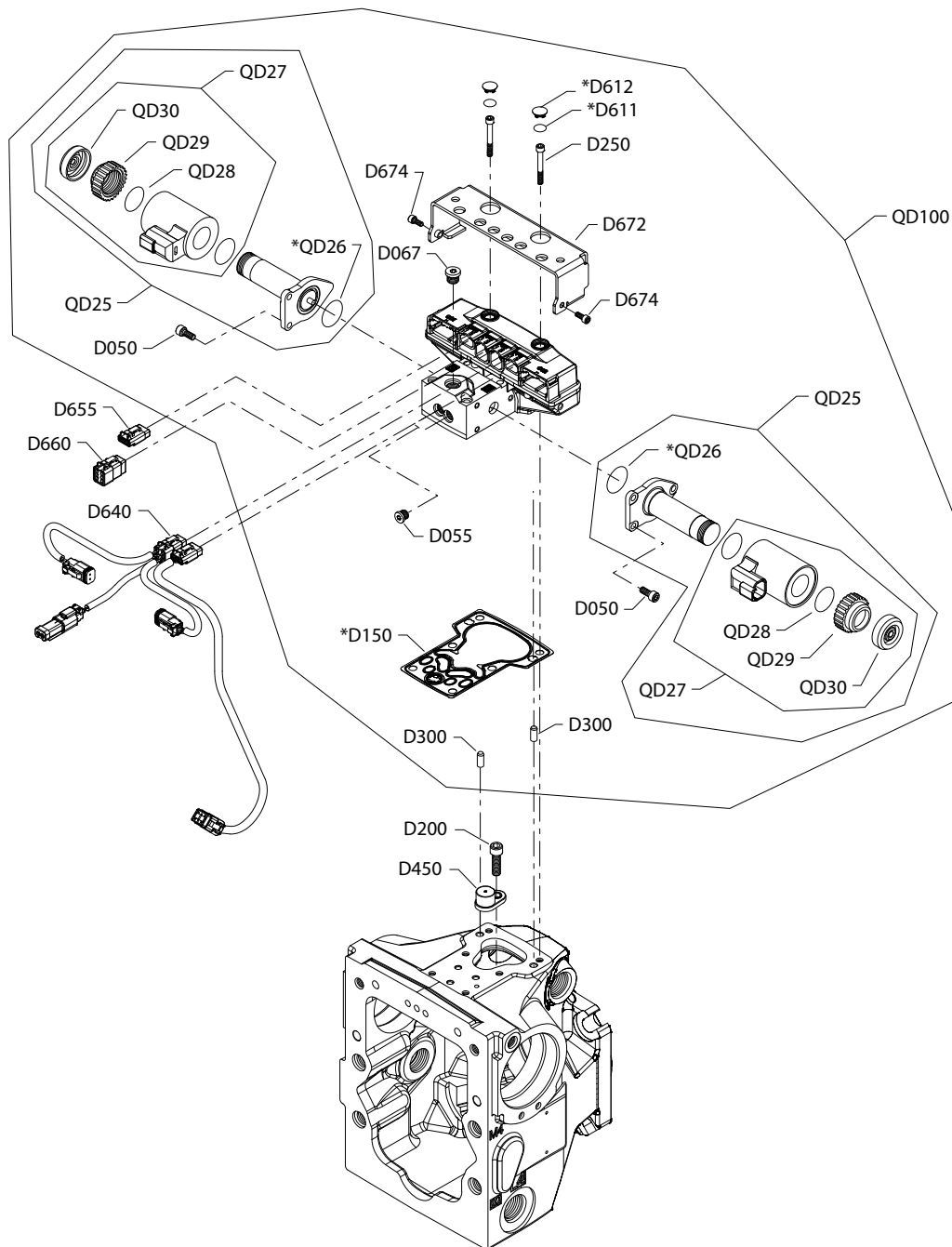
* Included in overhaul seal kit Q210

Order code: C2

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
D050	10-04		716860	Screw, M5 x 12	6
D055	10-04		11040532	Plug assembly	2
D067	10-04		9005110-4400	Plug assembly	1
D150	10-04		11227209	Control gasket (<i>SB-2016-033</i> on page 190)	1
D250	10-04		505038	Screw, M6 x 45	6
D300	10-04		11036469	Dowel pin	2
D611	10-04	21-12	11066774	O-ring (<i>SB-2021-014</i> on page 195)	2
D611	21-13		11225703	O-ring	2
D612	10-04	21-12	11003126	Plug (<i>SB-2021-014</i> on page 195)	2
D612	21-13		11223708	Plug	2
D640	10-04		11023348	AC wiring harness	1
D655	10-04		11084827	Connector DTM 06-3S	1
D660	10-04		11084822	Connector DTM 06-6S	1
D672	10-04		11151875	Protection	1
D674	10-04		716860	Screw, M5 x 12	2
QD25	10-04		140751	Proportional solenoid, 24 volt	2
QD26	10-04		11001952	O-ring	2
QD27	10-04		11004700	Coil kit, 24v, DEUTSCH connector	2
QD28	10-04		063172	O-ring	2
QD29	10-04		11319361	Coil nut	2
QD30	10-04		11027883	Cap	2
QD100	10-04		11232765	Automotive control kit, 24v, manual override	1

H1P control C3

Parts configuration



Note

Generic housing shown.

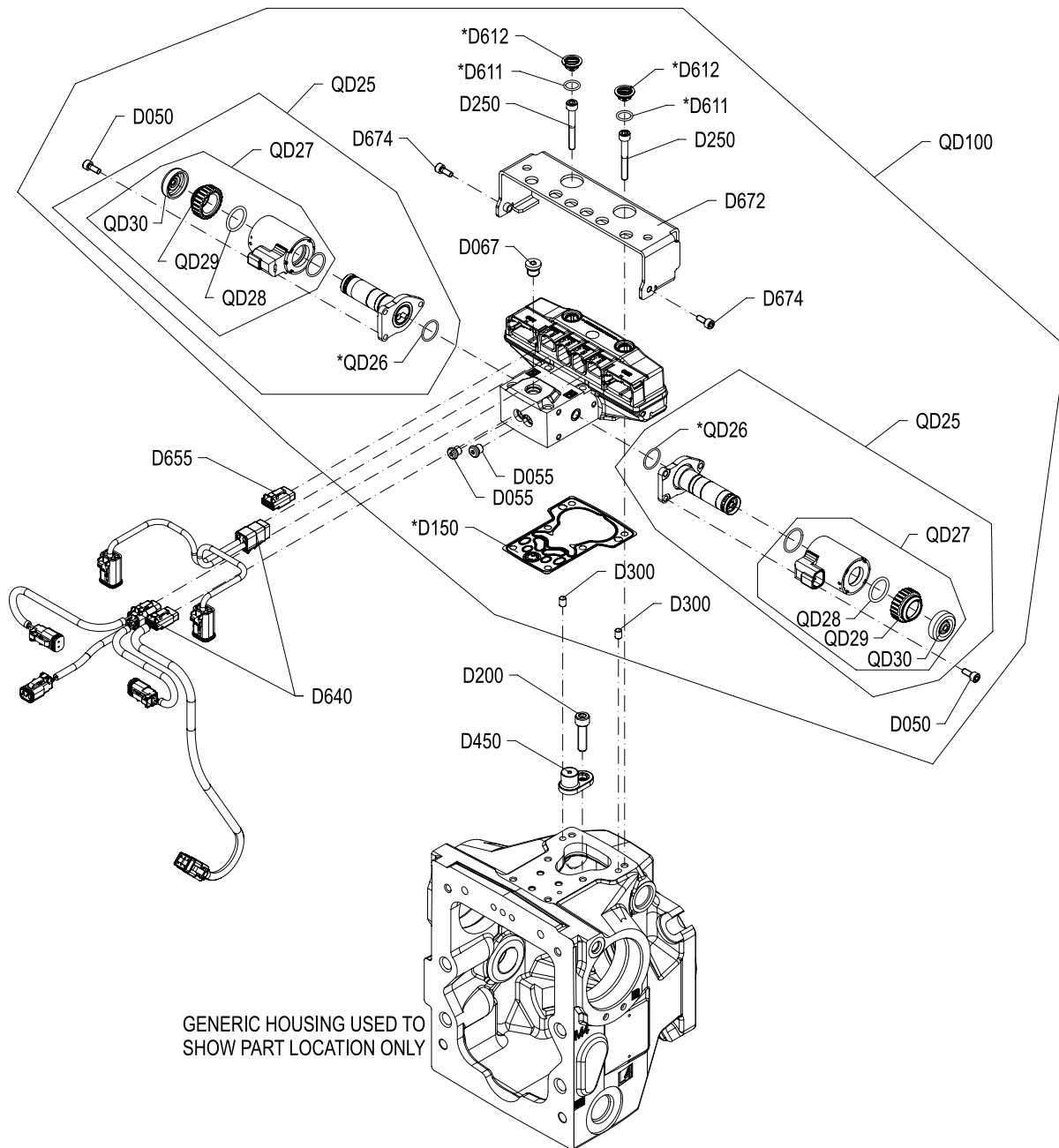
* Included in overhaul seal kit Q210

Order code: C3

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
D050	10-04		716860	Screw, M5 x 12	6
D055	10-04		11040532	Plug assembly	2
D067	10-04		9005110-4400	Plug assembly	1
D150	10-04		11227209	Control gasket (SB-2016-033 on page 190)	1
D200	10-04		141472	Screw, special	1
D250	10-04		505038	Screw, M6 x 45	6
D300	10-04		11036469	Dowel pin	2
D450	10-04		11003097	Magnet carrier	1
D611	10-04	21-12	11066774	O-ring (SB-2021-014 on page 195)	2
D611	21-13		11225703	O-ring	2
D612	10-04	21-12	11003126	Plug (SB-2021-014 on page 195)	2
D612	21-13		11223708	Plug	2
D640	10-04		11023348	AC wiring harness	1
D655	10-04		11084827	Connector DTM 06-35	1
D660	10-04		11084822	Connector DTM 06-65	1
D672	10-04		11151875	Protection	1
D674	10-04		716860	Screw, M5 x 12	2
QD25	10-04		140751	Proportional solenoid, 24 volt	2
QD26	10-04		11001952	O-ring	2
QD27	10-04		11004700	Coil kit, 24v, DEUTSCH connector	2
QD28	10-04		063172	O-ring	2
QD29	10-04		11319361	Coil nut	2
QD30	10-04		11027883	Cap	2
QD100	10-04		11232767	Automotive control kit, 24v, manual override	1

H1P control C9, D1

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	12-22		716860	Screw, M5 x 12	6
D055	12-22		11040532	Plug assembly	2
D067	12-22		9005110-4400	Plug assembly	1
D150	12-22		11227209	Control gasket (<i>SB-2016-033</i> on page 190)	1
D200	12-22		141472	Screw, special	1
D250	12-22		505038	Screw, M6 x 45	6
D300	12-22		11036469	Dowel pin	2
D450	12-22		11003097	Magnet carrier	1
D611	12-22	21-12	11066774	O-ring (<i>SB-2021-014</i> on page 195)	2
D611	21-13		11225703	O-ring	2
D612	12-22	21-12	11003126	Plug (<i>SB-2021-014</i> on page 195)	2
D612	21-13		11223708	Plug	2
D640	12-22		11105876	AC wiring harness	1
D655	12-22		11084827	Connector DTM 06-3S	1
D672	12-22		11151875	Protection	1
D674	12-22		716860	Screw, M5 x 12	2
QD26	12-22		11001952	O-ring	2
QD28	12-22		063172	O-ring	2
QD30	12-22		11027883	Cap	2

Order code: C9

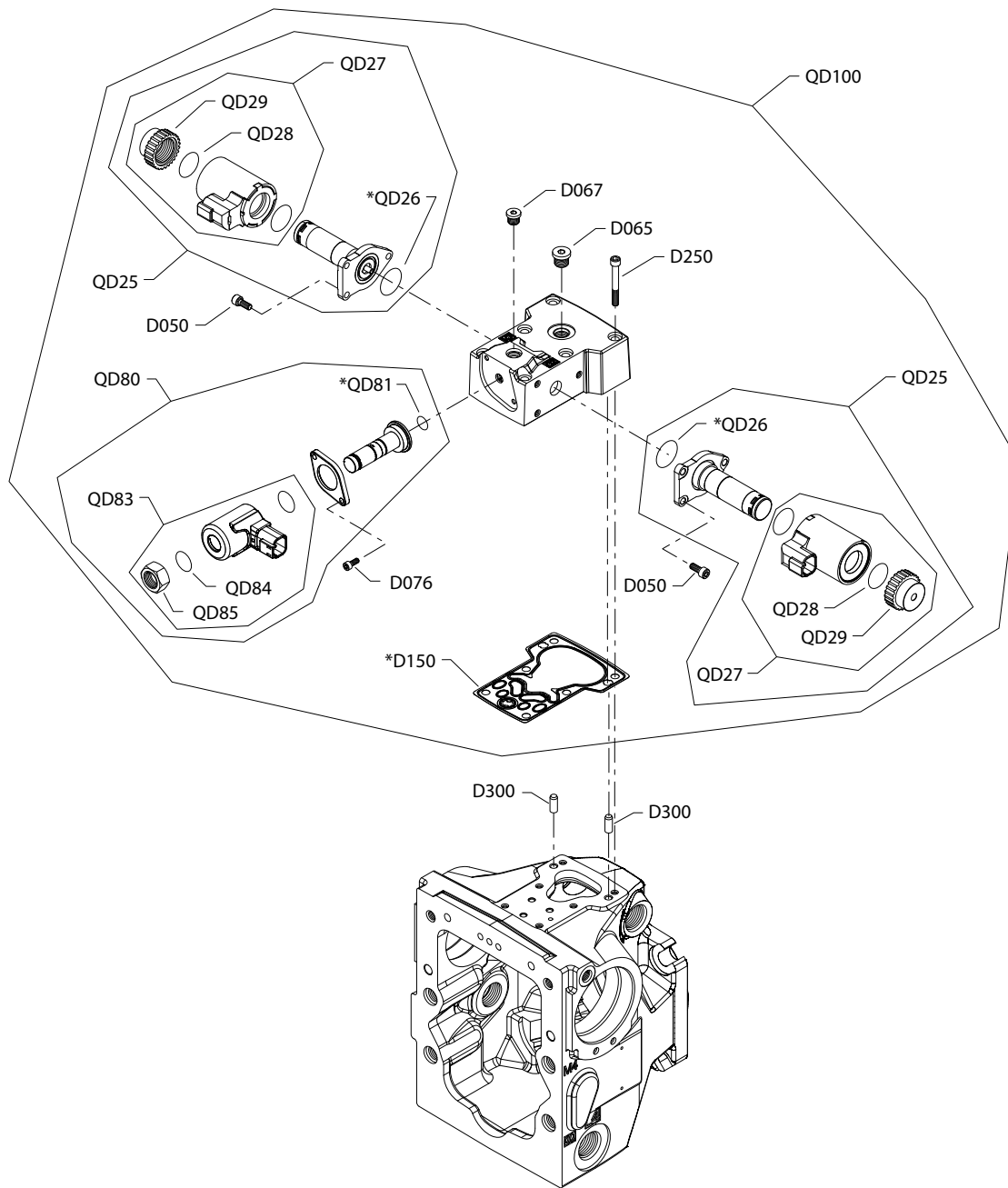
QD25	12-22		140751	Proportional solenoid, 24v	2
QD27	12-22		11004700	Coil kit, 24v, DEUTSCH connector	2
QD29	12-22		11319361	Coil nut	2
QD100	12-22		11232767	Automotive control kit, 24v, manual override	1

Order code: D1

QD25	12-22		140750	Proportional solenoid, 12v	2
QD27	12-22		11004698	Coil kit, 12v, DEUTSCH connector	2
QD29	12-22		11319330	Coil nut	2
QD100	12-22		11232766	Automotive control kit, 12v, manual override	1

H1P control E2

Parts configuration



Note

Generic housing shown.

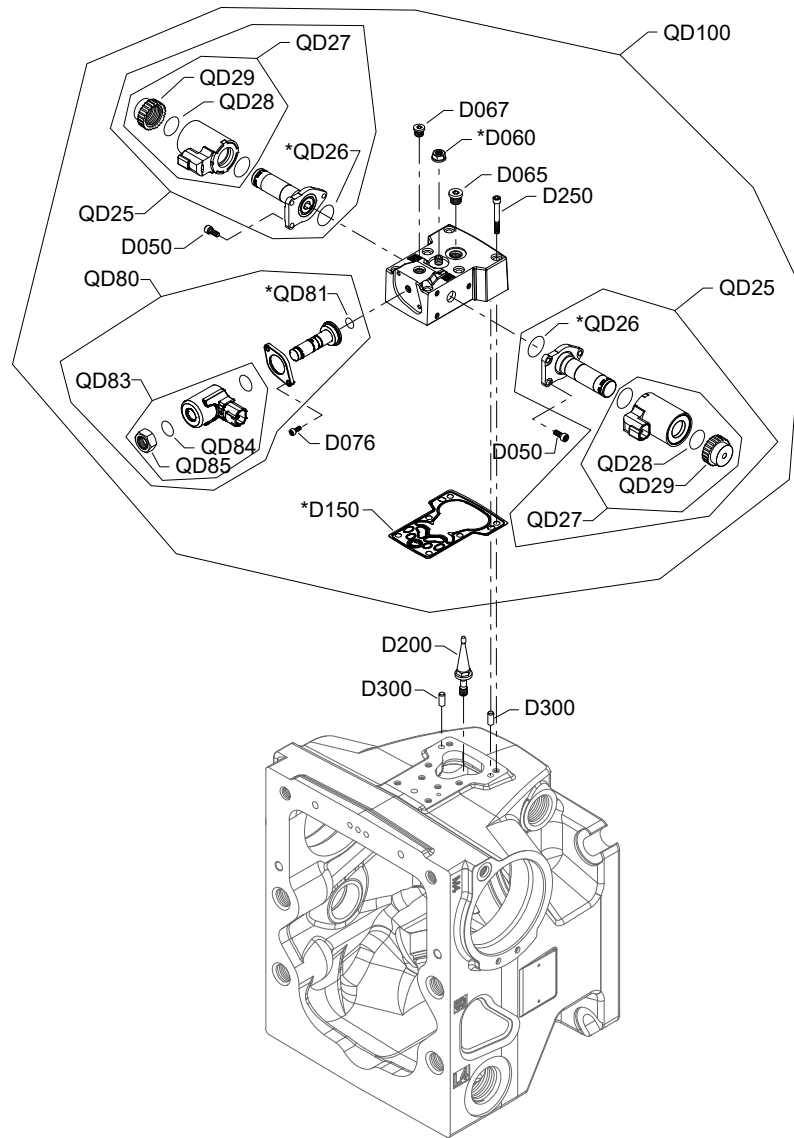
* Included in overhaul seal kit Q210

Order code: E2

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
D050	13-45		716860	Screw M5 x 12	6
D065	13-45		9005110-4400	Plug assembly	2
D067	13-45		9005110-4400	Plug assembly	1
D076	13-45		067694	Screw, M4 x 10	2
D150	13-45		11227209	Control gasket (<i>SB-2016-033</i> on page 190)	1
D250	13-45		505038	Screw, M6 x45	6
D300	13-45		310979	Dowel pin	2
QD25	13-45		11012457	Proportional solenoid, 12V	2
QD26	13-45		11001952	O-ring	2
QD27	13-45		11028018	Coil kit, 12V, DEUTSCH connector	2
QD28	13-45		063172	O-ring	2
QD29	13-45		11027046	Coil nut	2
QD80	13-45		11231200	Solenoid, 12V, DEUTSCH connector	1
QD81	13-45		11152257	O-ring	1
QD83	13-45		11232757	Coil kit, 12V, DEUTSCH connector	1
QD84	13-45		11232752	O-ring	1
QD85	13-45		11140394	Nut	1
QD100	13-45		11145115	NFPE kit, 12V, high gain spool, control override	1

H1P control E5

Parts configuration



Note

Generic housing shown.

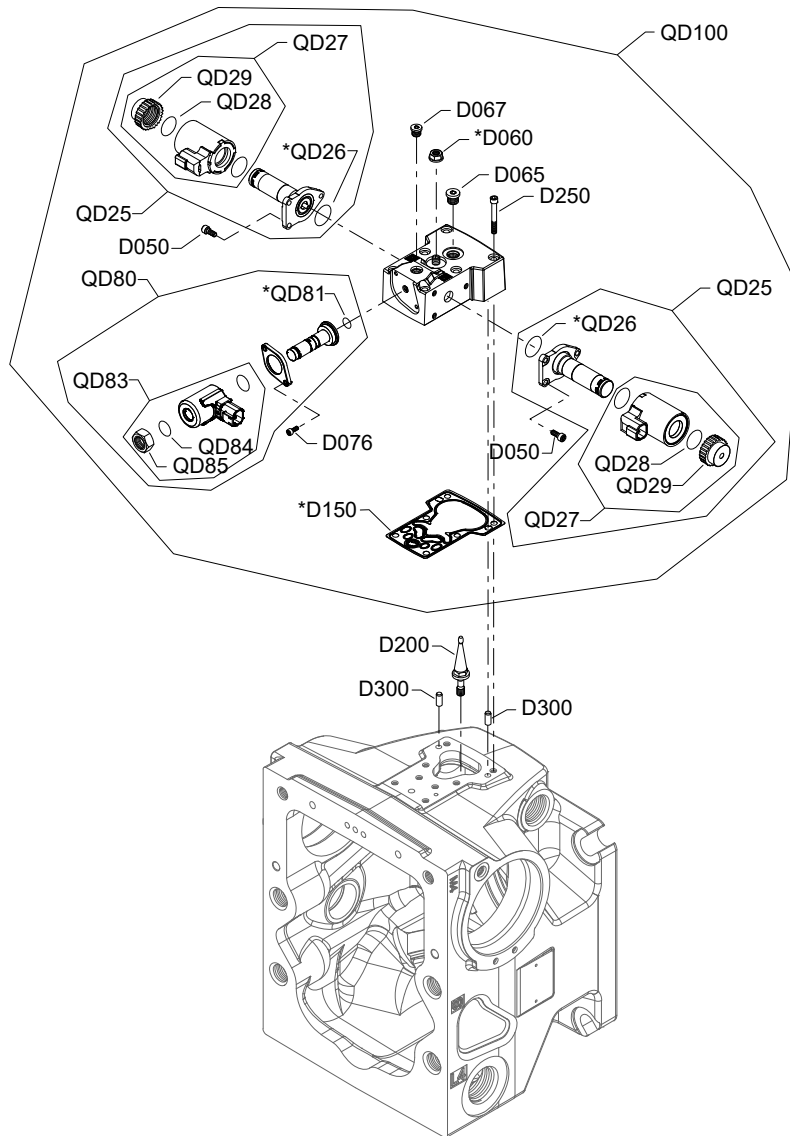
* Included in overhaul seal kit Q210

Order code: E5

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
D050	14-25		716860	Screw M5 x 12	6
D060	14-25		612291	Seal nut	1
D065	14-25		9005110-4400	Plug assembly	2
D067	14-25		9005110-4400	Plug assembly	1
D076	14-25		067694	Screw, M4 x 10	2
D150	14-25		11227209	Control gasket (<i>SB-2016-033</i> on page 190)	1
D200	14-25		11202172	Swashplate feedback link (<i>SB-2018-025</i> on page 193)	1
D250	14-25		505038	Screw	6
D300	14-25		310979	Dowel pin	2
QD25	14-25		11012457	Proportional solenoid, 12V	2
QD26	14-25		11001952	O-ring	2
QD27	14-25		11028018	Coil kit, 12V, DEUTSCH connector	2
QD28	14-25		063172	O-ring	2
QD29	14-25		11027046	Coil nut	2
QD80	14-25		11231200	Solenoid, 12V, DEUTSCH connector	1
QD81	14-25		11152257	O-ring	1
QD83	14-25		11232757	Coil kit, 12V, DEUTSCH connector	1
QD84	14-25		11232752	O-ring	1
QD85	14-25		11140394	Nut	1
QD100	14-25		11147422	EDC kit, 12V, control override	1

H1P control E6, E7

E6 and E7 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	14-25		716860	Screw, M5 x 12	6
D060	14-25		612291 (9003508-0008)	Seal nut, M8	1
D065	14-25		905110-4400	Plug assembly (SAE)	1
D067	14-25		905110-4400	Plug assembly (SAE)	1
D076	14-25		067694	Screw, M4 x 10	2
D150	14-25		11227209	Control gasket (<i>SB-2016-033</i> on page 190)	1
D200	14-25		11202172	Swash plate feedback link (<i>SB-2018-025</i> on page 193)	1
D250	14-25		505038	Screw, M6 x 45	6
D300	14-25		310979	Dowel pin	2
QD26	14-25		11001952	O-ring	2
QD28	14-25		063172	O-ring	2
QD81	14-25		11152257	O-ring	1
QD85	14-25		11140394	Coil nut	1

Order code: E6

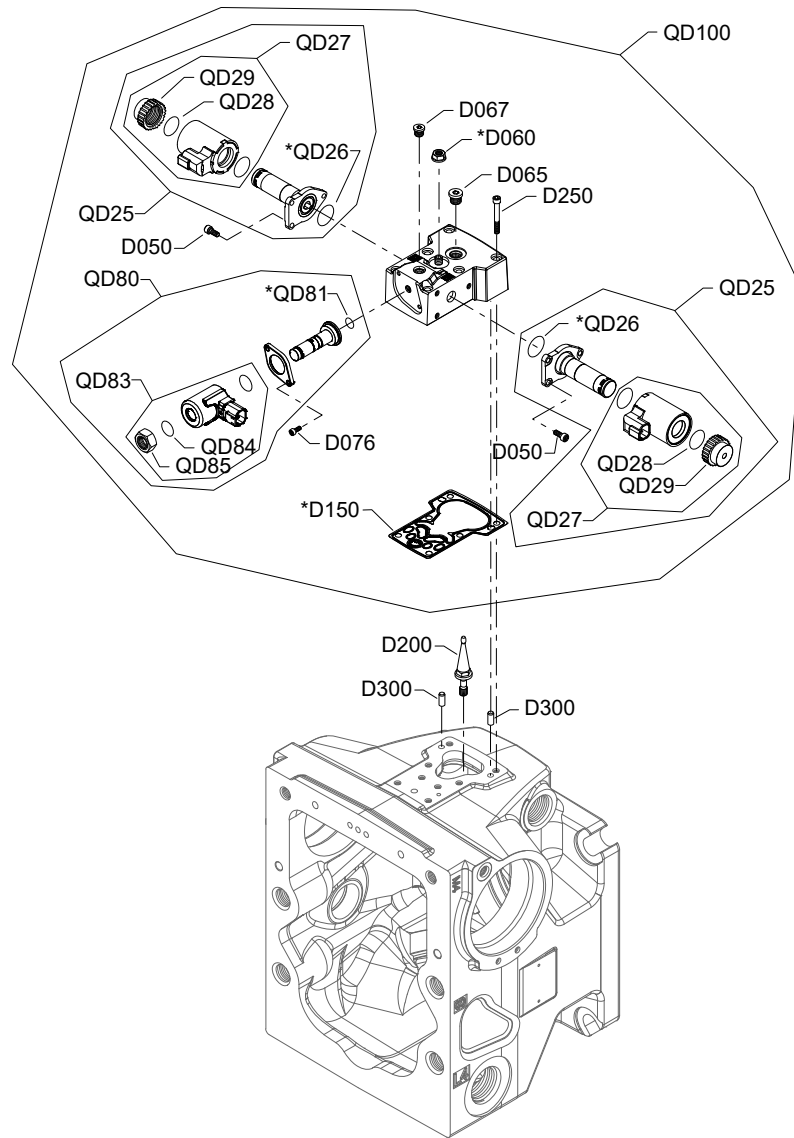
QD25	14-25		11012459	Proportional solenoid, 24v	2
QD27	14-25		11028019	Coil kit, 24v, DEUTSCH connector	2
QD29	14-25		11028024	Coil nut	2
QD80	14-25		11231201	Solenoid valve, on/off, 24v	1
QD83	14-25		11232697	Coil kit, 24v	1
QD84	14-25		11232752	O-ring	1
QD100	14-25		11147423	EDC kit, 24v, CCO	1

Order code: E7

QD25	14-25		11012457	Proportional solenoid, 12v	2
QD27	14-25		11028018	Coil kit, 12v, DEUTSCH connector	2
QD29	14-25		11027046	Coil nut	2
QD80	14-25		11231200	Solenoid valve, on/off, 12v	1
QD83	14-25		11232757	Coil kit, 12v	1
QD84	14-25		11232752	O-ring	1
QD100	14-25		11147471	EDC kit, 12v, CCO (SAE)	1

H1P control E8

Parts configuration



Note

Generic housing shown.

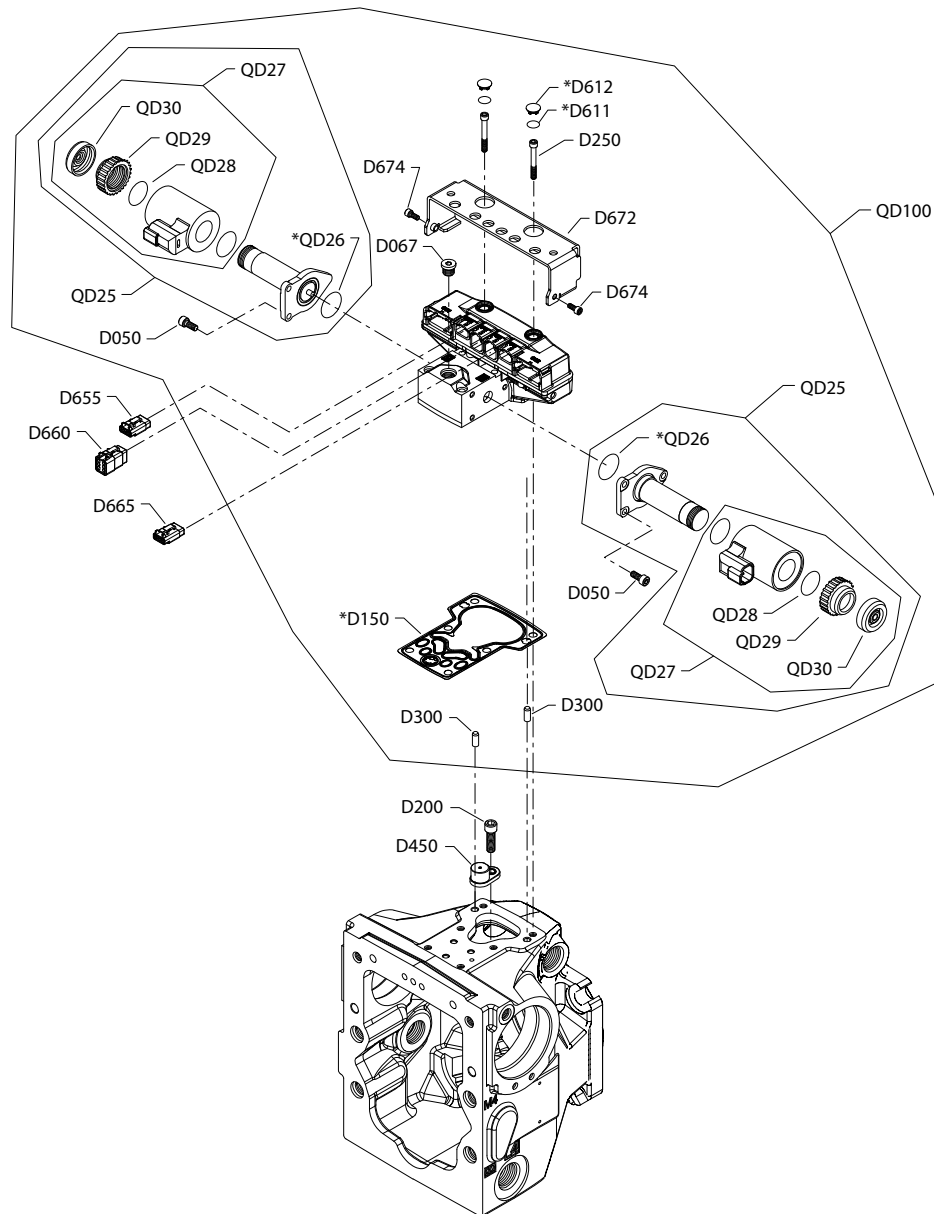
* Included in overhaul seal kit Q210

Order code: E8

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
D050	14-25		716860	Screw, M5 x 12	6
D060	14-25		612291 (9003508-0008)	Seal nut, M8	1
D065	14-25		905110-4400	Plug assembly	1
D067	14-25		905110-4400	Plug assembly	1
D076	14-25		067694	Screw, M4 x 10	2
D150	14-25		11227209	Control gasket (<i>SB-2016-033</i> on page 190)	1
D200	14-25		11202172	Swashplate feedback link (<i>SB-2018-025</i> on page 193)	1
D250	14-25		505038	Screw, M6 x 45	6
D300	14-25		310979	Dowel pin	2
QD25	14-25		11012459	Proportional solenoid, 24v	2
QD26	14-25		11001952	O-ring	2
QD27	14-25		11028019	Coil kit, 24v, DEUTSCH connector	2
QD28	14-25		063172	O-ring	2
QD29	14-25		11028024	Coil nut	2
QD80	14-25		11231201	Solenoid vale, on/off, 24v	1
QD81	14-25		11152257	O-ring	1
QD83	14-25		11232697	Coil kit, 24v	1
QD84	14-25		11232752	O-ring	1
QD85	14-25		11140394	Coil nut	1
QD100	14-25		11147472	EDC kit, 24v, CCO	1

H1P control E9

Parts configuration



Note

Generic housing shown.

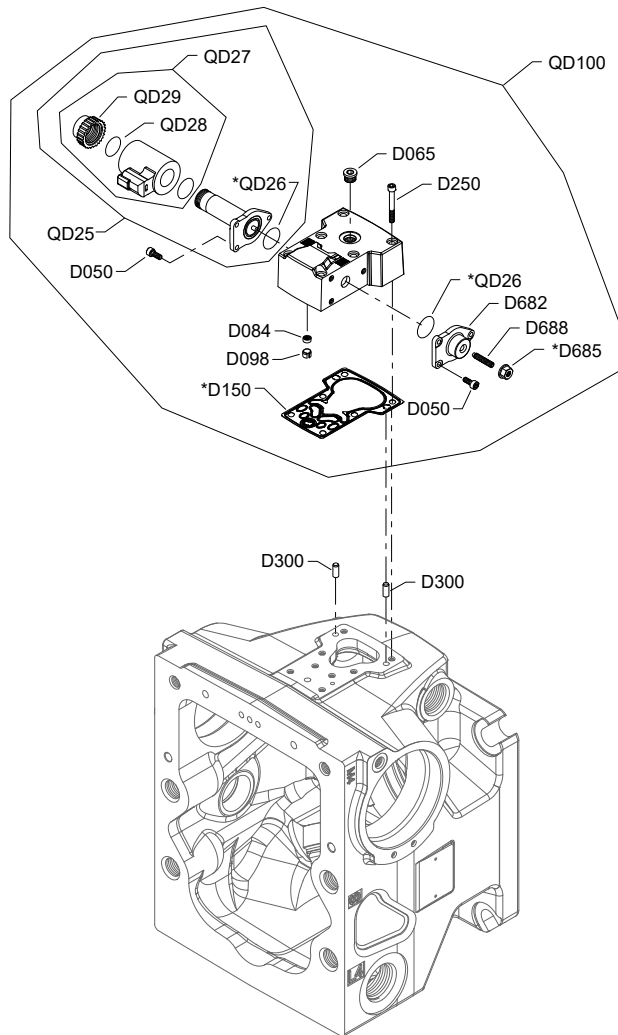
* Included in overhaul seal kit Q210

Order code: E9

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
D050	10-04		716860	Screw, M5 x 12	6
D055	10-04		11040532	Plug assembly	2
D067	10-04		9005110-4400	Plug assembly	1
D150	10-04		11227209	Control gasket (SB-2016-033 on page 190)	1
D200	10-04		141472	Screw, special	1
D250	10-04		505038	Screw, M6 x 45	6
D300	10-04		11036469	Dowel pin	2
D450	10-04		11003097	Magnet carrier	1
D611	10-04		11066774	O-ring (SB-2021-014 on page 195)	2
D611	21-13		11225703	O-ring	2
D612	10-04		11003126	Plug (SB-2021-014 on page 195)	2
D612	21-13		11223708	Plug	2
D655	10-04		11084827	Connector DTM 06-3S	1
D660	10-04		11084822	Connector DTM 06-6S	1
D665	10-04		11084827	Connector DTM 06-3S	1
D672	10-04		11151875	Protection	1
D674	10-04		716860	Screw, M5 x 12	2
QD25	10-04		140750	Proportional solenoid, 12 volt	2
QD26	10-04		11001952	O-ring	2
QD27	10-04		11004698	Coil kit, 12v, DEUTSCH connector	2
QD28	10-04		063172	O-ring	2
QD29	10-04		11319330	Coil nut	2
QD30	10-04		11027883	Cap	2
QD100	10-04		11232766	Automotive control kit, 12v, manual override	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	12-33		716860	Screw, M5 x 12	6
D065	12-33		9005110-4400	Plug assembly	1
D150	12-33		11227209	Control gasket (<i>SB-2016-033</i> on page 190)	1
D250	12-33		505038	Screw, M6 x 45	6
D300	12-33		310979	Dowel pin	2
D682	12-33		11079441	Flange	1
D685	12-33		612291 (9003508-0008)	Seal nut, M8	1
D688	12-33		11079453	Adjusting screw	1
QD26	12-33		11001952	O-ring	2
QD28	12-33		063172	O-ring	1

Order code: F1

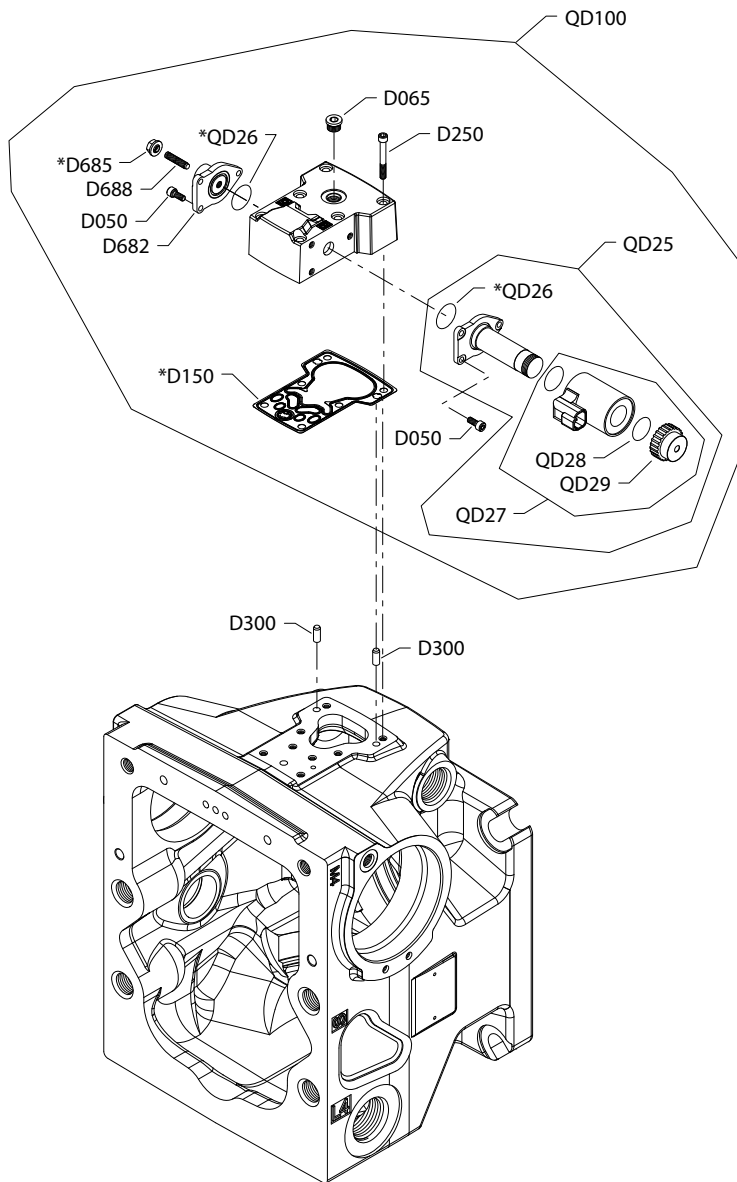
QD25	12-33		11012457	Proportional solenoid, 12v	1
QD27	12-33		11028018	Coil kit, 12v, DEUTSCH connector	1
QD29	12-33		11027046	Coil nut	1
QD100	12-33		11081306	FDC kit, 12v, DEUTSCH connector	1

Order code: F2

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

H1P control F4

F4 configuration



Note

Generic housing shown.

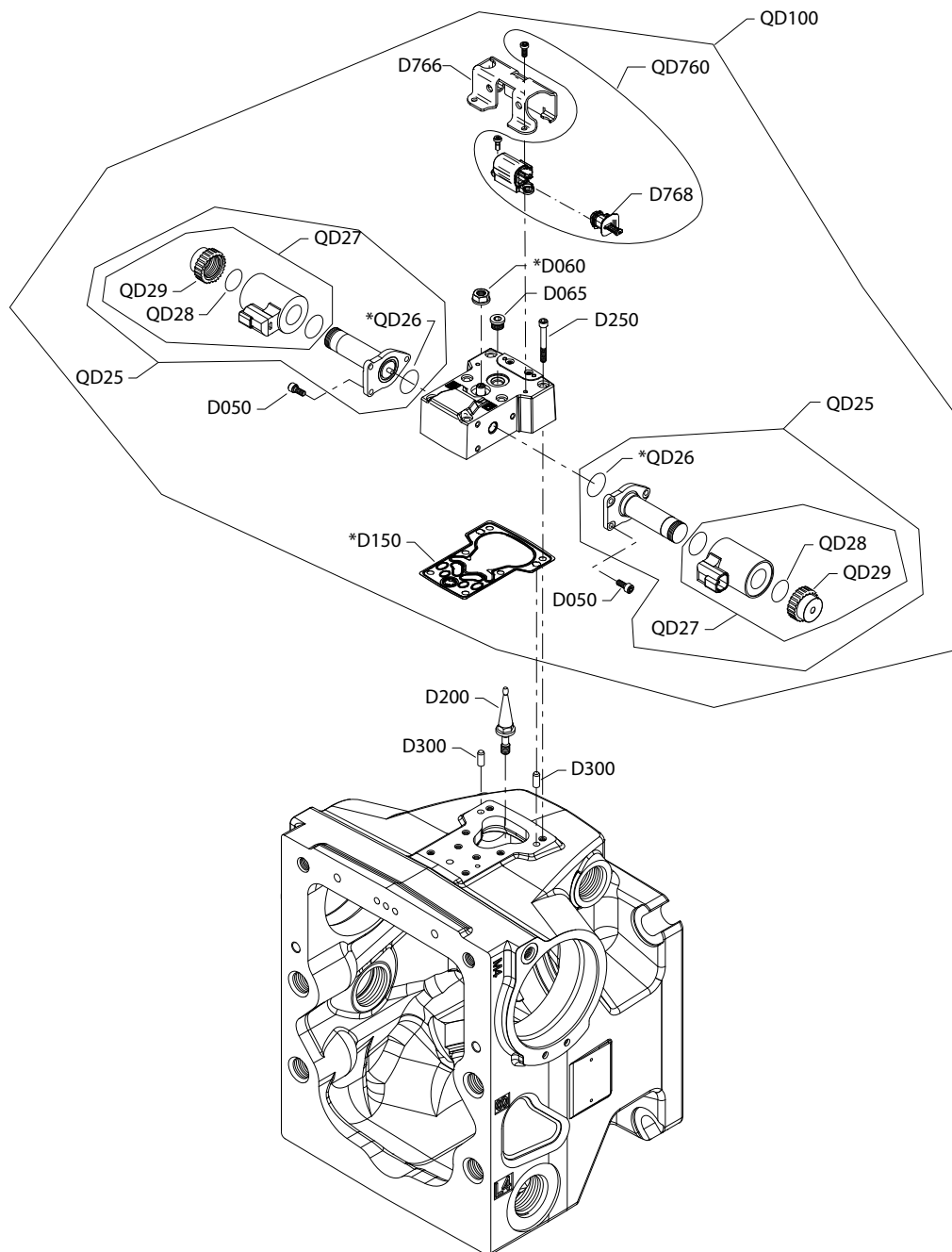
* Included in overhaul seal kit

Order code: F4

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
D050			716860	Screw, M5 x 12	6
D065			9005110-4400	Plug assembly	1
D150			11227209	Control gasket (<i>SB-2016-033</i> on page 190)	1
D250			505038	Screw, M6 x 45	6
D300			310979	Dowel pin	2
D682			11079441	Flange	1
D685			612291 (9003508-0008)	Seal nut, M8	1
D688			11079453	Adjusting screw	1
QD25			11012459	Proportional solenoid, 24v	1
QD26			11001952	O-ring	2
QD27			11028019	Coil kit, 24v, DEUTSCH connector	1
QD28			063172	O-ring	1
QD29			11028024	Coil nut	1
QD100			11174982	FDC kit, 24v, DEUTSCH connector	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

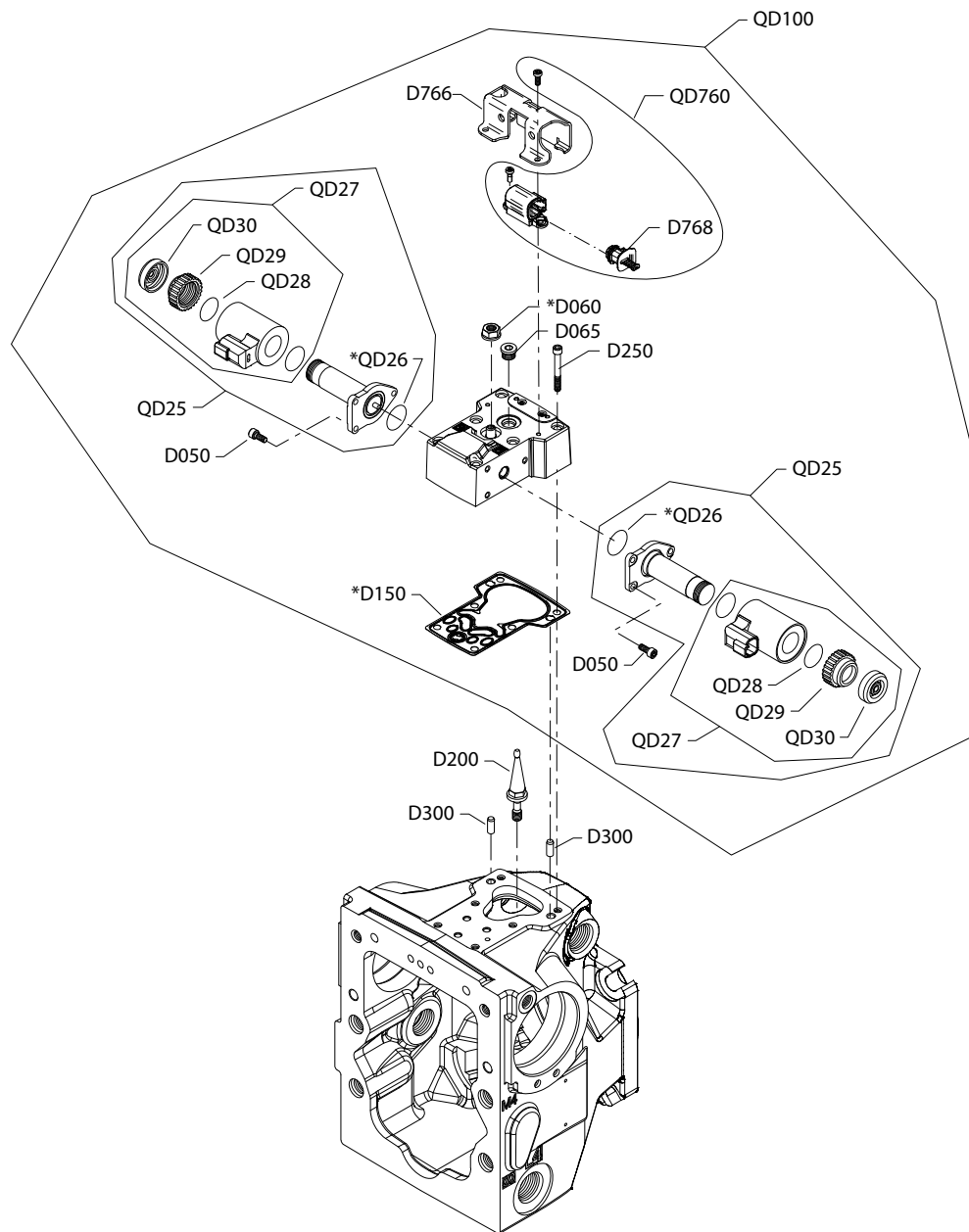
QD100	18-11		11196619	EDC kit, 12v, ASNSR	1
QD25	18-11		11012457	Proportional solenoid, 12v	2
QD27	18-11		11028018	Coil kit, 12V, DEUTSCH connector	2
QD29	18-11		11027046	Nut	2

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

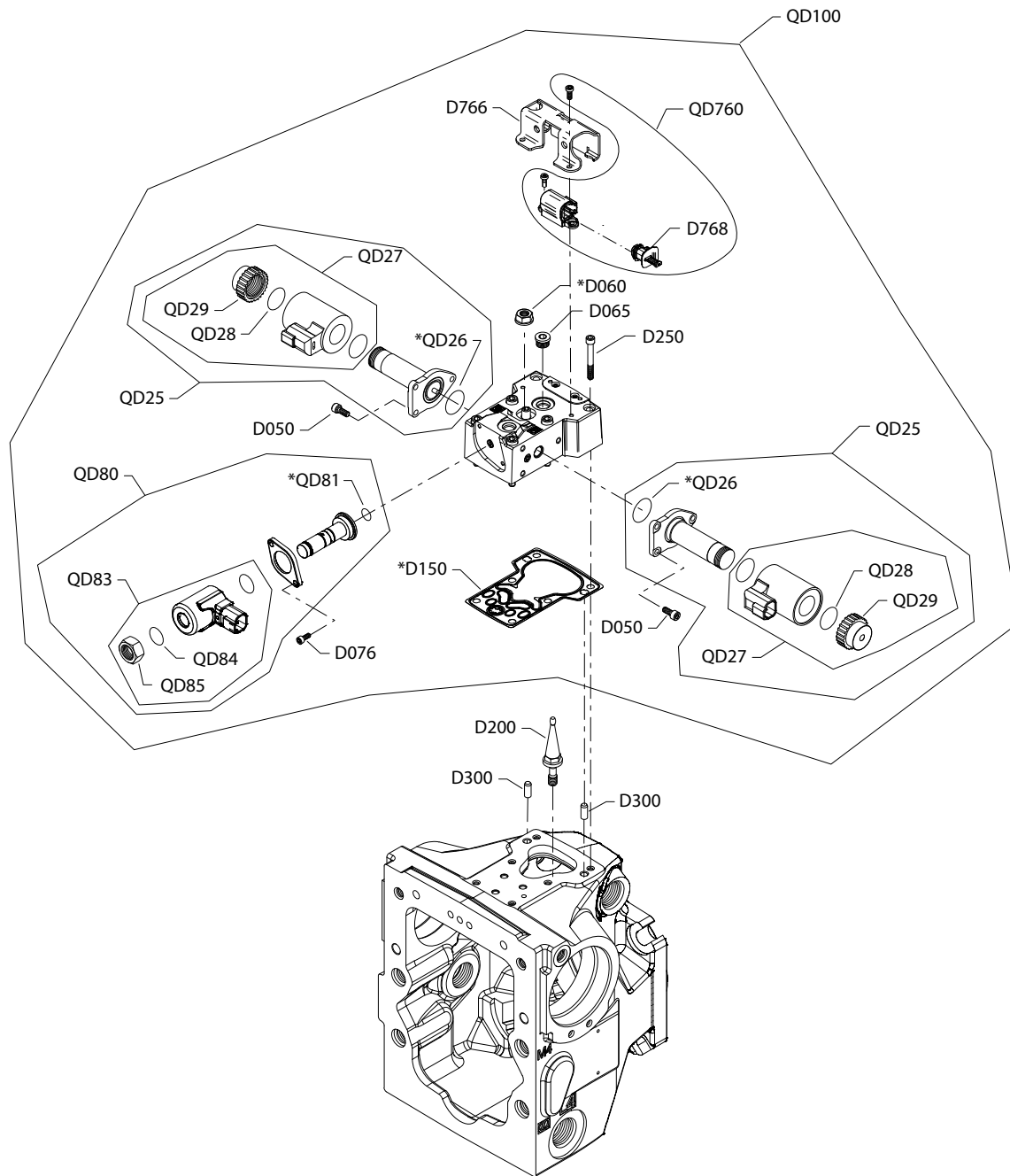
QD100	18-13		11179281	EDC kit, 12V	1
QD25	18-13		140750	Proportional solenoid, 12V	2
QD27	18-13		11004698	Coil kit, 12V, DEUTSCH connector	2
QD29	18-13		11319330	Coil nut	2

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

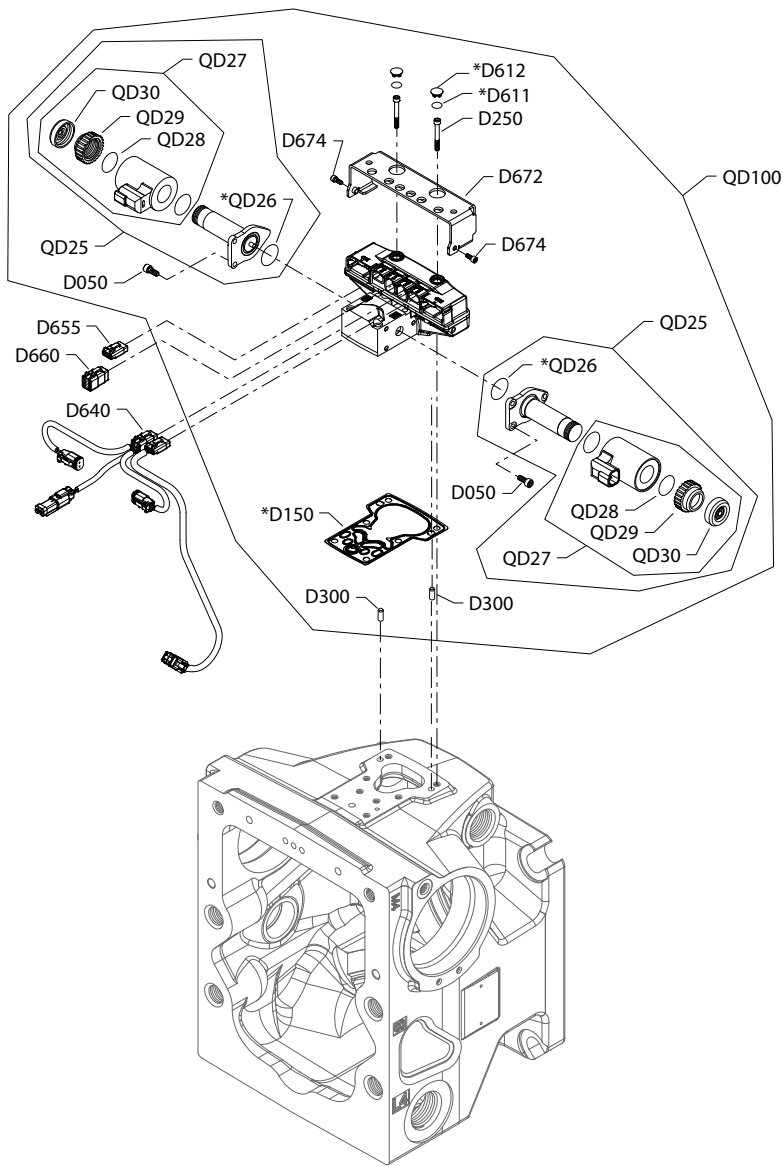
Order code: H8

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 J1, J2



 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	16-29		716860	Screw, M5x12	6
D150	16-29		27209	Control gasket	1
D250	16-29		505038	Screw, M6x45	6
D300	16-29		11036469	Dowel pin	2
D612	16-29	21-12	11000467	Plug (<i>SB-2021-014</i> on page 195)	2
D612	21-13		11223708	Plug	2
D611	16-29	21-12	11066774	O-ring (<i>SB-2021-014</i> on page 195)	2
D611	21-13		11225703	O-ring	2
D640	16-29		11023348	AC wiring harness	1
D655	16-29		11084827	Connector DTM06-3S	1
D660	16-29		11084822	Connector DTM06-6S	1
D672	16-29		11151875	Protection	1
D674	16-29		716860	Screw, M5x12	2
QD26	16-29		11001952	O-ring	2
QD28	16-29		063172	O-ring	2
QD30	16-29		11027883	Cap	2

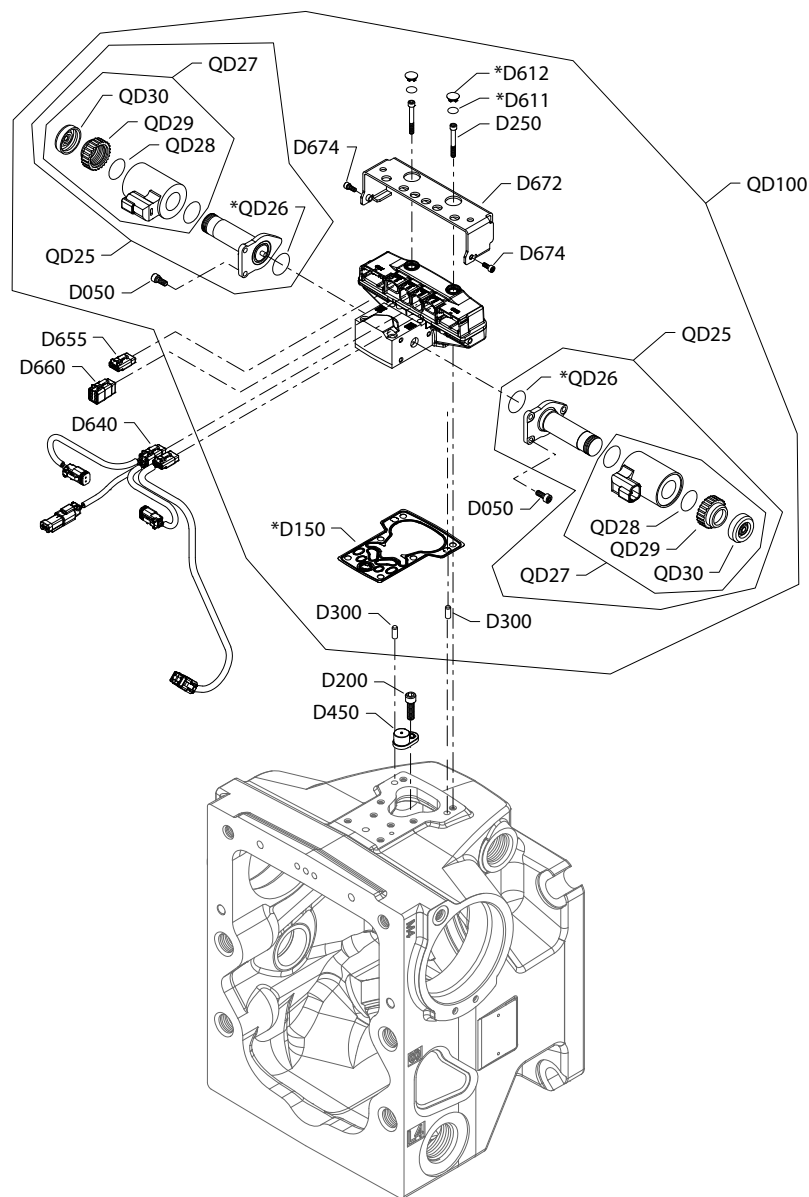
Order code: J1

QD100	16-29		11232792	Automotive control kit, 12V, manual override (<i>SB-2021-014</i> on page 195)	1
QD25	16-29		140750	Proportional solenoid, 12V	2
QD27	16-29		11004698	Coil kit, 12V, DEUTSCH connector	2
QD29	16-29		11319330	Coil nut	2

Order code: J2

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

H1P control J3, J4



 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	16-29		716860	Screw, M5x12	6
D150	16-29		11227209	Control gasket	1
D200	16-29		141472	Screw, M8x1x30	1
D250	16-29		505038	Screw, M6x45	6
D300	16-29		11036469	Dowel pin	2
D450	16-29		11003097	Magnet carrier	1
D611	16-29	21-12	11066774	O-ring (SB-2021-014 on page 195)	2
D611	21-13		11225703	O-ring	2
D612	16-29	21-12	11003126	Plug (SB-2021-014 on page 195)	2
D612	21-13		11223708	Plug	2
D640	16-29		11023348	AC wiring harness	1
D655	16-29		11084827	Connector DTM06-3S	1
D660	16-29		11084822	Connector DTM06-6S	1
D672	16-29		11151875	Protection	1
D674	16-29		716860	Screw, M5x12	2
QD26	16-29		11001952	O-ring	2
QD28	16-29		063172	O-ring	2
QD30	16-29		11027883	Cap	2

Order code: J3

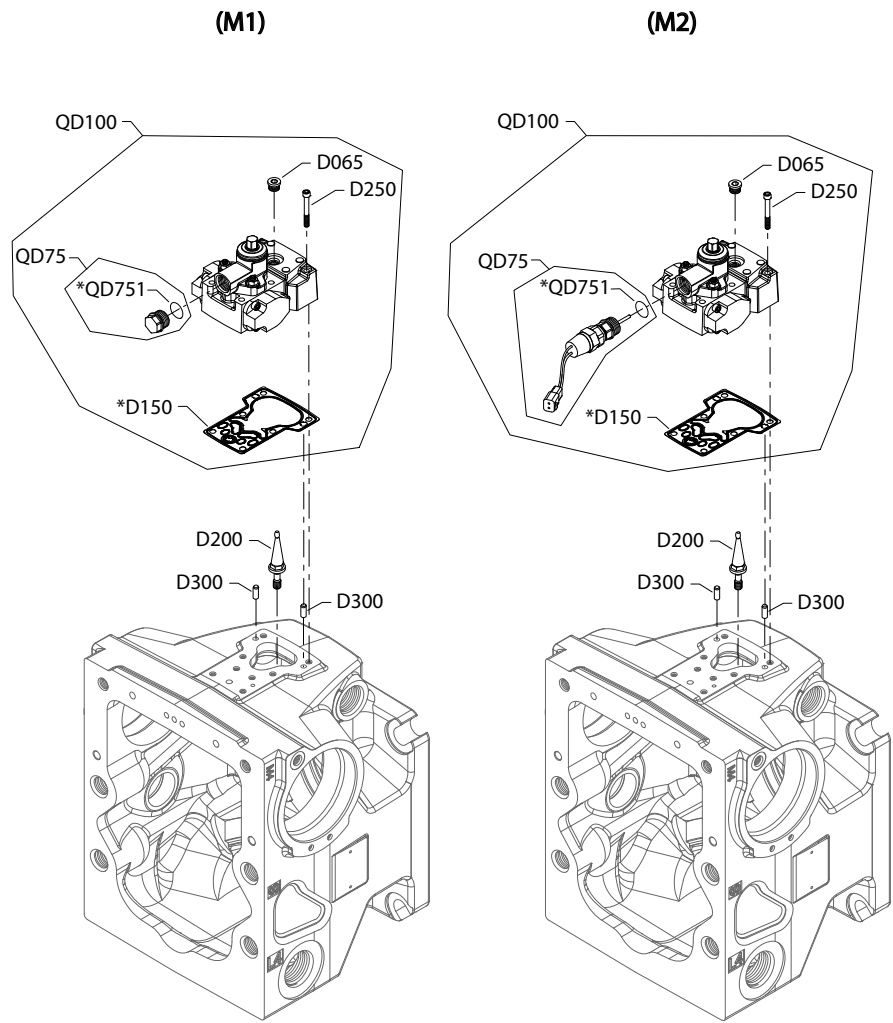
QD100	16-29		11232794	Automotive control kit, 12V, manual override	1
QD25	16-29		140750	Proportional solenoid, 12V	2
QD27	16-29		11004698	Coil kit, 12v, DEUTSCH connector	2
QD29	16-29		11319330	Coil nut	2

Order code: J4

QD100	16-29		11232795	Automotive control kit, 24v, manual override	1
QD25	16-29		140751	Proportional solenoid, 24V	2
QD27	16-29		11004700	Coil kit, 24v, DEUTSCH connector	2
QD29	16-29		11319361	Coil nut	2

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 190)	1
D200	14-01		11202172	Swashplate feedback link (<i>SB-2018-025</i> on page 193)	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

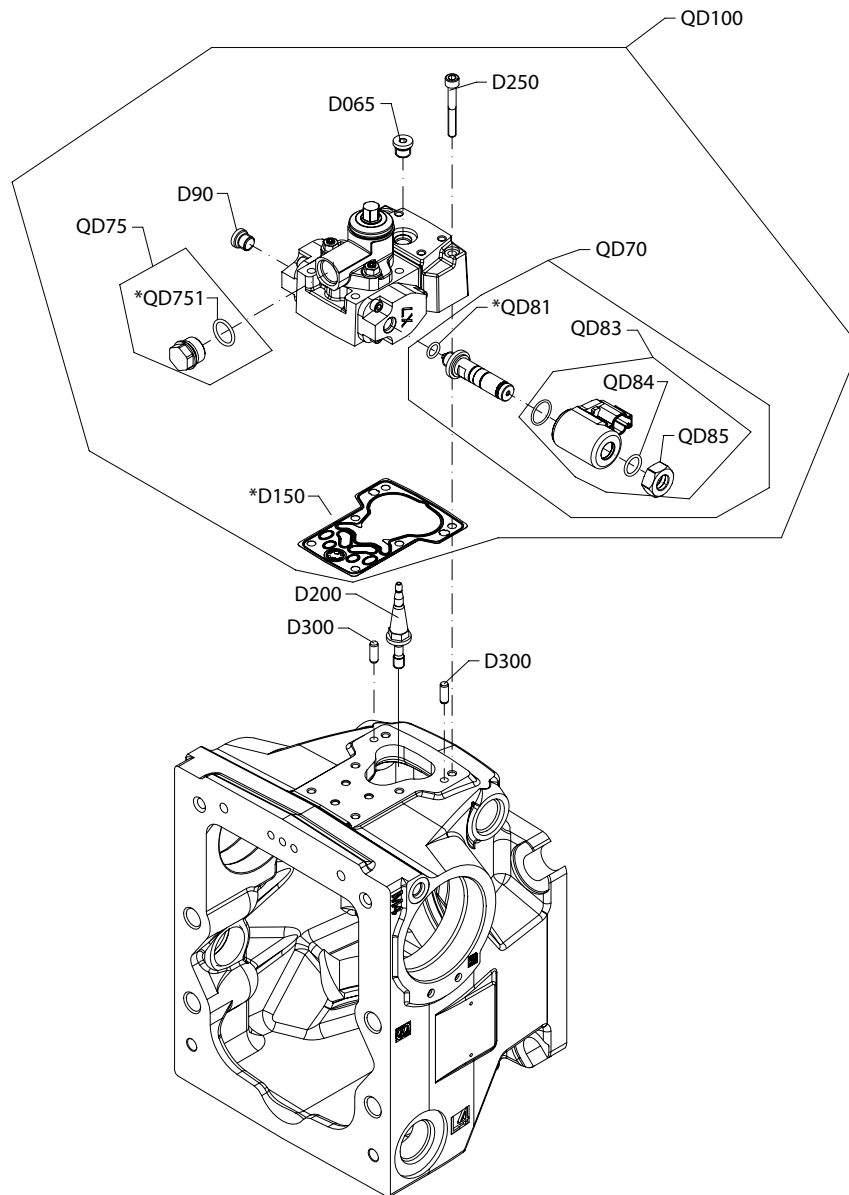
QD75	14-01		11119332	Spring seat assembly	1
QD100	14-01		11141225	MDC kit	1

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 190)	1
D200	14-01		11202172	Swashplate feedback link (<i>SB-2018-025</i> on page 193)	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 201)	1
QD85	14-01		11140394	Coil nut	1
QD751	14-01		001131 (9004201-5000)	O-ring	1

Order code: M3

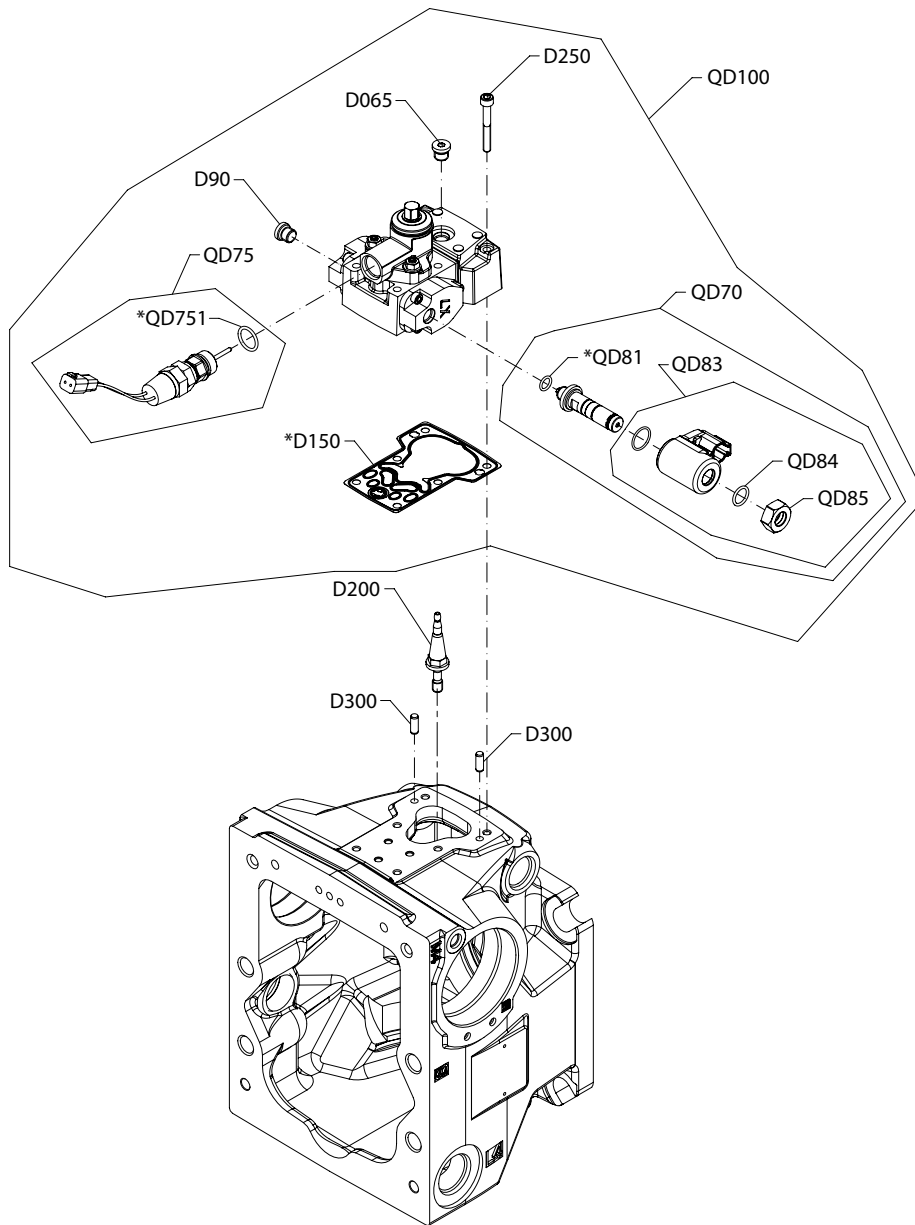
QD70	14-01		11231212	Solenoid valve, 12v (<i>SB-2024-007</i> on page 201)	1
QD83	24-01		11253939	Coil kit, 12v (<i>SB-2024-007</i> on page 201)	1
QD100	14-01		11218976	MDC kit, 12v, CCO	1

Order code: M4

QD70	14-01		11231213	Solenoid valve, 24v (<i>SB-2024-007</i> on page 201)	1
QD83	24-01		11253938	Coil kit, 24v, CCO (<i>SB-2024-007</i> on page 201)	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 190)	1
D200	14-01		11202172	Swashplate feedback link (<i>SB-2018-025</i> on page 193)	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 201)	1
QD85	14-01		11140394	Coil nut	1
QD751	14-01		001131 (9004201-5000)	O-ring	1

Order code: M5

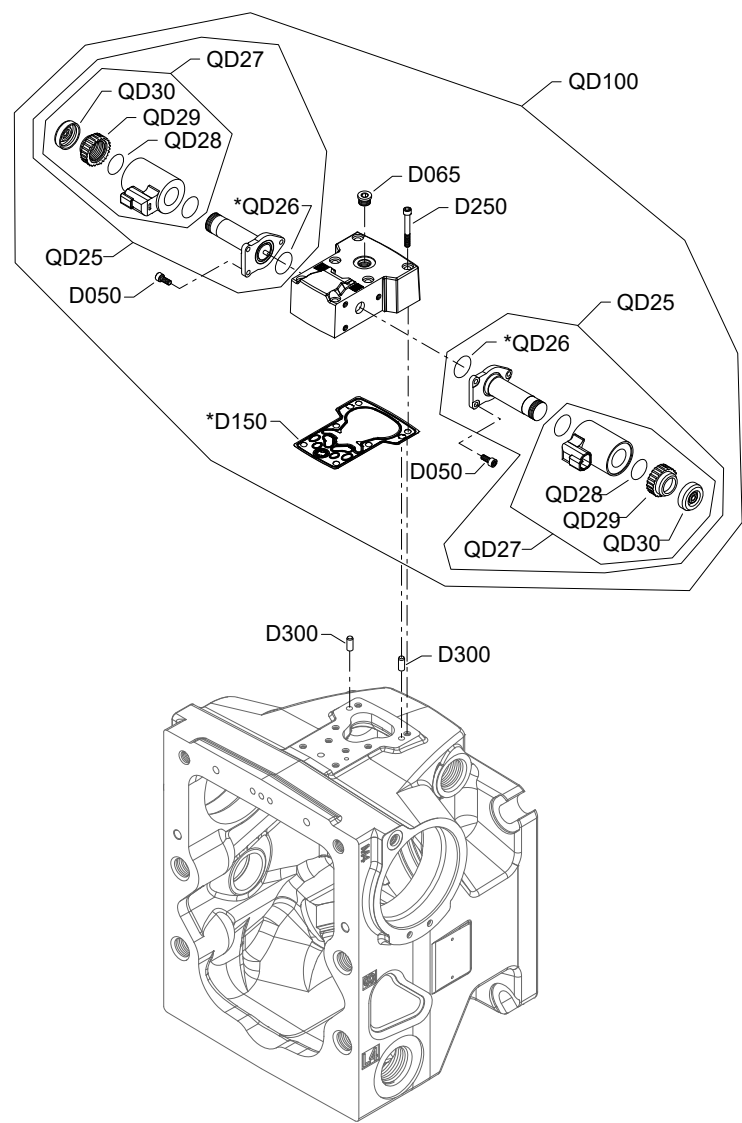
QD70	14-01		11231212	Solenoid valve, 12v (<i>SB-2024-007</i> on page 201)	1
QD83	24-01		11253939	Coil kit, 12v (<i>SB-2024-007</i> on page 201)	1
QD100	14-01		11218978	MDC kit, 12v, neutral start switch assembly, CCO	1

Order code: M6

QD70	14-01		11231213	Solenoid valve, 24v (<i>SB-2024-007</i> on page 201)	1
QD83	24-01		11253938	Coil kit, 24v (<i>SB-2024-007</i> on page 201)	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

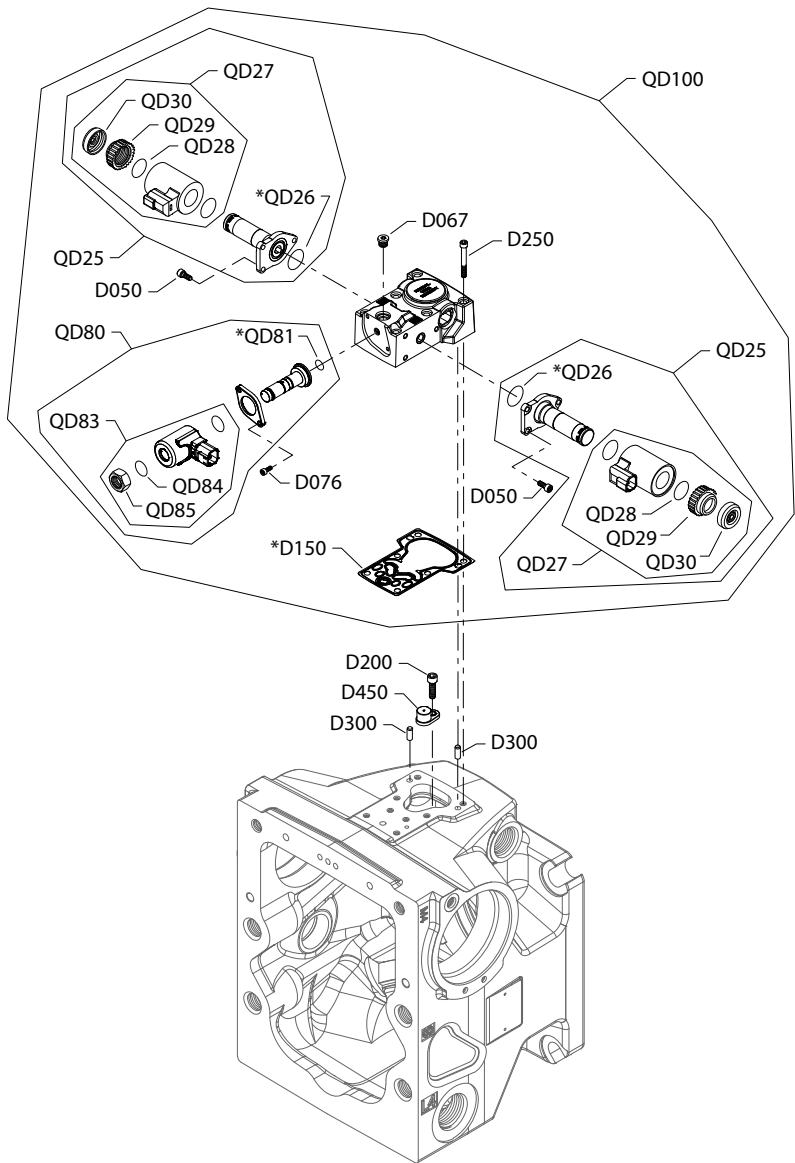
QD25	16-30		140750	Proportional solenoid, 12v, DEUTSCH connector	2
QD27	16-30		11004698	Coil kit, 12v, DEUTSCH connector	2
QD29	16-30		11319330	Coil nut	2
QD100	16-30		11147921	NFPE control kit, 12v, manual override, DEUTSCH connector	1

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

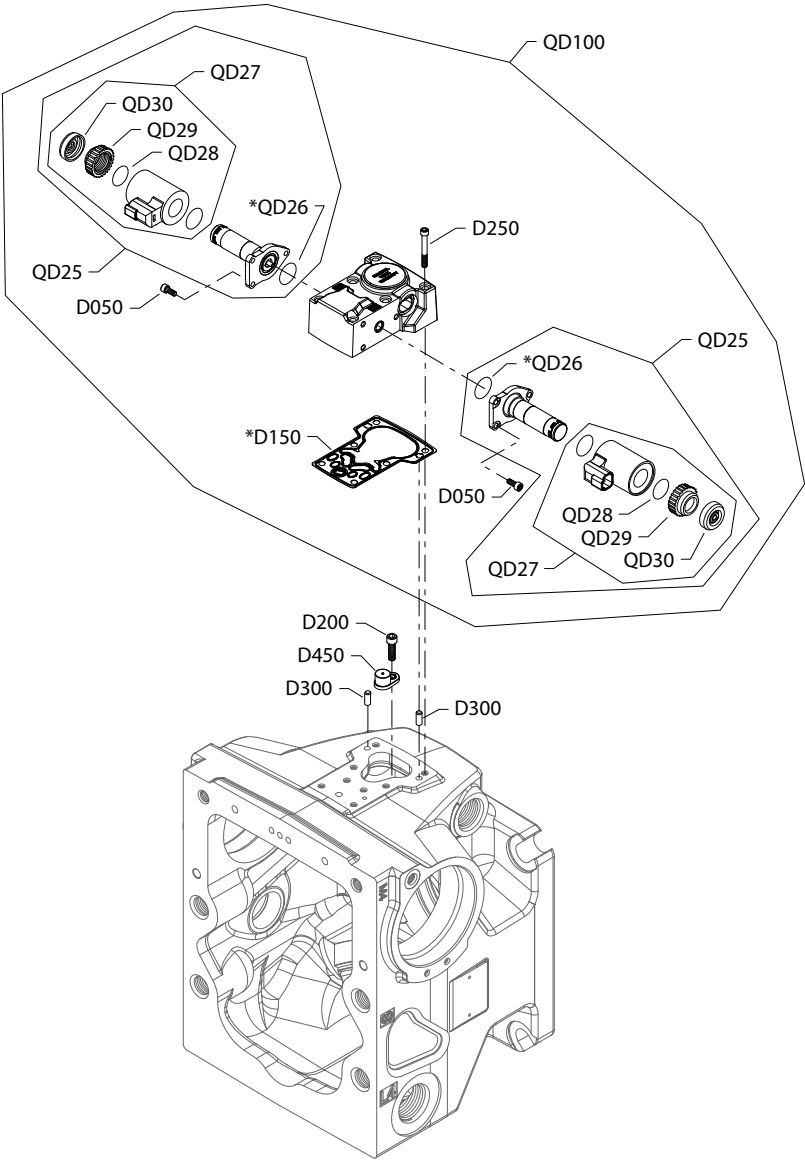
QD25	16-30		140750	Proportional solenoid, 12v	2
QD27	16-30		11004698	Coil kit, 12v, DEUTSCH connector	2
QD29	16-30		11319330	Coil nut	2
QD80	16-30		11231200	Solenoid, 12v, DEUTSCH connector	1
QD83	16-30		11232757	Coil kit, 12v, DEUTSCH connector	1
QD84	16-30		11232752	O-ring	1
QD100	16-30		11147920	NFPE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

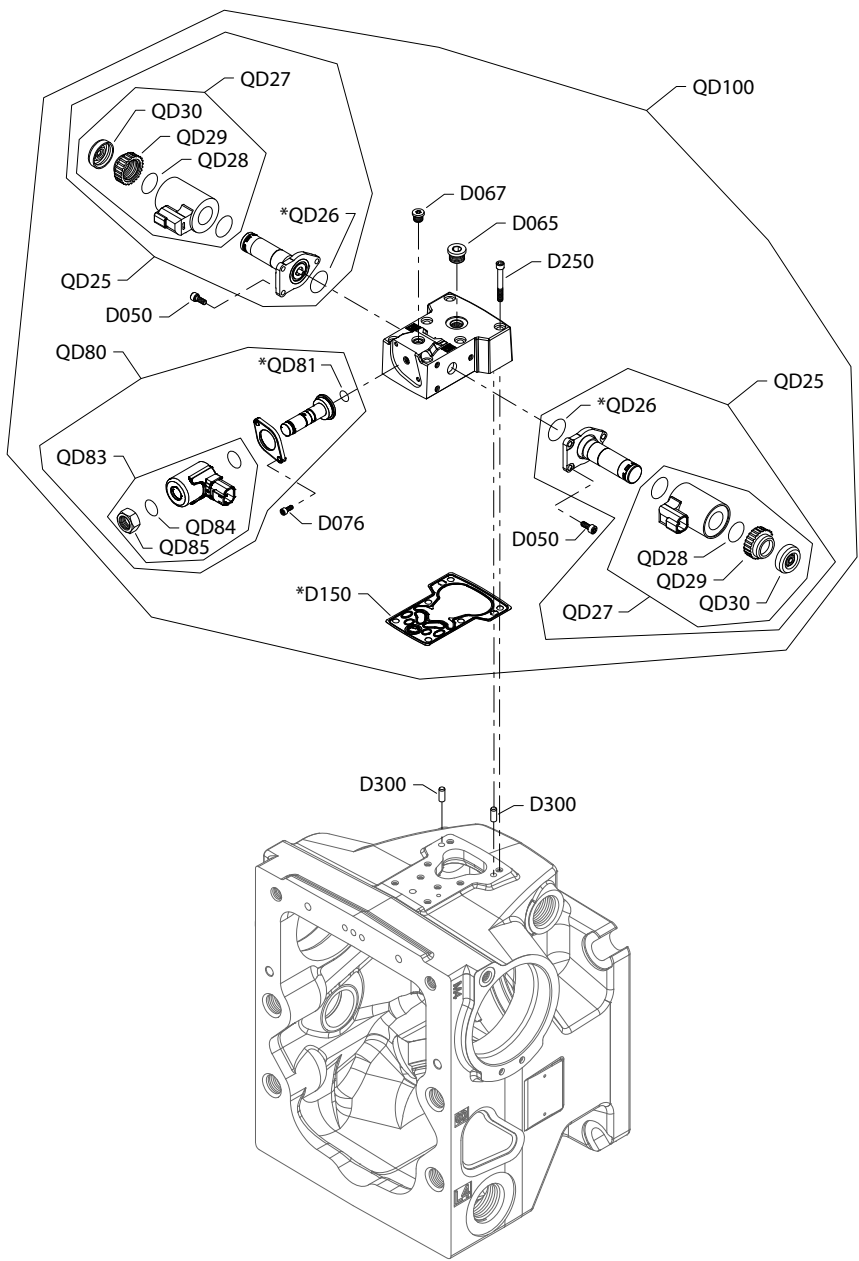
QD25	16-30		140750	Proportional solenoid, 12v	2
QD27	16-30		11004698	Coil kit, 12v, DEUTSCH connector	2
QD29	16-30		11319330	Coil nut	2
QD100	16-30		11147918	NFPE control kit, 12v, manual override	1

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

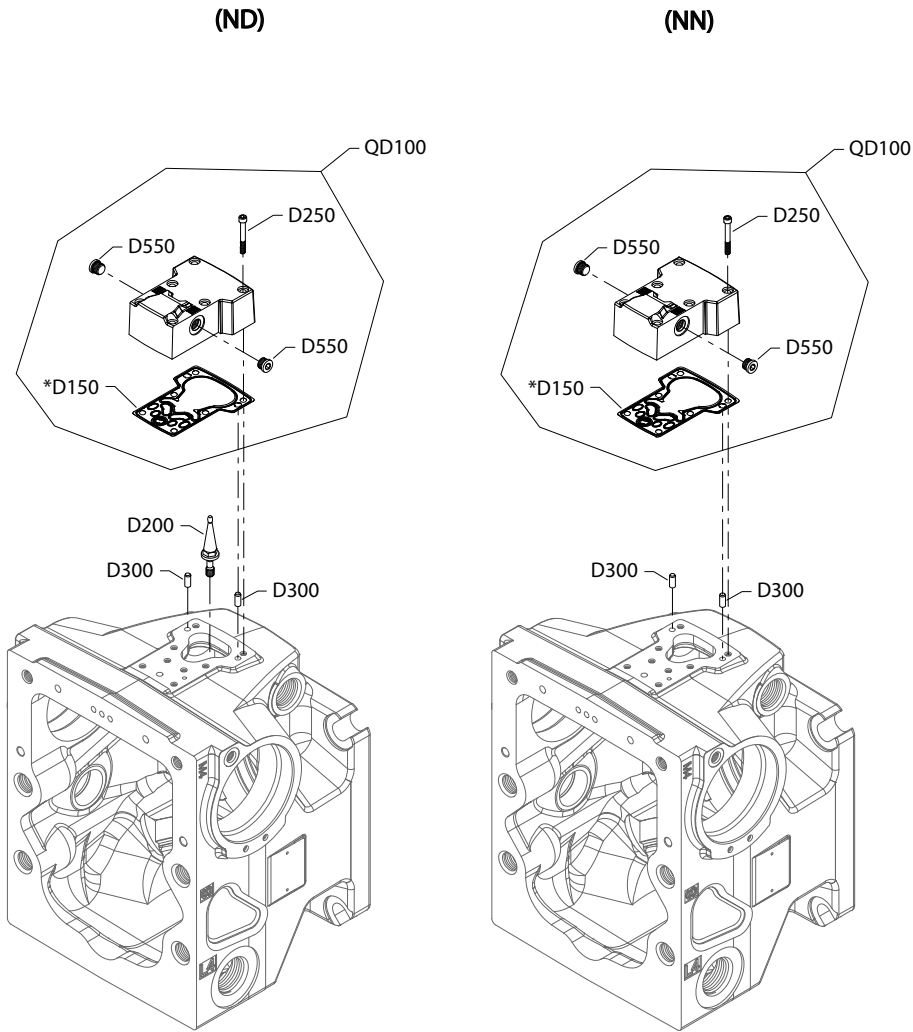
QD25	16-30		140750	Proportional solenoid, 12v	2
QD27	16-30		11004698	Coil kit, 12v, DEUTSCH connector	2
QD29	16-30		11319330	Coil nut	2
QD80	16-30		11231200	Solenoid, 12v, DEUTSCH connector	1
QD83	16-30		11232757	Coil kit, 12v, DEUTSCH connector	1
QD84	16-30		11232752	O-ring	1
QD100	16-30		11147919	NFPE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

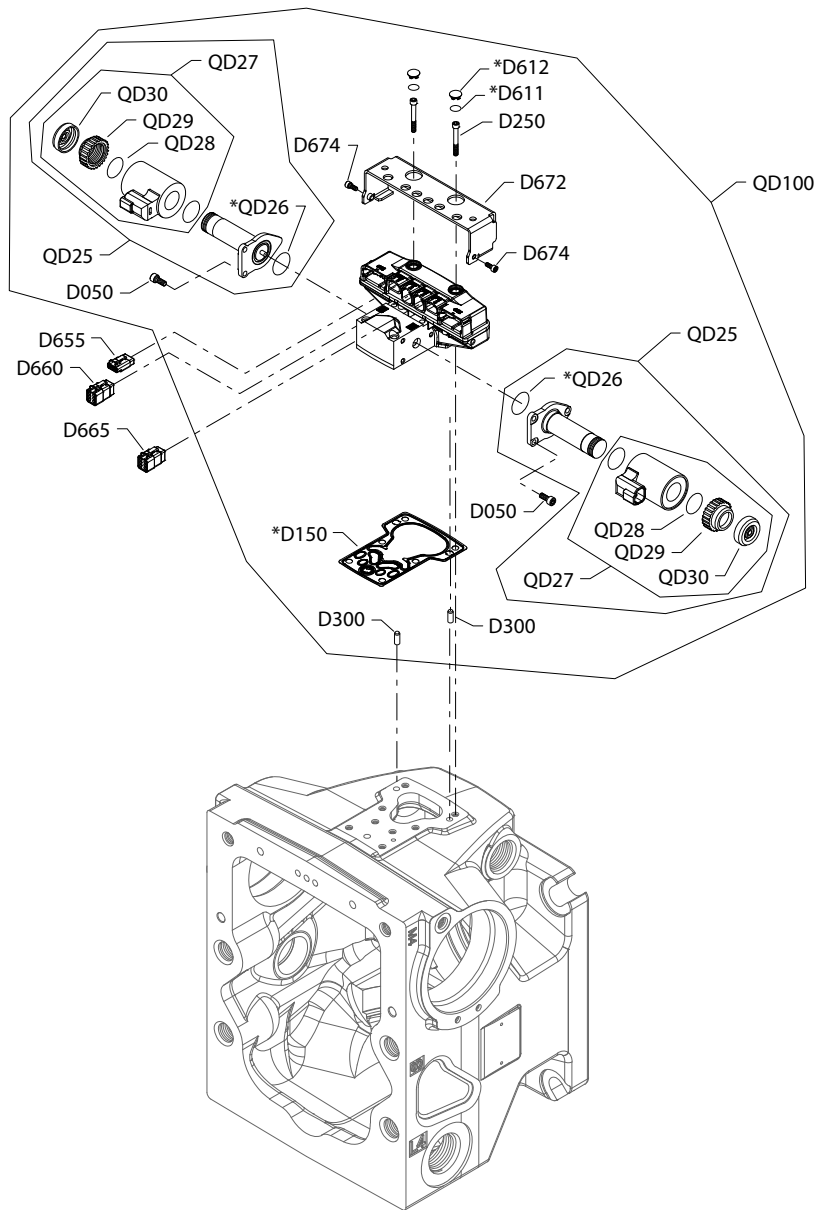
Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
D150	16-02		11227209	Control gasket	1
D200	16-02		11202172	Swashplate feedback link	1
D250	16-02		505038	Screw, M6 x 45	6
D300	16-02		310979	Dowel pin	2
D550	16-02		140644	Plug assembly	2
QD100	16-02		11121984	Control cover kit	1

Order code: NN

D150	14-01		11227209	Control gasket (<i>SB-2016-033</i> on page 190)	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

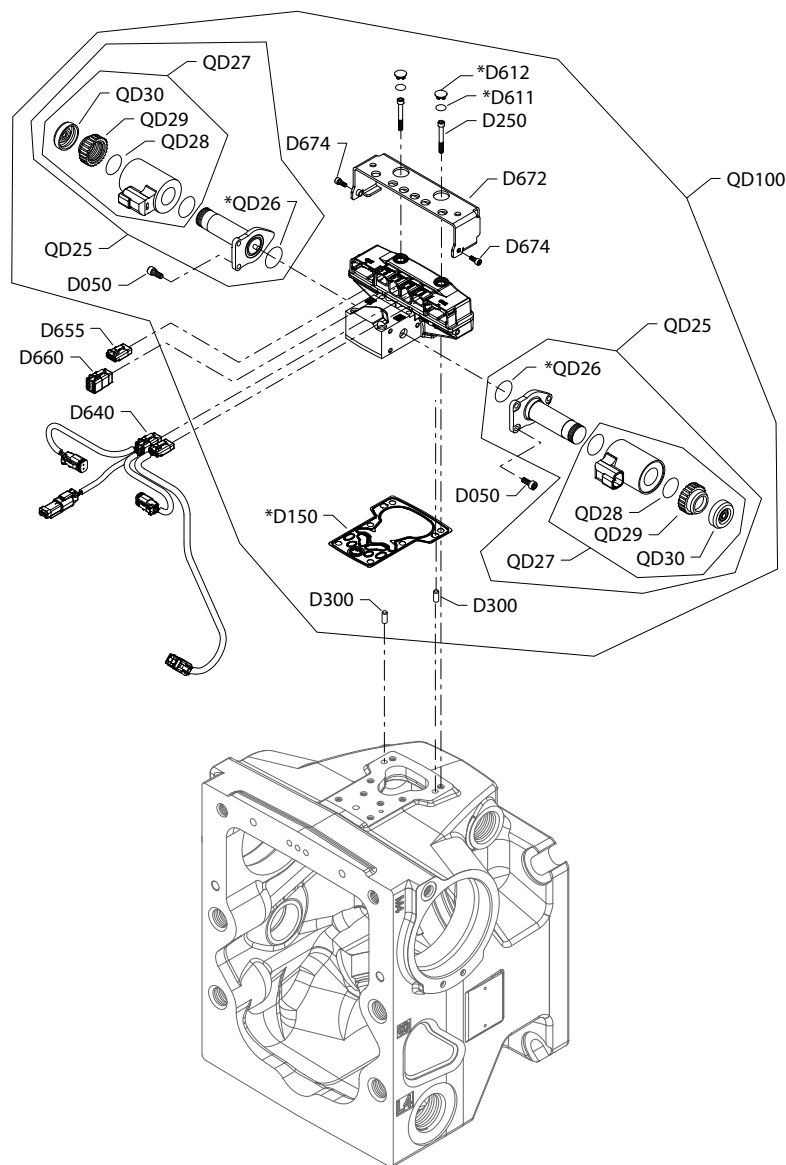
* Included in overhaul kit Q210

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 (SB-2021-014 on page 195)	2
D611	21-13		11225703	O-ring	2
D612	17-15	21-12	11003126	Plug (SB-2021-014 on page 195)	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 (SB-2021-014 on page 195)	2
D611	21-13		11225703	O-ring	2
D612	16-30	21-12	11003126	Plug (SB-2021-014 on page 195)	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

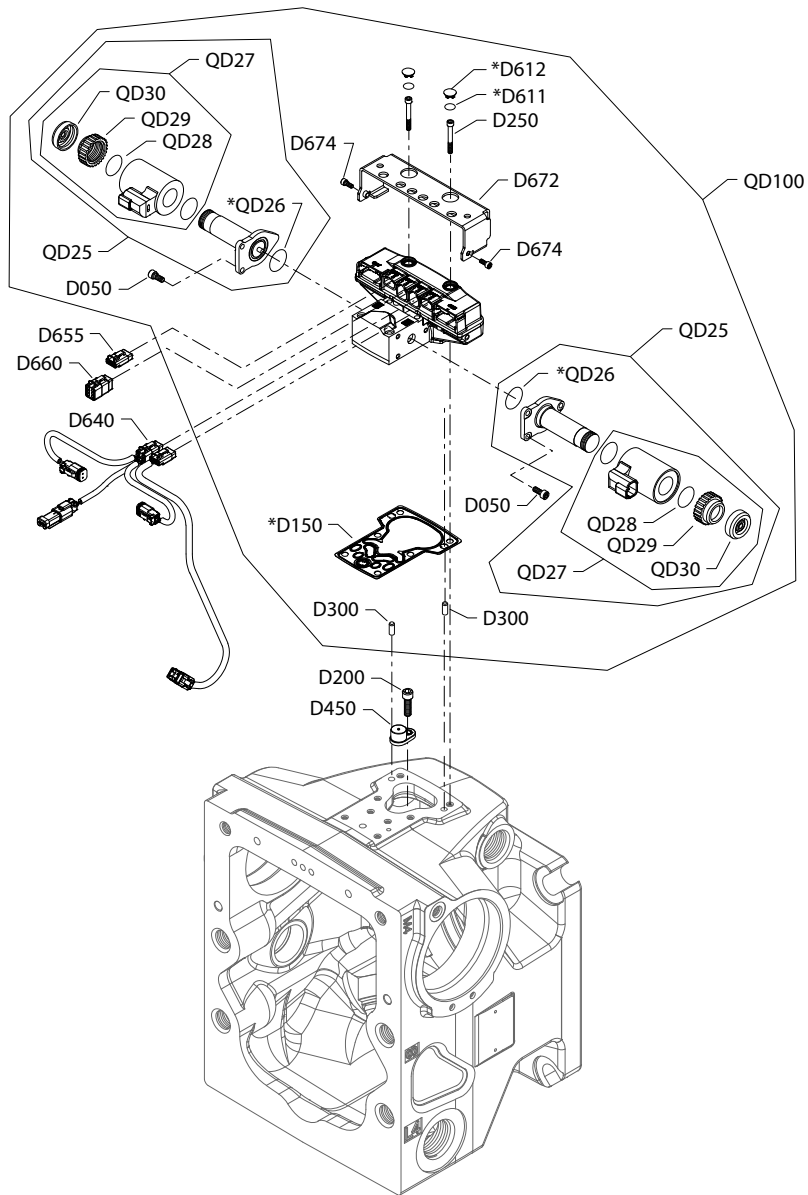
QD25	16-30		140750	Proportional solenoid, 12 volt	2
QD27	16-30		11004698	Coil kit, 12v, DEUTSCH connector	2
QD29	16-30		11319330	Coil nut	2
QD100	16-30		11232768	Automotive control kit, 12v, manual override	1

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 195)	2
D611	21-13		11225703	O-ring	2
D612	16-30	21-12	11003126	Plug (SB-2021-014 on page 195)	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

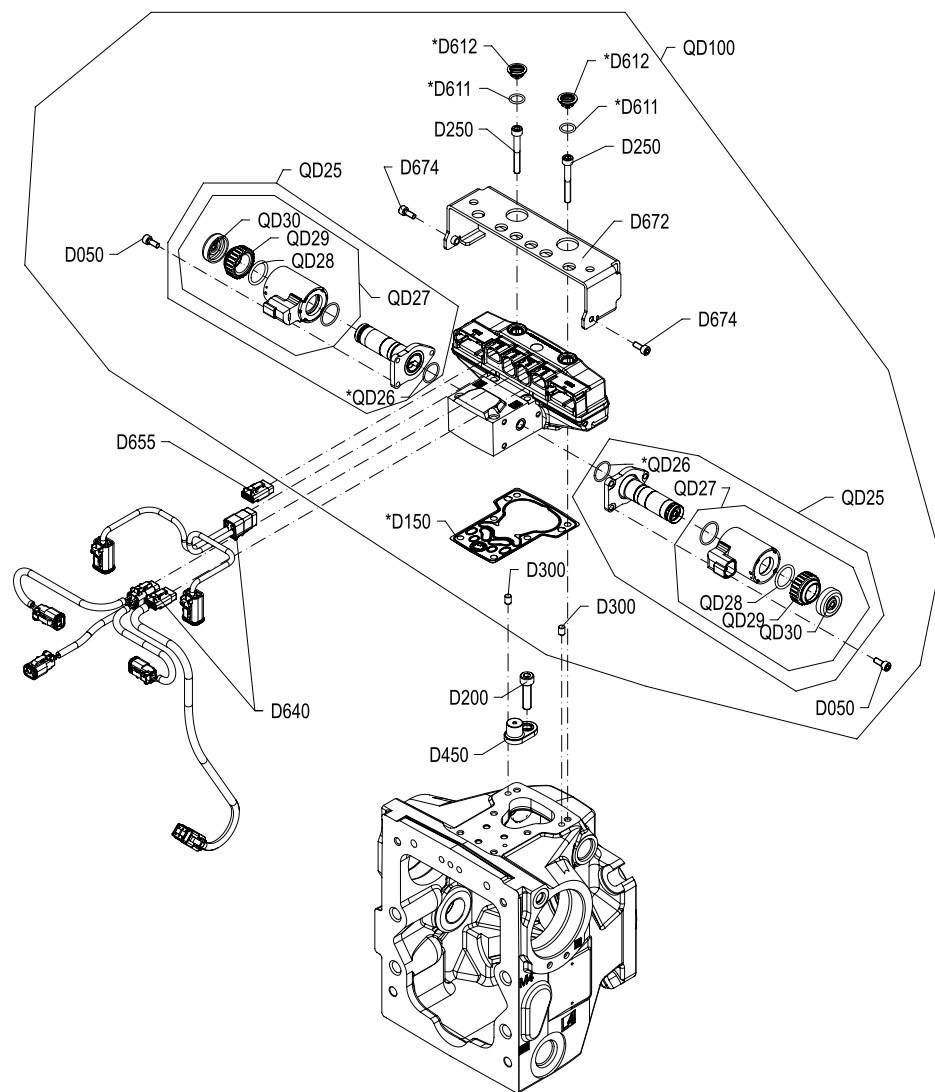
QD25	16-30		140750	Proportional solenoid, 12 volt	2
QD27	16-30		11004698	Coil kit, 12v, DEUTSCH connector	2
QD29	16-30		11319330	Coil nut	2
QD100	16-30		11232770	Automotive control kit, 12v, manual override	1

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 195)	2
D611	21-13		11225703	O-ring	2
D612	16-30	21-12	11003126	Plug (SB-2021-014 on page 195)	2
D612	21-13		11223708	Plug	2
D640	16-30		11105876	AC wiring harness	1
D655	16-30		11084827	Blank, connector DTM 06-3S	1
D672	16-30		11151875	Protection	1
D674	16-30		716860	Screw, M5 x 12	2
QD26	16-30		11001952	O-ring	2
QD28	16-30		063172	O-ring	2
QD30	16-30		11027883	Cap	2

Order code: R1

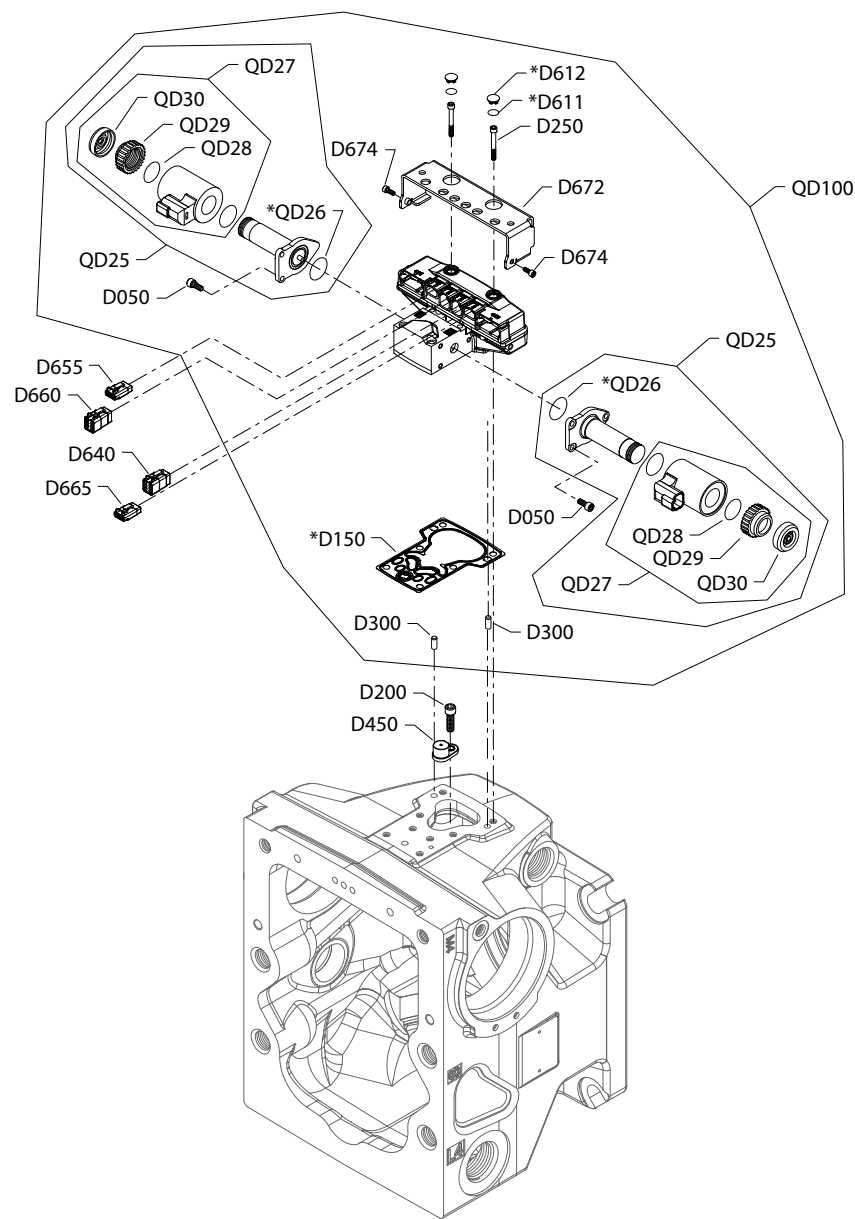
QD25	16-30		140750	Proportional solenoid, 12 volt	2
QD27	16-30		11004698	Coil kit, 12v, DEUTSCH connector	2
QD29	16-30		11319330	Coil nut	2
QD100	16-30		11232770	Automotive control kit, 12v, manual override	1

Order code: R2

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

H1P control R3

R3 configuration



Generic housing shown

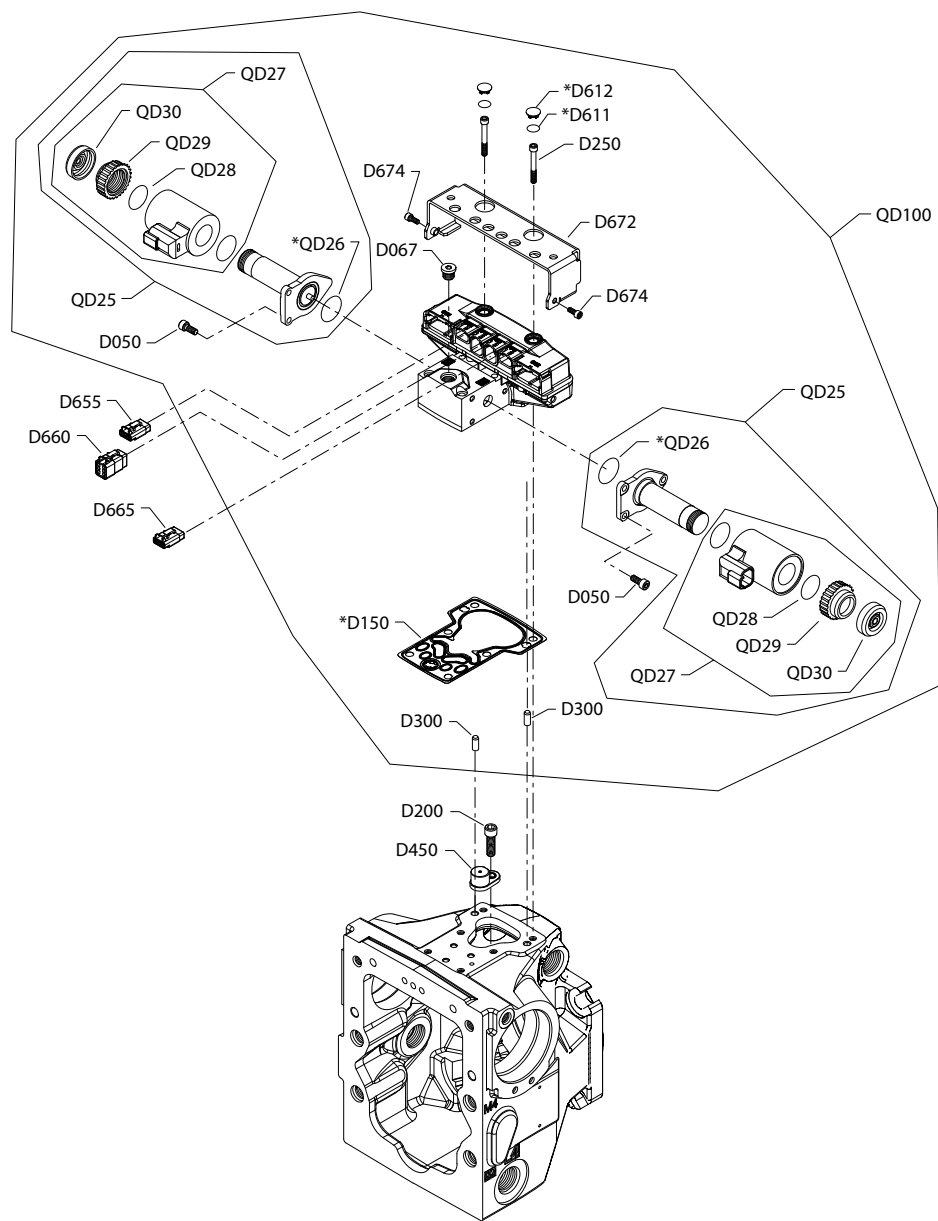
* Included in overhaul seal kit Q210

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 195)	2
D611	21-13		11225703	O-ring	2
D612	16-17	21-12	11003126	Plug (SB-2021-014 on page 195)	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

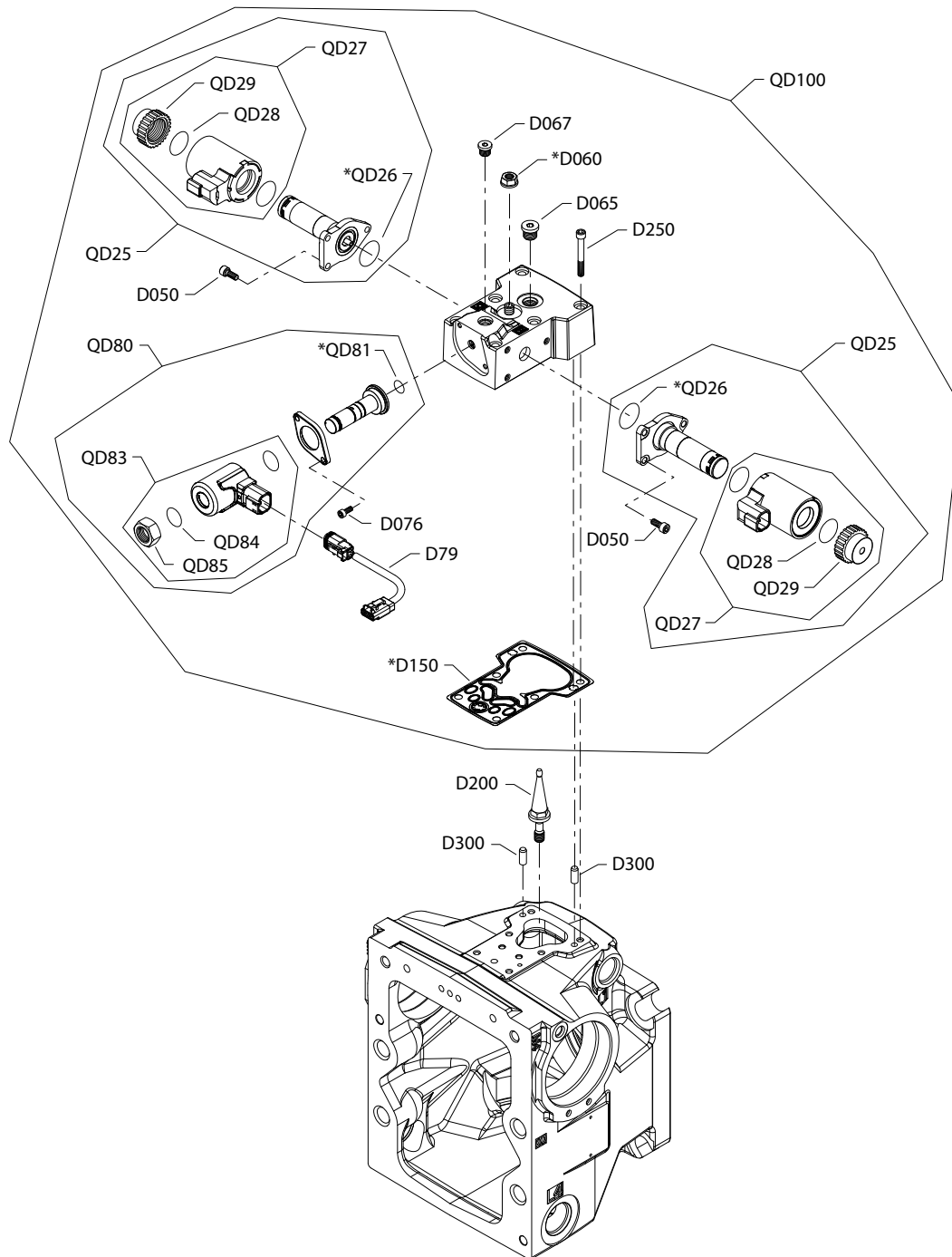
* Included in overhaul seal kit Q210

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 195)	2
D611	21-13		11225703	O-ring	2
D612	17-15	21-12	11003126	Plug (SB-2021-014 on page 195)	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 S6

Parts configuration



Note

Generic housing shown.

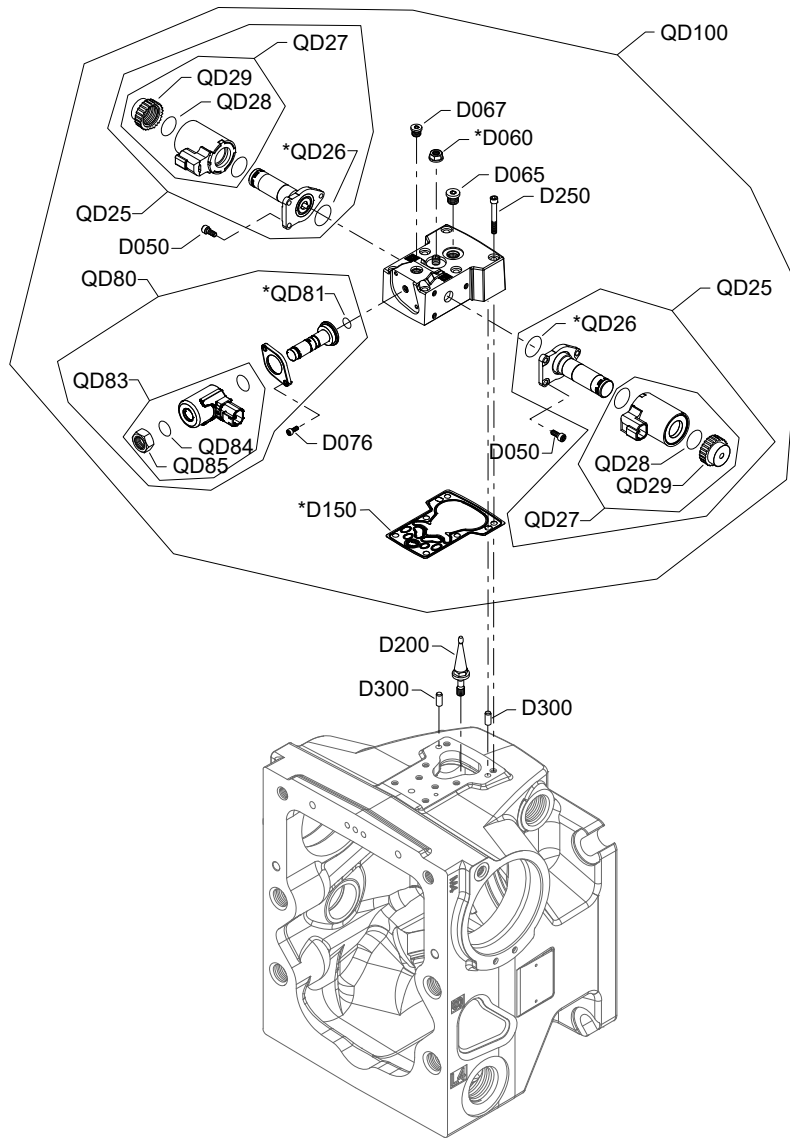
* Included in overhaul seal kit Q210

Order code: S6

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
D79	14-25		11150437	Cable adapter	1
D050	14-25		716860	Screw, M5 x 12	6
D060	14-25		612291 (9003508-0008)	Seal nut, M8	1
D065	14-25		9005110-4400	Plug assembly	1
D067	14-25		11040532	Plug assembly	1
D076	14-25		067694	Screw, M4 x 10	2
D150	14-25		11227209	Control gasket (<i>SB-2016-033</i> on page 190)	1
D200	14-25		11202172	Swashplate feedback link (<i>SB-2018-025</i> on page 193)	1
D250	14-25		505038	Screw, M6 x 45	6
D300	14-25		310979	Dowel pin	2
QD25	14-25		11012457	Proportional solenoid, 12v	2
QD26	14-25		11001952	O-ring	2
QD27	14-25		11028018	Coil kit, 12v, DEUTSCH connector	2
QD28	14-25		063172	O-ring	2
QD29	14-25		11027046	Coil nut	2
QD80	14-25		11231200	Solenoid vale, on/off, 12v	1
QD81	14-25		11152257	O-ring	1
QD83	14-25		11232757	Coil kit, 12v	1
QD84	14-25		11232752	O-ring	1
QD85	14-25		11140394	Coil nut	1
QD100	14-25		11152574	EDC kit, 12v, CORF	1

H1P control S7

Parts configuration



Note

Generic housing shown.

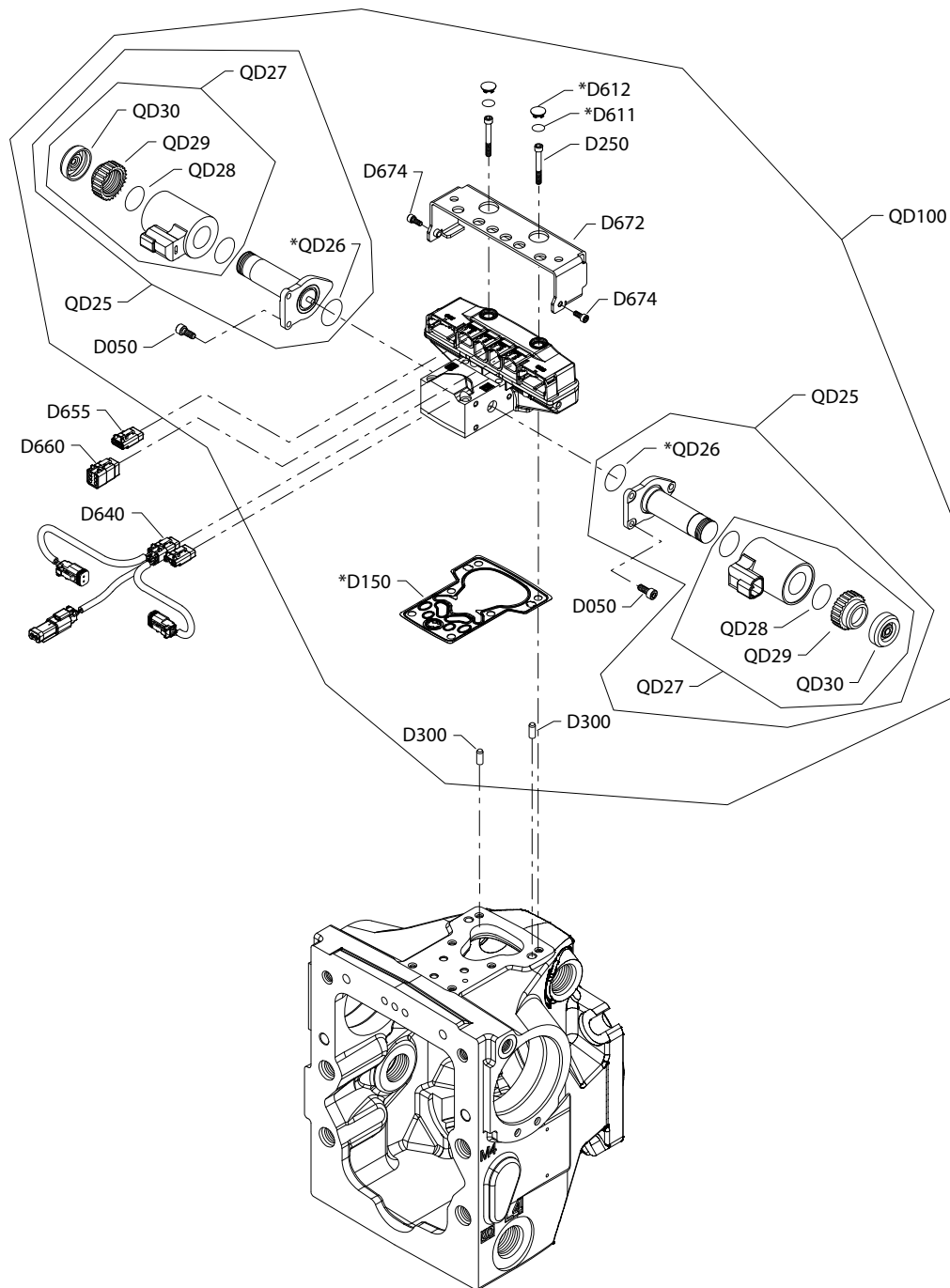
* Included in overhaul seal kit Q210

Order code: S7

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
D050	14-31		716860	Screw, M5 x 12	6
D060	14-31		612291 (9003508-0008)	Seal nut, M8	1
D065	14-31		9005110-4400	Plug assembly	1
D067	14-31		11040532	Plug assembly	1
D076	14-25		067694	Screw, M4 x 10	2
D150	14-31		11227209	Control gasket (<i>SB-2016-033</i> on page 190)	1
D200	14-31		11202172	Swashplate feedback link (<i>SB-2018-025</i> on page 193)	1
D250	14-31		505038	Screw, M6 x 45	6
D300	14-31		310979	Dowel pin	2
QD25	14-31		11012457	Proportional solenoid, 12v	2
QD26	14-31		11001952	O-ring	2
QD27	14-31		11028018	Coil kit, 12v, DEUTSCH connector	2
QD28	14-31		063172	O-ring	2
QD29	14-31		11027046	Coil nut	2
QD80	14-31		11231200	Solenoid vale, on/off, 12v	1
QD81	14-31		11152257	O-ring	1
QD83	14-31		11232757	Coil kit, 12v	1
QD84	14-31		11232752	O-ring	1
QD85	14-31		11140394	Coil nut	1
QD100	14-31		11152574	EDC kit, 12v, CORF	1

H1P control T6, T7

Parts configuration



Note

Generic housing shown

* Included in overhaul seal kit Q210

Order code: T6

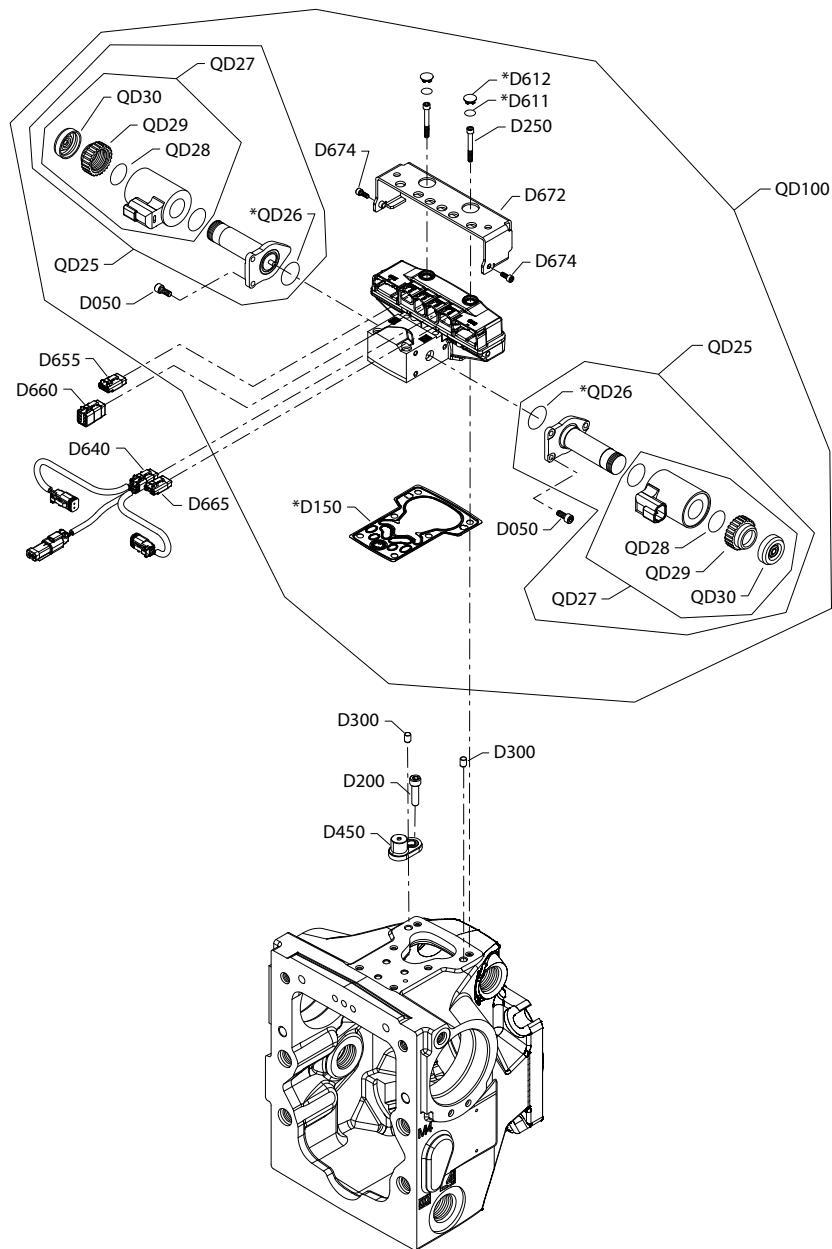
Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
D050	18-15		716860	Screw, M5 x 12	6
D150	18-15		11227209	Control Gasket	1
D250	18-15		505038	Screw, M6 x 45	6
D300	18-15		11036469	Dowel pin	2
D611	18-15	21-12	11066774	O-ring (SB-2021-014 on page 195)	2
D611	21-13		11225703	O-ring	2
D612	18-15	21-12	11003126	Plug (SB-2021-014 on page 195)	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 195)	2
D611	21-13		11225703	O-ring	2
D612	18-15	21-12	11003126	Plug (SB-2021-014 on page 195)	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

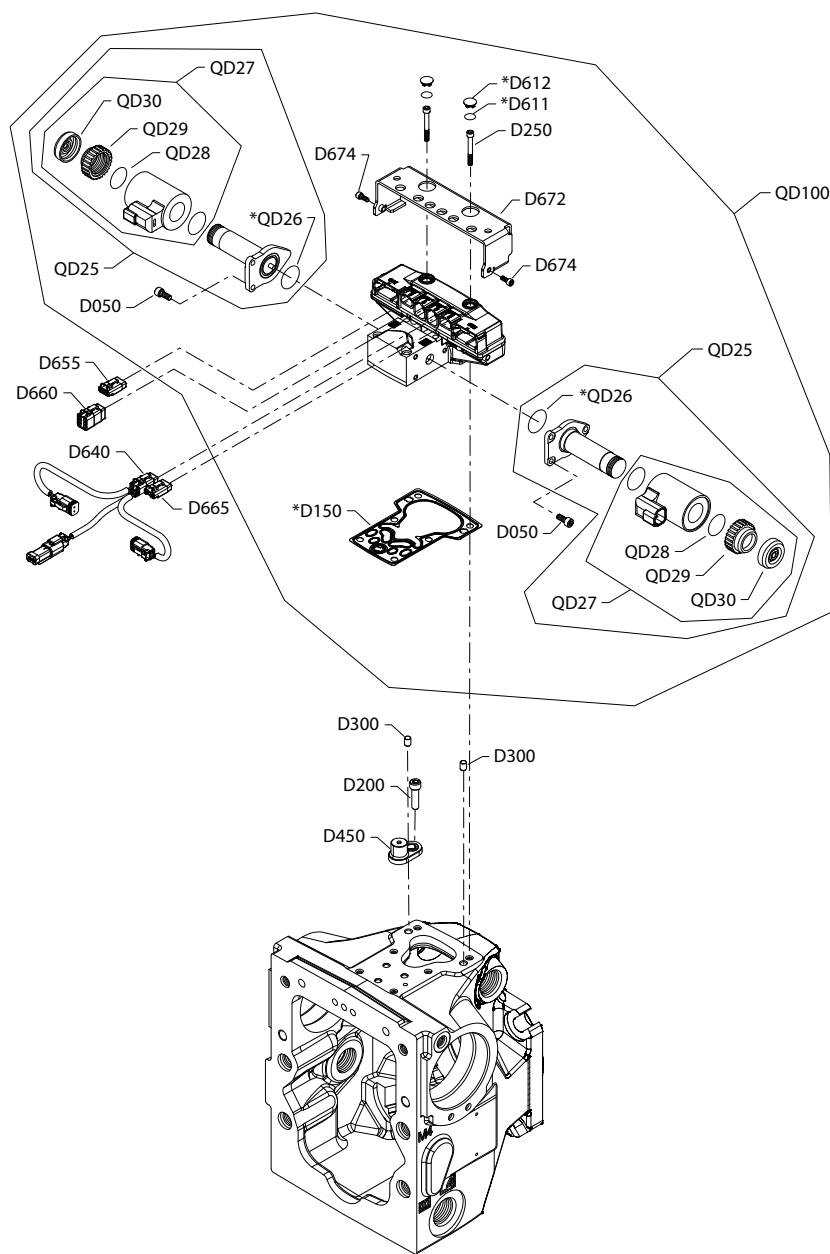
* Included in overhaul seal kit Q210

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 195)	2
D611	21-13		11225703	O-ring	2
D612	18-12	21-12	11003126	Plug (SB-2021-014 on page 195)	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

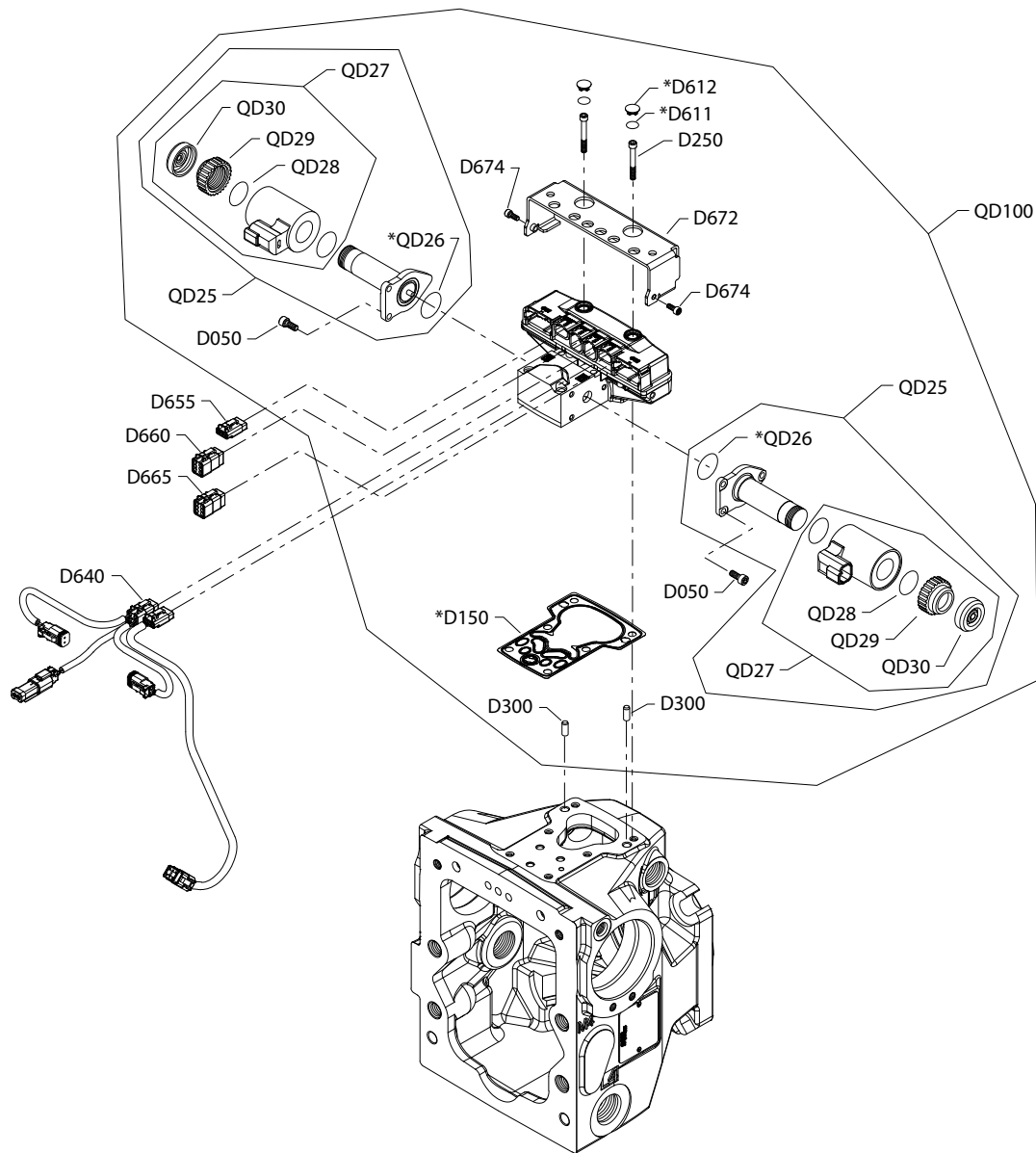
* Included in overhaul seal kit Q210

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 195)	2
D611	21-13		11225703	O-ring	2
D612	18-12	21-12	11003126	Plug (SB-2021-014 on page 195)	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

H1P control U1, U2

Parts configuration



Note

Generic housing shown

* Included in overhaul seal kit Q210

Common parts

Item	Date Begin	Date End	Part Number	Part Number	Qty. per Model/Kit
D050	18-10		716860	Screw, M5 x 12	6
D150	18-10		11227209	Control gasket	1
D250	18-10		505038	Screw, M6 x 45	6
D300	18-10		11036469	Dowel pin	2
D611	18-10	21-12	11066774	O-ring (<i>SB-2021-014</i> on page 195)	2
D611	21-13		11225703	O-ring	2
D612	18-10	21-12	11003126	Plug (<i>SB-2021-014</i> on page 195)	2
D612	21-13		11223708	Plug	2
D640	18-10		11197432	AC wiring harness	1
D655	18-10		11084827	Connector DTM 06-3s	1
D660	18-10		11084822	Connector DTM 06-6s	1
D665	18-10		11084827	Connector DTM 06-3s	1
D672	18-10		11151875	Protection	1
D674	18-10		716860	Screw, M5 x 12	2
QD26	18-10		11001952	O-ring	2
QD28	18-10		063172	O-ring	2
QD30	18-10		11027883	Cap	2

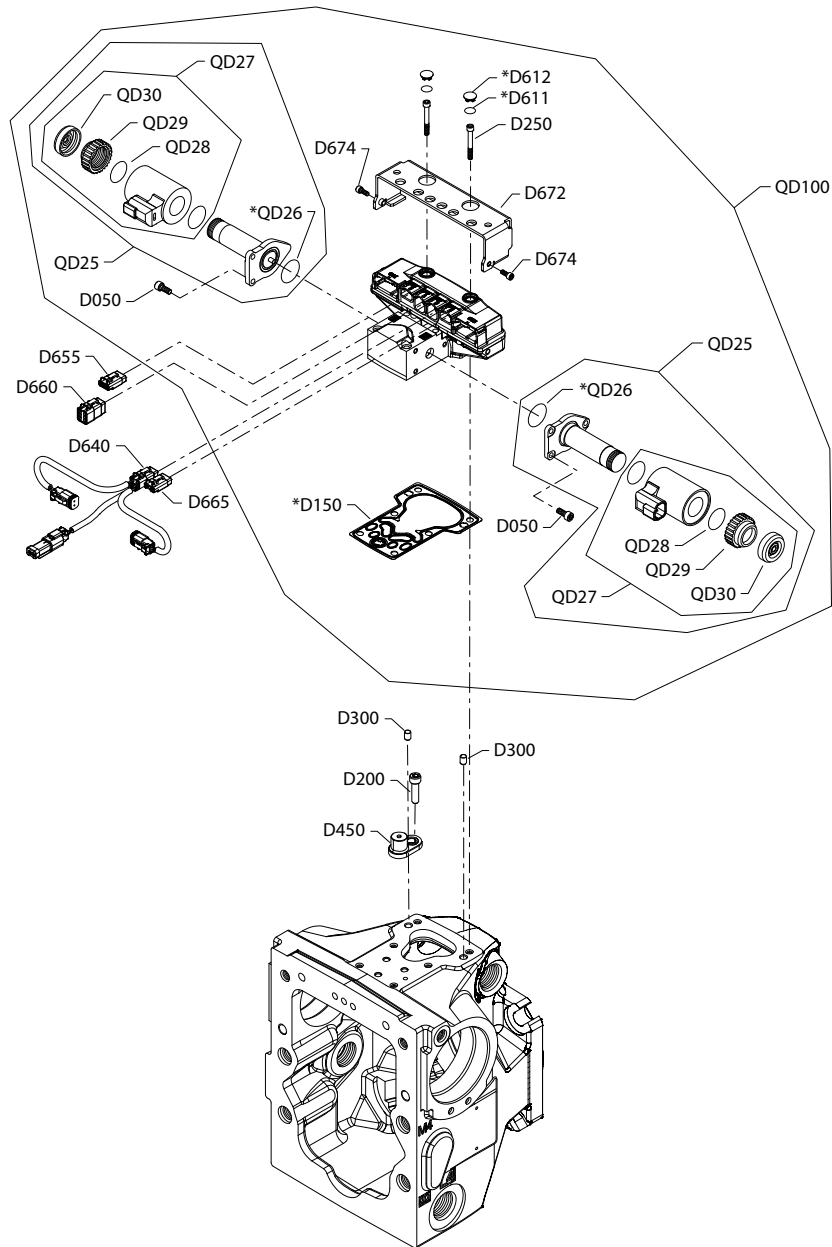
Order code: U1

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

Order code: U2

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

H1P control U3, U4



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	16-29		716860	Screw, M5x12	6
D150	16-29		11227209	Control gasket	1
D200	16-29		141472	Screw, M8x1x30	1
D250	16-29		505038	Screw, M6x45	6
D300	16-29		11036469	Dowel pin	2
D450	16-29		11003097	Magnet carrier	1
D611	16-29	21-12	11066774	O-ring (SB-2021-014 on page 195)	2
D611	21-13		11225703	O-ring	2
D612	16-29	21-12	11003126	Plug (SB-2021-014 on page 195)	2
D612	21-13		11223708	Plug	2
D640	16-29		11197432	AC wiring harness	1
D655	16-29		11084827	Connector DTM06-3S	1
D660	16-29		11084822	Connector DTM06-6S	1
D665	16-29		11084827	Connector DTM06-3S	1
D672	16-29		11151875	Protection	1
D674	16-29		716860	Screw, M5x12	2
QD26	16-29		11001952	O-ring	2
QD28	16-29		063172	O-ring	2
QD30	16-29		11027883	Cap	2

Order code: U3

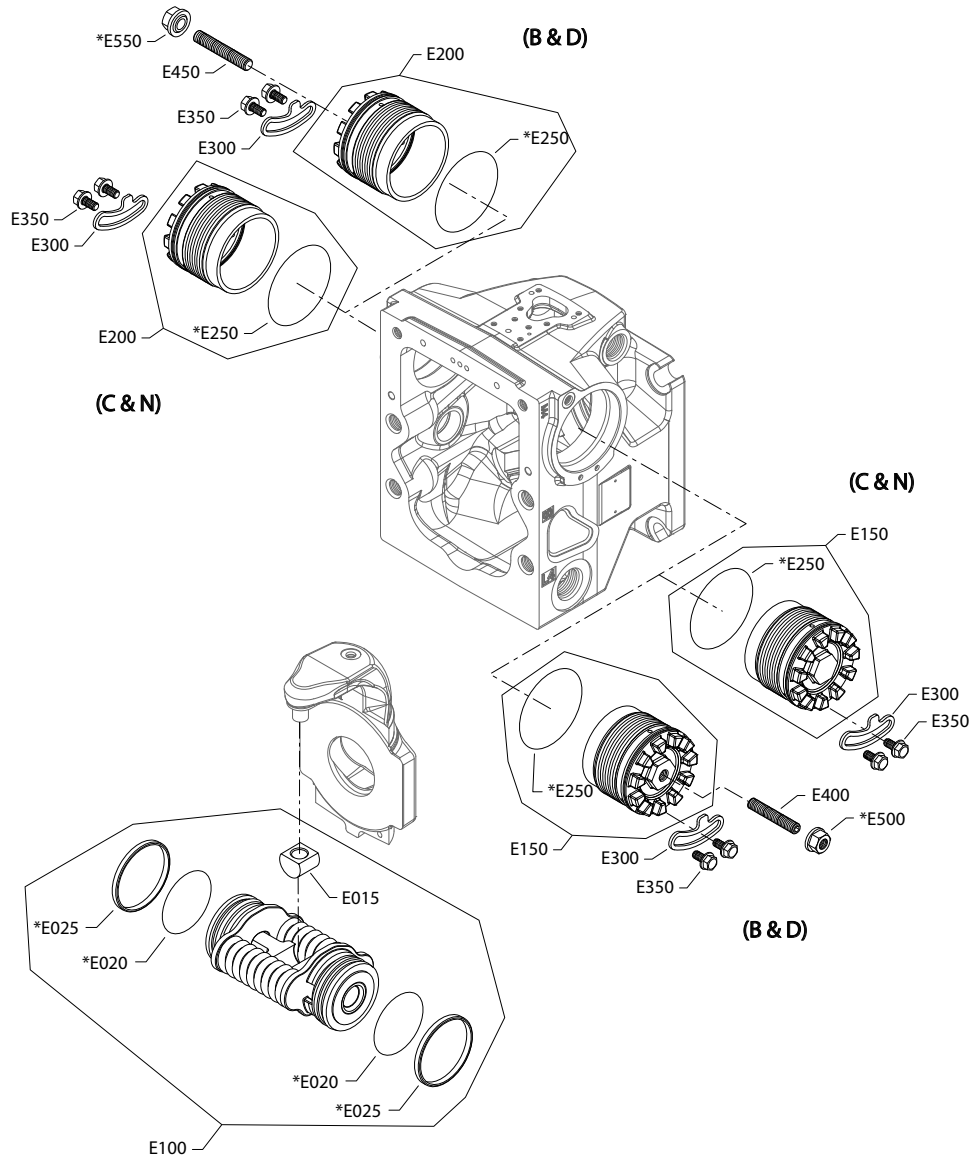
QD100	16-29		11232794	Automotive control kit, 12v, manual override	1
QD25	16-29		140750	Proportional solenoid, 12V	2
QD27	16-29		11004698	Coil kit, 12v, DEUTSCH connector	2
QD29	16-29		11319330	Coil nut	2

Order code: U4

QD100	16-29		11232795	Automotive control kit, 24V, manual override	1
QD25	16-29		140751	Proportional solenoid, 24V	2
QD27	16-29		11004700	Coil kit, 24V, DEUTSCH connector	2
QD29	16-29		11319361	Coil nut	2

Displacement limitation

H1P 69/78cc displacement B-N



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
E015	07-14		11141989	Slider block	1
E020	07-14		11075553	O-ring	2
E025	07-14		11075552	Piston seal ring	2
E250	07-14		140896	O-ring	2
E300	10-35		11229549	Locking plate	2
E300	07-14	10-34	140513	Locking plate (<i>SB-2009-046</i> on page 180)	2
E350	07-14		508438	Screw, M6 x 12	4

Order code: B

E100	07-14		140891	Servo piston assembly	1
E150	07-14		11089779	Servo cylinder assembly (<i>SB-2009-046</i> on page 180)	1
E200	07-14		11089779	Servo cylinder assembly (<i>SB-2009-046</i> on page 180)	1
E400	07-14		11001516	Set screw	1
E450	07-14		11001516	Set screw	1
E500	07-14		505412	Seal nut, M8	1
E550	07-14		505412	Seal nut, M8	1

Order code: C

E100	07-14		11000808	Servo piston assembly w/nested spring	1
E150	07-14		11089749	Servo cylinder assembly (<i>SB-2009-046</i> on page 180)	1
E200	07-14		11089749	Servo cylinder assembly (<i>SB-2009-046</i> on page 180)	1

Order code: D

E100	07-14		11000808	Servo piston assembly w/nested spring	1
E150	07-14		11089779	Servo cylinder assembly (<i>SB-2009-046</i> on page 180)	1
E200	07-14		11089779	Servo cylinder assembly (<i>SB-2009-046</i> on page 180)	1
E400	07-14		11001516	Set screw	1
E450	07-14		11001516	Set screw	1
E500	07-14		505412	Seal nut, M8	1
E550	07-14		505412	Seal nut, M8	1

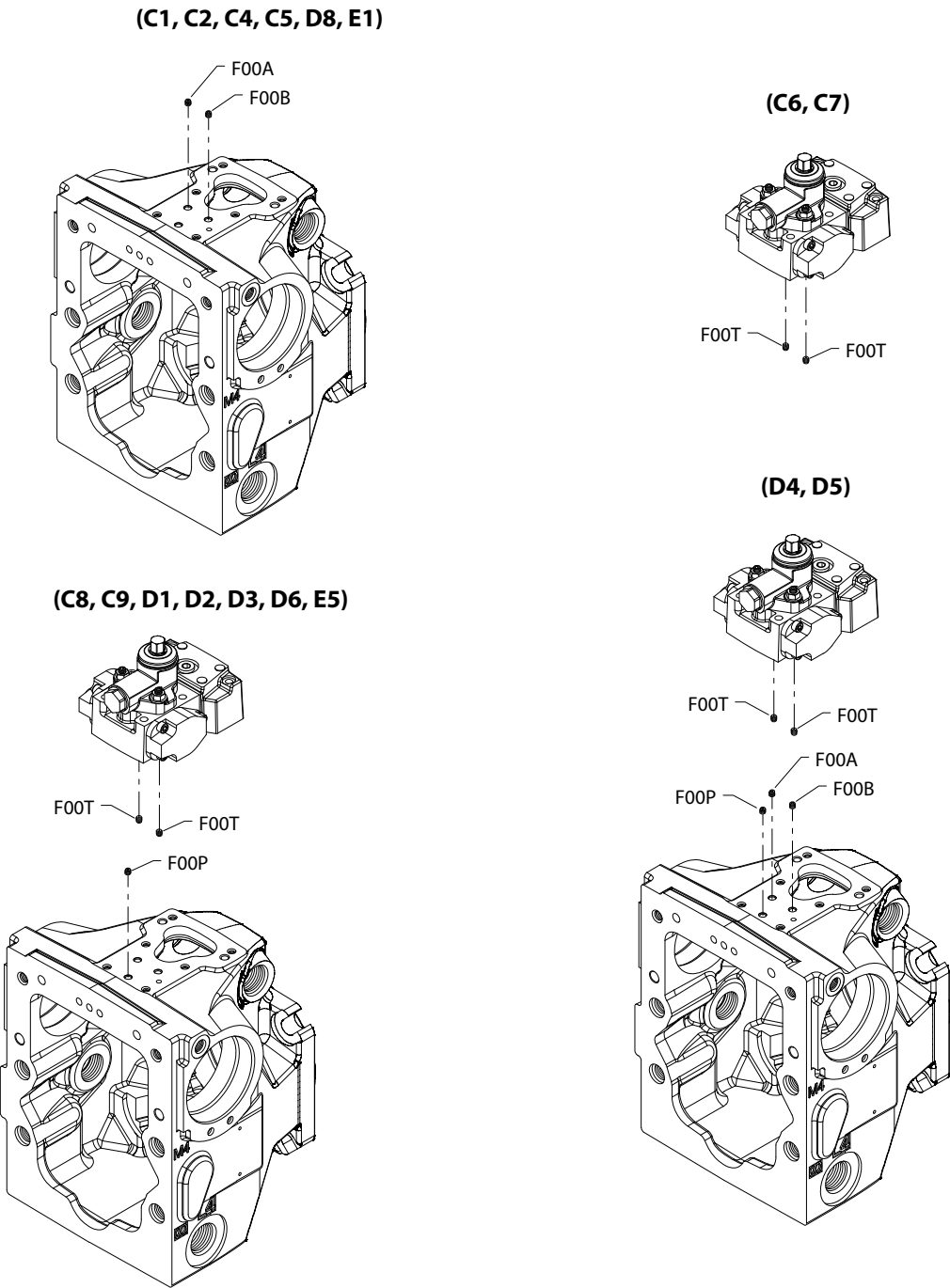
Order code: N

E100	07-14		140891	Servo piston assembly	1
E150	07-14		11089749	Servo cylinder assembly (<i>SB-2009-046</i> on page 180)	1
E200	07-14		11089749	Servo cylinder assembly (<i>SB-2009-046</i> on page 180)	1

Orifice

H1P orifice C-E

Parts configuration



Generic controls and housings shown.

Order code: C1

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
F00A	07-14		140611	Orifice, 0.8, M6 x 0.75 mm	1
F00B	07-14		140611	Orifice, 0.8, M6 x 0.75 mm	1

Order code: C2

F00A	07-14		140754	Orifice, 1.3, M6 x 0.75 mm	1
F00B	07-14		140754	Orifice, 1.3, M6 x 0.75 mm	1

Order code: C3

No parts					
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Order code: C4

F00A	13-12		140757	Orifice, 1.8, M6 x 0.75 mm	1
F00B	13-12		140757	Orifice, 1.8, M6 x 0.75 mm	1

Order code: C5

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

Order code: C6

F00T	14-44		11151734	Orifice, 1.0, M6 x 0.75 mm	2
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Order code: C7

F00T	14-44		140754	Orifice, 1.3, M6 x 0.75 mm	2
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Order code: C8

F00P	14-44		140611	Orifice, 0.8 M6 x 0.75 mm	1
F00T	14-44		11151733	Orifice, 0.6 M6 x 0.75 mm	2

Order code: C9

F00P	14-44		11151734	Orifice, 1.0 M6 x 0.75 mm	1
F00T	14-44		11151733	Orifice, 0.6 M6 x 0.75 mm	2

Order code: D1

F00P	14-44		11151734	Orifice, 1.0 M6 x 0.75 mm	1
F00T	14-44		140611	Orifice, 0.8 M6 x 0.75 mm	2

Order code: D2

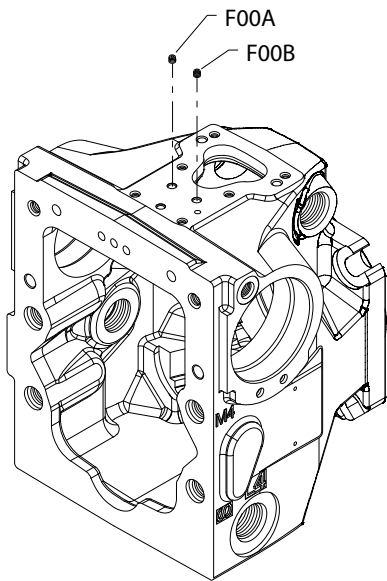
F00P	14-44		140754	Orifice, 1.3, M6 x 0.75 mm	1
F00T	14-44		140611	Orifice, 0.8 M6 x 0.75 mm	2



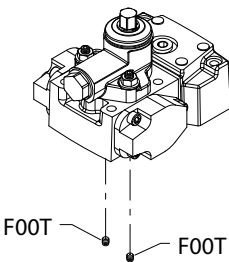
Parts continue to the next 2 pages.

Parts configuration

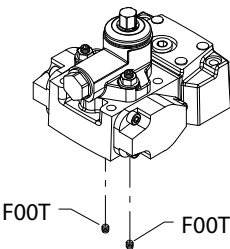
(C1, C2, C4, C5, D8, E1)



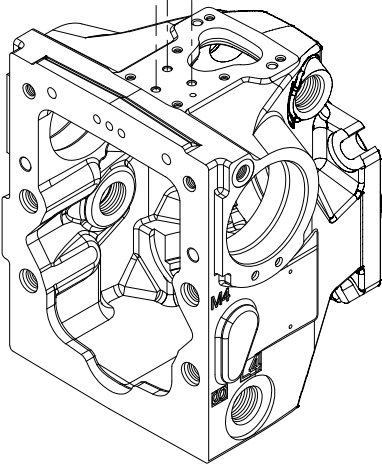
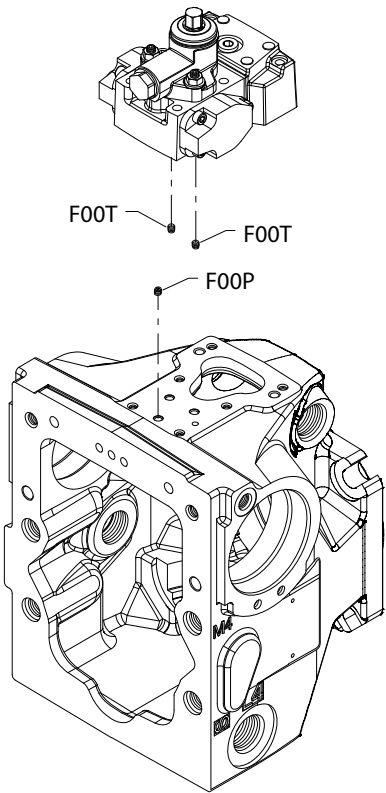
(C6, C7)



(D4, D5)



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



Generic controls and housings shown.

Order code: D3

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
F00P	14-44		140754	Orifice, 1.3, M6 x 0.75 mm	1
F00T	14-44		11151734	Orifice, 1.0 M6 x 0.75 mm	2

Order code: D4

F00A	14-44		140754	Orifice, 1.3, M6 x 0.75 mm	1
F00B	14-44		140754	Orifice, 1.3, M6 x 0.75 mm	1
F00P	14-44		140754	Orifice, 1.3, M6 x 0.75 mm	1
F00T	14-44		11151734	Orifice, 1.0 M6 x 0.75 mm	2

Order code: D5

F00A	14-44		140611	Orifice, 0.8 M6 x 0.75 mm	1
F00B	14-44		140611	Orifice, 0.8 M6 x 0.75 mm	1
F00P	14-44		11151733	Orifice, 0.6 M6 x 0.75 mm	1
F00T	14-44		11151733	Orifice, 0.6 M6 x 0.75 mm	2

Order code: D6

F00P	14-29		140754	Orifice, 1.3, M6 x 0.75 mm	1
F00T	14-29		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

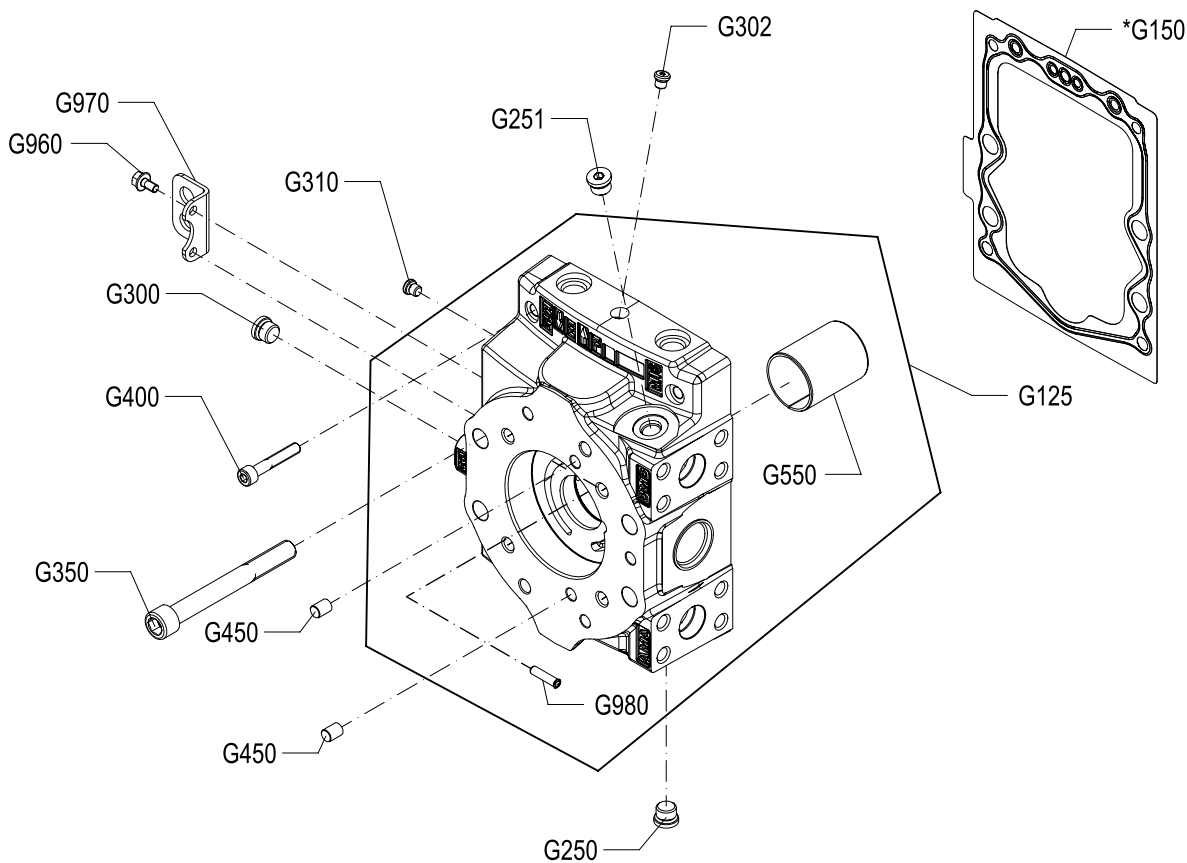
Order code: E5

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 69/78cc end cap D3, D6

Parts configuration



* Included in overhaul seal kit Q210

Order code: D3

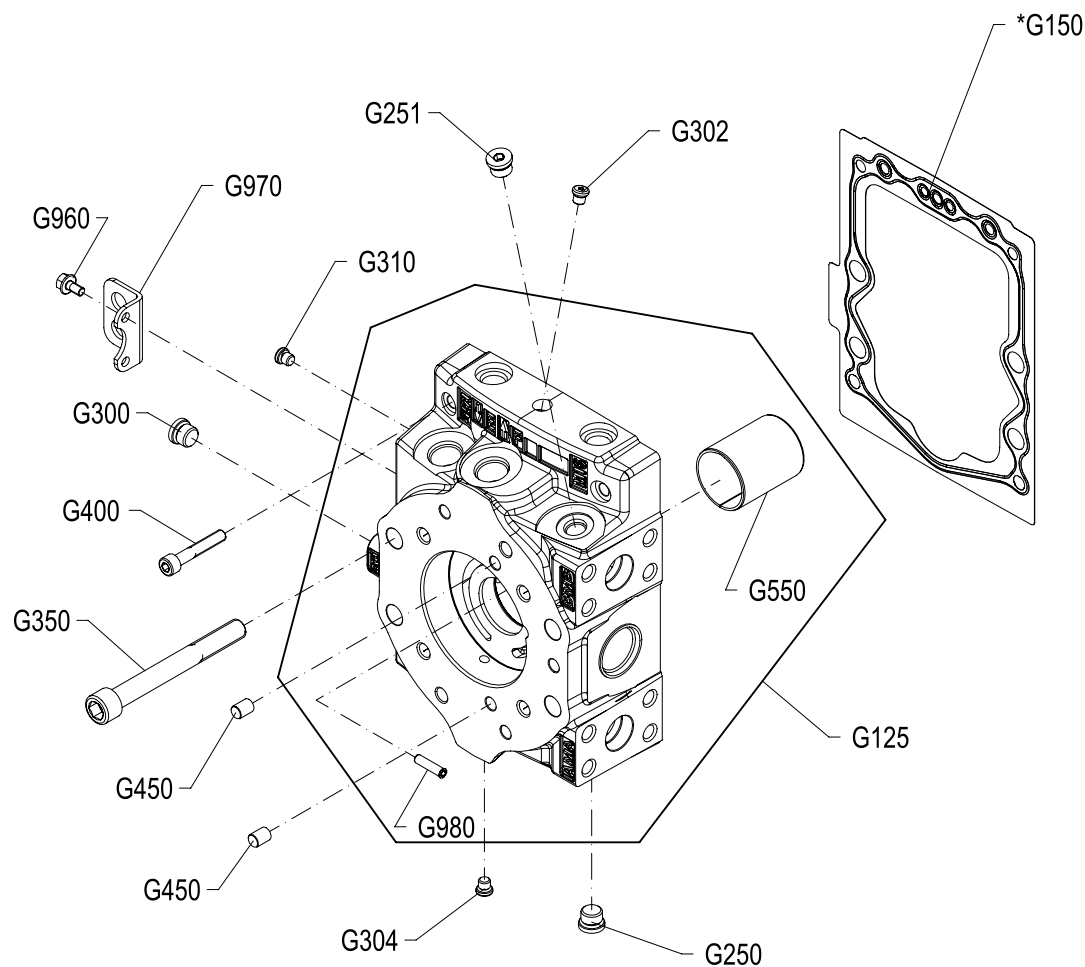
Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
G125	07-14		11310181	End cap assembly, CW (<i>SB-2024-005</i> on page 199)	1
G125	07-14		11310309	End cap assembly, CCW (<i>SB-2024-005</i> on page 199)	1
G150	07-14		140902	End cap gasket	1
G250	07-14		140644	Plug assembly	1
G251	07-14		140644	Plug assembly	1
G300	07-14		140644	Plug assembly	1
G302	07-14		11040532	Plug assembly	1
G310	07-14		11040532	Plug assembly	1
G350	23-38		11301896	Screw, M14 x 120 (<i>SB-2024-005</i> on page 199)	4
G350	07-14	23-37	11000510	Screw, M14 x 90	4
G400	07-14		376624	Screw, M8 x 45	2
G450	07-14		9004800-3708	Dowel pin	2
G550	07-14		11087822	Journal bearing (<i>SB-2012-009</i> on page 183)	1
G960	07-14		508438	Screw	2
G970	07-14		4460311	Lifting bracket	1
G980	07-14		11000229	Lubrication orifice	1

Order code: D6

G125	07-14		11310332	End cap assembly, CW (<i>SB-2024-005</i> on page 199)	1
G125	07-14		11310179	End cap assembly, CCW (<i>SB-2024-005</i> on page 199)	1
G150	07-14		140902	End cap gasket	1
G250	07-14		140644	Plug assembly	1
G251	07-14		140644	Plug assembly	1
G300	07-14		140644	Plug assembly	1
G302	07-14		11040532	Plug assembly	1
G310	07-14		11040532	Plug assembly	1
G350	23-38		11301896	Screw, M14 x 120 (<i>SB-2024-005</i> on page 199)	4
G350	07-14	23-37	11000510	Screw, M14 x 90	4
G400	07-14		376624	Screw, M8 x 45	2
G450	07-14		9004800-3708	Dowel pin	2
G550	07-14		11087822	Journal bearing (<i>SB-2012-009</i> on page 183)	1
G960	07-14		508438	Screw	2
G970	07-14		4460311	Lifting bracket	1
G980	07-14		11000229	Lubrication orifice	1

H1P 69/78cc end cap D8

Parts configuration



* Included in overhaul seal kit Q210

Order code: D8

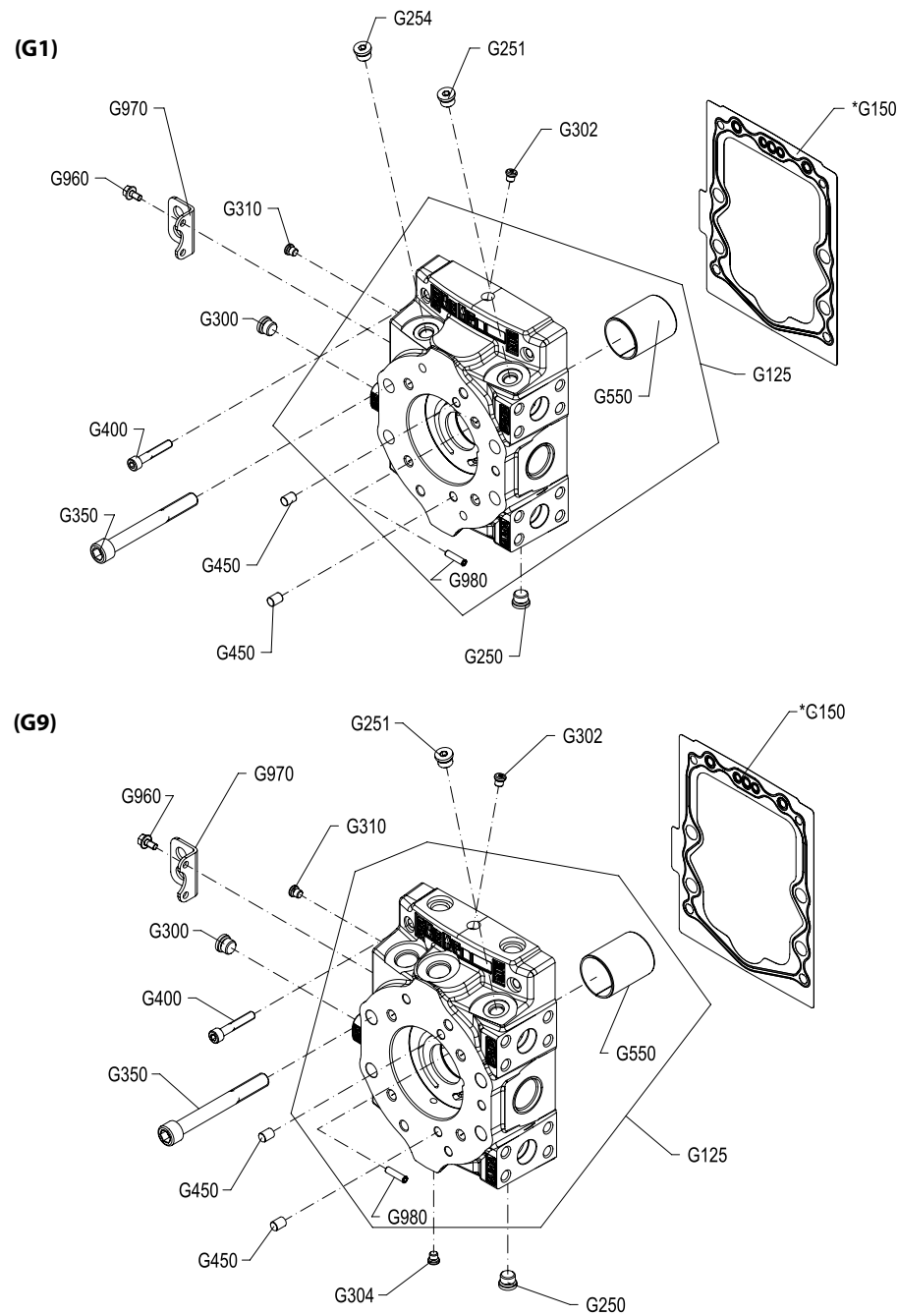
Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
G125	07-14		11310333	End cap assembly, CW (<i>SB-2024-005</i> on page 199)	1
G125	07-14		11310180	End cap assembly, CCW (<i>SB-2024-005</i> on page 199)	1
G150	07-14		140902	End cap gasket	1
G250	07-14		140644	Plug assembly	1
G251	07-14		140644	Plug assembly	1
G300	07-14		140644	Plug assembly	1
G302	07-14		11040532	Plug assembly	1
G310	07-14		11040532	Plug assembly	1
G304	07-14		11040532	Plug assembly	1
G350	23-38		11301896	Screw, M14 x 120 (<i>SB-2024-005</i> on page 199)	4
G350	07-14	23-37	11000510	Screw, M14 x 90	4
G400	07-14		376624	Screw, M8 x 45	2
G450	07-14		9004800-3708	Dowel pin	2
G550	07-14		11087822	Journal bearing (<i>SB-2012-009</i> on page 183)	1
G960	07-14		508438	Screw	2
G970	07-14		4460311	Lifting bracket	1
G980	07-14		11000229	Lubrication orifice	1

H1P 69/78cc end cap F4, F5, F6

Option F4 has been replaced by option D3 in conjunction with H6 Aux pad option new SAE-C (127-2/-4) Adapter (<i>SB-2024-004</i> on page 198).
Option F5 has been replaced by option D8 in conjunction with H6 Aux pad option new SAE-C (127-2/-4) Adapter (<i>SB-2024-004</i> on page 198).
Option F6 has been replaced by option D6 in conjunction with H6 Aux pad option new SAE-C (127-2/-4) Adapter (<i>SB-2024-004</i> on page 198).

H1P 69/78cc end cap G1, G9

Parts configuration



Order code: G1

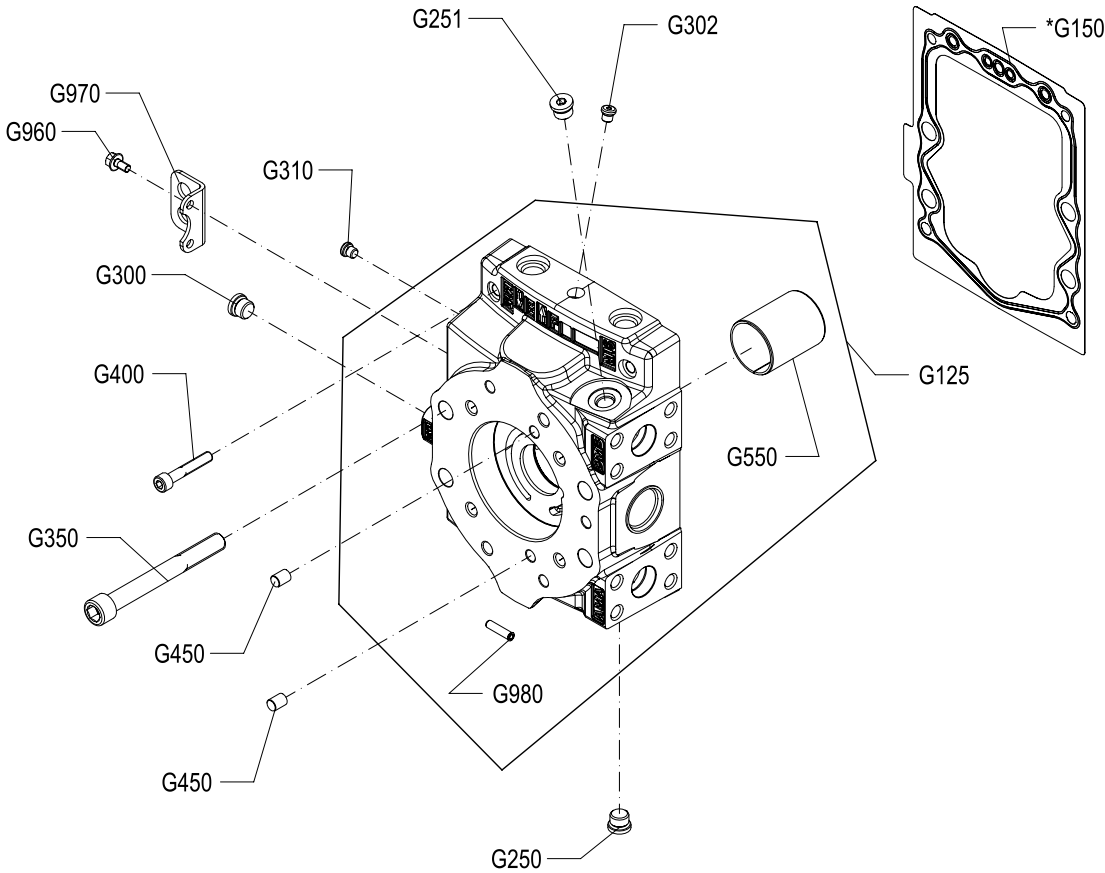
Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
G125	10-41		11310310	End cap assembly, CW (<i>SB-2024-005</i> on page 199)	1
G150	10-41		140902	End cap gasket	1
G250	10-41		140644	Plug assembly	1
G251	10-41		140644	Plug assembly	2
G300	10-41		140644	Plug assembly	1
G302	10-41		11040532	Plug assembly	1
G310	07-14		11040532	Plug assembly	1
G350	23-38		11301896	Screw, M14 x 120 (<i>SB-2024-005</i> on page 199)	4
G350	10-41	23-37	11000510	Screw, M14 x 90	4
G400	10-41		376624	Screw, M8 x 45	2
G450	10-41		9004800-3708	Pin	2
G550	10-41		11087822	Journal bearing (<i>SB-2012-009</i> on page 183)	1
G960	10-41		508438	Screw	2
G970	10-41		4460311	Lifting bracket	1
G980	10-41		11000229	Lubrication orifice	1

Order code: G9

G125	07-14		11310180	End cap assembly, CCW (<i>SB-2024-005</i> on page 199)	1
G150	07-14		140902	End cap gasket	1
G250	07-14		11147119	Plug assembly, special	1
G251	07-14		11147119	Plug assembly, special	1
G300	07-14		11147119	Plug assembly, special	1
G302	07-14		11040532	Plug assembly	1
G310	07-14		11040532	Plug assembly	1
G304	07-14		11040532	Plug assembly	1
G350	23-38		11301896	Screw, M14 x 120 (<i>SB-2024-005</i> on page 199)	4
G350	07-14	23-37	11000510	Screw, M14 x 90	4
G400	07-14		376624	Screw, M8 x 45	2
G450	07-14		9004800-3708	Dowel pin	2
G550	07-14		11087822	Journal bearing (<i>SB-2012-009</i> on page 183)	1
G960	07-14		508438	Screw	2
G970	07-14		4460311	Lifting bracket	1
G980	07-14		11000229	Lubrication orifice	1

H1P 69/78cc end cap H2

Parts configuration



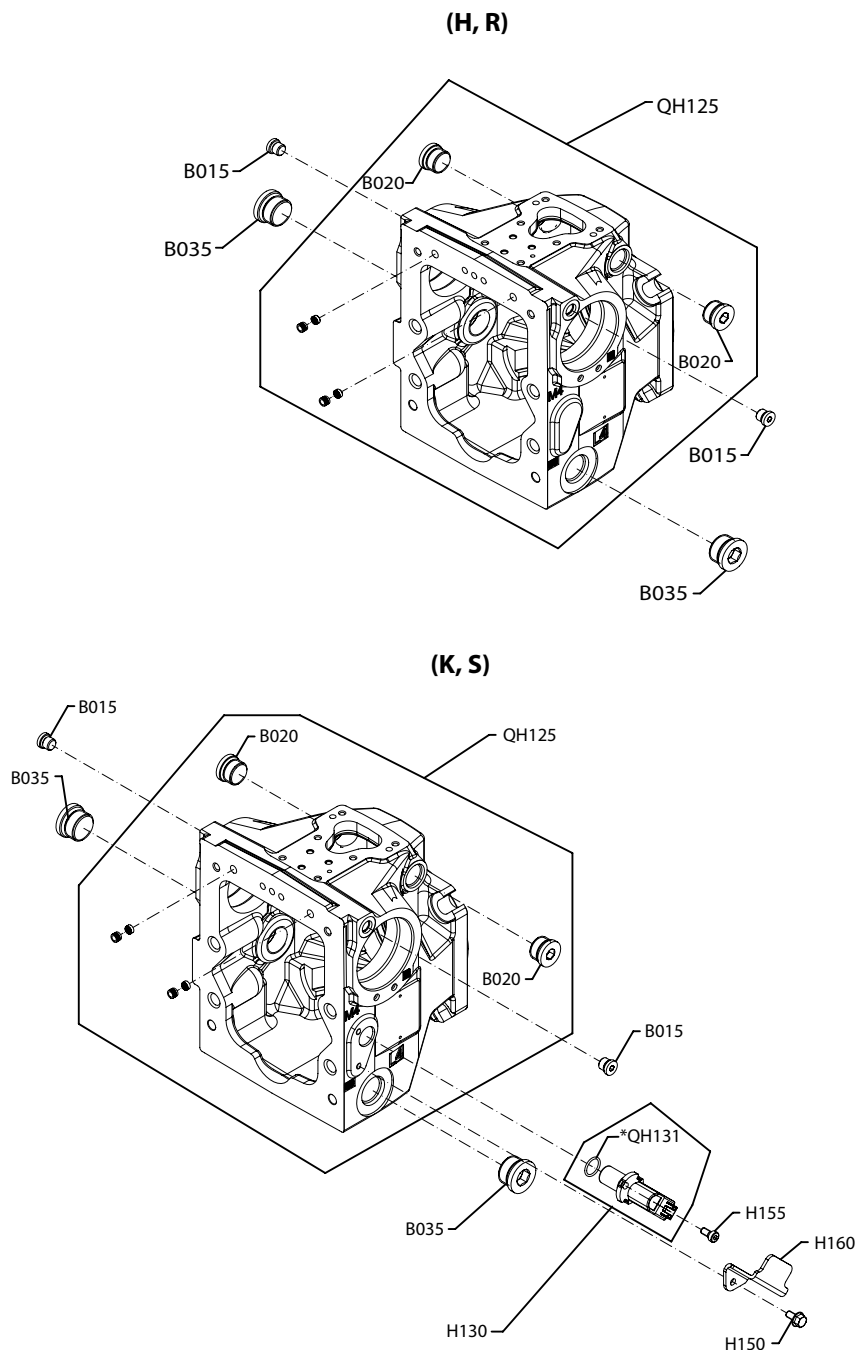
Order code: H2

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
G070	13-42		508211	Valve body	1
G071	13-42		508209	Spring	1
G072	13-42		521472	Retaining ring	1
G125	13-42		11310368	End cap assembly, CW (<i>SB-2024-005</i> on page 199)	1
G150	13-42		140902	End cap gasket	1
G250	13-42		140644	Plug assembly	1
G251	13-42		140644	Plug assembly	2
G300	13-42		140644	Plug assembly	1
G302	13-42		11040532	Plug assembly	1
G310	07-14		11040532	Plug assembly	1
G350	23-38		11301896	Screw, M14 x 120 (<i>SB-2024-005</i> on page 199)	4
G350	13-42	23-37	11000510	Screw, M14 x 90	4
G400	13-42		376624	Screw, M8 x 45	2
G450	13-42		9004800-3708	Pin	2
G550	13-42		11087822	Journal bearing (<i>SB-2012-009</i> on page 183)	1
G960	13-42		508438	Screw, M6 x 12	2
G970	13-42		4460311	Lifting bracket	1
G980	13-42		11000229	Lubrication orifice	1

Housing

H1P 69/78cc housing H-S

Parts configuration



* Included in overhaul seal kit Q210

Order code: H and R

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
B015	07-14		9005110-4400	Plug assembly	2
B020	07-14		315325 (9005110-8700)	Plug assembly	2
B035	07-14		664524 (9005110-9000)	Plug assembly	2
QH125	07-14		11005071	Housing assembly, H1P078	1

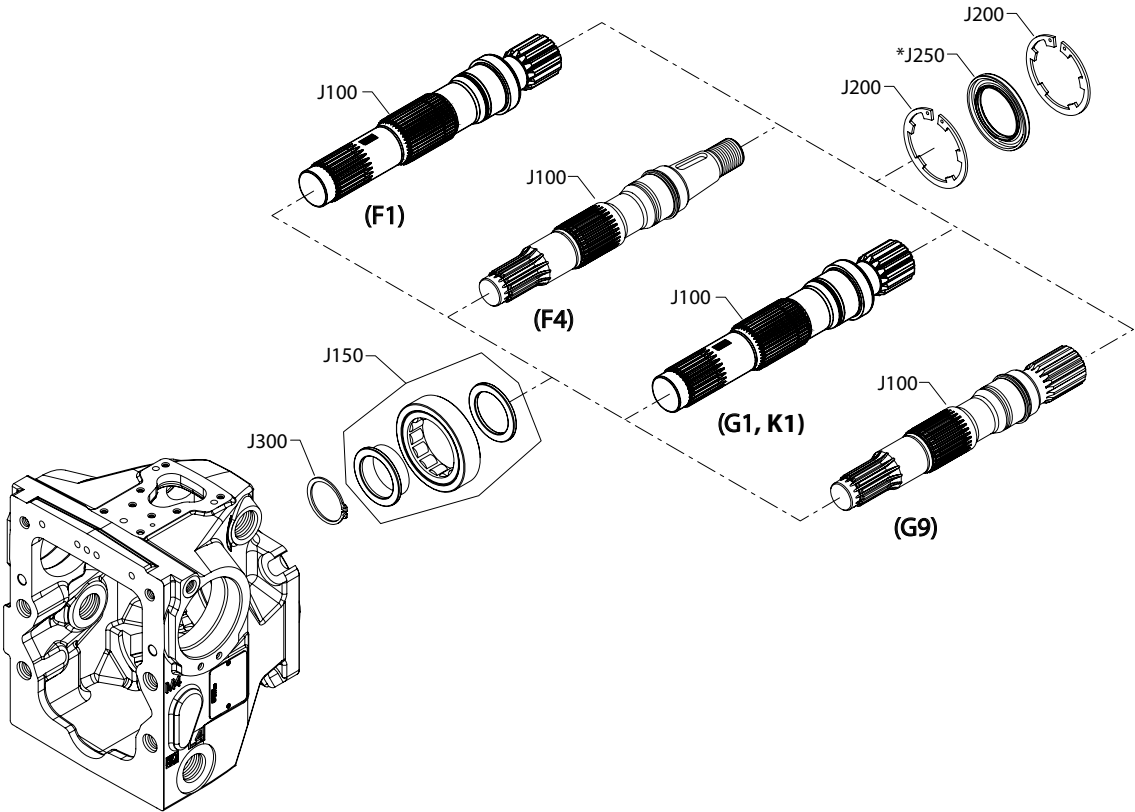
Order code: K and S

B015	07-14		9005110-4400	Plug assembly	2
B020	07-14		315325 (9005110-8700)	Plug assembly	2
B035	07-14		664524 (9005110-9000)	Plug assembly	2
H150	07-14		508438	Screw	1
H155	07-14		376749	Screw	1
H160	07-14		11186383	Speed sensor protector	1
H130	07-14		149055	Speed sensor assembly	1
QH125	07-14		11011752	Housing assembly, H1P078	1
QH131	07-14		11013397	O-ring	1

Shaft

H1P 69/78cc shaft F1-K1

Parts configuration



* Included in overhaul seal kit Q210

Order code: F1

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
J100	17-35		11179422	Shaft, 21 tooth spline, 16/32 pitch (<i>SB-2012-015</i> on page 184, <i>SB-2018-004</i> on page 191)	1
J150	05-11		11056378	Roller bearing	1
J200	05-11		11000195	Retaining ring	2
J250	05-11		140911	Lip seal	1
J300	05-11		392167	Retaining ring	1

Order code: F4

J100	17-35		11179423	Shaft, tapered (<i>SB-2012-015</i> on page 184, <i>SB-2018-004</i> on page 191)	1
J150	07-29		11056378	Roller bearing	1
J200	07-29		11000195	Retaining ring	2
J250	07-29		140911	Lip seal	1
J300	07-29		392167	Retaining ring	1

Order code: G1

J100	17-35		11176498	Shaft, 14 tooth spline, 12/24 pitch (<i>SB-2012-015</i> on page 184, <i>SB-2018-004</i> on page 191)	1
J150	07-14		11056378	Roller bearing	1
J200	07-14		11000195	Retaining ring	2
J250	07-14		140911	Lip seal	1
J300	07-14		392167	Retaining ring	1

Order code: G9

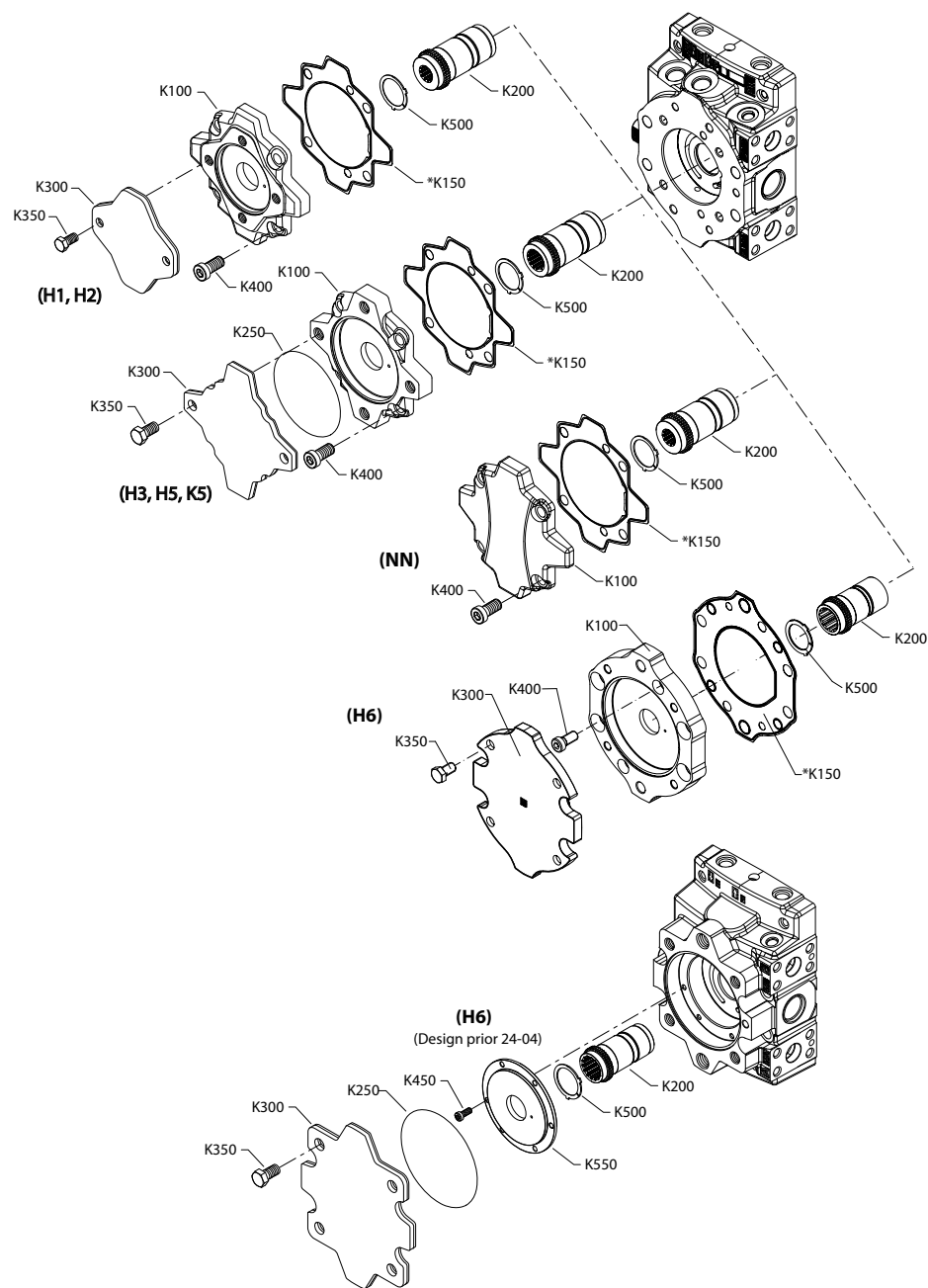
J100	17-35		11179425	Shaft, 23 tooth spline, 16/32 pitch (<i>SB-2012-015</i> on page 184, <i>SB-2018-004</i> on page 191)	1
J150	07-14		11056378	Roller bearing	1
J200	07-14		11000195	Retaining ring	2
J250	07-14		140911	Lip seal	1
J300	07-14		392167	Retaining ring	1

Order code: K1

J100	26-06		11417499	Shaft, 14 tooth spline, 12/24 pitch	1
J150	26-06		11056378	Roller bearing	1
J200	26-06		11000195	Retaining ring	2
J250	26-06		140911	Lip seal	1
J300	26-06		392167	Retaining ring	1

Auxiliary mounting

H1P 69/78cc aux mounting H1-NN



* Included in overhaul seal kit Q210

Order code: H1

K100	07-14		140927	Adapter flange, SAE A	1
K150	07-14		11029873	Adapter seal	1
K200	07-14		11241972	Coupling, 11 tooth, 16/32 pitch	1
K300	07-14		11165482	Flange cover	1
K350	07-14		370247	Screw	2
K400	07-14		11000819	Screw	4
K500	07-14		141105	Thrust washer	1

Order code: H2

K100	07-14		140927	Adapter flange, SAE A	1
K150	07-14		11029873	Adapter seal	1
K200	07-14		11241931	Coupling, 9 tooth, 16/32 pitch	1
K300	07-14		11165482	Flange cover	1
K350	07-14		370247	Screw	2
K400	07-14		11000819	Screw	4
K500	07-14		141105	Thrust washer	1

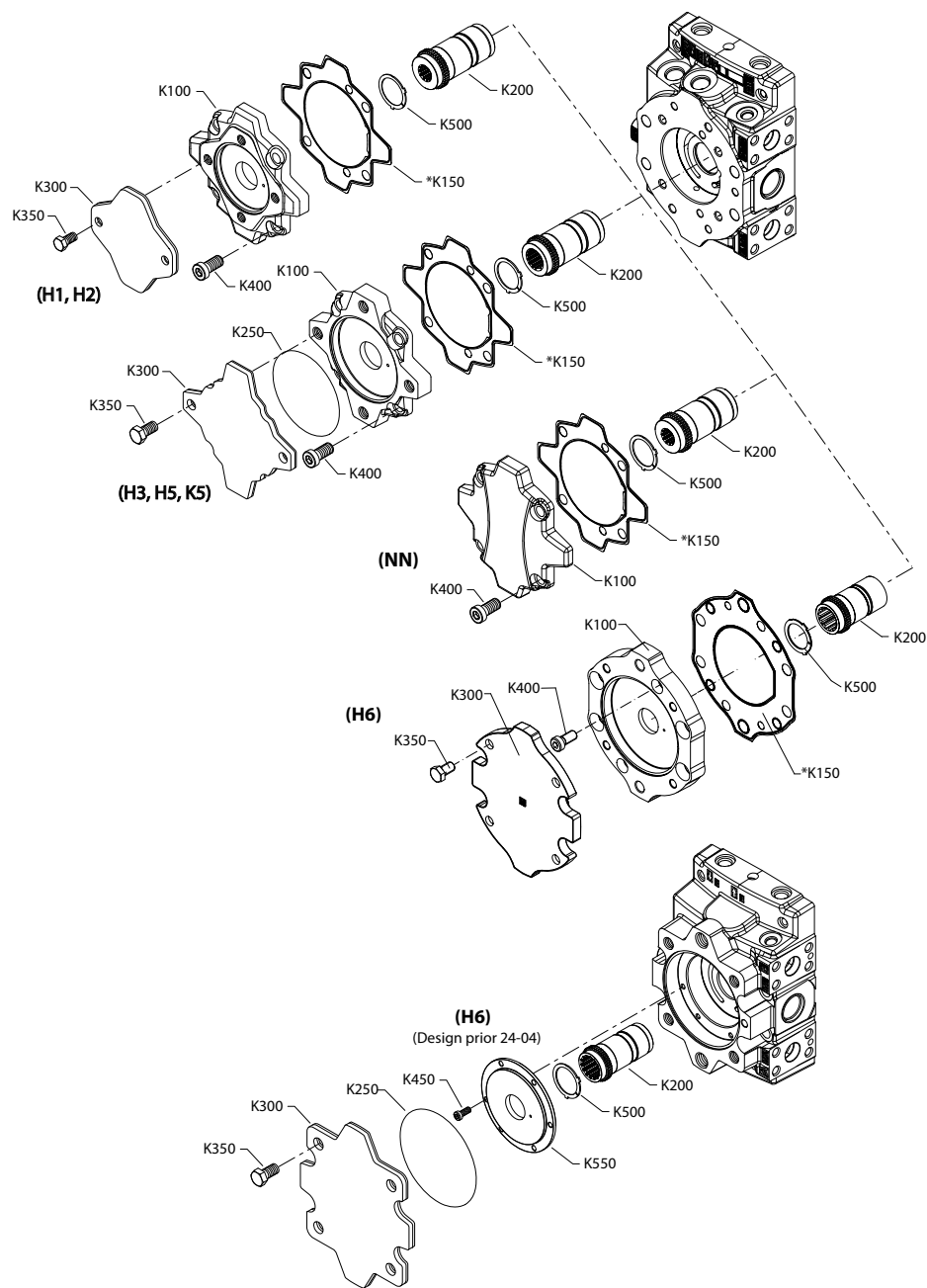
Order code: H3

K100	07-14		141240	Adapter flange, SAE B	1
K150	07-14		11029873	Adapter seal	1
K200	07-14		11241973	Coupling, 13 tooth, 16/32 pitch	1
K250	07-14	08-35	327627-S (9004104-1540)	O-ring (<i>SB-2008-038</i> on page 175)	1
K300	07-14		11165484	Flange cover (<i>SB-2008-038</i> on page 175)	1
K350	07-14		509528	Screw	2
K400	07-14		11000819	Screw	4
K500	07-14		141105	Thrust washer	1

**Note**

Parts continue to the next 2 pages.

Parts configuration



* Included in overhaul seal kit Q210

Order code: H5

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
K100	07-14		141240	Adapter flange, SAE B	1
K150	07-14		11029873	Adapter seal	1
K200	07-14		11241975	Coupling, 15 tooth, 16/32 pitch	1
K250	07-14	08-35	327627-S (9004104-1540)	O-ring (<i>SB-2008-038</i> on page 175)	1
K300	07-14		11165484	Flange cover (<i>SB-2008-038</i> on page 175)	1
K350	07-14		509528	Screw	2
K400	07-14		11000819	Screw	4
K500	07-14		141105	Thrust washer	1

Order code: H6

K100	24-04		11299436	Adapter flange	1
K150	24-04		11299460	Adapter seal	1
K200	07-14		11241974	Coupling, 14 tooth, 12/24 pitch	1
K250	07-14	08-35	056739 (9004104-1580)	O-ring (<i>SB-2008-038</i> on page 175)	1
K300	24-04		1130670	Flange cover (<i>SB-2024-004</i> on page 198)	1
K300	07-14		11245482	Flange cover (<i>SB-2008-038</i> on page 175)	1
K350	07-14		509528	Screw	4
K400	24-04		11000819	Screw	2
K450	07-14	24-03	376749	Screw	6
K500	07-14		141105	Thrust washer	1
K550	07-14	24-03	11149453	Charge pump cover	1

Order code: K5

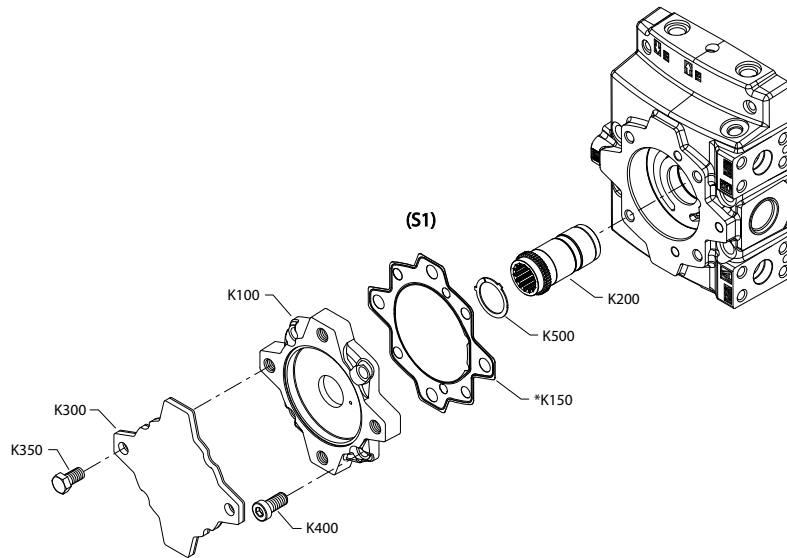
K100	18-13		11176495	Adapter flange	1
K150	18-13		11029873	Adapter seal	1
K200	18-13		11241975	Coupling, 15 tooth 16/32 pitch	1
K300	18-13		11165484	Flange cover	1
K350	18-13		509528	Screw	2
K400	18-13		11000819	Screw	4
K500	18-13		141105	Thrust washer	1

Order code: NN

K100	07-14		141249	Adapter flange, no pad	1
K150	07-14		11029873	Adapter seal	1
K200	07-14		11241931	Coupling, 9 tooth, 16/32 pitch	1
K400	07-14		11000819	Screw	4
K500	07-14		141105	Thrust washer	1

H1P 69/78cc aux mounting S1

Parts configuration



Note

Generic end cap shown.

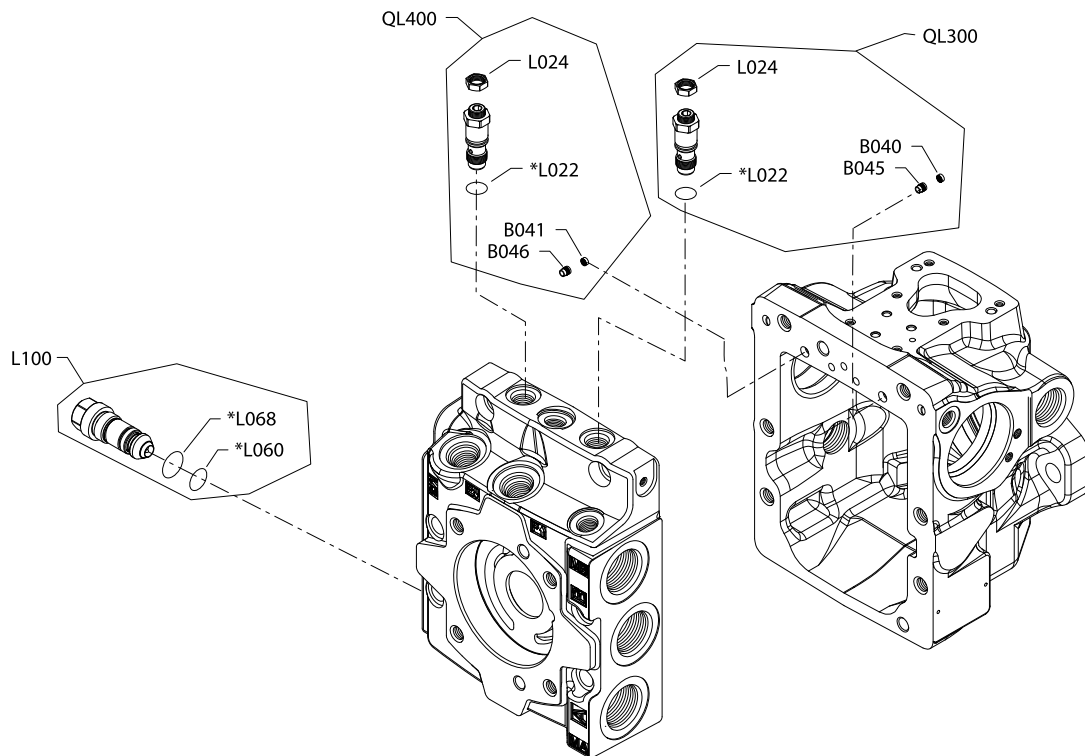
* Included in overhaul seal kit Q210

Order code: S1

K100	11-17		141240	Adapter flange, SAE B	1
K150	11-17		11029873	Adapter seal	1
K200	11-17		11241974	Coupling, 14 tooth, 12/24 pitch	1
K300	11-17		11023746	Flange cover	1
K350	11-17		509528	Screw	2
K400	11-17		11000819	Screw	4
K500	11-17		141105	Thrust washer	1

High pressure setting

H1P 69/78cc high pressure setting F01-J45 (port A)



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
L060	07-14		141109	O-ring	1
L068	07-14		11052215	O-ring	1

Order code: F01

B040	20-40		140967	Screen (<i>SB-2020-029</i> on page 193)	1
B041	20-40		140967	Screen (<i>SB-2020-029</i> on page 193)	1
B045	20-40		11062684	Screen retainer (<i>SB-2020-029</i> on page 193)	1
B046	20-40		11062684	Screen retainer (<i>SB-2020-029</i> on page 193)	1
L022	07-14		041152	O-ring	1
L024	13-14		11054668	Nut	1
L100	13-14		11049123	High pressure relief valve, 250 bar	1
QL300	13-14		11050482	Pressure limiter kit, adjustable, CCW rotation pump	1
QL400	13-14		11050482	Pressure limiter kit, adjustable, CW rotation pump	1

Order code: F02

B040	20-40		140967	Screen (<i>SB-2020-029</i> on page 193)	1
B041	20-40		140967	Screen (<i>SB-2020-029</i> on page 193)	1
B045	20-40		11062684	Screen retainer (<i>SB-2020-029</i> on page 193)	1
B046	20-40		11062684	Screen retainer (<i>SB-2020-029</i> on page 193)	1
L022	07-14		041152	O-ring	1
L024	13-14		11054668	Nut	1
L100	13-14		11049125	High pressure relief valve, 300 bar	1
QL300	13-14		11050482	Pressure limiter kit, adjustable, CCW rotation pump	1
QL400	13-14		11050482	Pressure limiter kit, adjustable, CW rotation pump	1

Order code: F03

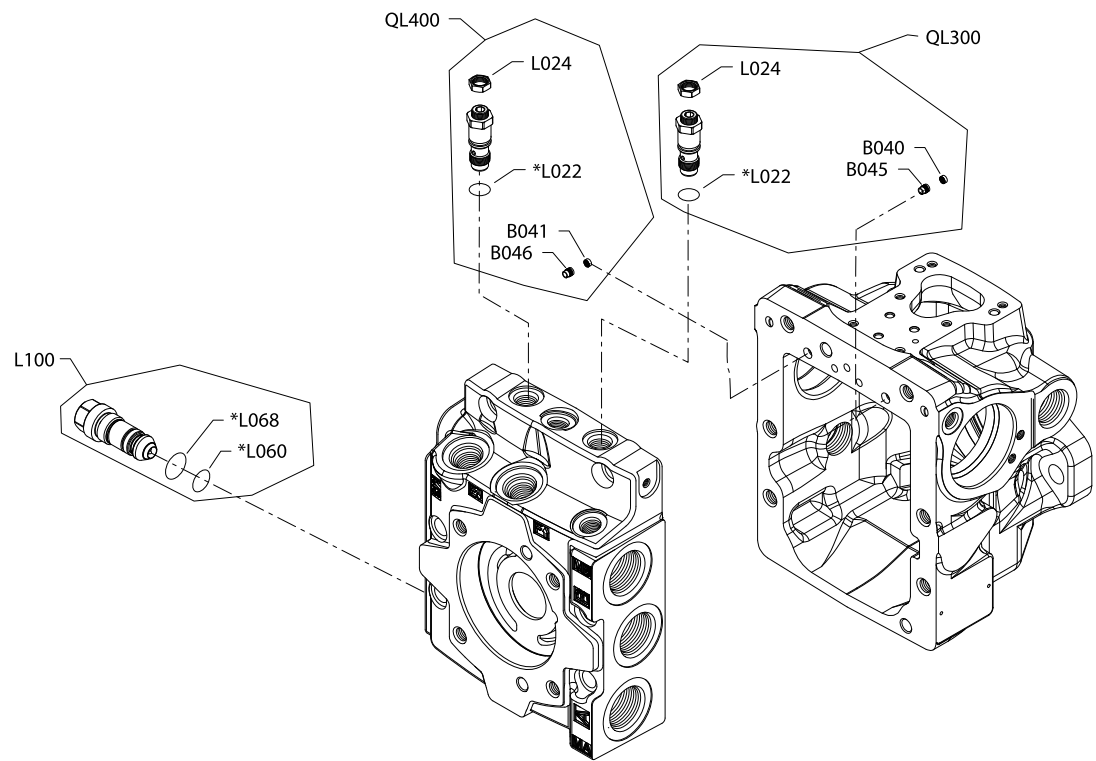
B040	20-40		140967	Screen (<i>SB-2020-029</i> on page 193)	1
B041	20-40		140967	Screen (<i>SB-2020-029</i> on page 193)	1
B045	20-40		11062684	Screen retainer (<i>SB-2020-029</i> on page 193)	1
B046	20-40		11062684	Screen retainer (<i>SB-2020-029</i> on page 193)	1
L022	07-14		041152	O-ring	1
L024	13-14		11054668	Nut	1
L100	13-14		11049127	High pressure relief valve, 350 bar	1
QL300	13-14		11050482	Pressure limiter kit, adjustable, CCW rotation pump	1
QL400	13-14		11050482	Pressure limiter kit, adjustable, CW rotation pump	1



Note

Parts continue to the next 2 pages.

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
L060	07-14		141109	O-ring	1
L068	07-14		11052215	O-ring	1

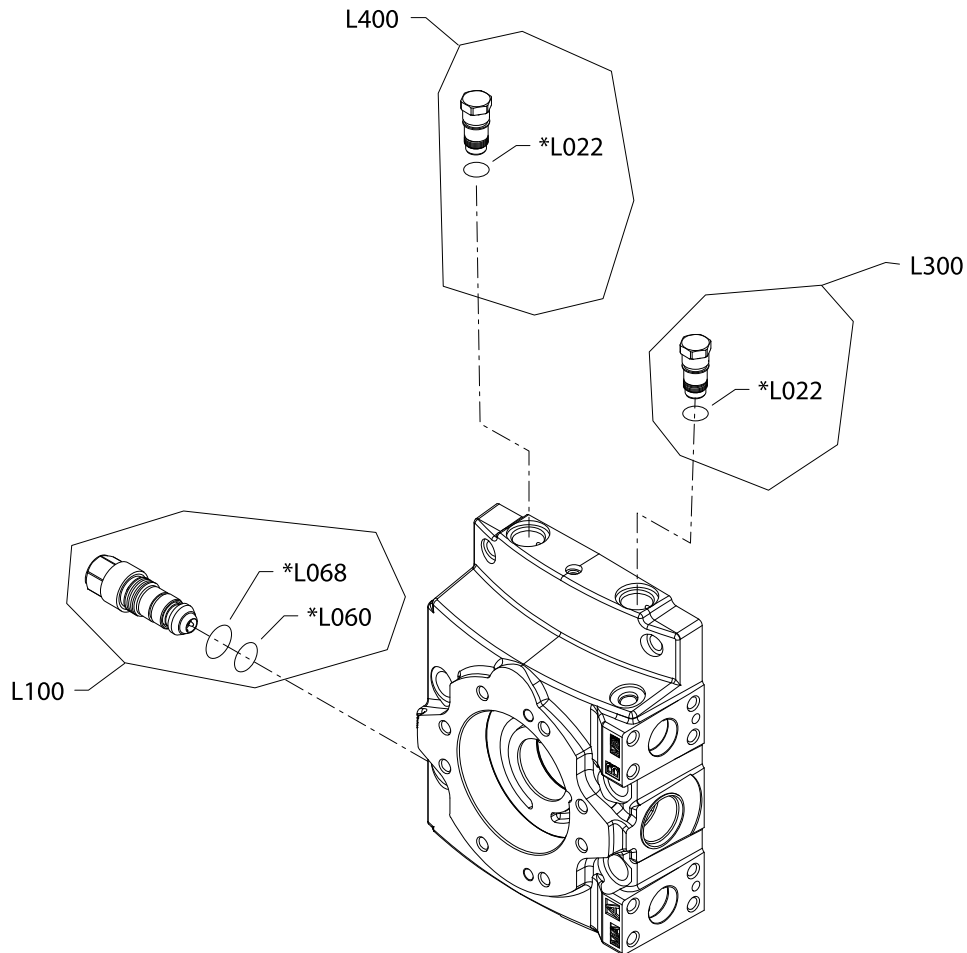
Order code: F04

B040	20-40		140967	Screen (<i>SB-2020-029</i> on page 193)	1
B041	20-40		140967	Screen (<i>SB-2020-029</i> on page 193)	1
B045	20-40		11062684	Screen retainer (<i>SB-2020-029</i> on page 193)	1
B046	20-40		11062684	Screen retainer (<i>SB-2020-029</i> on page 193)	1
L022	07-14		041152	O-ring	1
L024	13-14		11054668	Nut	1
L100	13-14		11252674	High pressure relief valve, 400 bar	1
QL300	13-14		11050482	Pressure limiter kit, adjustable, CCW rotation pump	1
QL400	13-14		11050482	Pressure limiter kit, adjustable, CW rotation pump	1

Order code: J45

L100	13-14		11049131	High pressure relief valve, 450 bar	1
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H1P 69/78cc high pressure setting K18-K48 (port A)



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
L022	07-14		041152	O-ring	1
L060	07-14		141109	O-ring	1
L068	07-14		11052215	O-ring	1
L300	07-14		11002291	Pressure limiter plug assembly, CCW rotation pump	1
L400	07-14		11002291	Pressure limiter plug assembly, CW rotation pump	1

Order code: K18

L100	07-14		11049120	High pressure relief valve, 180 bar	1
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Order code: K20

L100	07-14		11049121	High pressure relief valve, 200 bar	1
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Order code: K23

L100	07-14		11049122	High pressure relief valve, 230 bar	1
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Order code: K25

L100	07-14		11049123	High pressure relief valve, 250 bar	1
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Order code: K28

L100	07-14		11049124	High pressure relief valve, 280 bar	1
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Order K30

L100	07-14		11049125	High pressure relief valve, 300 bar	1
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Order code: K33

L100	07-14		11049126	High pressure relief valve, 330 bar	1
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Order code: K35

L100	07-14		11049127	High pressure relief valve, 350 bar	1
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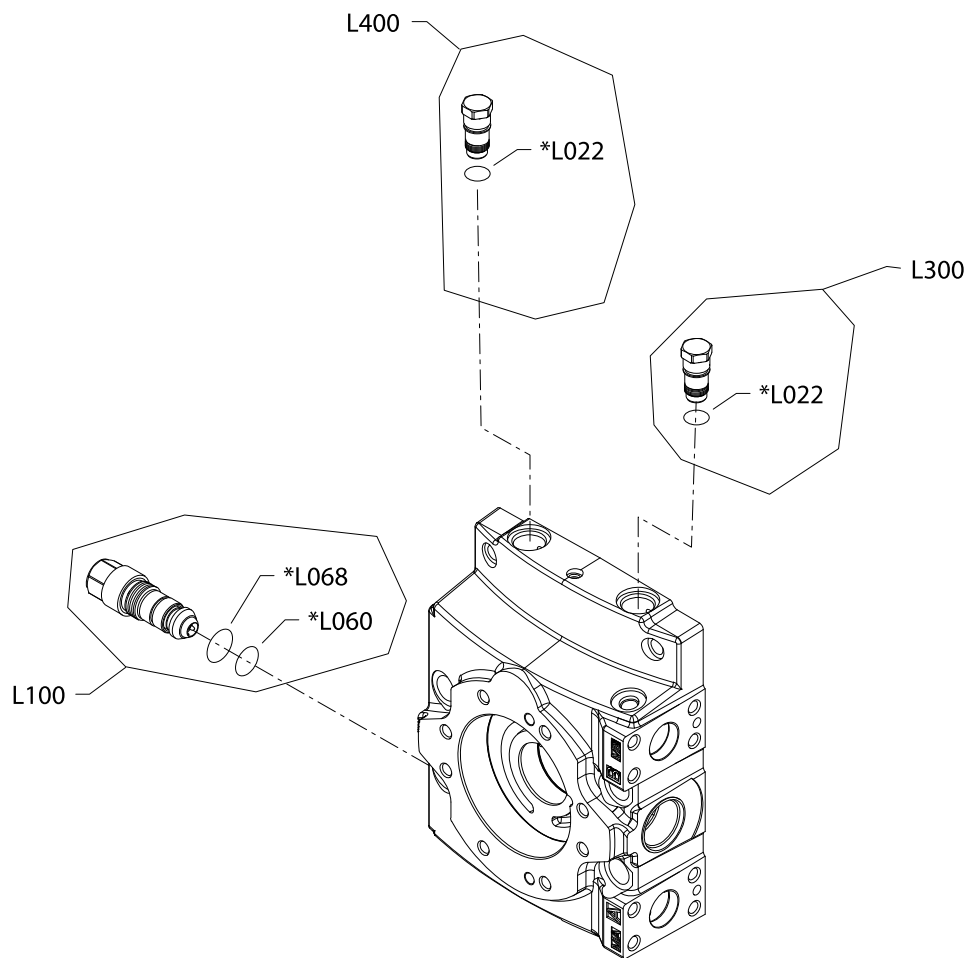
Order code: K38

L100	07-14		11049128	High pressure relief valve, 380 bar	1
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Parts continue to the next 2 pages.

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
L022	07-14		041152	O-ring	1
L060	07-14		141109	O-ring	1
L068	07-14		11052215	O-ring	1
L300	07-14		11002291	Pressure limiter plug assembly, CCW rotation pump	1
L400	07-14		11002291	Pressure limiter plug assembly, CW rotation pump	1

Order code: K40

L100	07-14		11049129	High pressure relief valve, 400 bar	1
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Order code: K42

L100	07-14		11049130	High pressure relief valve, 420 bar	1
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Order code: K43

L100	07-14		11166242	High pressure relief valve, 430 bar	1
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Order code: K45

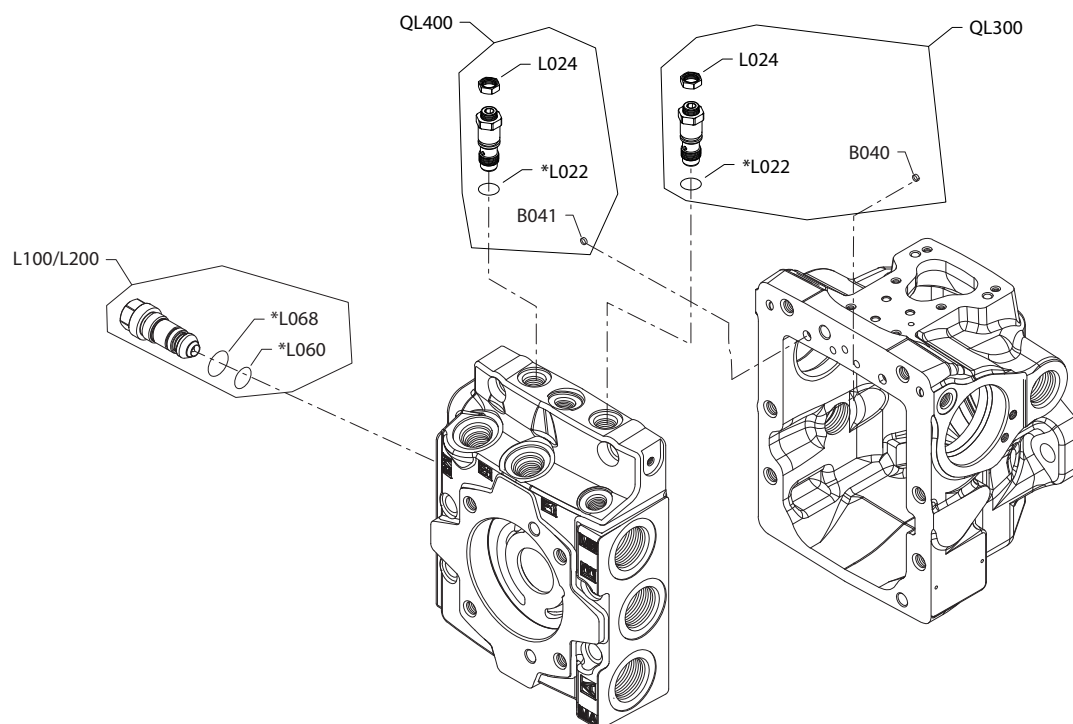
L100	07-14		11049131	High pressure relief valve, 450 bar	1
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Order code: K48

L100	07-14		11049132	High pressure relief valve, 480 bar	1
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H1P 69/78cc high pressure setting L15-L33 (port A)

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
B040	20-40		140967	Screen (<i>SB-2020-029</i> on page 193)	1
B041	20-40		140967	Screen (<i>SB-2020-029</i> on page 193)	1
B045	20-40		11062684	Screen retainer (<i>SB-2020-029</i> on page 193)	1
B046	20-40		11062684	Screen retainer (<i>SB-2020-029</i> on page 193)	1
L022	07-14		041152	O-ring	1
L024	07-14		11054668	Nut	1
L060	07-14		141109	O-ring	1
L068	07-14		11052215	O-ring	1
QL300	07-14		11050482	Pressure limiter kit, adjustable, CCW rotation pump	1
QL400	07-14		11050482	Pressure limiter kit, adjustable, CW rotation pump	1

Order code: L15

L100	07-14		11049121	High pressure relief valve, 200 bar	1
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Order code: L18

L100	07-14		11049122	High pressure relief valve, 230 bar	1
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Order code: L20

L100	07-14		11049123	High pressure relief valve, 250 bar	1
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Order code: L23

L100	07-14		11049124	High pressure relief valve, 280 bar	1
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Order code: L25

L100	07-14		11049125	High pressure relief valve, 300 bar	1
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Order code: L28

L100	07-14		11049126	High pressure relief valve, 330 bar	1
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Order code: L30, L31

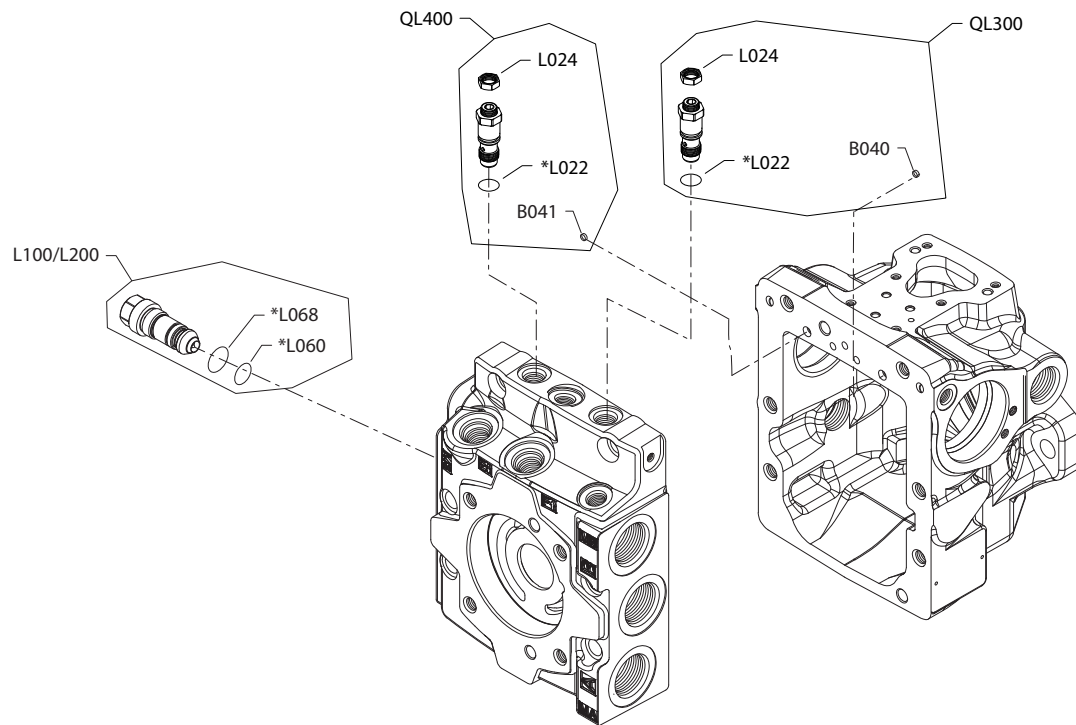
L100	07-14		11049127	High pressure relief valve, 350 bar	1
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Order code: L33

L100	07-14		11252675	High pressure relief valve, 380 bar	1
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H1P 69/78cc high pressure setting L35-L45 (port A)

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
B040	20-40		140967	Screen (<i>SB-2020-029</i> on page 193)	1
B041	20-40		140967	Screen (<i>SB-2020-029</i> on page 193)	1
B045	20-40		11062684	Screen retainer (<i>SB-2020-029</i> on page 193)	1
B046	20-40		11062684	Screen retainer (<i>SB-2020-029</i> on page 193)	1
L022	07-14		041152	O-ring	1
L024	07-14		11054668	Nut	1
L060	07-14		141109	O-ring	1
L068	07-14		11052215	O-ring	1
QL300	07-14		11050482	Pressure limiter kit, adjustable, CCW rotation pump	1
QL400	07-14		11050482	Pressure limiter kit, adjustable, CW rotation pump	1

Order code: L35

L100	07-14		11252674	High pressure relief valve, 400 bar	1
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Order code: L38

L100	07-14		11252673	High pressure relief valve, 420 bar	1
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Order code: L40

L100	07-14		11252670	High pressure relief valve, 450 bar	1
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Order code: L41

L100	07-14		11252670	High pressure relief valve, 450 bar	1
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Order code: L42

L100	07-14		11252670	High pressure relief valve, 450 bar	1
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Order code: L43

L100	07-14		11252668	High pressure relief valve, 480 bar	1
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Order code: L44

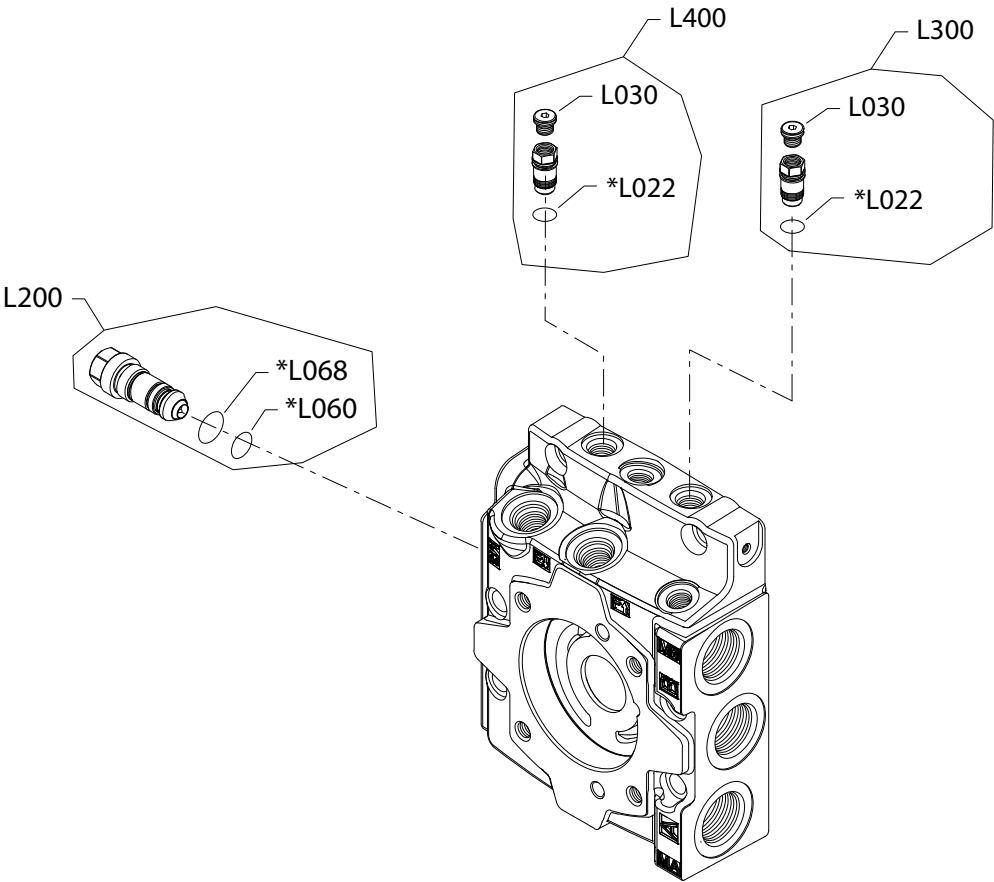
L100	07-14		11252668	High pressure relief valve, 480 bar	1
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Order code: L45

L100	07-14		11252668	High pressure relief valve, 480 bar	1
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H1P 69/78cc high pressure setting S45 (port A)

Parts configuration



 Note

Generic end cap shown.

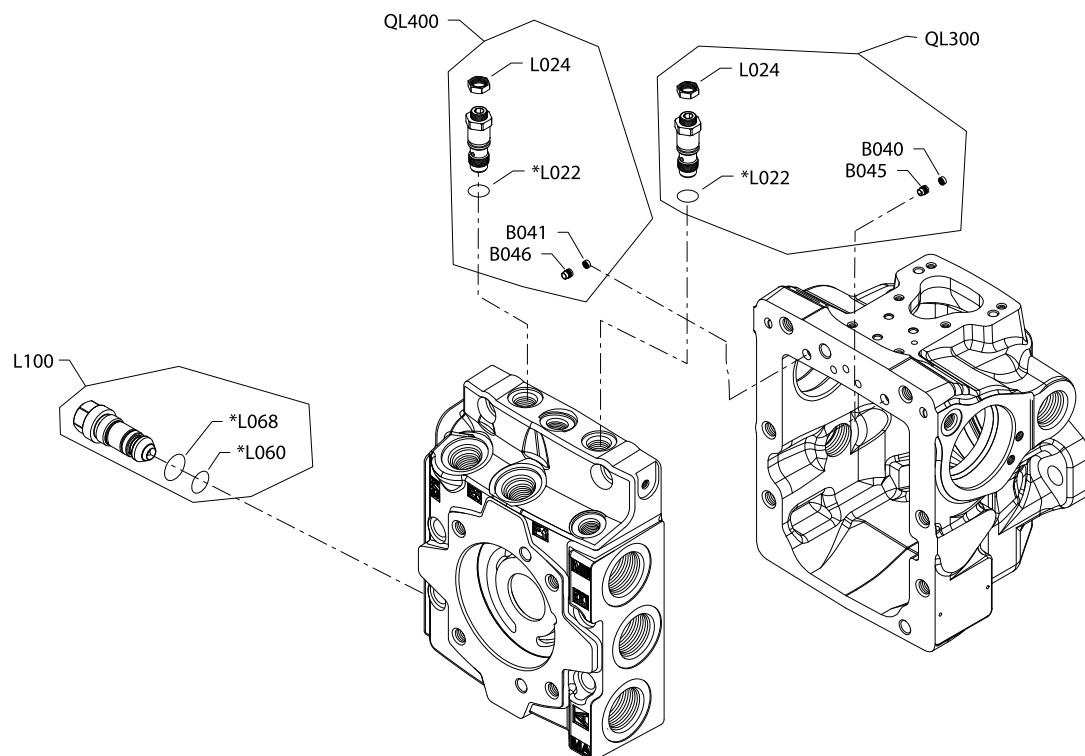
* Included in overhaul seal kit Q210

Order code: S45

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
L022	15-05		041152	O-ring	1
L030	15-05		140644	Plug assembly	1
L060	15-05		141109	O-ring	1
L068	15-05		11052215	O-ring	1
L100	15-05		11049131	High pressure relief valve, 450 bar	1
L300	15-05		11049809	Pressure sensor adapter, CCW rotation pump	1
L400	15-05		11049809	Pressure sensor adapter, CW rotation pump	1

H1P 69/78cc high pressure setting F01-J45 (port B)

Parts configuration



Note

Generic end caps shown.

* Included in overhaul seal kit Q210

Order code: F01

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 193)	1
B041	20-40		140967	Screen (<i>SB-2020-029</i> on page 193)	1
B045	20-40		11062684	Screen retainer (<i>SB-2020-029</i> on page 193)	1
B046	20-40		11062684	Screen retainer (<i>SB-2020-029</i> on page 193)	1
L022	13-14		041152	O-ring	1
L024	13-14		11054668	Nut	1
L060	13-14		141109	O-ring	1
L068	13-14		11052215	O-ring	1
L200	13-14		11049123	High pressure relief valve, 250 bar	1
QL300	13-14		11050482	Pressure limiter kit, adjustable, CW rotation pump	1
QL400	13-14		11050482	Pressure limiter kit, adjustable, CCW rotation pump	1

Order code: F02

B040	20-40		140967	Screen (<i>SB-2020-029</i> on page 193)	1
B041	20-40		140967	Screen (<i>SB-2020-029</i> on page 193)	1
B045	20-40		11062684	Screen retainer (<i>SB-2020-029</i> on page 193)	1
B046	20-40		11062684	Screen retainer (<i>SB-2020-029</i> on page 193)	1
L022	07-14		504207	O-ring	1
L024	13-14		11054668	Nut	1
L060	13-14		141109	O-ring	1
L068	13-14		11052215	O-ring	1
L200	13-14		11049125	High pressure relief valve, 300 bar	1
QL300	13-14		11050482	Pressure limiter kit, adjustable, CW rotation pump	1
QL400	13-14		11050482	Pressure limiter kit, adjustable, CCW rotation pump	1

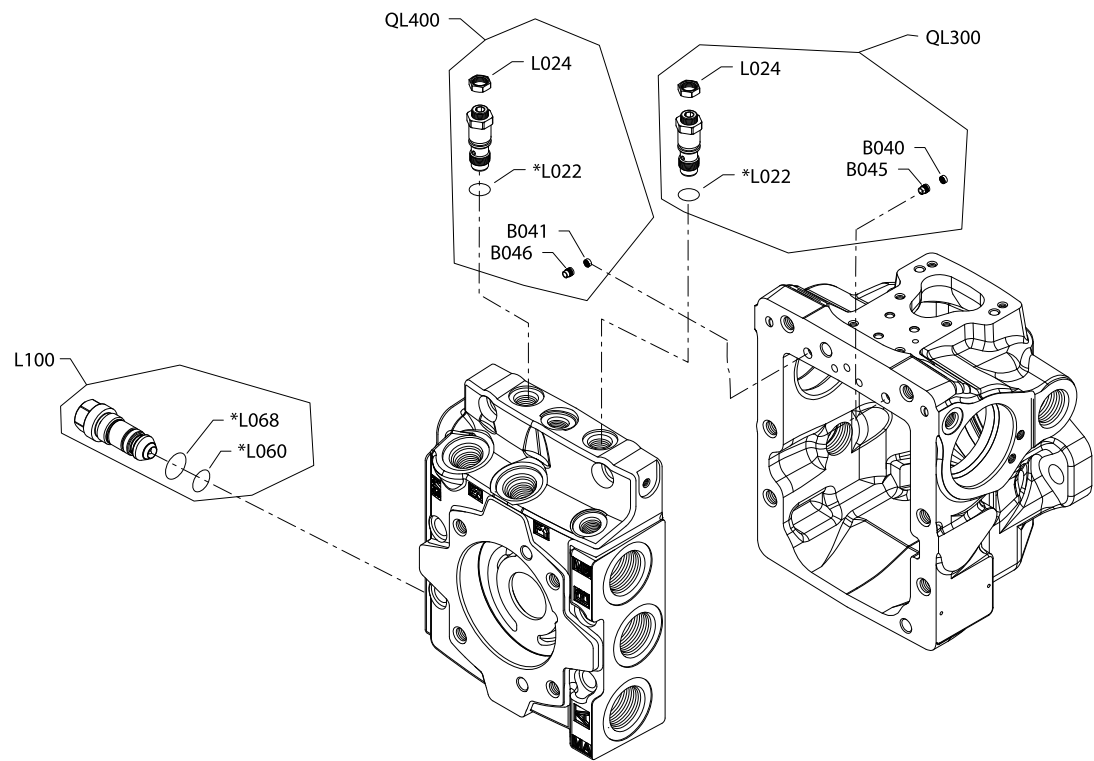
Order code: F03

B040	20-40		140967	Screen (<i>SB-2020-029</i> on page 193)	1
B041	20-40		140967	Screen (<i>SB-2020-029</i> on page 193)	1
B045	20-40		11062684	Screen retainer (<i>SB-2020-029</i> on page 193)	1
B046	20-40		11062684	Screen retainer (<i>SB-2020-029</i> on page 193)	1
L022	07-14		504207	O-ring	1
L024	13-14		11054668	Nut	1
L060	13-14		141109	O-ring	1
L068	13-14		11052215	O-ring	1
L200	13-14		11049127	High pressure relief valve, 350 bar	1
QL300	13-14		11050482	Pressure limiter kit, adjustable, CW rotation pump	1
QL400	13-14		11050482	Pressure limiter kit, adjustable, CCW rotation pump	1



Parts continue to the next 2 pages.

Parts configuration



 Note

Generic end caps shown.

* Included in overhaul seal kit Q210

Order code: F04

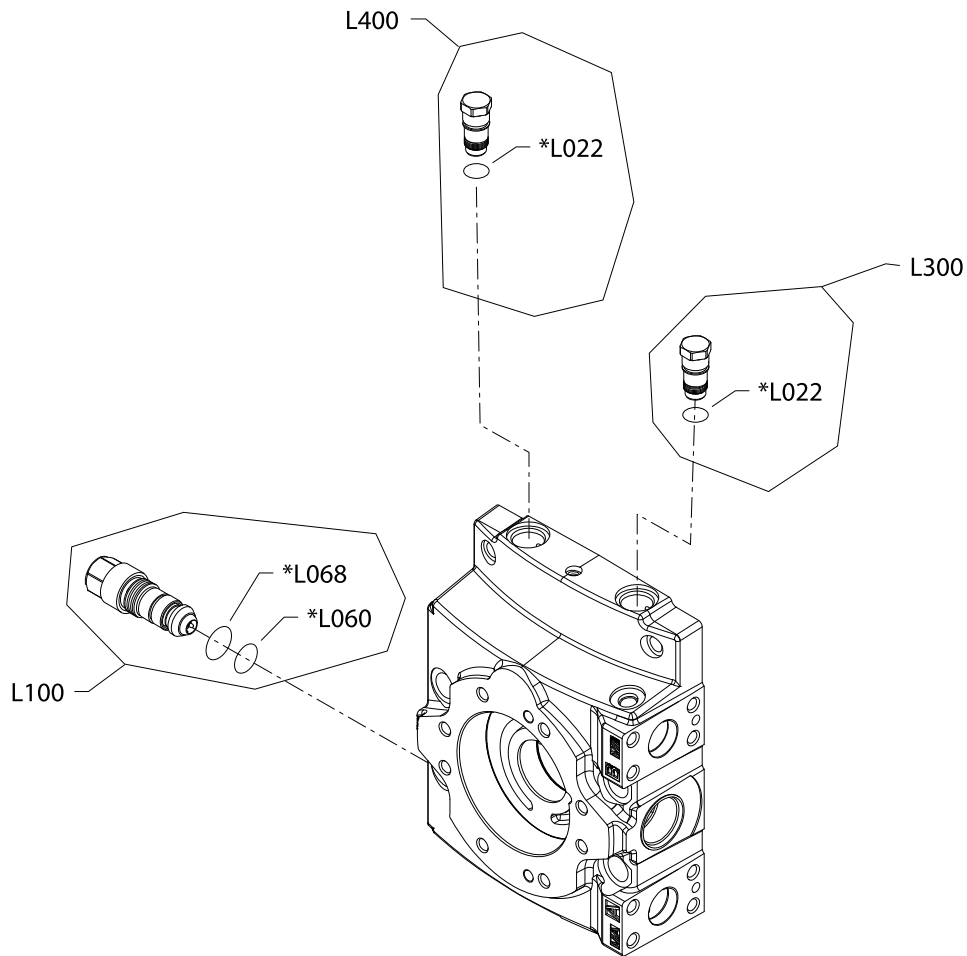
Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
B040	20-40		140967	Screen (<i>SB-2020-029</i> on page 193)	1
B041	20-40		140967	Screen (<i>SB-2020-029</i> on page 193)	1
B045	20-40		11062684	Screen retainer (<i>SB-2020-029</i> on page 193)	1
B046	20-40		11062684	Screen retainer (<i>SB-2020-029</i> on page 193)	1
L022	07-14		504207	O-ring	1
L024	13-14		11054668	Nut	1
L060	13-14		141109	O-ring	1
L068	13-14		11052215	O-ring	1
L200	13-14		11252674	High pressure relief valve, 400 bar	1
QL300	13-14		11050482	Pressure limiter kit, adjustable, CW rotation pump	1
QL400	13-14		11050482	Pressure limiter kit, adjustable, CCW rotation pump	1

Order code: J45

L060	13-14		141109	O-ring	1
L068	13-14		11052215	O-ring	1
L200	13-14		11049131	High pressure relief valve, 450 bar	1

H1P 69/78cc high pressure setting K18-K48 (port B)

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
L022	07-14		504207	O-ring	1
L060	07-14		365023	O-ring	1
L068	07-14		11052201	O-ring	1
L300	07-14		11002291	Pressure limiter plug assembly, CW rotation pump	1
L400	07-14		11002291	Pressure limiter plug assembly, CCW rotation pump	1

Order code: K18

L200	07-14		11049120	High pressure relief valve, 180 bar	1
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Order code: K20

L200	07-14		11049121	High pressure relief valve, 200 bar	1
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Order code: K23

L200	07-14		11049122	High pressure relief valve, 230 bar	1
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Order code: K25

L200	07-14		11049123	High pressure relief valve, 250 bar	1
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Order code: K28

L200	07-14		11049124	High pressure relief valve, 280 bar	1
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Order code: K30

L200	07-14		11049125	High pressure relief valve, 300 bar	1
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Order code: K33

L200	07-14		11049126	High pressure relief valve, 330 bar	1
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Order code: K35

L200	07-14		11049127	High pressure relief valve, 350 bar	1
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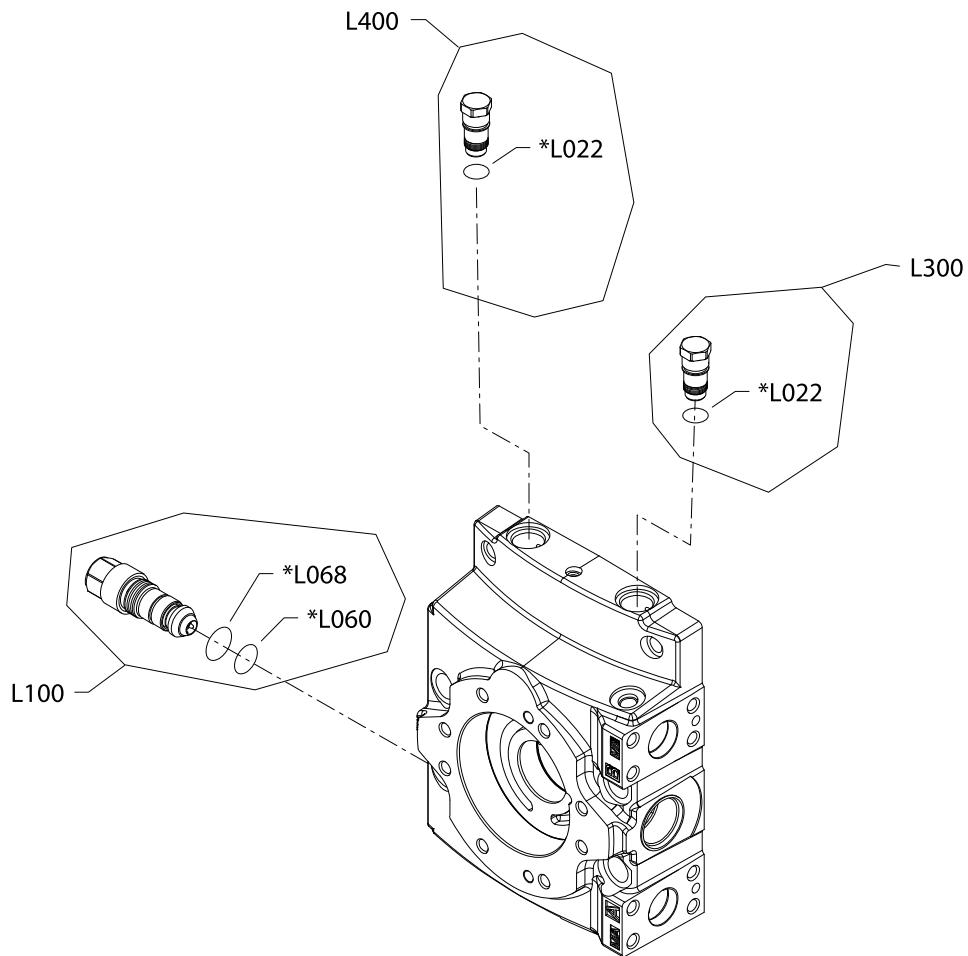
Order code: K38

L200	07-14		11049128	High pressure relief valve, 380 bar	1
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Parts continue to the next 2 pages.

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
L022	07-14		504207	O-ring	1
L060	07-14		365023	O-ring	1
L068	07-14		11052201	O-ring	1
L300	07-14		11002291	Pressure limiter plug assembly, CW rotation pump	1
L400	07-14		11002291	Pressure limiter plug assembly, CCW rotation pump	1

Order code: K40

L200	07-14		11049129	High pressure relief valve, 400 bar	1
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Order code: K42

L200	07-14		11049130	High pressure relief valve, 420 bar	1
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Order code: K43

L200	07-14		11166242	High pressure relief valve, 430 bar	1
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Order code: K45

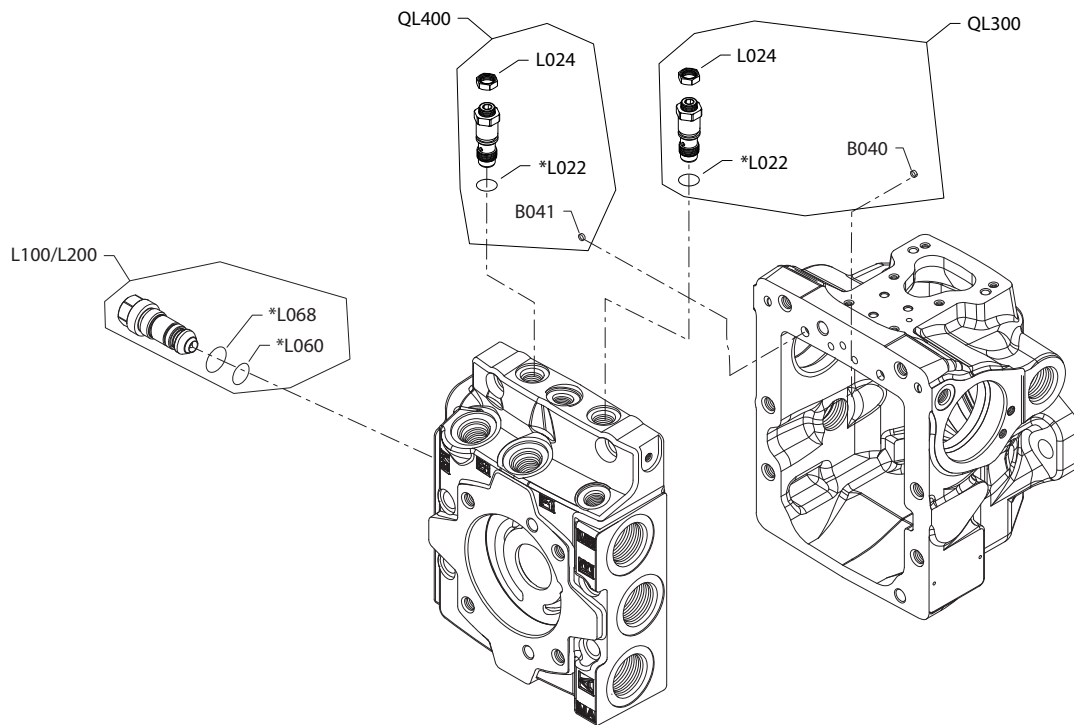
L200	07-14		11049131	High pressure relief valve, 450 bar	1
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Order code: K48

L200	07-14		11049132	High pressure relief valve, 480 bar	1
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H1P 69/78cc high pressure setting L15-L31 (port B)

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
B040	20-40		140967	Screen (<i>SB-2020-029</i> on page 193)	1
B041	20-40		140967	Screen (<i>SB-2020-029</i> on page 193)	1
B045	20-40		11062684	Screen retainer (<i>SB-2020-029</i> on page 193)	1
B046	20-40		11062684	Screen retainer (<i>SB-2020-029</i> on page 193)	1
L022	07-14		041152	O-ring	1
L024	07-14		11054668	Nut	1
L060	07-14		365023	O-ring	1
L068	07-14		11052201	O-ring	1
QL300	07-14		11050482	Pressure limiter kit, adjustable, CW rotation pump	1
QL400	07-14		11050482	Pressure limiter kit, adjustable, CCW rotation pump	1

Order code: L15

L200	07-14		11049121	High pressure relief valve, 200 bar	1
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Order code: L18

L200	07-14		11049122	High pressure relief valve, 230 bar	1
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Order code: L20

L200	07-14		11049123	High pressure relief valve, 250 bar	1
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Order code: L23

L200	07-14		11049124	High pressure relief valve, 280 bar	1
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Order code: L25

L200	07-14		11049125	High pressure relief valve, 300 bar	1
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Order code: L28

L200	07-14		11049126	High pressure relief valve, 330 bar	1
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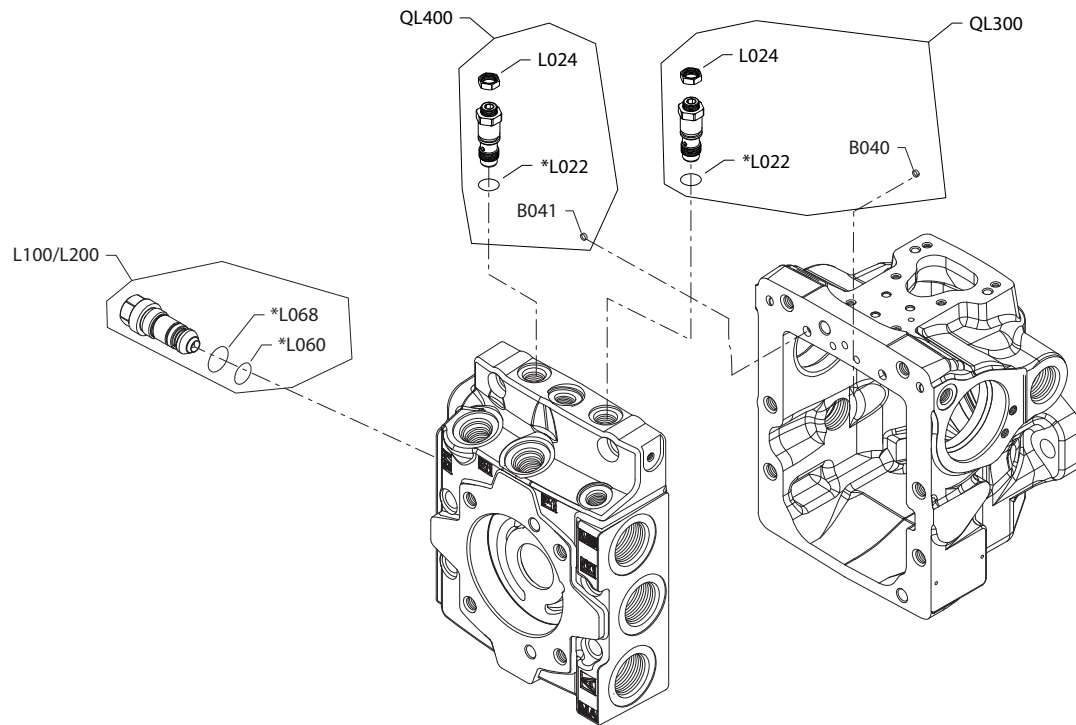
Order code: L30

L200	07-14		11049127	High pressure relief valve, 350 bar	1
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Order code: L31

L200	07-14		11049128	High pressure relief valve, 350 bar	1
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H1P 69/78cc high pressure setting L33-L45 (port B)



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
B040	20-40		140967	Screen (<i>SB-2020-029</i> on page 193)	1
B041	20-40		140967	Screen (<i>SB-2020-029</i> on page 193)	1
B045	20-40		11062684	Screen retainer (<i>SB-2020-029</i> on page 193)	1
B046	20-40		11062684	Screen retainer (<i>SB-2020-029</i> on page 193)	1
L022	07-14		041152	O-ring	1
L024	07-14		11054668	Nut	1
L060	07-14		365023	O-ring	1
L068	07-14		11052201	O-ring	1
QL300	07-14		11050482	Pressure limiter kit, adjustable, CW rotation pump	1
QL400	07-14		11050482	Pressure limiter kit, adjustable, CCW rotation pump	1

Order code: L33

L200	07-14		11252675	High pressure relief valve, 380 bar	1
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Order code: L35

L200	07-14		11252674	High pressure relief valve, 400 bar	1
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Order code: L38

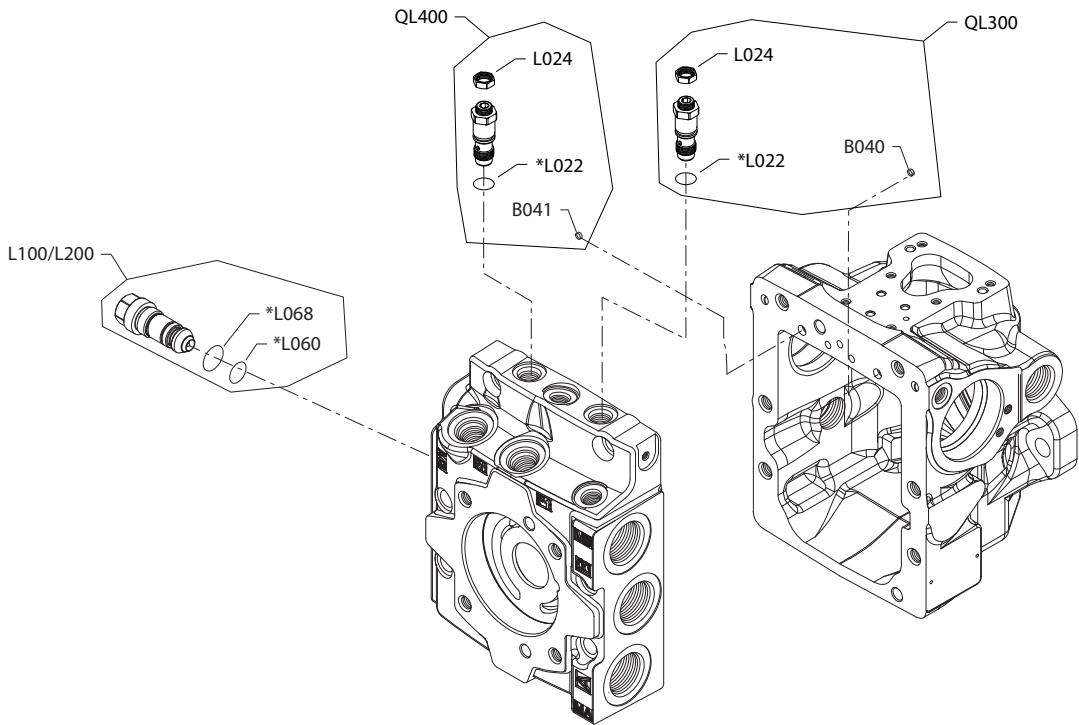
L200	07-14		11252673	High pressure relief valve, 420 bar	1
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Note

Parts continue to the next 2 pages.

Parts configuration L33-L45 (B port)



 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
B040	20-40		140967	Screen (<i>SB-2020-029</i> on page 193)	1
B041	20-40		140967	Screen (<i>SB-2020-029</i> on page 193)	1
B045	20-40		11062684	Screen retainer (<i>SB-2020-029</i> on page 193)	1
B046	20-40		11062684	Screen retainer (<i>SB-2020-029</i> on page 193)	1
L022	07-14		041152	O-ring	1
L024	07-14		11054668	Nut	1
L060	07-14		365023	O-ring	1
L068	07-14		11052201	O-ring	1
QL300	07-14		11050482	Pressure limiter kit, adjustable, CW rotation pump	1
QL400	07-14		11050482	Pressure limiter kit, adjustable, CCW rotation pump	1

Order code: L40

L200	07-14		11252670	High pressure relief valve, 450 bar	1
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Order code: L41

L200	07-14		11252670	High pressure relief valve, 450 bar	1
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Order code: L42

L200	07-14		11252670	High pressure relief valve, 450 bar	1
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Order code: L43

L200	07-14		11252668	High pressure relief valve, 480 bar	1
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Order code: L44

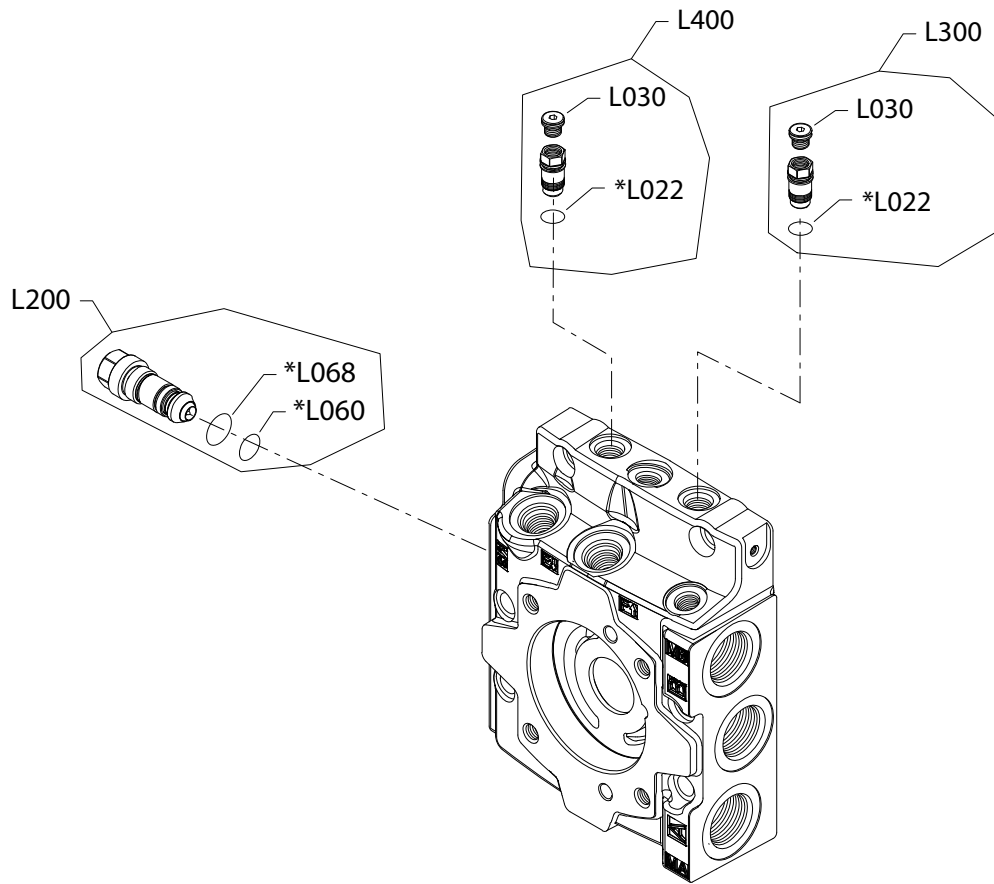
L200	07-14		11252668	High pressure relief valve, 480 bar	1
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Order code: L45

L200	07-14		11252668	High pressure relief valve, 480 bar	1
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H1P 69/78cc high pressure setting S45 (port B)

Parts configuration



Note

Generic end cap shown.

* Included in overhaul seal kit Q210

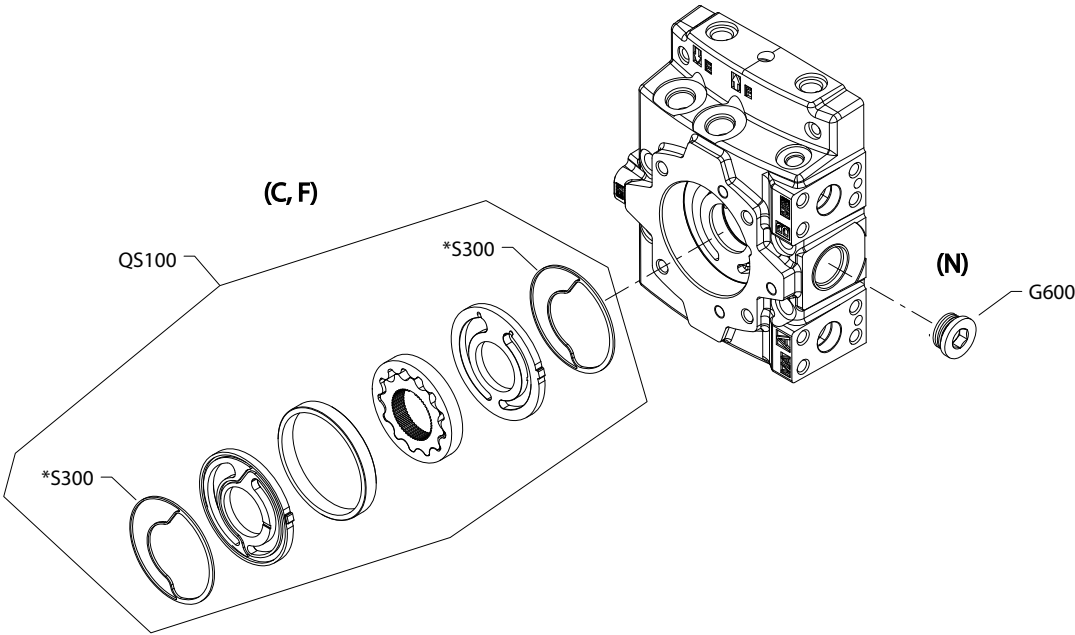
Order code: S45

Item	Date Begin	Date End	Part Number	Part name	Qty. per Model/Kit
L022	15-05		041152	O-ring	1
L030	15-05		140644	Plug assembly	1
L060	07-14		365023	O-ring	1
L068	07-14		11052201	O-ring	1
L200	15-05		11049131	High pressure relief valve, 450 bar	1
L300	15-05		11049809	Pressure sensor adapter, CW rotation pump	1
L400	15-05		11049809	Pressure sensor adapter, CCW rotation pump	1

Charge pump

H1P 69/78cc charge pump C-N

Parts configuration



* Included in overhaul seal kit Q210

Order code: C

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
QS100	07-14		11008684	Charge pump kit, 17 cc	1
S300	07-14		11126777	Seal ring (<i>SB-2013-019</i> on page 187)	2

Order code: F

QS100	07-14		11008685	Charge pump kit, 14 cc	1
S300	07-14		11126777	Seal ring (<i>SB-2013-019</i> on page 187)	2

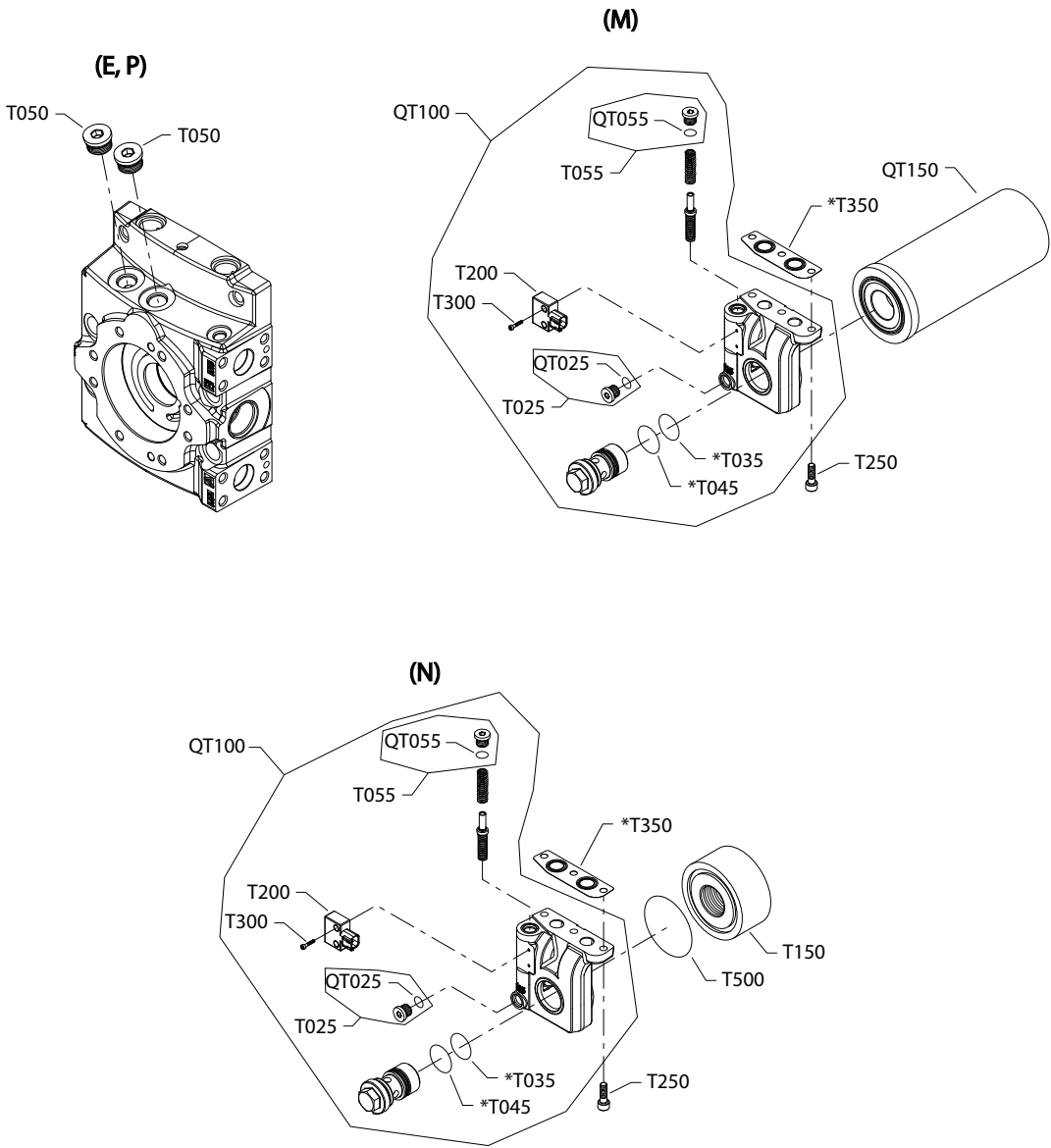
Order code: N

G600	07-14		320002 (9005110-9200)	Plug assembly	1
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Filtration

H1P 69/78cc filtration E-P

Parts configuration



Note

Generic end cap shown.

* Included in overhaul seal kit Q210

Order code: E

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
T050	07-14		315325 (9005110-8700)	Plug assembly	2

Order code: L

No parts

Order code: M

T025	07-14		141269	Plug assembly	2
T035	07-14		761148	O-ring	1
T045	07-14		314500 (9004100-1250)	O-ring	1
QT100	07-14		11127352	Pressure filter adapter assembly	1
T200	07-14		11031852	Filtration sensor	1
T250	07-14		11128665	Screw, M8 x 25	3
T300	07-14		140560	Screw, M3 x 16	2
T350	07-14		140737	Filter adapter gasket	1
QT150	07-14		11004918	Filter assembly	1

Order code: N

T025	09-27		141269	Plug assembly	2
T035	09-27		761148	O-ring	1
T045	09-27		314500 (9004100-1250)	O-ring	1
QT100	09-27		11127352	Pressure filter adapter assembly	1
T150	09-27		11008261	Cover	1
T200	09-27		11031852	Filtration sensor	1
T250	09-27		11128665	Screw, M8 x 25	3
T300	09-27		140560	Screw, M3 x 16	2
T350	09-27		140737	Filter adapter gasket	1
T500	09-27		000943 (9004100-2300)	O-ring	1

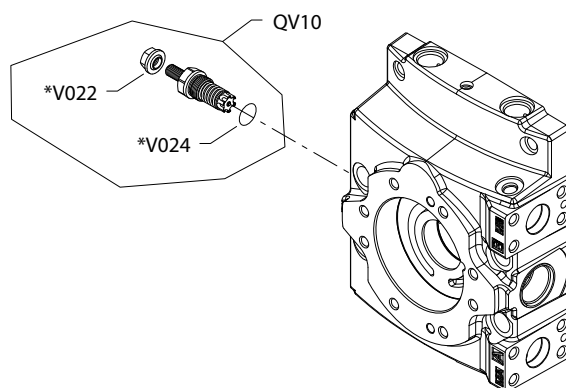
Order code: P

T050	07-14		315325 (9005110-8700)	Plug assembly	2
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Charge pressure relief

H1P 69/78cc charge pressure relief 18-34

Parts configuration



Note

Generic end cap 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	07-14	24-03	11004711	Charge relief valve kit	1
QV10	24-04		111337578	Charge relief valve kit (SB-2024-002A on page 196)	1
V022	07-14	24-03	612291 (9003508-0008)	Seal nut	1
V022	24-04		066159	Seal nut (SB-2024-002A on page 196)	1
V024	07-14		001149 (9004201-6200)	O-ring	1

Order code: 24-34

QV10	07-14	24-03	11017127	Charge relief valve kit	1
QV10	24-04		111337579	Charge relief valve kit (SB-2024-002A on page 196)	1
V022	07-14	24-03	612291 (9003508-0008)	Seal nut	1
V022	24-04		066159	Seal nut (SB-2024-002A on page 196)	1
V024	07-14		001149 (9004201-6200)	O-ring	1

Overhaul seal kit

H1P 69/78cc seal kit

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
Q210	07-14		11178086	Overhaul seal kit, H1P069-078	1
D060	07-14		612291 (9003508-0008)	Seal nut	1
D150	07-14		11227209	Control gasket (<i>SB-2016-033</i> on page 190)	1
D611	07-14	21-12	11066774	O-ring (<i>SB-2021-014</i> on page 195)	2
D611	21-13		11225703	O-ring	2
D612	07-14	21-12	11003126	Plug (<i>SB-2021-014</i> on page 195)	2
D612	21-13		11223708	Plug	2
E020	07-14		11075553	O-ring	2
E025	07-14		11075552	Piston seal ring	2
E250	07-14		140896	O-ring	2
E500	07-14		505412 (9003509-0008)	Seal nut	1
E550	07-14		505412 (9003509-0008)	Seal nut	1
G150	07-14		140902	End cap gasket	1
J250	07-14		140911	Lip seal	1
K150	24-04		11299460	Adapter seal	1
K150	07-14		11029873	Adapter seal	1
L022	07-14		041152	O-ring	2
L060	07-14		141109	O-ring	2
L068	07-14		11052215	O-ring	2
QD26	07-14		11001952	O-ring	2
QD81	07-14		11059551	O-ring	1
QD81	07-14		11152257	O-ring	1
QD751	07-18		001131 (9004201-5000)	O-ring	1
QH131	07-14		11013397	O-ring	1
S300	07-14		11126777	Seal ring	2
T035	07-14		761148	O-ring	1
T045	07-14		314500 (9004100-1250)	O-ring	1
T350	07-14		140737	Filter adapter gasket	1
V022	07-14	24-03	612291 (9003508-0008)	Seal nut	1
V022	24-04		066159	Seal nut	1
V024	07-14		001149 (9004201-6200)	O-ring	1

Service bulletins

SB-2006-030

Products affected

Subject

Control, servo piston and housing

Description

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

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

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

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

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

Models affected

All H1 147 and 165cc pumps

Serial numbers

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

Part numbers affected

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

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

Parts disposition

Interchangeable

SB-2007-033

Products affected

H1 pumps

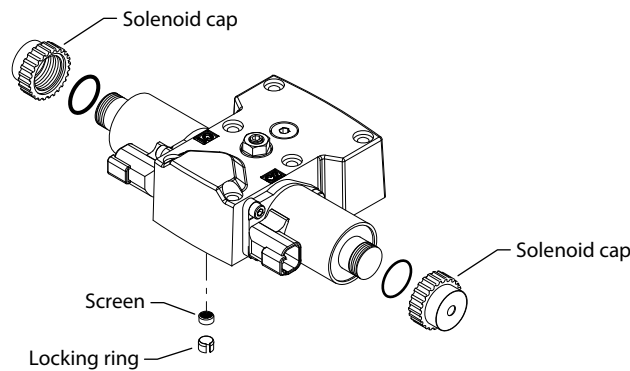
Subject

Control solenoid nut and screen locking ring

Description

As a product improvement, Danfoss changed the design of the EDC solenoids to avoid potential corrosion by changing the nut that holds the coil on the solenoid tube. The new nut has a closed cap design, which eliminates the potential of moisture to ingress past the solenoid tube threads. The new EDC and nut are functionally and physically interchangeable in all applications

A locking ring was also added to the controls. The locking ring will prevent the screen from falling out of the control during installation to the pump. The new locking ring can not be used in older style controls as the port is not drilled deep enough.



Models affected

All H1 pumps.

Serial numbers

Locking ring and solenoid nut.

Part numbers affected

Locking ring and solenoid nut

Option	45/53cc	78cc	147/165cc
A2	08-11-xxxxx	07-50-xxxxx	07-50-xxxxx
A3	08-11-xxxxx	07-50-xxxxx	07-50-xxxxx
A6	08-11-xxxxx	07-50-xxxxx	07-50-xxxxx
C1		07-39-xxxxx	07-39-xxxxx

Locking ring only

Option	45/53cc	78cc	147/165cc
A4	08-11-xxxxx	08-16-xxxxx	08-16-xxxxx
A5	08-11-xxxxx	08-16-xxxxx	08-16-xxxxx

Part numbers affected

Description	New part number
Locking ring	11012505

Parts disposition

- Interchangeable
- Use parts in stock

SB-2008-038

Products affected

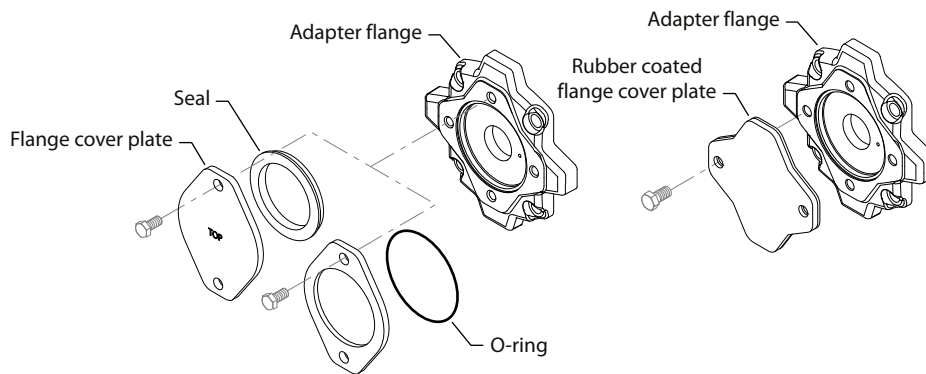
H1 pumps

Subject

Rubber coated auxiliary flange cover

Description

Danfoss has replaced the H1 pump auxiliary flange cover plate with a new rubber coated plate for all auxiliary flanges. The O-ring or donut style seal is no longer needed. The adapter flange interface to the auxiliary pump did not change, making this an interchangeable change. The new rubber coated cover plate can not be used as a running cover, if an auxiliary pump is not installed. The old cover and seal will need to be used for a running cover.

**Models affected**

All H1 pumps.

Serial numbers

Pad type	45/53cc	78cc	147/165cc
A	A-08-33-xxxxx	N-07-32-xxxxx	N-08-12-xxxxx
B	A-08-33-xxxxx	N-08-36-xxxxx	N-08-36-xxxxx
C	N/A	N-08-36-xxxxx	N-08-36-xxxxx
D	N/A	N/A	N-08-36-xxxxx

Part numbers affected

Pump size	Pad type	Description	Old part number	New part number
45 and 53cc	A	Cover plate	4460586	11017125
		Seal	4800482	
78cc	A	Cover plate	9802336	11017125
		O - ring	9004104-1520	
147 and 165cc	A	Cover plate	9802336	11017125
		O-ring	9004104-1520	
45 and 53cc	B	Cover plate	8801059	11023746
		Seal	8801061	
78cc	B	Cover plate	4460370	11023746
		O-ring	9004104-1540	
147 and 165cc	B	Cover plate	4460370	11023747
		O-ring	9004104-1540	

Pump size	Pad type	Description	Old part number	New part number
45 and 53cc	C	Cover plate	8800406	11023750
		O-ring	9004104-1580	
78cc	C	Cover plate	8800406	11023748
		O-ring	9004104-1580	
147 and 165cc	D	Cover plate	338400	11023751
		O-ring	726927	

Parts disposition

Interchangeable

SB-2008-040

Products affected

H1 78, 115 and 130 cc pumps

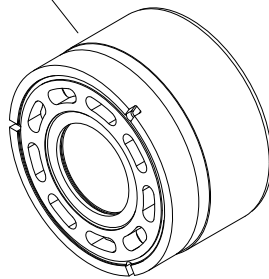
Subject

Cylinder blocks machined for speed ring

Description

A step has been machined into H1 78, 115 and 130 cc pump cylinder blocks for a speed ring. The part numbers of the cylinder blocks have been changed. The new blocks are completely interchangeable with the old blocks. The old part numbers will become obsolete and not available for service.

New speed ring step



Models affected

All H1 78, 115 and 130 pumps

Serial numbers

This change became effective at serial number

- N09-28-XXXXX, for 78cc pumps (6 July 2009)
- N09-35-XXXXX, for 115 cc pumps (24 August 2009)
- N09-37-XXXXX, for 130 cc pumps (9 September 2009)

Part numbers affected

Frame size	Old part number	New part number
78 cc	11012660	11011745
115 cc	141257	11030156
130 cc	141261	11030192

Parts disposition

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

SB-2009-007

Products affected

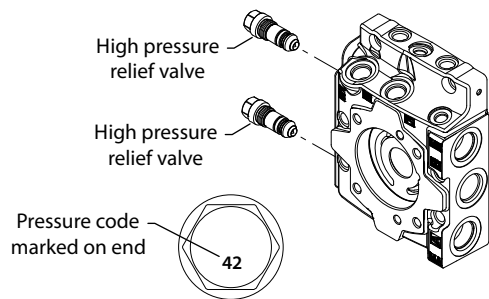
H1 pumps, 45 thru 100 cc

Subject

High pressure relief valve

Description

As a continuous improvement, Danfoss is changing the H1 high pressure relief valves used in 45 thru 100 cc pumps. The new valves will have a different weld process that locks the pressure setting. The new valves are completely interchangeable with the old valves. The part numbers for the valves are being changed to better track this change. The part number for the different settings will be incorporated into the system at different dates over the next 12 to 14 months. The old part numbers will become obsolete.



Models affected

All H1 45 thru 100 cc variable pumps.

Serial numbers

The part number for the different settings will be incorporated into the system at different dates over the next 12 to 14 months.

Part numbers affected

High pressure relief valves

Old part number	New part number	Pressure setting
11006825	11049130	420 bar
11006826	11049131	450 bar
11006827	11049132	480 bar
11006828	11049133	510 bar
11006822	11049127	350 bar
11006817	11049123	250 bar
11006821	11049126	330 bar
11006823	11049128	380 bar
11006824	11049129	400 bar
11006813	11049120	180 bar
11006816	11049122	230 bar
11006819	11049125	300bar
11006814	11049121	200 bar
11006818	11049124	280 bar

Parts disposition

- Interchangeable
- Order replacement parts
- Revise existing part orders

SB-2009-046

Products affected

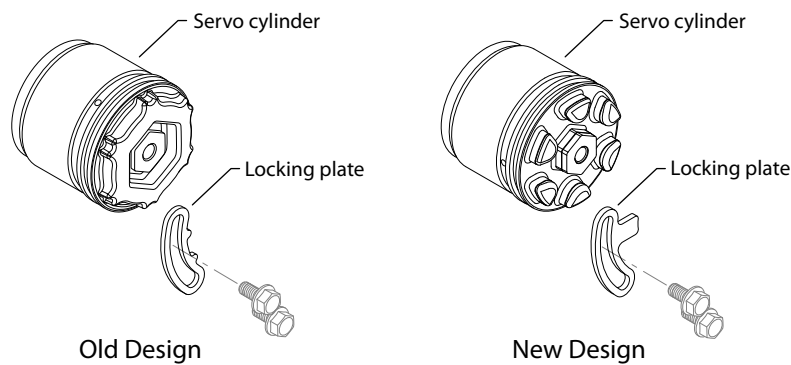
H1 78, 115/130 and 147/165cc pumps

Subject

Servo cylinder and locking plate design change

Description

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



Models affected

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

Serial numbers

This change became effective at serial number

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

Part numbers affected

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

Parts disposition

Interchangeable only if both parts are replaced together

SB-2009-068

Products affected

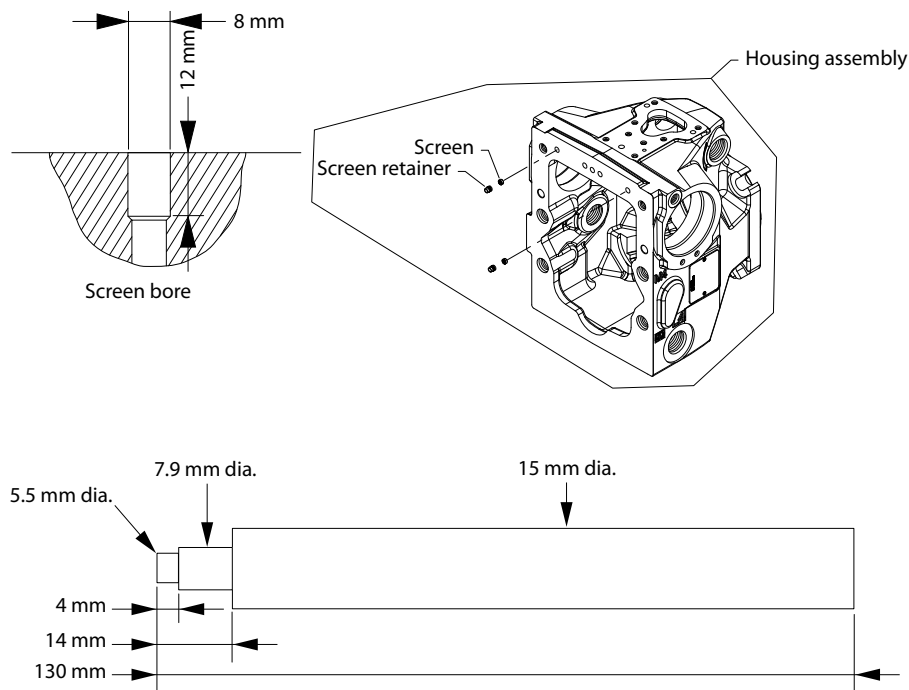
H1 78, 115/130 and 147/165 cc pumps

Subject

Change to the design of servo screen retention in pump housing

Description

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

**Models affected**

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

Serial numbers

This change became effective at serial number

- H1P147/165 (G): N09-25-XXX59
- H1P147/165 (Z): N09-26-XXX36
- H1P115/130 (G): N09-24-X4341
- H1P115/130 (L): N10-04-X3743
- H1P078 (H): N09-25-00081
- H1P078 (K): N09-29-03540

Part numbers affected

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

Parts disposition

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

SB-2012-009

Products affected

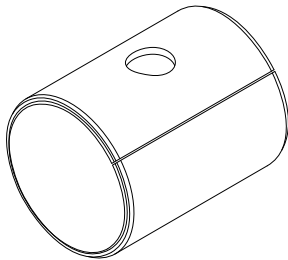
H1069/078 and 089/100 cc pumps

Subject

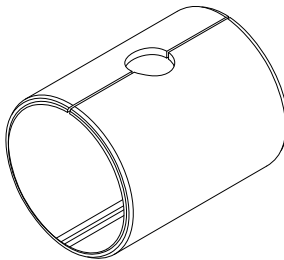
Journal bearing design change

Description

As a product improvement and part commonality between models, Danfoss is changing the journal bearing design in 069/078cc and 089/100cc H1 pumps. The split line center line position moves to the position of the bore center line. The new Journal Bearing is completely interchangeable with the old one. A new part number has been issued for tracking purposes. The old part number is obsolete and no longer available for service.



Old design



New design

Models affected

H1 069/078 and 089/100 cc pumps

Serial numbers

This change became effective at serial number N-12-21-08067 (20 May 2012)

Part numbers affected

Description	Old part number	New part number
Journal bearing	141102	11087822

Parts disposition

- Interchangeable
- Use parts in stock

SB-2012-015

Products affected

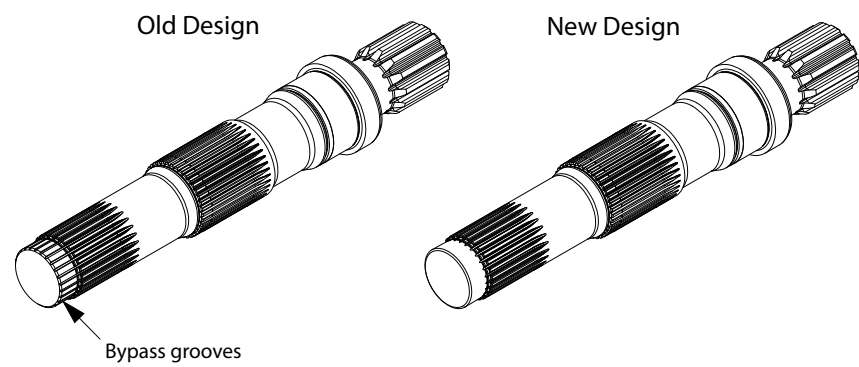
H1 78cc pumps

Subject

Shaft change

Description

Danfoss has removed the bypass on the end of the shaft on H1 78cc pumps. The old shaft allowed unfiltered oil from the pump case into charge pump and the high pressure loop. The bypass feature is now in the end cap. This change is not interchangeable with EPF end caps that have external remote filtration. The old design shafts are obsolete and no longer available.



Models affected

H1 78cc pumps

Serial numbers

See below

Part numbers affected

Description	Old part number	New part number	Effective date
Shaft, 21T (F1)	11000845	11112175	N12-38-xxxxx (20 Sep 2012)
Shaft, tapered (F4)	11021929	11112177	N12-27-xxxxx (04 Jul 2012)
Shaft, 14T (G1)	140908	11112174	N12-29-xxxxx (18 Jul 2012)
Shaft, 23T (G9)	11000794	11112176	N12-40-xxxxx (01 Oct 2012)

Parts disposition

- Non-interchangeable
- Use parts in stock

SB-2013-003

Products affected

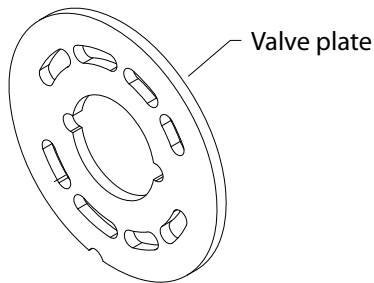
H1 pumps

Subject

Valve plate change

Description

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

**Models affected**

H1 69 through 165cc pumps

Serial numbers

See below

Part numbers affected

Description	Old part number	New part number	Effective date
069/078 R CP17-1.5	11075607	11125564	N-13-05-xxxxx (31 Jan 2013)
069/078 R CP17+2.5	11076863	11125563	N-13-05-xxxxx (31 Jan 2013)
069/078 L CP17+2.5	11076865	11125551	N-13-05-xxxxx (31 Jan 2013)
069/078 L CP17-1.5	11076866	11125562	N-13-05-xxxxx (31 Jan 2013)
089/100 R CP17-1.5	11077025	11125566	N-13-05-xxxxx (31 Jan 2013)
089/100 R CP17+2.5	11077027	11125567	N-12-50-xxxxx (12 Dec 2012)
089/100 L CP17-1.5	11077026	11125568	N-13-05-xxxxx (31 Jan 2013)
089/100 L CP17+2.5	11077028	11125565	N-12-49-xxxxx (5 Dec 2012)
115/130 R CP17+2.5	11077029	11125572	N-13-05-xxxxx (25 Jan 2013)
115/130 R CP17-1.5	11077031	11123707	N-13-05-xxxxx (31 Jan 2013)
115/130 L CP17+2.5	11077030	11125569	N-13-05-xxxxx (31 Jan 2013)
115/130 L CP17-1.5	11077062	11125571	N-13-03-xxxxx (16 Jan 2013)
147/165 R CP17-1.5	11077063	11123708	N-13-05-xxxxx (31 Jan 2013)
147/165 R CP17+2.5	11077065	11125576	N-13-05-xxxxx (31 Jan 2013)
147/165 R (larger dia.)	11093335	11126989	N-13-05-xxxxx (31 Jan 2013)
147/165 L CP17-1.5	11077064	11125575	N-13-03-xxxxx (14 Jan 2013)
147/165 L CP17+2.5	11077066	11125574	N-13-05-xxxxx (31 Jan 2013)

Parts disposition

- Interchangeable
- Use parts in stock

SB-2013-019

Products affected

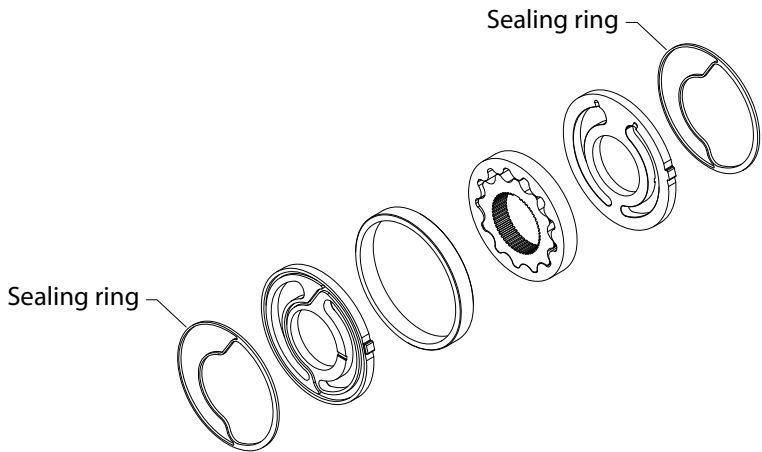
H1 pumps

Subject

Charge pump seal

Description

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



Models affected

H1 pumps

Serial numbers

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

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

Part numbers affected

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

Parts disposition

Interchangeable

Scrap used parts

SB-2015-035

Products affected

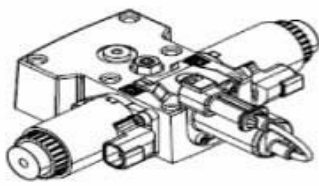
H1 pumps

Subject

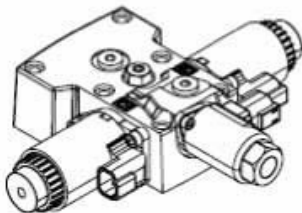
Control override valve service kit change

Description

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



Old style control (W2P connector)



New style control (W2SC connector)

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



Adapter Cable

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

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

Models affected

H1 pumps

Serial numbers

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

Part numbers affected

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

**Note**

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

Parts disposition

Non-interchangeable

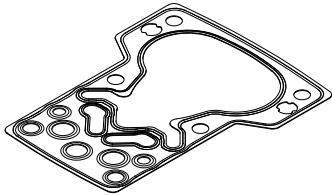
SB-2016-033

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

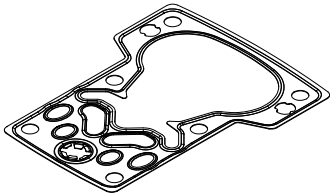
Subject Control Gasket

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-2018-004

Products affected

H1 69-78cc 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 69/78cc pumps cylinder block kit. The internal block splines on the shaft are now machined longer and the slipper retainer ball guide is now splined.

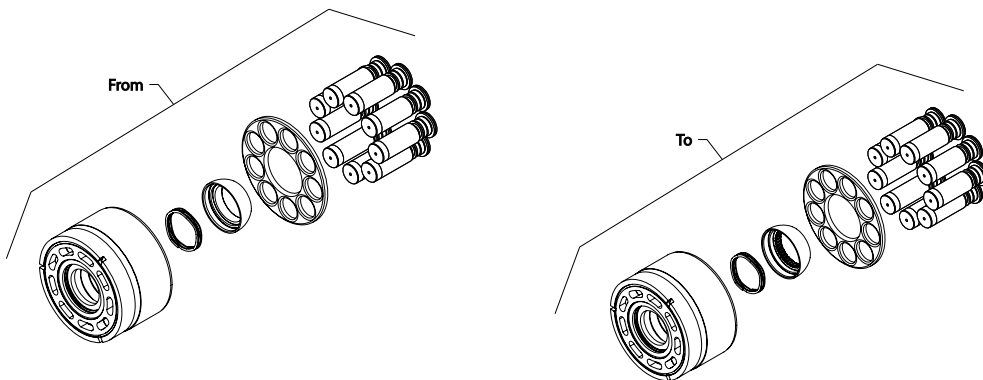
The new shaft may be substituted for the old shaft, but the old shaft cannot be substituted for the new shaft. The old shaft will be obsolete.

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 69-78cc pumps

Serial numbers

Shaft change became effective at August 24, 2017 (N1735xxxxx)

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

Part numbers affected

Description	Old Part Number	New Part Number
Shaft, H1P069-078 14T 12/24	11112174	11176498
Shaft, H1P069-078 21T 16/32	11112175	11179422
Shaft, H1P069-078 23T 16/32	11112176	11179425
Shaft, H1P069-078 Taper 38-3 Keyway	11112177	11179423
Kit-Cylinder-Block H1P069	11002018	11189989
Kit-Cylinder-Block H1P078	140768/P	11189990
Kit-Cylinder Block, H1P069 Speed Sensor	11089730	11191001
Kit-Cylinder-Block H1P078 Speed Sensor	11011746	11191002
Guide-Slipper Retainer, H1P069-078	11121502	11148925

Parts disposition

- Shaft: Interchangeable new to old
- Cylinder block kit: non-interchangeable
- Slipper retainer ball guide: non-interchangeable

SB-2018-025

Products affected

H1 pumps

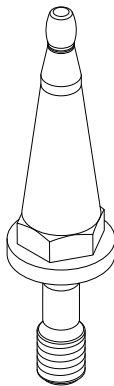
Subject

Swashplate feedback link

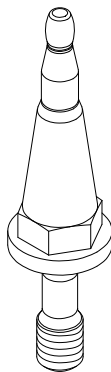
Description

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-2020-029

Products affected

H1 pumps and tandems

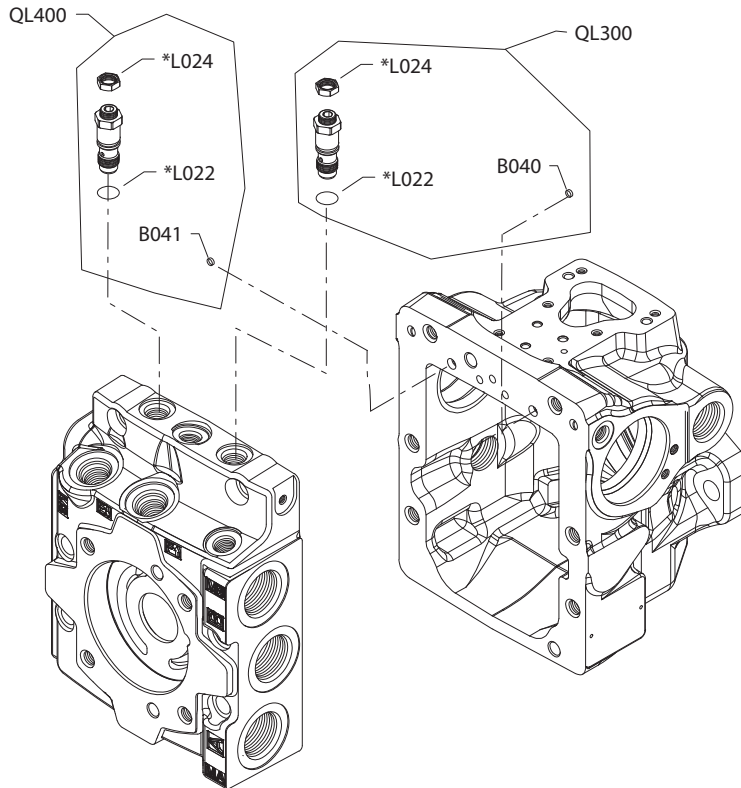
Subject

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

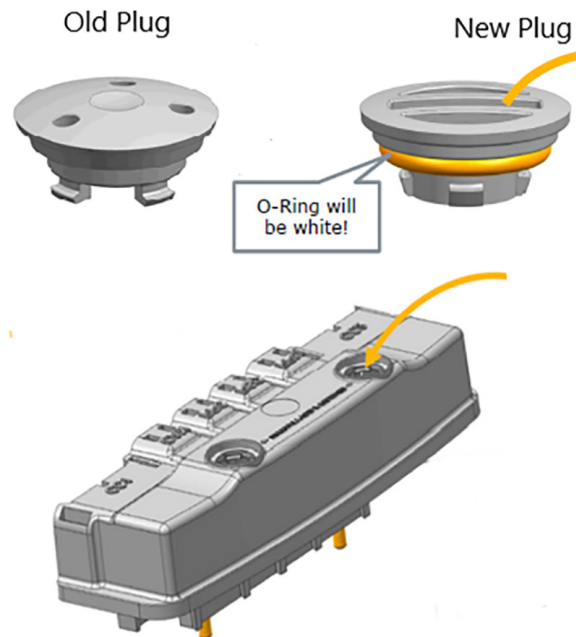
Subject

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

Description	Old Part Number	New Part Number
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-2024-002A

Products affected

H1 pumps 69/78cc

Subject

Charge relief valve design change

Description

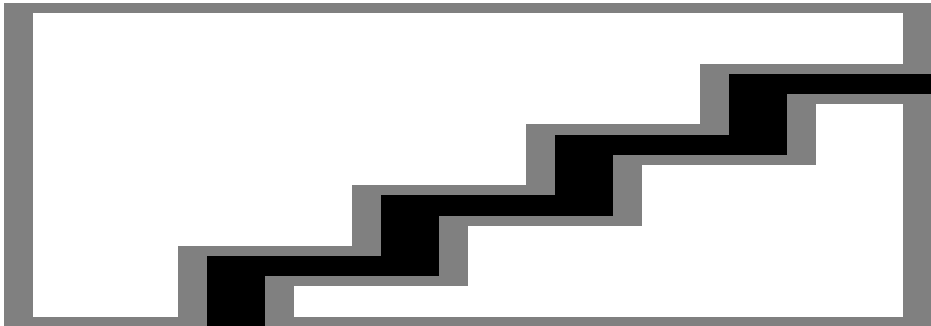
A design change to the charge pressure relief poppet on H1 pumps. The change relocates the relief poppet drain hole to the side, changes to a larger adjustment stud and seal nut. This change affects the composition of the charge pressure relief valve service kit.

The pumps built before 2013, charge relief valves are not interchangeable. 2013 and prior pumps must use the original charge relief valves.

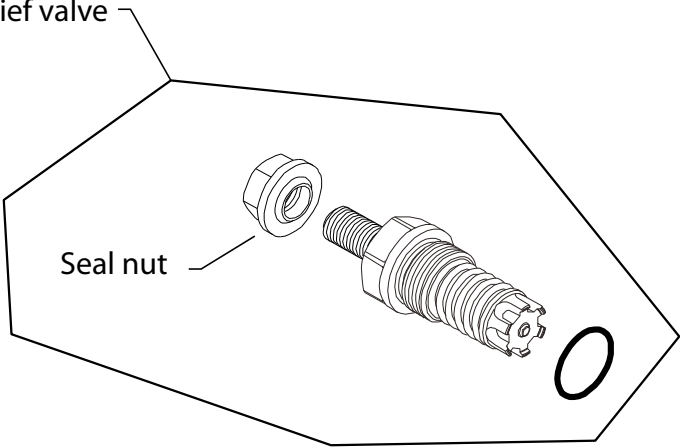
Pumps that are 2013 or newer, the charge relief valves are interchangeable. Components within the assemblies are not interchangeable.

Hole through the center

Hole offset through the side



Charge relief valve



Models affected

H1 069/078cc pumps

Serial numbers affected

The charge relief change became effective in 2023 with all new end caps
End Cap change became effective at SB 2024-004, and S82024-005

Part numbers affected

Description	Old part number	New part number
Charge pressure relief valve kit 18-22 bar	11004711	11137578
Charge pressure relief valve kit 24-34 bar	11017127	11137579

Parts disposition

Non-interchangeable with pumps older than 2013

Engineering change number (internal use only):

CN9635999, CN00222336, CN00223308

SB-2024-004

Products affected

H1 pumps 69/78cc

Subject

Charge relief valve design change

Description

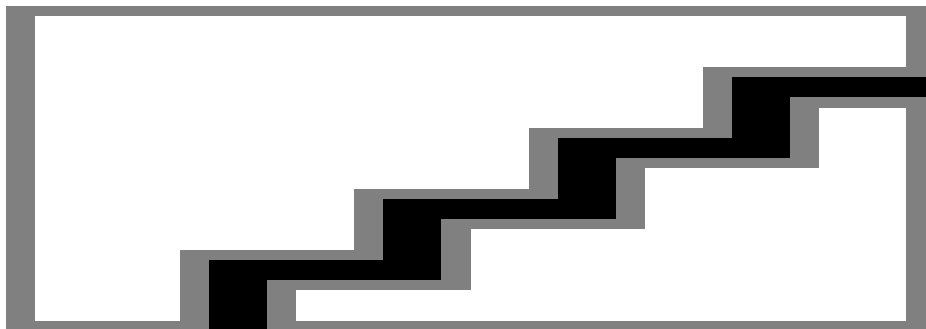
A design change to the charge pressure relief poppet on H1 pumps. The change relocates the relief poppet drain hole to the side, changes to a larger adjustment stud and seal nut. This change affects the composition of the charge pressure relief valve service kit.

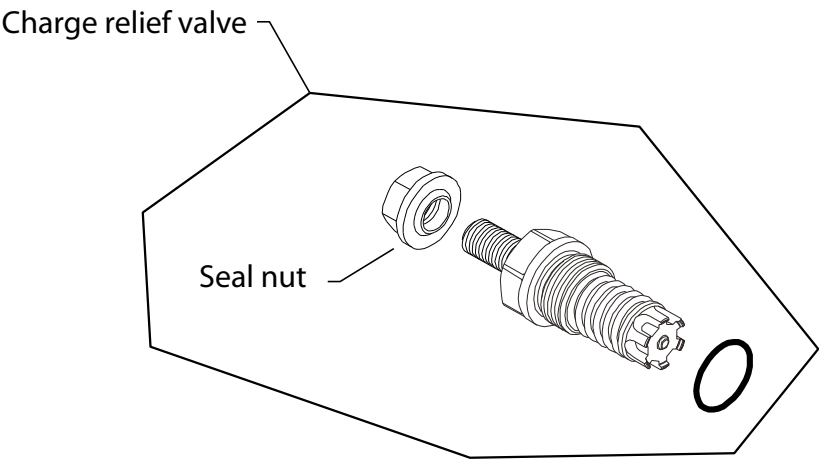
The pumps built before 2013, charge relief valves are not interchangeable. 2013 and prior pumps must use the original charge relief valves.

Pumps that are 2013 or newer, the charge relief valves are interchangeable. Components within the assemblies are not interchangeable.

Hole through the center

Hole offset through the side





Models affected

H1 069/078cc pumps

Serial numbers affected

The charge relief change became effective in 2023 with all new end caps
End Cap change became effective at SB 2024-004, and S82024-005

Part numbers affected

Description	Old part number	New part number
Charge pressure relief valve kit 18-22 bar	11004711	11137578
Charge pressure relief valve kit 24-34 bar	11017127	11137579

Parts disposition

Non-interchangeable with pumps older than 2013

Engineering change number (internal use only):

CN9635999, CN00222336, CN00223308

SB-2024-005

Products affected

H1 069/078cc pumps

Subject

Standard end cap

Description

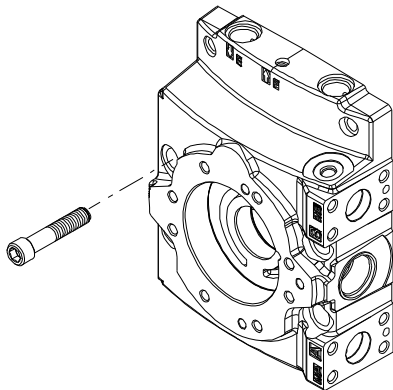
Danfoss Power Solutions has made a block point change to H1 69/78cc standard end caps. This change affects older pump housings, charge pressure relief valves and mounting flanges (see PIB HY2023-378).
The new design increases the end cap thickness and requires a longer bolt (120 mm) for SAE-A, SAE-B and SAE-C mounting flanges,

Older pumps with housings built prior to Week 2 of 2016 will require a 105mm screw, recommend to change housing, before using a new end cap with a NN or SAE-A or SAE-B mounting flange. For information about the SAE-C mounting flange see Service Bulletin SB-2024-004.

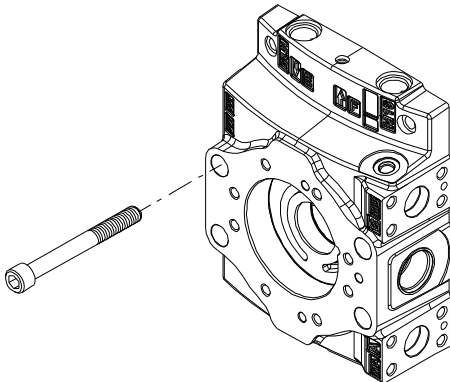
It is important to use the proper end cap screw in any repair in order to prevent future service issues.

The pump model nomenclature will change from Revision A to B (see PIB HY2023-378).

Old end cap design



New end cap design



Models affected

H1 069/078cc pumps

Serial numbers affected

This change became effective at Week 39 of 2023 (18 October 2023)

Part numbers affected

Description	Old part number	New part number
END CAP W /BSHG, H 1 P069-078L I PF	11003569	11310309
END CAP W/BSHG, H1 P069-078R SF	11003571	11310179
END CAP W/BSHG, H1 P069-078L EPF	11003573	11310180
END CAP W/BSHG, H1 P069-078L SUF	11003537	11310952
ENDCAP W/BSHG, HI P069-078R IPF	11003563	11310181
ENDCAP W/BSHG, HI P069-078R SF	11003565	11310332
ENDCAP W/BSHG HI P069-078R EPF	11003567	11310333
END CAP W/BS, HI P069-078R IPF SPRV	11134246	11310368
SCREW-SOC, ISO4762 M14x90 10.9	11000510	
SCREW-SOC, ISO4762 M14x120 10.9		11301896

Parts disposition

Non-interchangeable unless both parts are used (longer screw & new end cap)

Engineering change number (internal use only):

CN0022336, CN0024874, CN0023484

SB-2024-007

Products affected

H1 manual controls

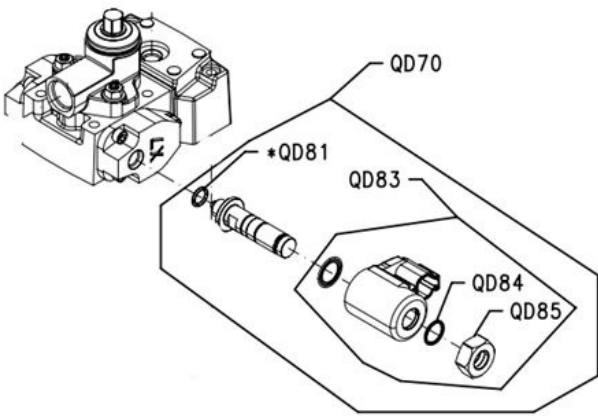
Subject

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 *

Description	Old part number	New part number	Item #
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)



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

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

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

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

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

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