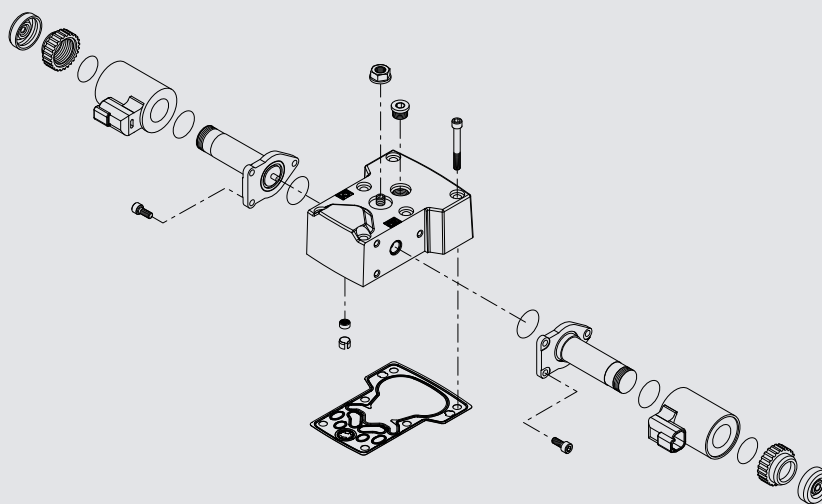


H1P 45 and 53cc

Variable displacement pump



Revision history

Table of revisions

Date	Changed	Rev
June 2026	Updated service bulletin links	1312
April 2026	Updated running cover part number, stylesheet update	1311
October 2025	Updated R4 illustration, updated all HPRV information	1310
August 2025	Updated part number	1309
July 2025	Updated QD75 part number	1308
November 2024	Added SB-2024-007, updated MDC part numbers, removed outdated high pressure options	1307
May 2024	Updated QD29 part number	1306
January 2024	Updated coil kit number on E8/G6, replaced 327007 with 9005110-4400, Updated AC part numbers, removed E5 control option	1305
August 2023	Updated Locking Bracket part numbers and removed J200 snap ring from kit 4510479	1304
March 2023	Updated J1 Part Number	1303
August 2022	Updated locking plate part numbers, updated L40,L41,L42 high pressure number	1302
March 2022	Updated H1 and H2 auxiliary mounting part numbers	1301
August 2021	Updated various part numbers; added new pressure settings; added SB-2021-014	1201
December 2020	Moved pressure limiter screens from housing kits to pressure limiter kits	1101
May 2020	Changed document number from 'AX00000029' to 'AX152886481285' and updated CCO part numbers	1009
January 2020	Updated control gasket part numbers	0907
July 2019	Added new options	0906
June 2019	Updated part numbers; added new options	0905
February 2019	Added various new options	0904
November 2018	Added control options T6, T7, T8 and T9	0903
July 2018	Updated to Engineering Tomorrow format and added SB-2018-025	0902

General information

Service parts identification.....	5
Nameplate.....	5
Date code.....	6
About service bulletins.....	6
Procedure to identify a part.....	7
Regional part numbers.....	7
Example of a part identification (H1P 45/53).....	7
Adobe Acrobat 2-page viewing.....	8
Order code.....	9

Common parts and special hardware

Special hardware H1-P2.....	10
Special hardware P4-PN.....	14

Controls

Control A2, A3.....	16
Control A4, A5.....	18
Control A7.....	20
Control A8.....	22
Control A9, B1.....	24
Control B5.....	26
Control B7.....	28
Control B8.....	30
Control B9.....	32
Control C2.....	34
Control C3.....	36
Control E2.....	38
Control E6, E7.....	40
Control E8.....	42
Control F1, F2.....	44
Control F4.....	46
Control H2, H3.....	48
Control H6, H7.....	50
Control H8, H9.....	52
Control J1, J2.....	54
Control J3, J4.....	56
Control M1, M2.....	58
Control M3, M4.....	60
Control M5, M6.....	62
Control N1, N2.....	64
Control N3, N4.....	66
Control N5, N6.....	68
Control N7, N8.....	70
Control ND, NN.....	72
Control P5.....	74
Control P6, P7.....	76
Control P8, P9.....	78
Control R3.....	80
Control R4.....	82
Control T6, T7.....	84
Control T8, T9.....	86
Control U1, U2.....	90
Control U3, U4.....	92

Displacement limitation

Displacement limitation B-D.....	94
Displacement limitation E-N.....	98

Orifice

H1P 45/53 orifice.....	100
------------------------	-----

End cap

End cap D6, D8.....	104
End cap E5, E6.....	106
End cap E9, F1.....	108

End cap F2, F3.....	110
End cap G2, G9.....	112
End cap J7.....	114
Housing	
Housing F, J.....	116
Shaft	
Shaft F2-G5.....	118
Auxiliary mounting	
Auxiliary mounting H1-NN.....	120
High pressure setting	
Port A.....	122
High pressure setting F01-F03.....	122
High pressure setting J18-J48.....	124
High pressure setting K18-K48.....	126
High pressure setting L15-L42.....	130
Port B.....	134
High pressure setting F01-F03.....	134
High pressure setting J18-J48.....	136
High pressure setting K18-K48.....	138
High pressure setting L15-L42.....	142
Charge pump	
Charge pump, charge pressure relief, filtration.....	146
Overhaul seal kit	
H1P 45/53 seal kit.....	148
Service bulletin	
SB-2006-030.....	149
SB-2007-004.....	150
SB-2007-023.....	151
SB-2007-026.....	152
SB-2007-033.....	153
SB-2008-038.....	155
SB-2008-056.....	157
SB-2009-007.....	158
SB-2009-028.....	160
SB-2009-043.....	161
SB-2009-051.....	162
SB-2010-020.....	164
SB-2011-020.....	165
SB-2013-019.....	166
SB-2016-033.....	167
SB-2018-025.....	168
SB-2020-029.....	168
SB-2021-014.....	170
SB-2024-001B.....	171
SB-2024-007.....	173

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 45/53)

The nameplate on an H1 pump has an Order Code of H1P045 R A A A2 C3 N F1 F G5 NN J 35 J 35 B L 20 PN NNN NNN. Use the following procedures to determine the part number of the drive shaft used on this pump.

1. Referring to the input shaft module in the *Order code* on page 9, the input shaft option for this pump is identified by the code "G5."

H1P045 R A A A2 C3 N F1 F **G5** NN J 35 J 35 B L 20 PN NNN NNN

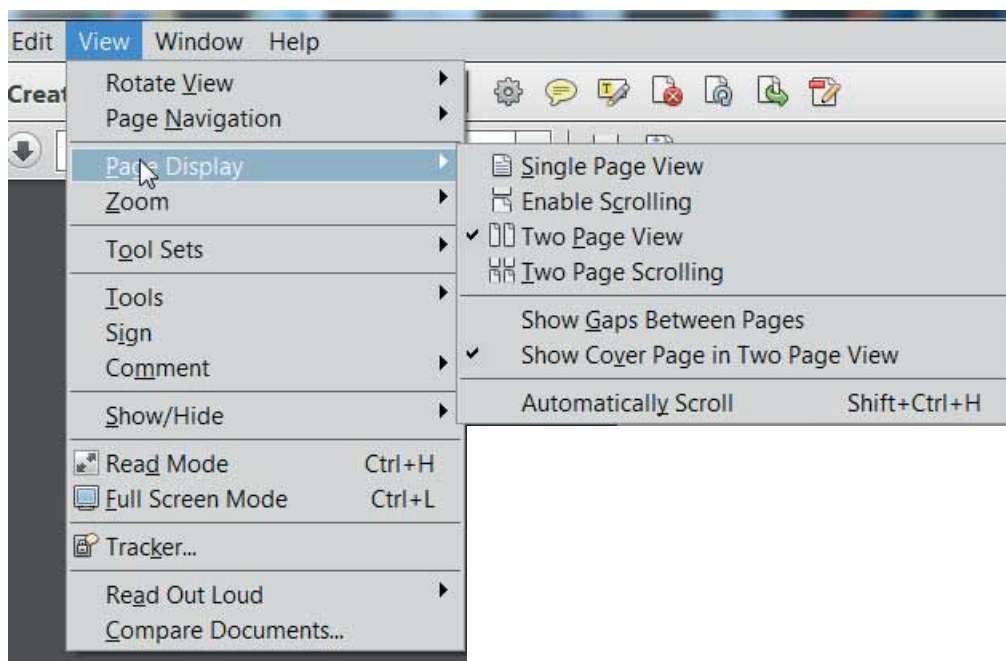
2. Referring to the service parts list, find the shaft group and the order code that relates to this unit (G5).

The shaft is found to be item J100 and part number 141954.

Adobe Acrobat 2-page viewing

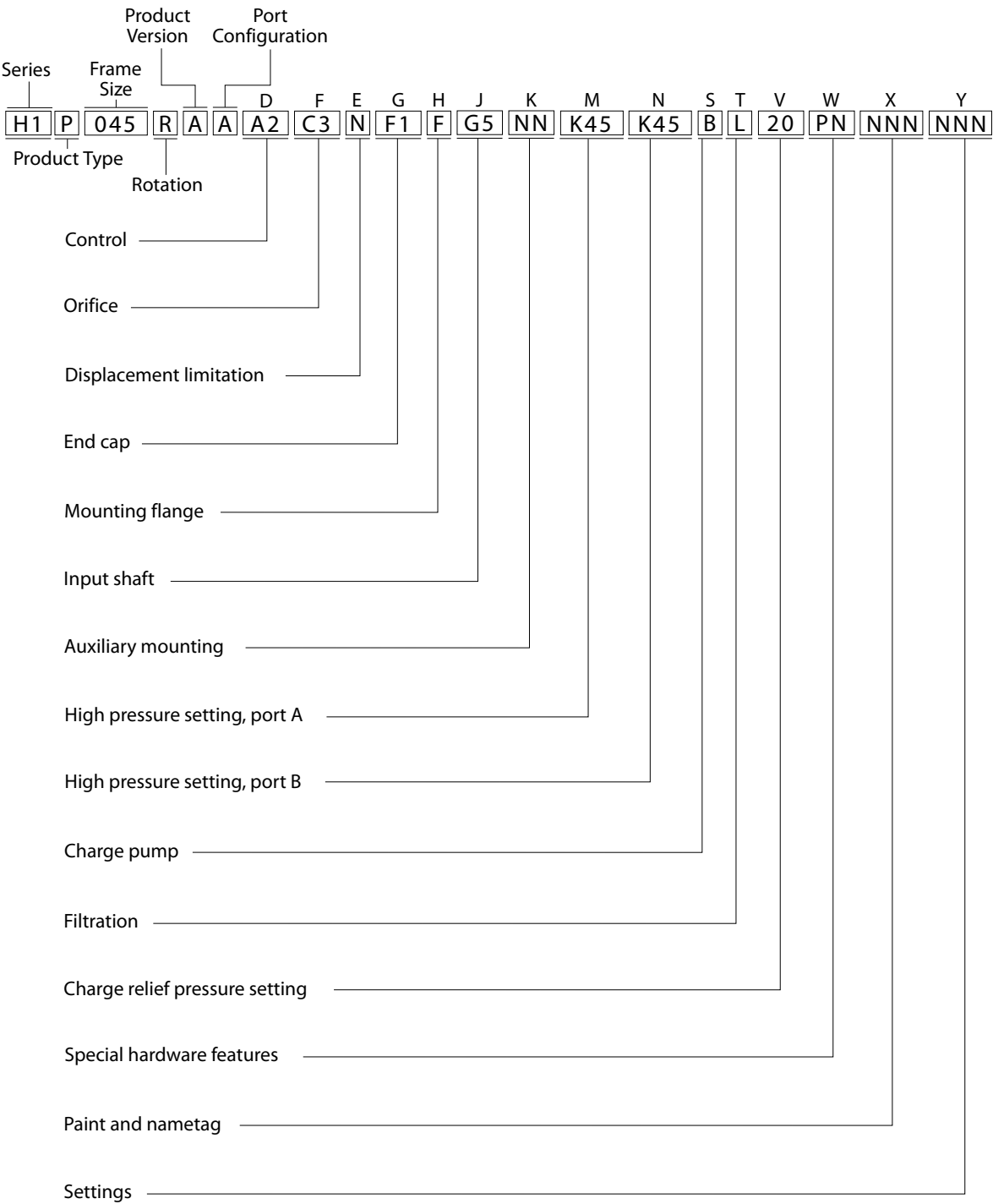
While viewing manual in Adobe Acrobat, the following settings need to be applied to ensure proper page display.

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



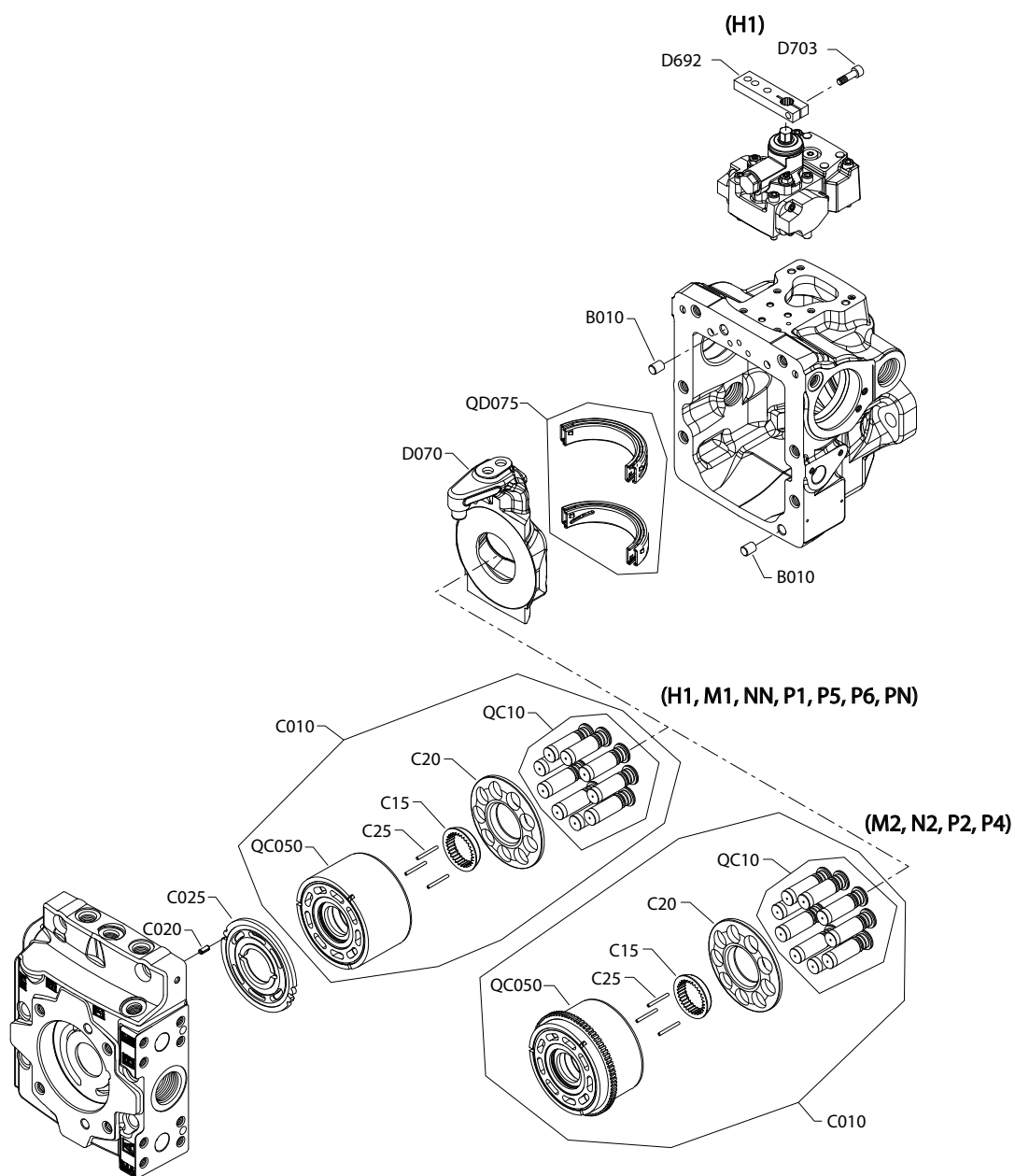
Order code

Example shown



Common parts and special hardware

H1P 45/53 special hardware H1-P2



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

Common parts

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
B010	07-19		5000757	Dowel pin	2
C020	07-19		9004700-1907	Valve plate pin,	1
C20	07-19		141946	Slipper retainer	1
C25	07-19		4700091	Slipper hold down pin	3
D070	12-21		11068328	Swashplate (<i>SB-2008-056, SB-2009-043 & SB-2011-020</i>)	1
D070	07-19	12-20	11098280	Swashplate replacement kit	1
QC10	07-19		11020841	Slipper/piston kit, 45cc	1
QC10	07-19		11020932	Slipper/piston kit, 53cc	1
QD075	07-19		11085533	Swashplate bearing kit (<i>SB-2010-020</i>)	1

Special hardware*Order code: H1*

C15	14-33		140625	Slipper retainer ball guide	1
C010	14-33		141631	Cylinder block kit, 45cc	1
C010	14-33		141632	Cylinder block kit, 53cc	1
C025	14-33		11071901	Valve plate kit, CW	1
C025	14-33		11071912	Valve plate kit, CCW	1
D692	14-33		11185958	Control handle	1
D703	14-33		11173701	Screw, M6 x 20	1
QC50	14-33		141553	Cylinder block assembly, 45cc	1
QC50	14-33		141554	Cylinder block assembly, 53cc	1

Order code: M1

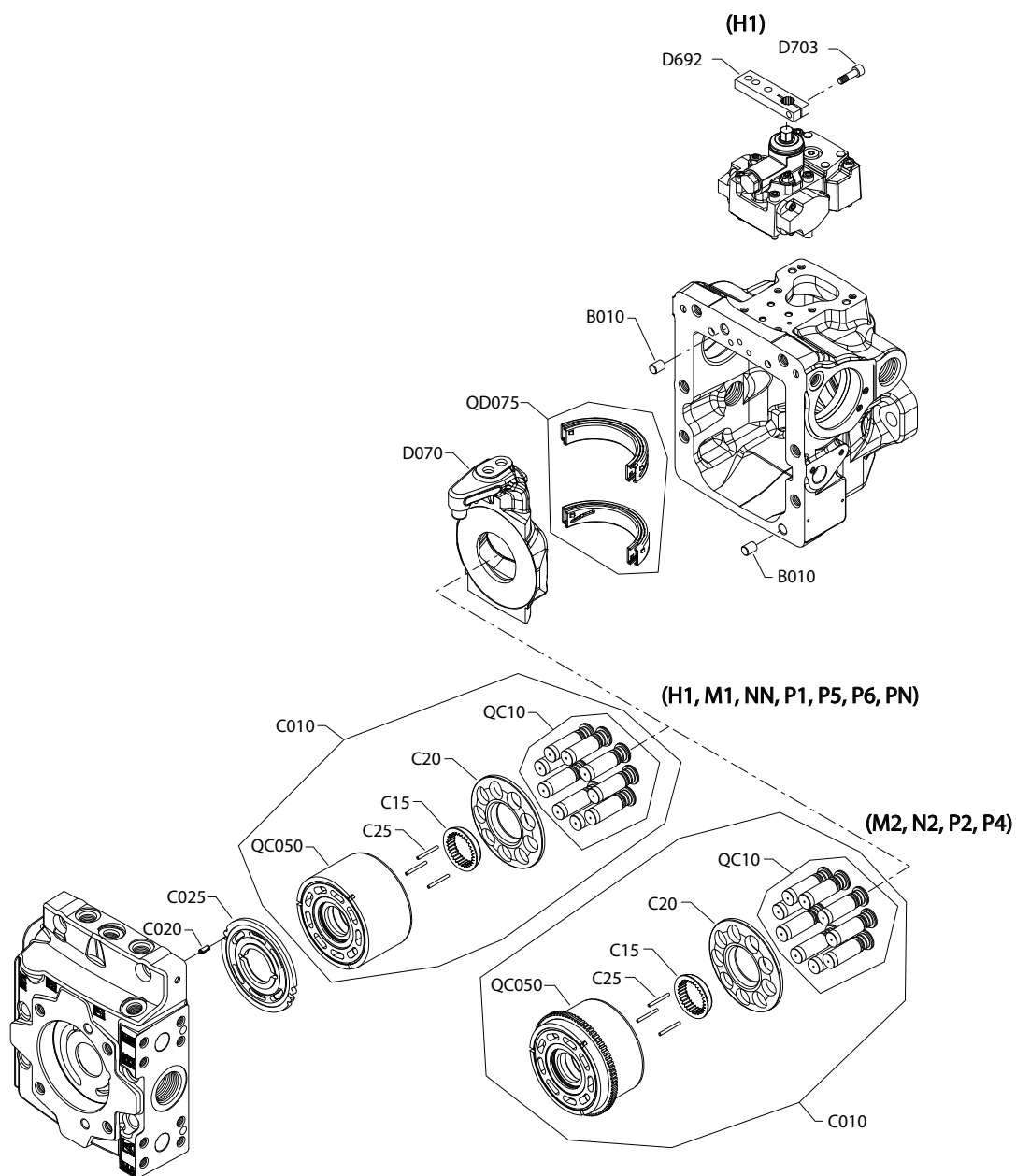
C15	07-19		140625	Slipper retainer ball guide	1
C010	07-19		141631	Cylinder block kit, 45cc	1
C025	07-19		11018336	Valve plate, CW	1
QC50	07-19		141553	Cylinder block assembly, 45cc	1

M1	Replaced with P1 (H1P045L, H1P053L, H1P053R)				
M2	Replaced with P2				
M4	Replaced with P4				
NN	Replaced with PN				



Parts continue to the next two pages.

Parts configuration H1-P2



Note

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

Order code: P1

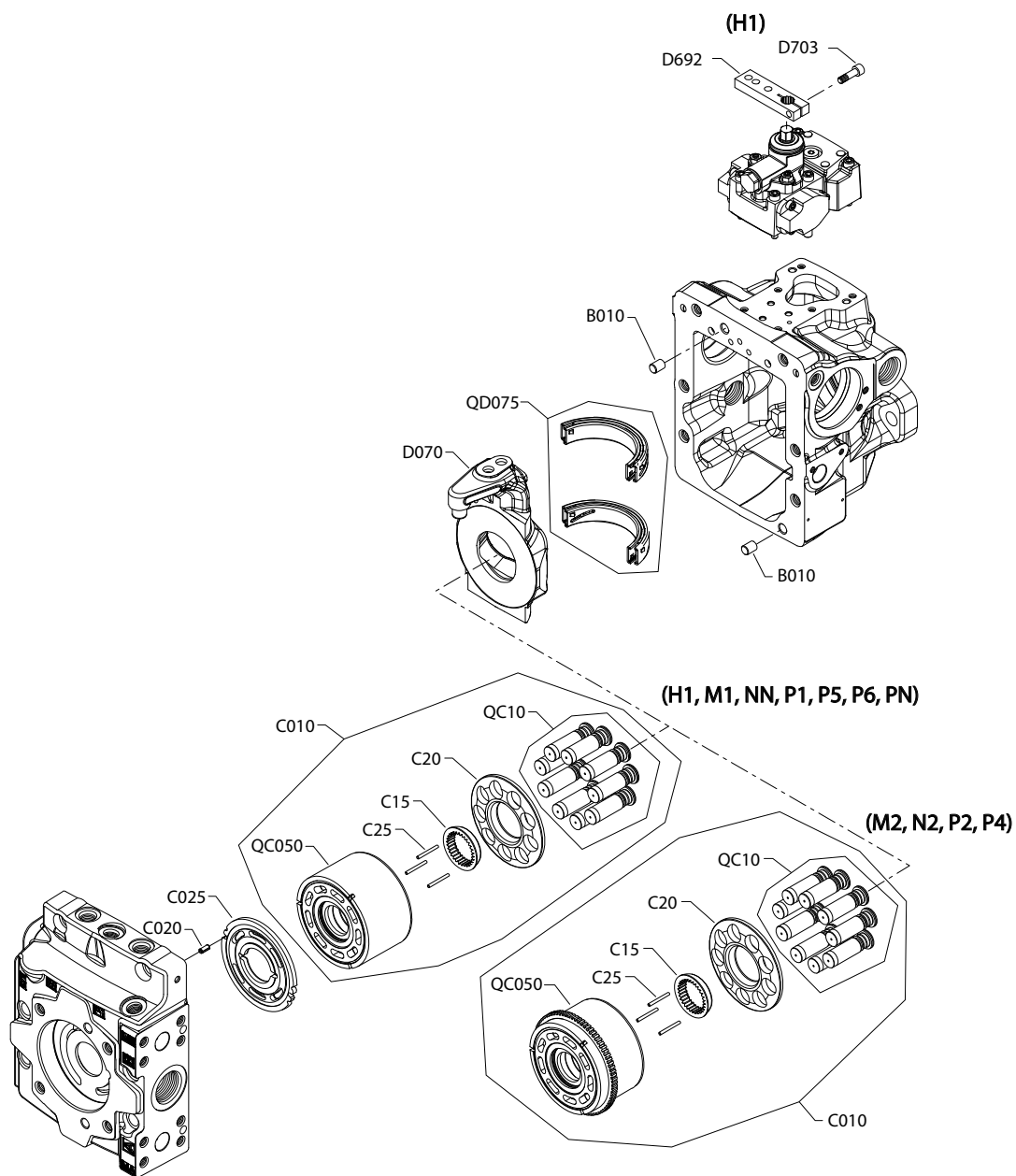
Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
C15	09-13		140625	Slipper retainer ball guide	1
C010	09-13		141631	Cylinder block kit, 45 cc	1
C010	09-13		141632	Cylinder block kit, 53 cc	1
C025	09-13		11071901	Valve plate kit, CW	1
C025	09-13		11071912	Valve plate kit, CCW	1
QC50	09-13		141553	Cylinder block assembly, 45 cc	1
QC50	09-13		141554	Cylinder block assembly, 53 cc	1

Order code: P2

C15	09-13		140625	Slipper retainer ball guide	1
C010	09-13		11030567	Cylinder block kit, 45 cc, with speed ring	1
C010	09-13		11030568	Cylinder block kit, 53 cc, with speed ring	1
C025	09-13		11071901	Valve plate kit, CW	1
C025	09-13		11071912	Valve plate kit, CCW	1
QC50	09-13		11030569	Cylinder block assembly, 45 cc, with speed ring	1
QC50	09-13		11030570	Cylinder block assembly, 53 cc, with speed ring	1

H1P 45/53 special hardware P4, P6, PN

Parts configuration



Note

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

Common parts

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
B010	07-19		5000757	Dowel pin	2
C020	07-19		9004700-1907	Valve plate pin,	1
C20	07-19		141946	Slipper retainer	1
C25	07-19		4700091	Slipper hold down pin	3
D070	12-21		11068328	Swashplate (<i>SB-2008-056</i> on page 157, <i>SB-2009-043</i> on page 161 & <i>SB-2011-020</i> on page 165)	1
D070	07-19	12-20	11098280	Swashplate replacement kit	1
QC10	07-19		11020841	Slipper/piston kit, 45 cc	1
QC10	07-19		11020932	Slipper/piston kit, 53 cc	1
QD075	07-19		11085533	Swashplate bearing kit (<i>SB-2010-020</i> on page 164)	1

Special hardware*Order code: P4*

C15	09-13		140625	Slipper retainer ball guide	1
C010	09-13		11030567	Cylinder block kit, 45 cc, with speed ring	1
C010	09-13		11030568	Cylinder block kit, 53 cc, with speed ring	1
C025	09-13		11071901	Valve plate kit, CW	1
C025	09-13		11071912	Valve plate kit, CCW	1
QC50	09-13		11030569	Cylinder block assembly, 45 cc, with speed ring	1
QC50	09-13		11030570	Cylinder block assembly, 53 cc, with speed ring	1

Order code: P6

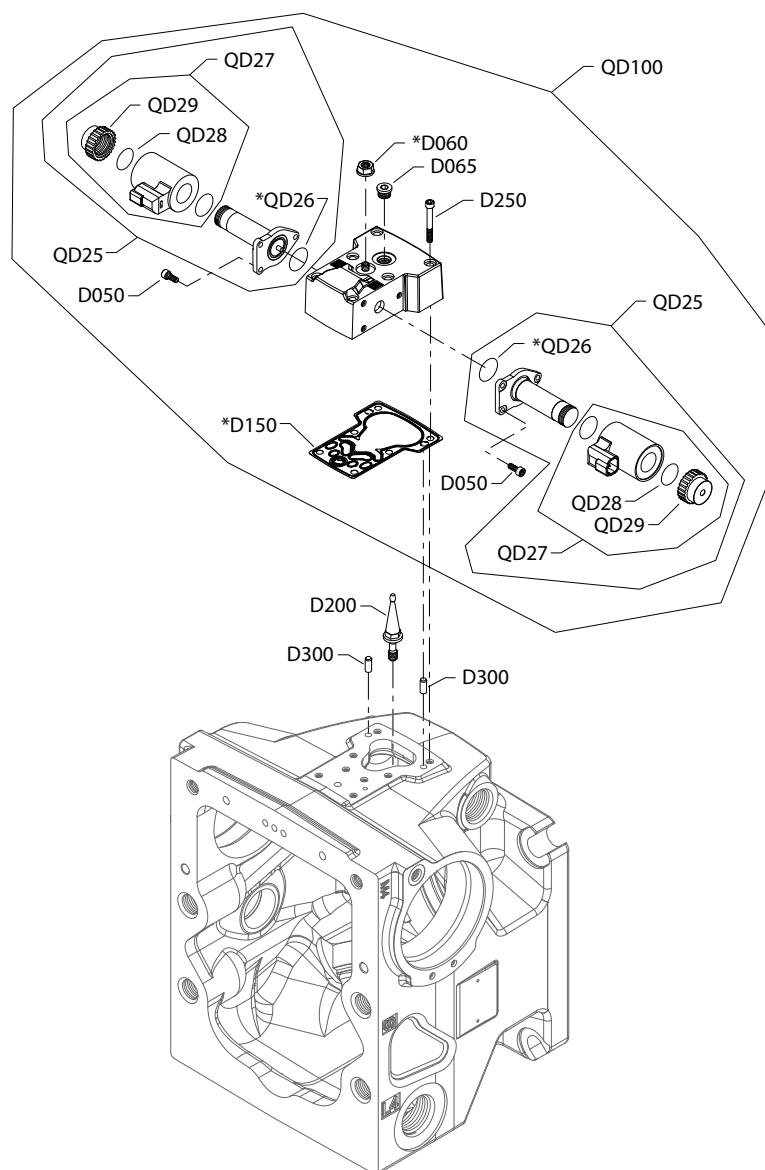
C15	13-20		11112897	Slipper retainer ball guide, coated	1
C010	13-20		11132003	Cylinder block kit, 45 cc	1
C010	13-20		11132004	Cylinder block kit, 53 cc	1
C025	09-13		11071912	Valve plate kit, CCW	1
QC50	13-20		141553	Cylinder block assembly, 45 cc	1
QC50	13-20		141554	Cylinder block assembly, 53 cc	1

Order code: PN

C15	09-13		140625	Slipper retainer ball guide	1
C010	09-13		141631	Cylinder block kit, 45 cc	1
C010	09-13		141632	Cylinder block kit, 53 cc	1
C025	09-13		11071901	Valve plate kit, CW	1
C025	09-13		11071912	Valve plate kit, CCW	1
QC50	09-13		141553	Cylinder block assembly, 45 cc	1
QC50	09-13		141554	Cylinder block assembly, 53 cc	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	10-48		716860	Screw, M5 x 12	6
D060	10-48		612291 (9003508-0008)	Seal nut, M8	1
D065	10-48		9005110-4400	Plug assembly (SAE)	1
D150	10-48		11227209	Control gasket (<i>SB-2016-033</i> on page 167)	1
D200	10-48		11202172	Swash plate feedback link (<i>SB-2018-025</i> on page 168)	1
D250	10-48		505038	Screw, M6 x 45	6
D300	10-48		310979	Dowel pin	2
QD26	10-48		11001952	O-ring	2
QD28	10-48		063172	O-ring	2

Order code: A2

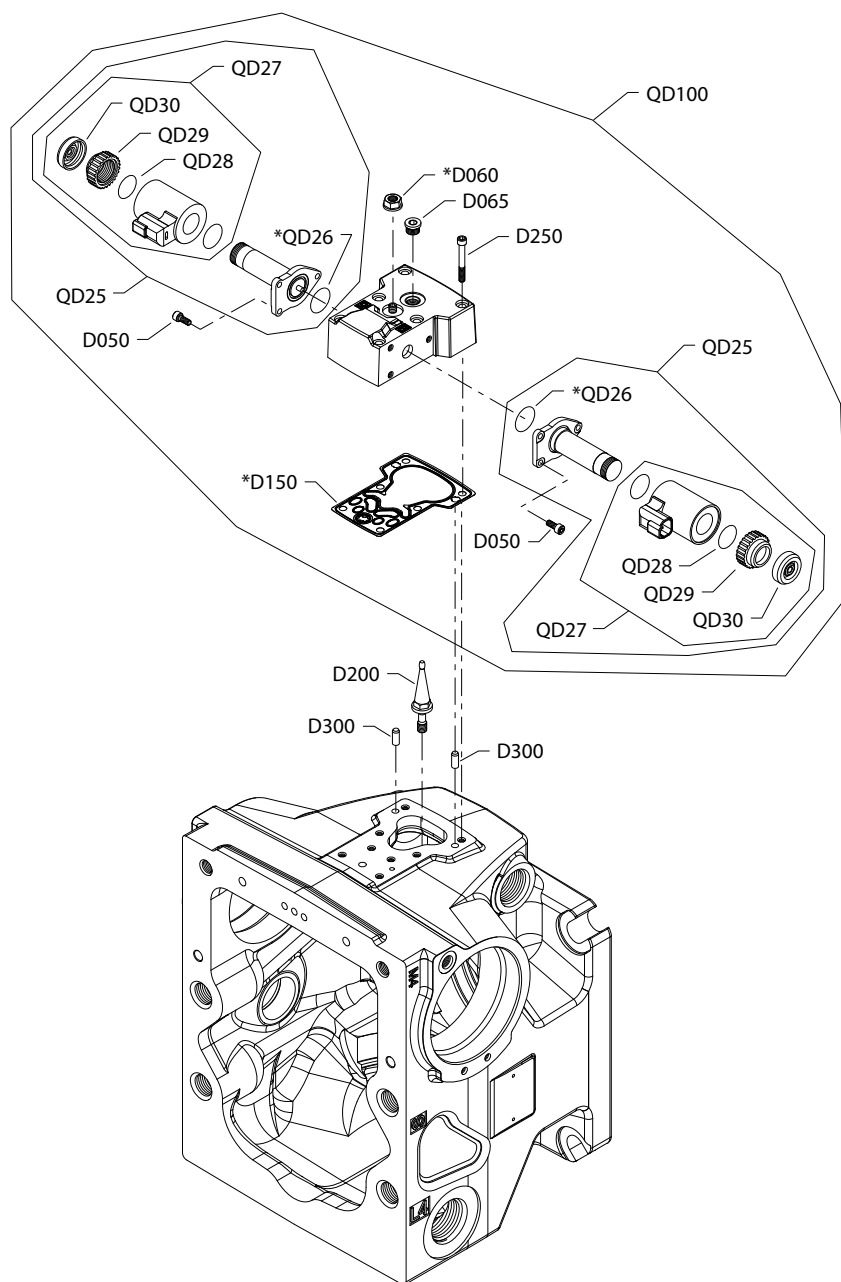
QD25	10-48		11012457	Proportional solenoid, 12v	2
QD27	10-48		11028018	Coil kit, 12v, DEUTSCH connector	2
QD29	10-48		11027046	Coil nut	2
QD100	10-48		11019680	EDC kit, 12v, DEUTSCH connector, fast	1

Order code: A3

QD25	10-48		11012459	Proportional solenoid, 24v	2
QD27	10-48		11028019	Coil kit, 24v, DEUTSCH connector	2
QD29	10-48		11028024	Coil nut	2
QD100	10-48		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	10-48		716860	Screw, M5 x 12	6
D060	10-48		612291 (9003508-0008)	Seal nut, M8	1
D065	10-48		9005110-4400	Plug assembly	1
D150	10-48		11227209	Control gasket (<i>SB-2016-033</i> on page 167)	1
D200	10-48		11202172	Swash plate feedback link (<i>SB-2018-025</i> on page 168)	1
D250	10-48		505038	Screw, M6 x 45	6
D300	10-48		310979	Dowel pin	2
QD26	10-48		11001952	O-ring	2
QD28	10-48		063172	O-ring	2
QD30	10-48		11027883	Cap	2

Order code: A4

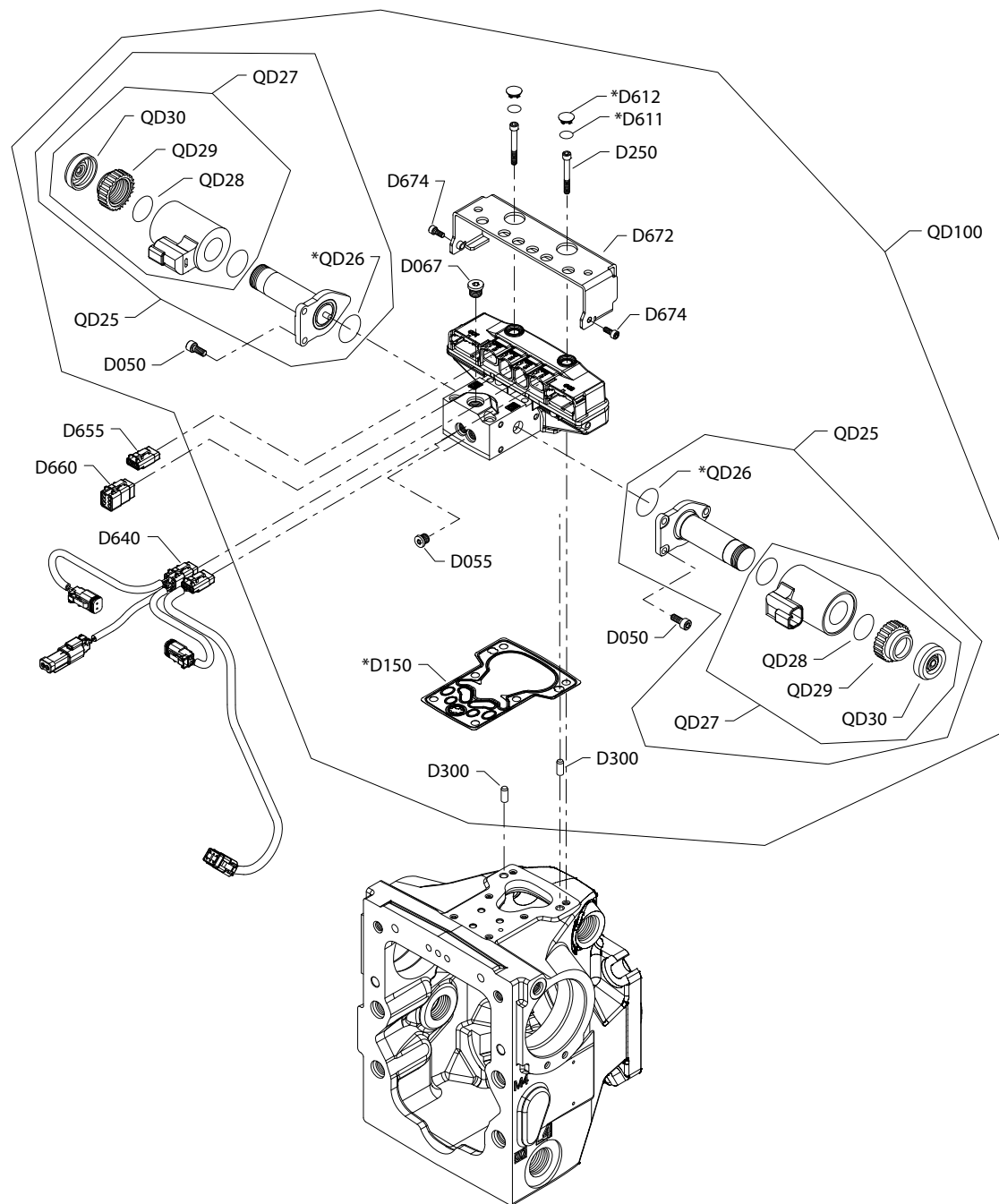
QD25	10-48		140750	Proportional solenoid, 12v	2
QD27	10-48		11004698	Coil kit, 12v, DEUTSCH connector	2
QD29	10-48		11319330	Coil nut	2
QD100	10-48		11019732	EDC kit, 12v, DEUTSCH connector, fast, manual override	1

Order code: A5

QD25	10-48		140751	Proportional solenoid, 24v	2
QD27	10-48		11004700	Coil kit, 24v, DEUTSCH connector	2
QD29	10-48		11319361	Coil nut	2
QD100	10-48		11019733	EDC kit, 24v, DEUTSCH connector, fast, manual override	1

H1P control A7

Parts configuration



Note

Generic housing shown

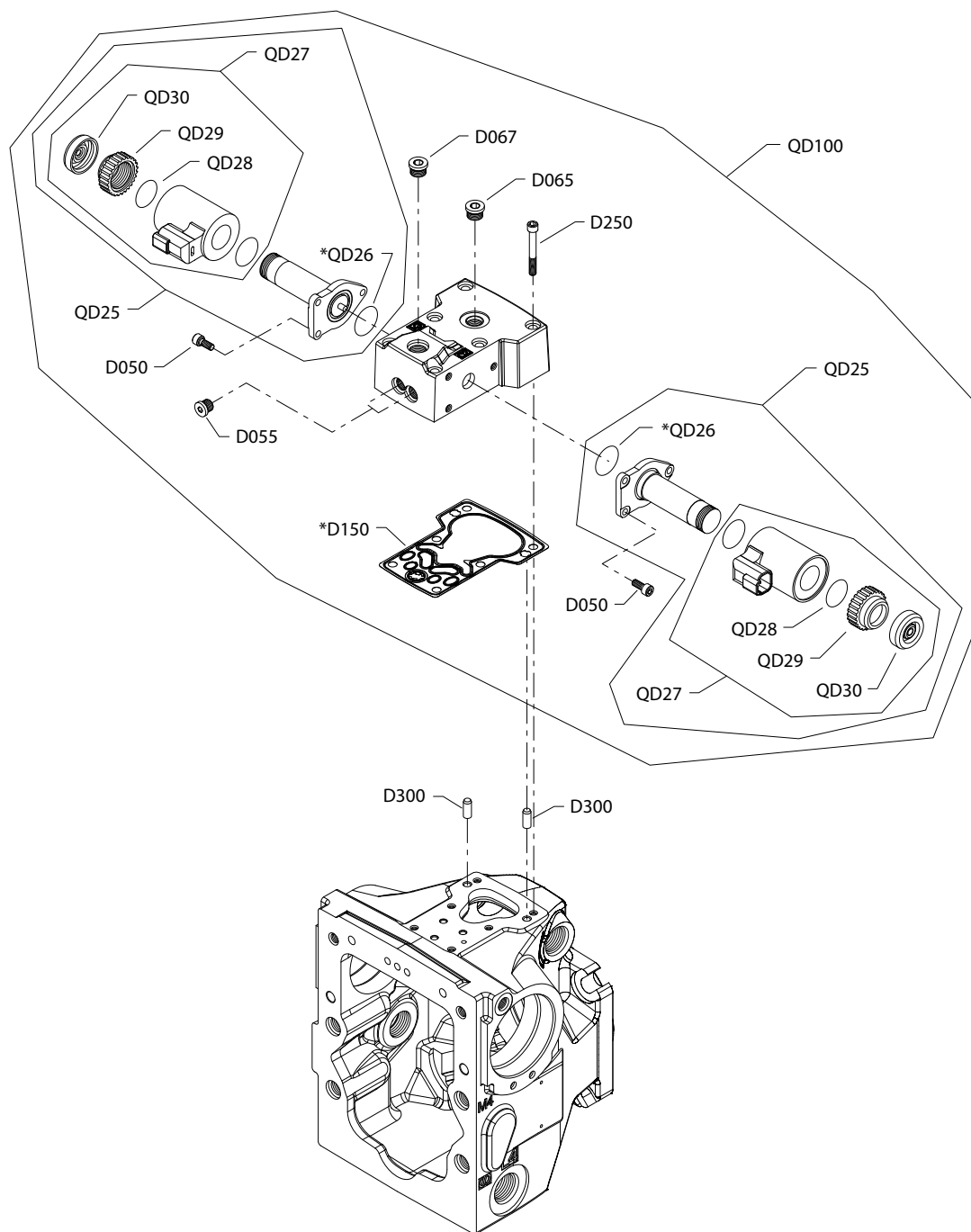
* Included in overhaul seal kit

Order code: A7

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
D050	10-04		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 167)	1
D250	10-04		505038	Screw, M6 x 45	6
D300	10-04		11036469	Dowel pin	2
D612	10-04	21-12	11003126	Plug (<i>SB-2021-014</i> on page 170)	2
D612	21-13		11223708	Plug	2
D611	10-04	21-12	11066774	O-ring (<i>SB-2021-014</i> on page 170)	2
D611	21-13		11225703	O-ring	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		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		11232544	Automotive control kit, 12v, manual override	1

H1P control A8

Parts configuration



Note

Generic housing shown.

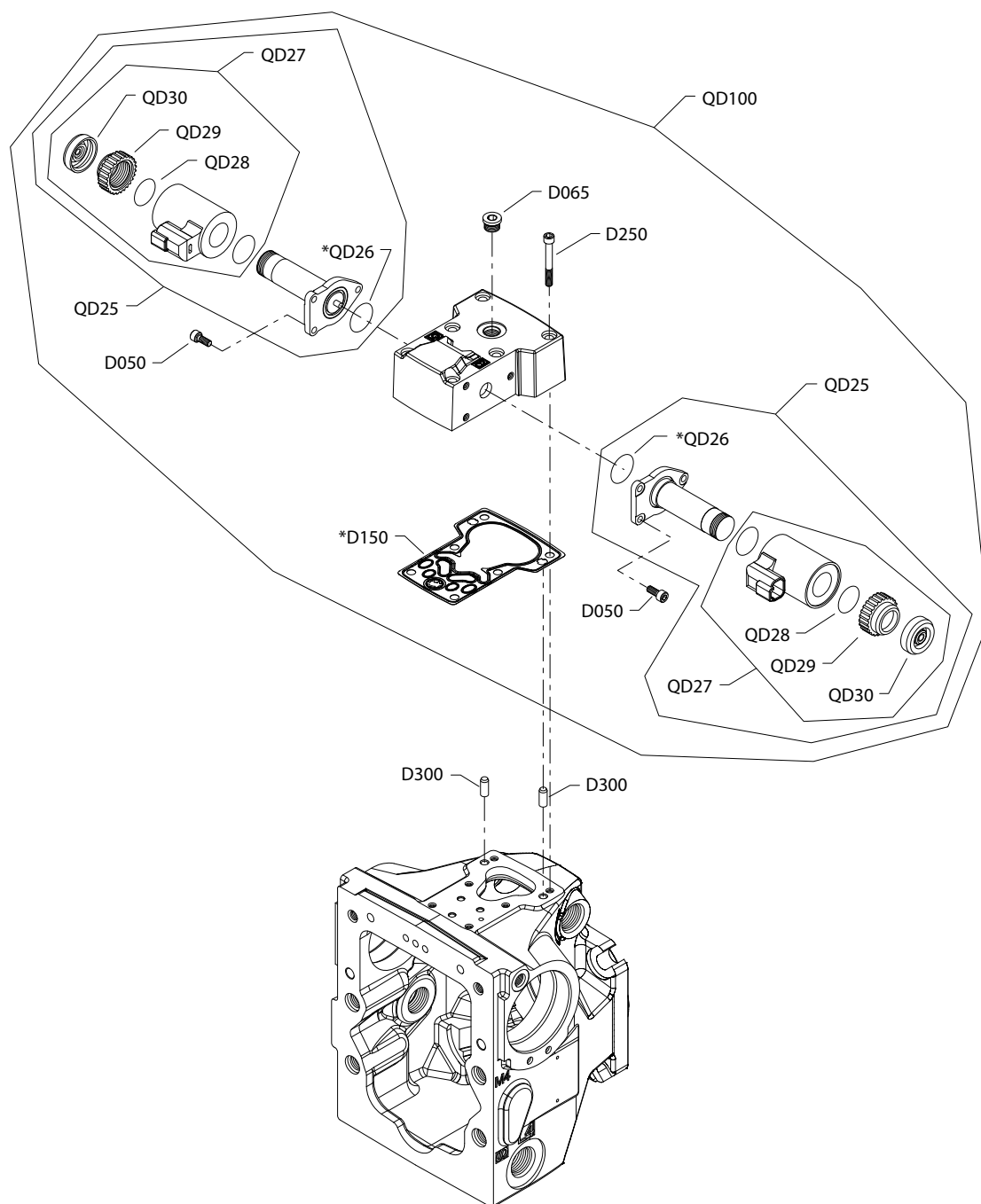
* Included in overhaul seal kit Q210

Order code: A8

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
D050	10-48		716860	Screw, M5 x 12	6
D055	10-48		11040532	Plug assembly	2
D065	10-48		9005110-4400	Plug assembly	1
D067	10-48		9005110-4400	Plug assembly	1
D150	10-48		11227209	Control gasket (<i>SB-2016-033</i> on page 167)	1
D250	10-48		505038	Screw, M6 x 45	6
D300	10-48		310979	Dowel pin	2
QD25	10-48		140750	Proportional solenoid, 12v, DEUTSCH connector	2
QD26	10-48		11001952	O-ring	2
QD27	10-48		11004698	Coil kit, 12v, DEUTSCH connector	2
QD28	10-48		063172	O-ring	2
QD29	10-48		11319330	Coil nut	2
QD30	10-48		11027883	Cap	2
QD100	10-48		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	10-48		716860	Screw, M5 x 12	6
D065	10-48		9005110-4400	Plug assembly	1
D150	10-48		11227209	Control gasket (<i>SB-2016-033</i> on page 167)	1
D250	10-48		505038	Screw, M6 x 45	6
D300	10-48		310979	Dowel pin	2
QD26	10-48		11001952	O-ring	2
QD28	10-48		063172	O-ring	2
QD30	10-48		11027883	Cap	2

Order code: A9

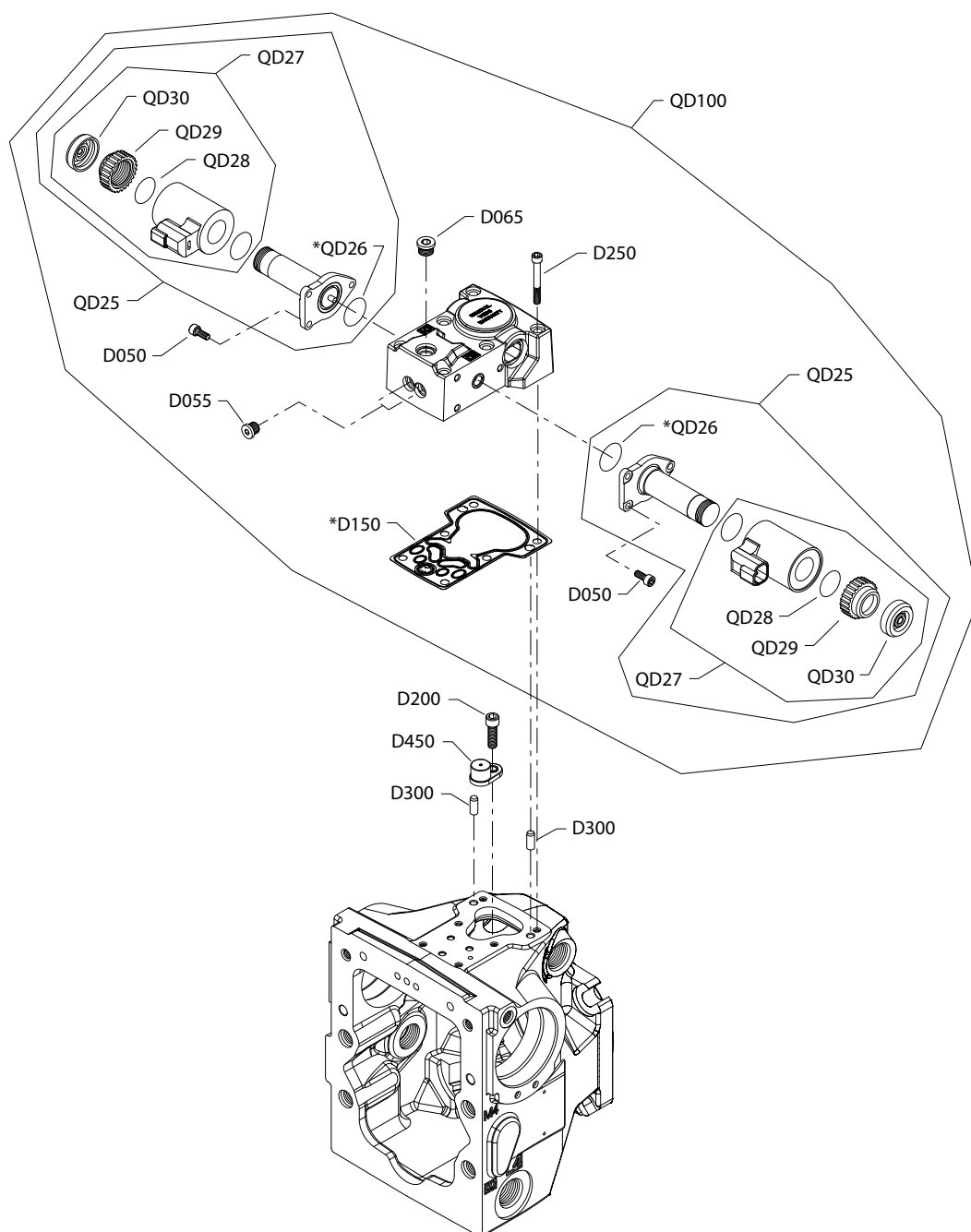
QD25	10-48		141301	Proportional solenoid, 12v, DEUTSCH connector	2
QD27	10-48		11005222	Coil kit, 12v, DEUTSCH connector	2
QD29	10-48		11319330	Coil nut	2
QD100	10-48		11025905	FNR control kit, 12v, manual override, DEUTSCH connector	1

Order code: B1

QD25	10-48		141313	Proportional solenoid, 24v, DEUTSCH connector	2
QD27	10-48		11005223	Coil kit, 24v, DEUTSCH connector	2
QD29	10-48		11319361	Coil nut	2
QD100	10-48		11025906	FNR control kit, 24v, manual override, DEUTSCH connector	1

H1P control B5

Parts configuration



Note

Generic housing shown

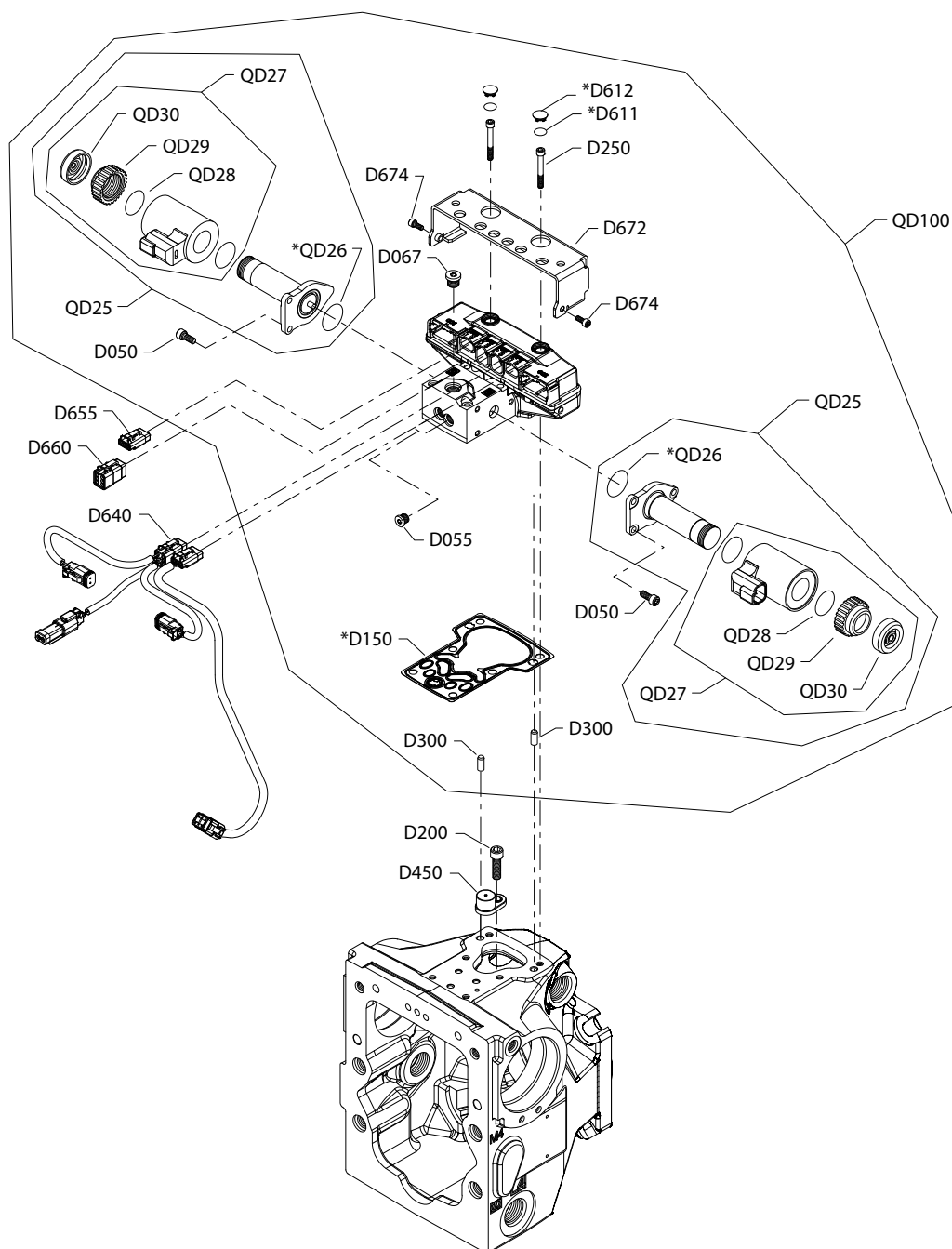
* Included in overhaul seal kit Q210

Order code: B5

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
D050	10-04		716860	Screw	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 167)	1
D200	10-04		141472	Screw	1
D250	10-04		505038	Screw	6
D300	10-04		310979	Dowel pin	2
D450	10-04		11003097	Magnet carrier	1
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		11050138	NFPE control kit, 12V, manual override	1

H1P control B7

Parts configuration



Note

Generic housing shown.

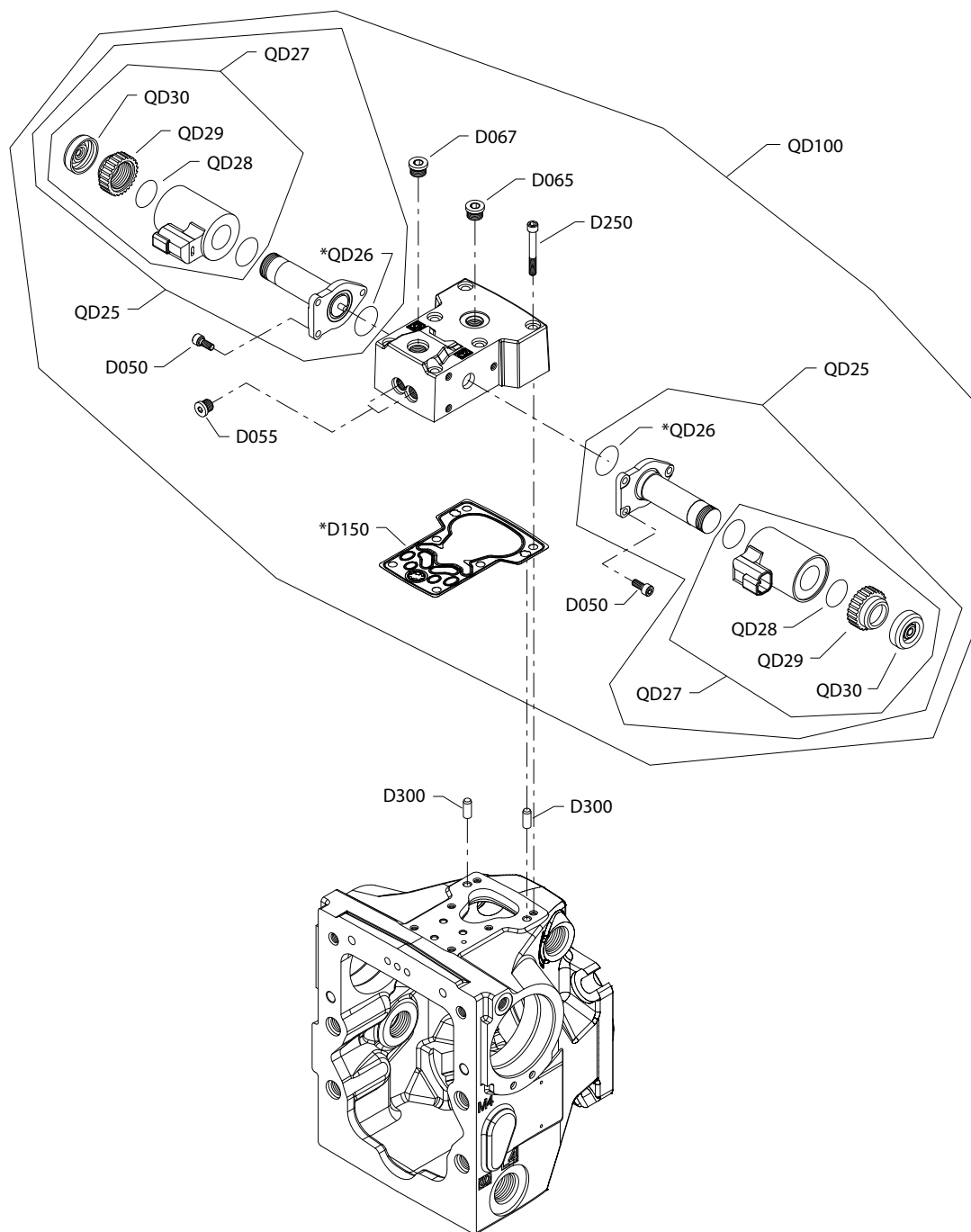
* Included in overhaul seal kit Q210

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 (<i>SB-2016-033</i> on page 167)	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 (<i>SB-2021-014</i> on page 170)	2
D611	21-13		11225703	O-ring	2
D612	10-04	21-12	11003126	Plug (<i>SB-2021-014</i> on page 170)	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		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.

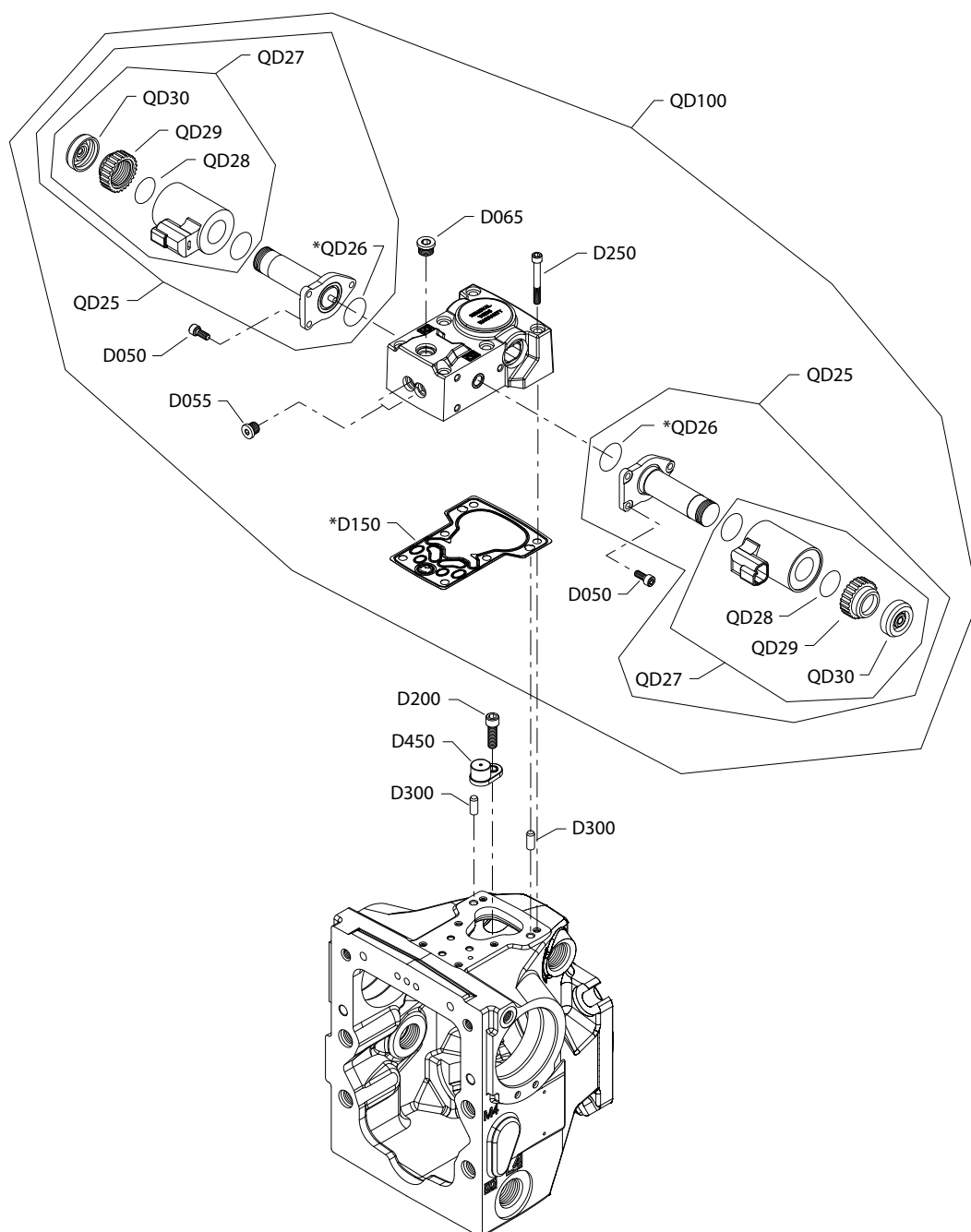
* Included in overhaul seal kit Q210

Order code: B8

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
D050	10-48		716860	Screw, M5 x 12	6
D055	10-48		11040532	Plug assembly	2
D065	10-48		9005110-4400	Plug assembly	1
D067	10-48		9005110-4400	Plug assembly	1
D150	10-48		11227209	Control gasket (<i>SB-2016-033</i> on page 167)	1
D250	10-48		505038	Screw, M6 x 45	6
D300	10-48		310979	Dowel pin	2
QD25	10-48		140751	Proportional solenoid, 24v, DEUTSCH connector	2
QD26	10-48		11001952	O-ring	2
QD27	10-48		11004700	Coil kit, 24v, DEUTSCH connector	2
QD28	10-48		063172	O-ring	2
QD29	10-48		11319361	Coil nut	2
QD30	10-48		11027883	Cap	2
QD100	10-48		11025904	NFPE control kit, 24v, manual override, DEUTSCH connector	1

H1P control B9

Parts configuration



Generic housing shown.

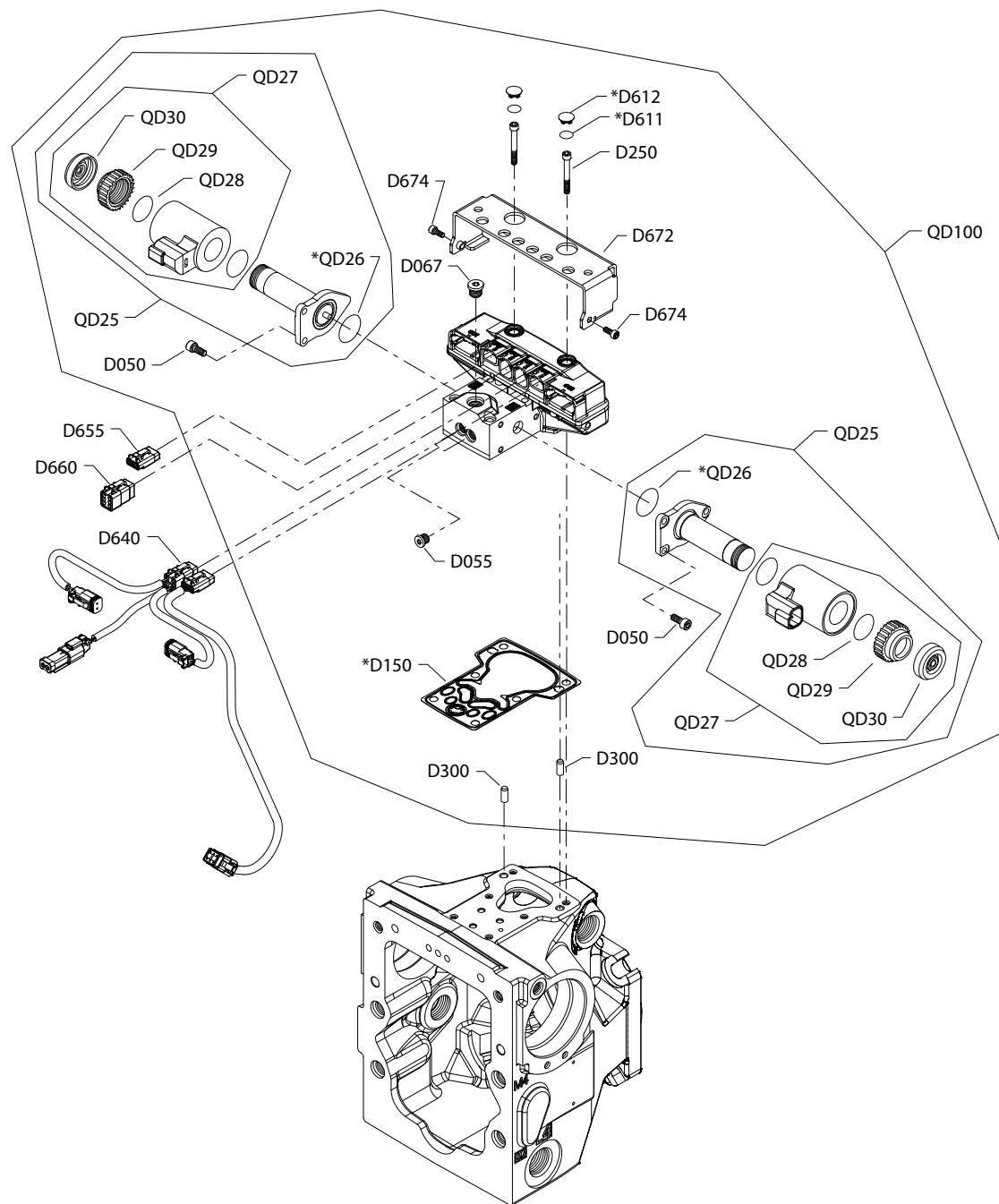
* Included in overhaul seal kit Q210

Order code: B9

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
D050	10-48		716860	Screw	6
D055	10-48		11040532	Plug assembly	2
D067	10-48		9005110-4400	Plug assembly	1
D150	10-48		11227209	Control gasket (<i>SB-2016-033</i> on page 167)	1
D200	10-48		141472	Screw	1
D250	10-48		505038	Screw	6
D300	10-48		310979	Dowel pin	2
D450	10-48		11003097	Magnet carrier	1
QD25	10-48		140751	Proportional solenoid, 24v, DEUTSCH connector	2
QD26	10-48		11001952	O-ring	2
QD27	10-48		1104700	Coil kit, 24v, DEUTSCH connector	2
QD28	10-48		063172	O-ring	2
QD29	10-48		11319361	Coil nut	2
QD30	10-48		11027883	Cap	2
QD100	10-48		11050137	NFPE control kit,, 24V, manual override	1

H1P control C2

Parts configuration



Note

Generic housing shown.

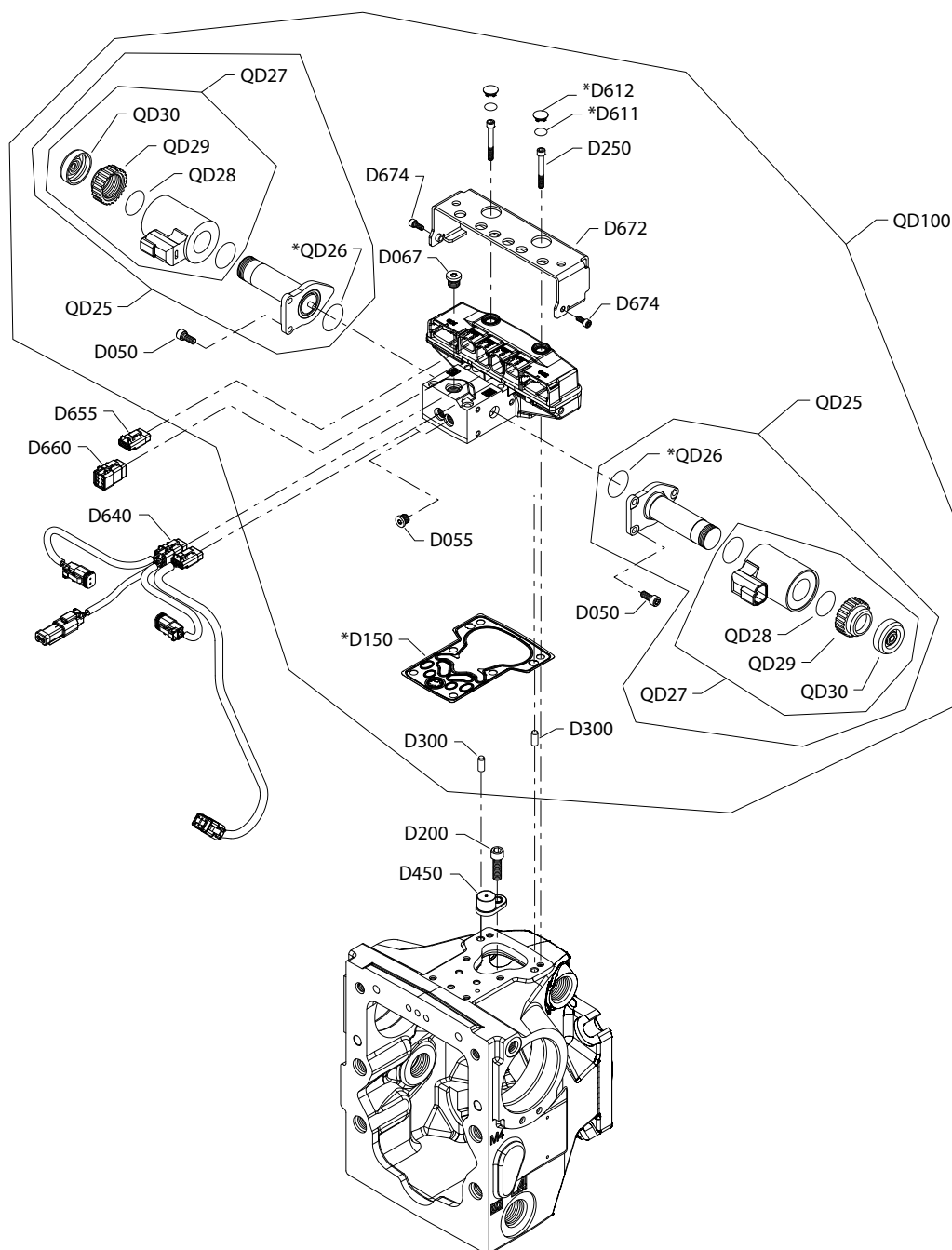
* Included in overhaul seal kit Q210

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 167)	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 170)	2
D611	21-13		11225703	O-ring	2
D612	10-04	21-12	11003126	Plug (<i>SB-2021-014</i> on page 170)	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.

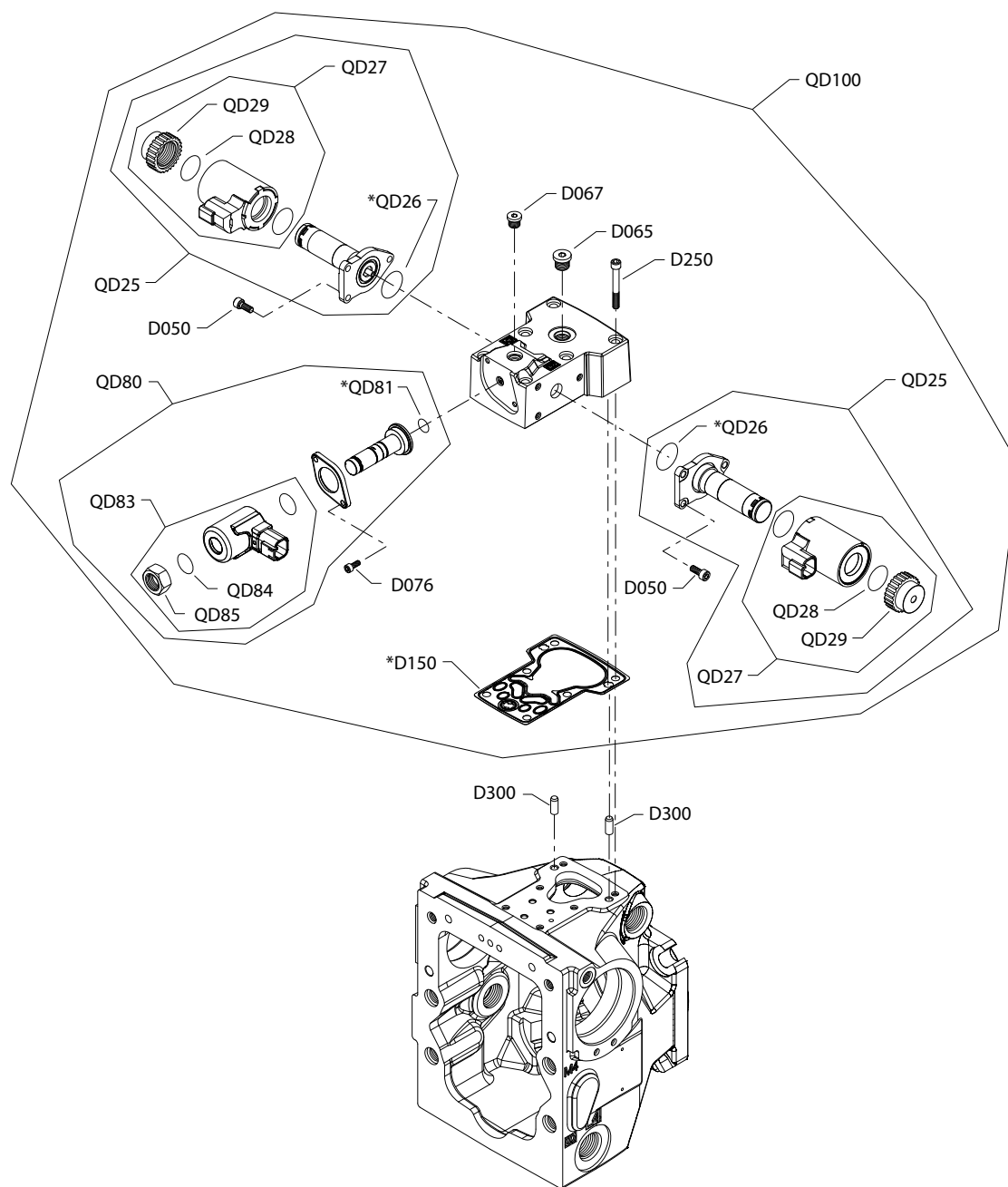
* Included in overhaul seal kit Q210

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 (<i>SB-2016-033</i> on page 167)	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 (<i>SB-2021-014</i> on page 170)	2
D611	21-13		11225703	O-ring	2
D612	10-04	21-12	11003126	Plug (<i>SB-2021-014</i> on page 170)	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		11232767	Automotive control kit, 24v, manual override	1

H1P control E2

Parts configuration



Note

Generic housing shown.

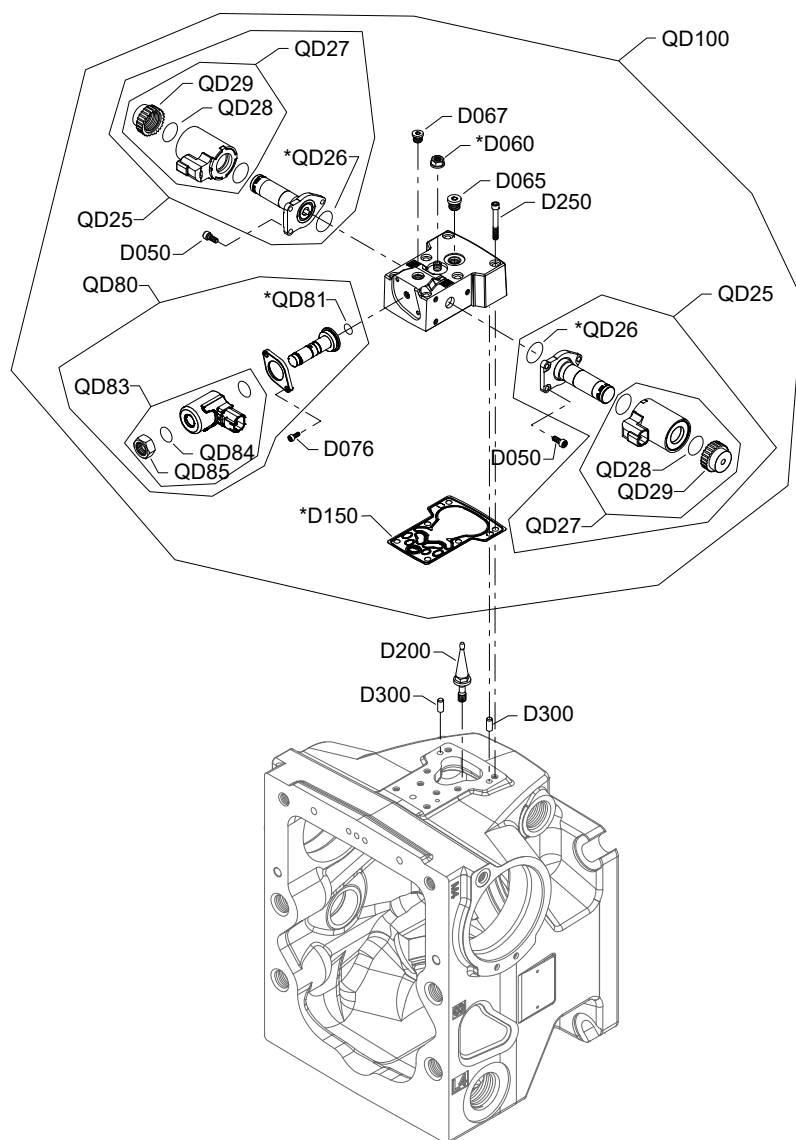
* Included in overhaul seal kit Q210

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 167)	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 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 167)	1
D200	14-25		11202172	Swash plate feedback link (<i>SB-2018-025</i> on page 168)	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

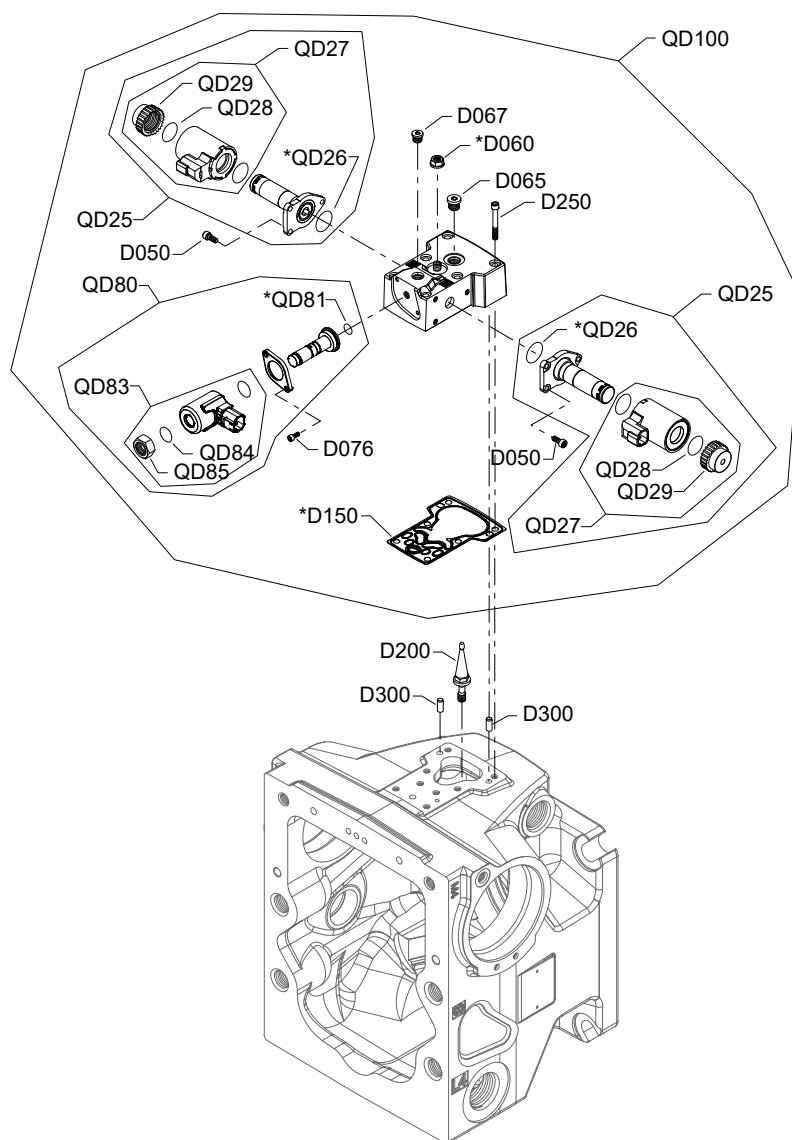
QD25	14-25		11012459	Proportional solenoid, 24v	2
QD27	14-25		11028019	Coil kit, 24v, DEUTSCH connector	2
QD29	14-25		11028024	Coil nut	2
QD80	14-25		11231201	Solenoid valve, on/off, 24v	1
QD83	14-25		11232697	Coil kit, 24v	1
QD84	14-25		11232752	O-ring	1
QD100	14-25		11147423	EDC kit, 24v, CCO	1

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

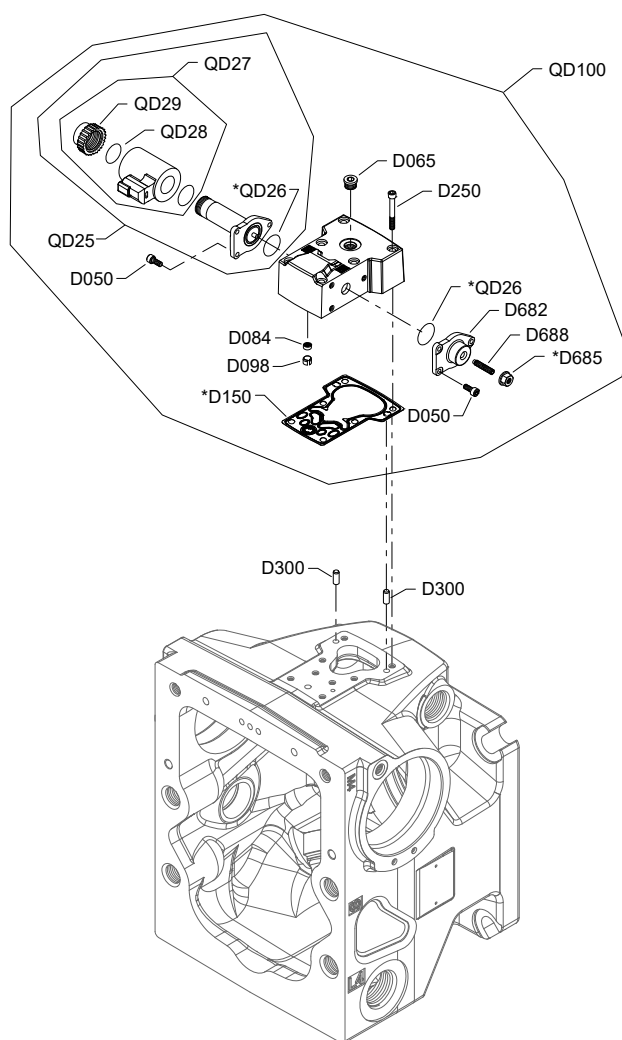
Generic housing shown.

* 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 167)	1
D200	14-25		11202172	Swashplate feedback link (<i>SB-2018-025</i> on page 168)	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 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 167)	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

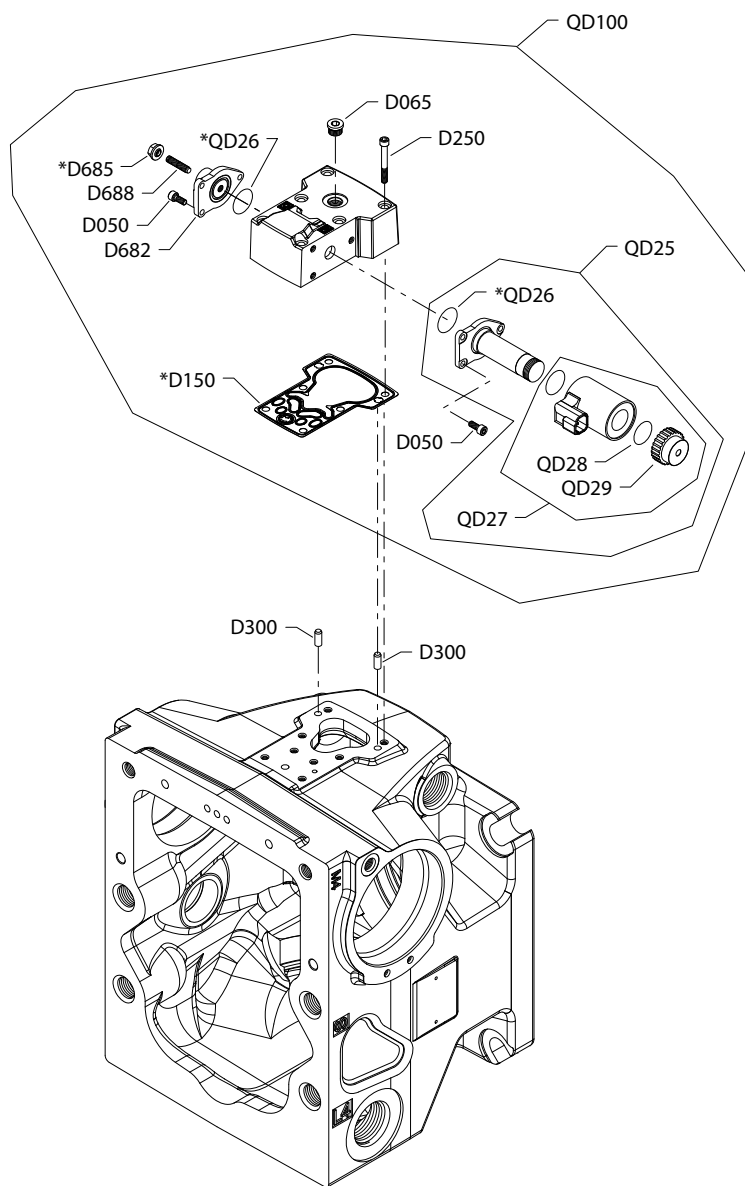
QD25	12-33		11012457	Proportional solenoid, 12v	1
QD27	12-33		11028018	Coil kit, 12v, DEUTSCH connector	1
QD29	12-33		11027046	Coil nut	1
QD100	12-33		11081306	FDC kit, 12v, DEUTSCH connector	1

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.

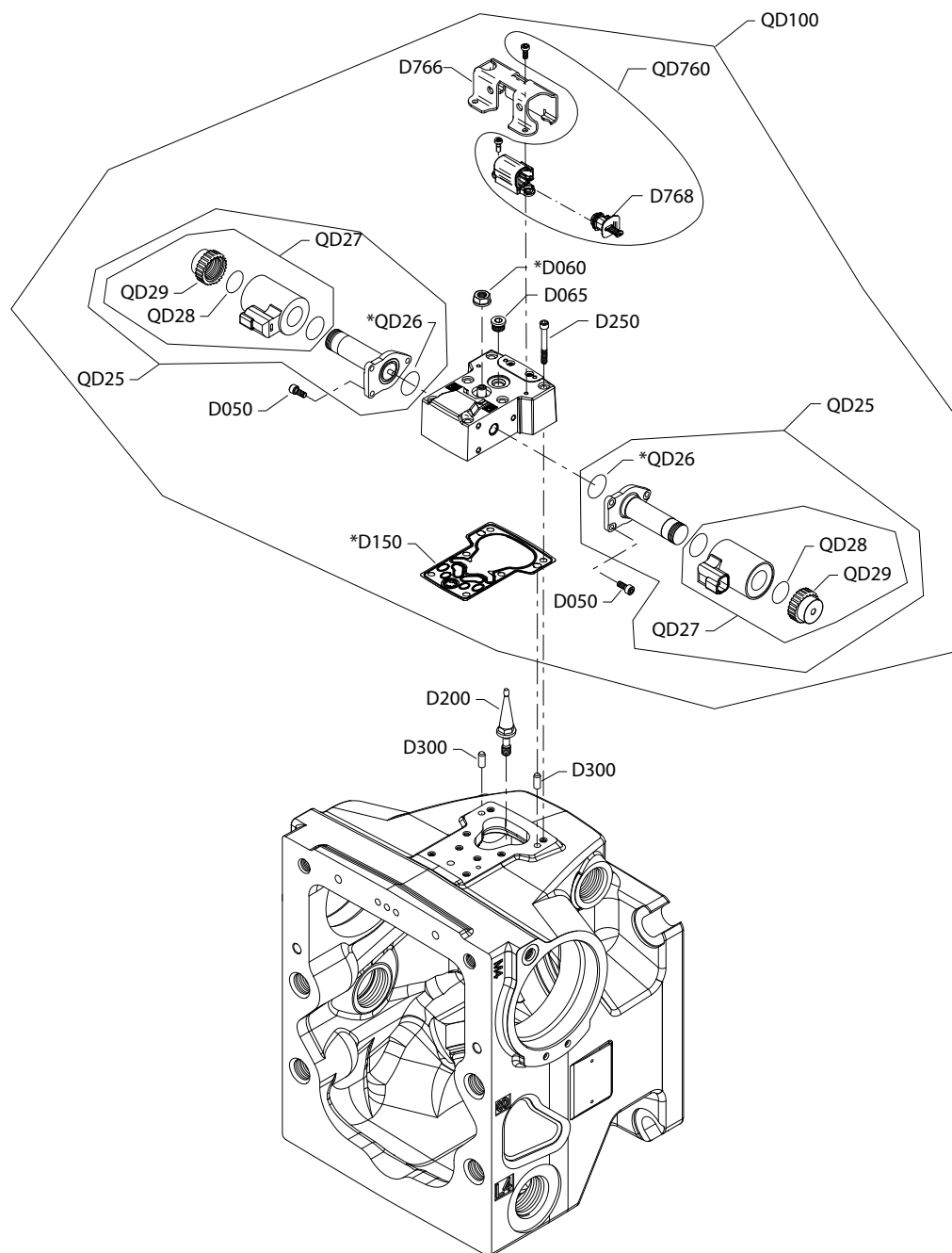
* Included in overhaul seal kit

Order code: F4

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
D050	18-12		716860	Screw, M5 x 12	6
D065	18-12		9005110-4400	Plug assembly	1
D150	18-12		11227209	Control gasket (<i>SB-2016-033</i> on page 167)	1
D250	18-12		505038	Screw, M6 x 45	6
D300	18-12		310979	Dowel pin	2
D682	18-12		11079441	Flange	1
D685	18-12		612291 (9003508-0008)	Seal nut, M8	1
D688	18-12		11079453	Adjusting screw	1
QD25	18-12		11012459	Proportional solenoid, 24v	1
QD26	18-12		11001952	O-ring	2
QD27	18-12		11028019	Coil kit, 24v, DEUTSCH connector	1
QD28	18-12		063172	O-ring	1
QD29	18-12		11028024	Coil nut	1
QD100	18-12		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

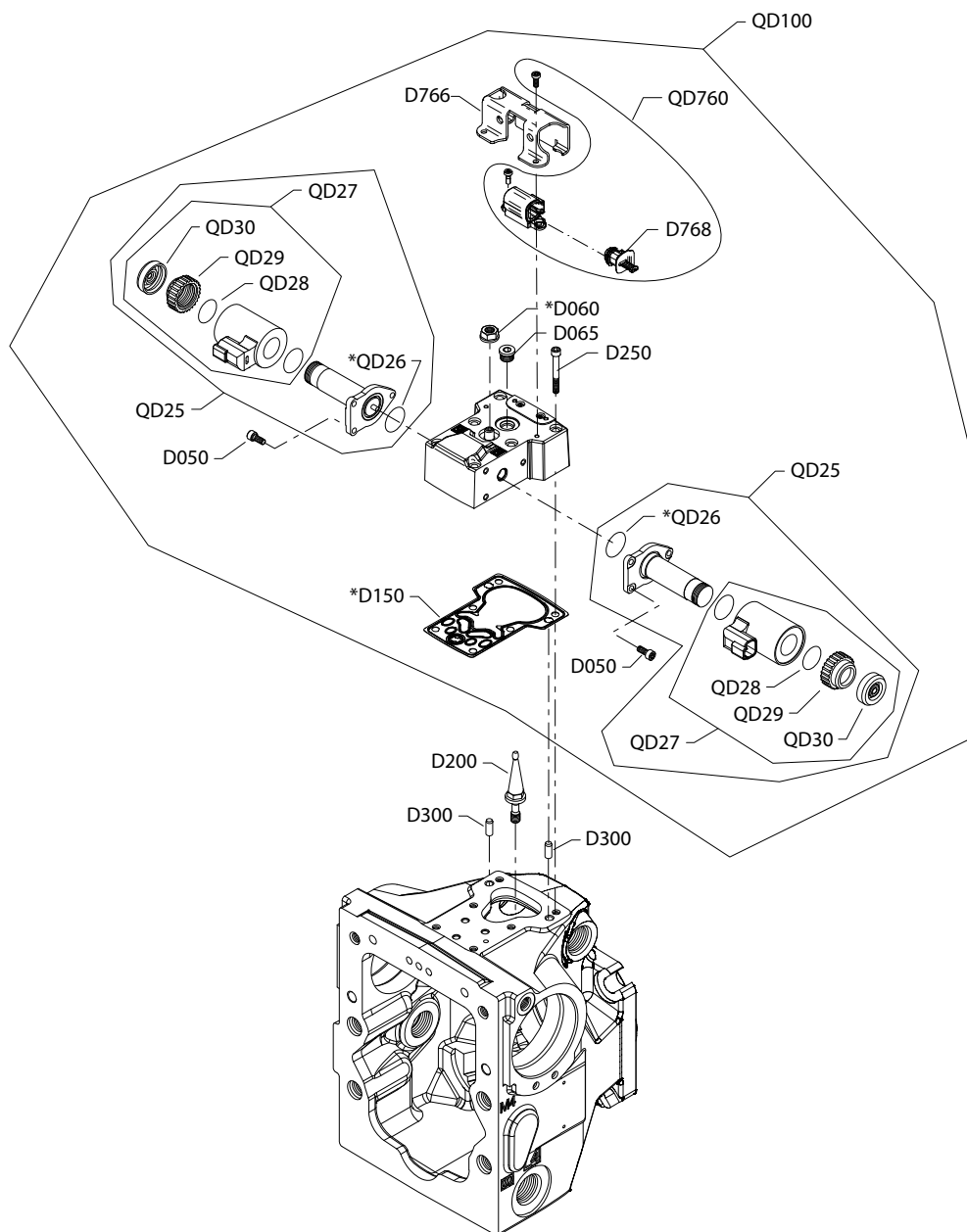
QD100	18-11		11196619	EDC kit, 12v, ASNSR	1
QD25	18-11		11012457	Proportional solenoid, 12v	2
QD27	18-11		11028018	Coil kit, 12V, DEUTSCH connector	2
QD29	18-11		11027046	Nut	2

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

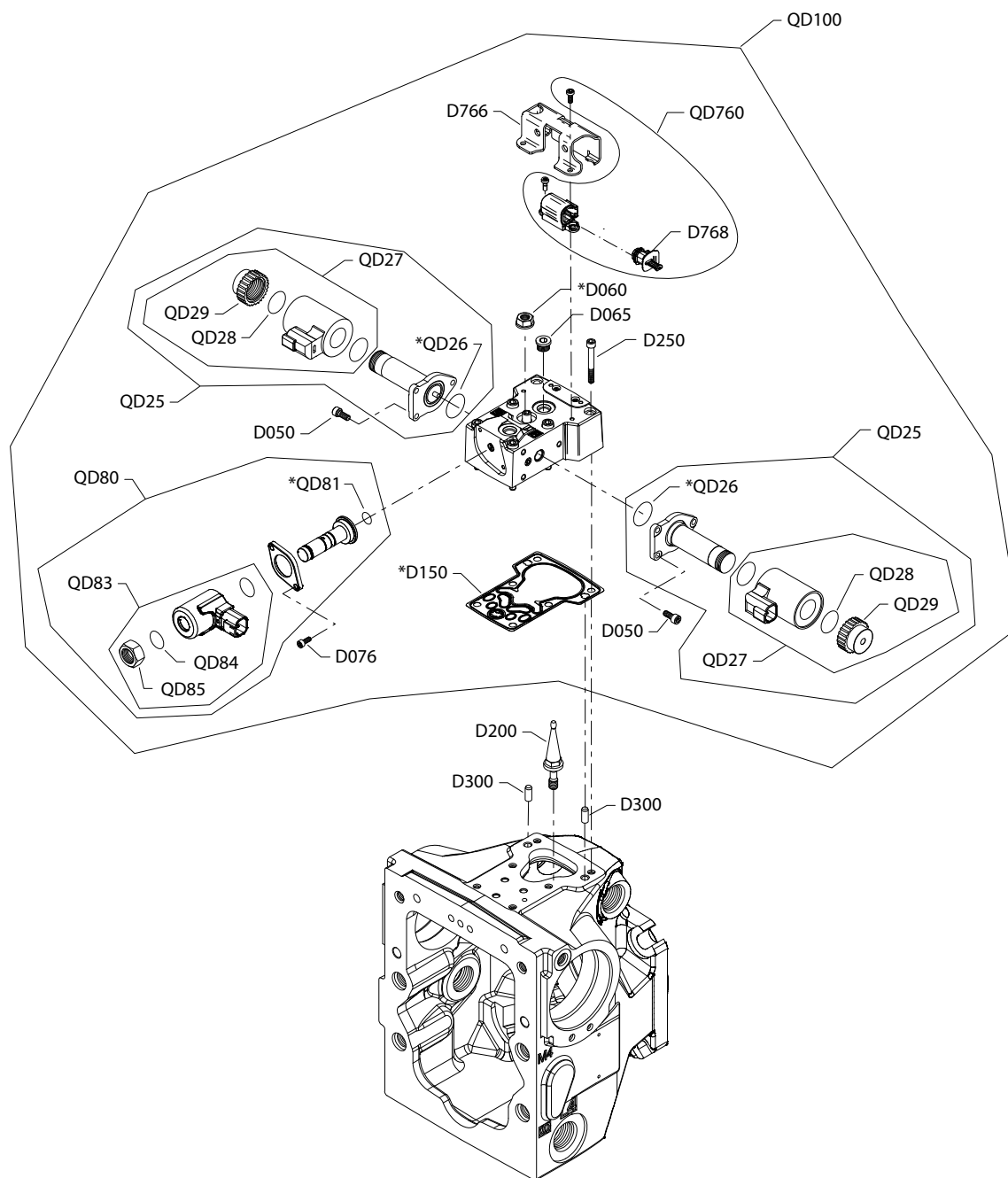
QD100	18-13		11179281	EDC kit, 12V	1
QD25	18-13		140750	Proportional solenoid, 12V	2
QD27	18-13		11004698	Coil kit, 12V, DEUTSCH connector	2
QD29	18-13		11319330	Coil nut	2

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

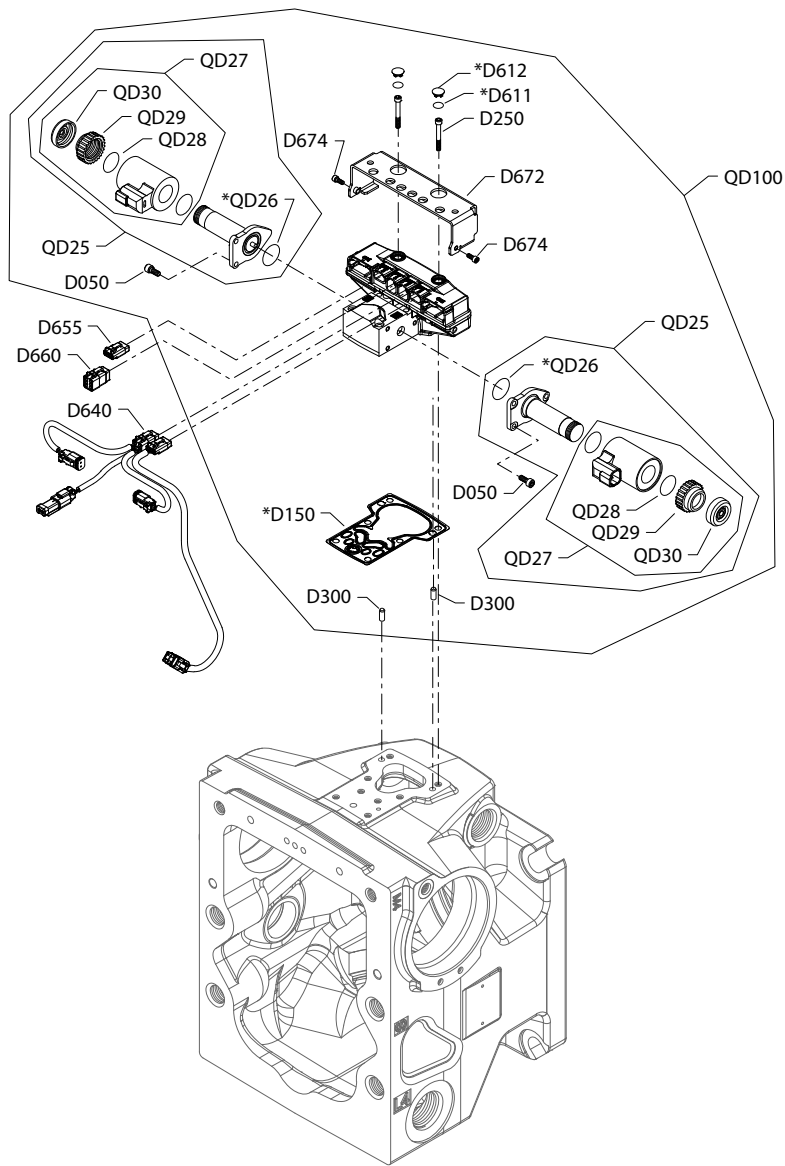
Order code: H8

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 (SB-2021-014 on page 170)	2
D612	21-13		11223708	Plug	2
D611	16-29	21-12	11066774	O-ring (SB-2021-014 on page 170)	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

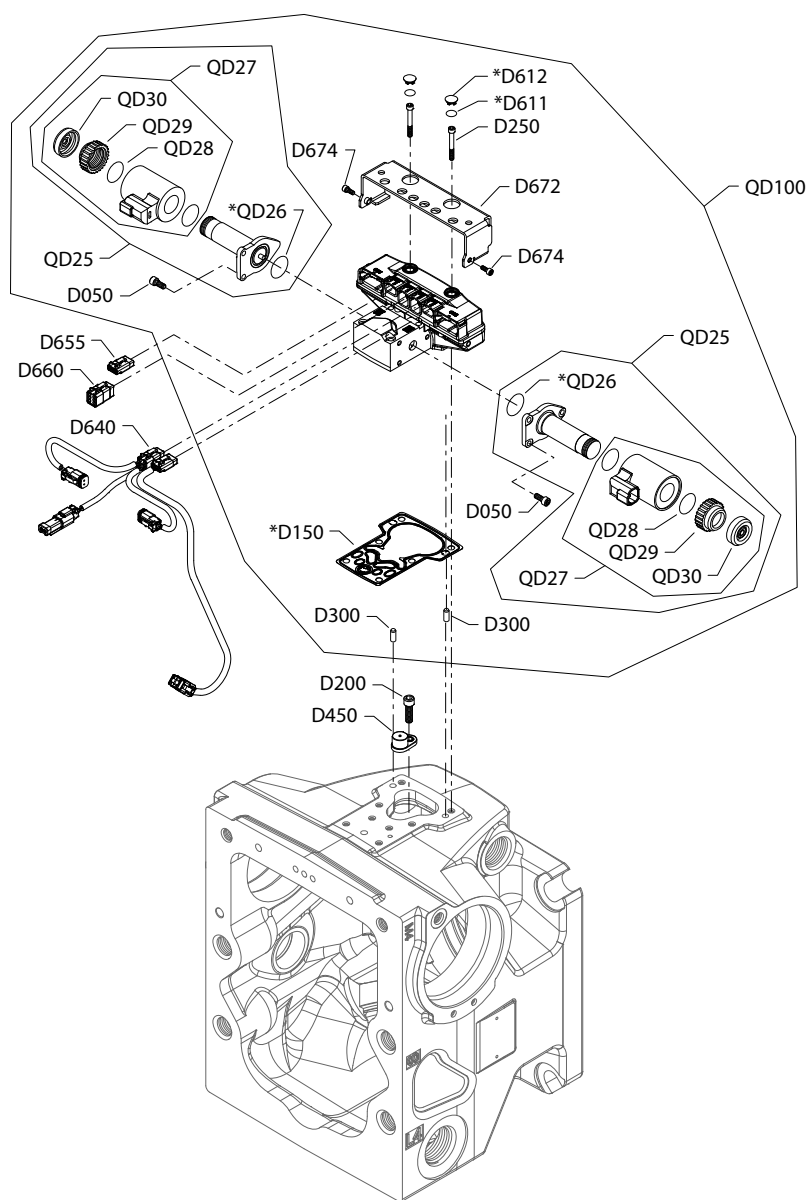
Order code: J1

QD100	16-29		11232792	Automotive control kit, 12V, manual override (SB-2021-014 on page 170)	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



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 170)	2
D611	21-13		11225703	O-ring	2
D612	16-29	21-12	11003126	Plug (SB-2021-014 on page 170)	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

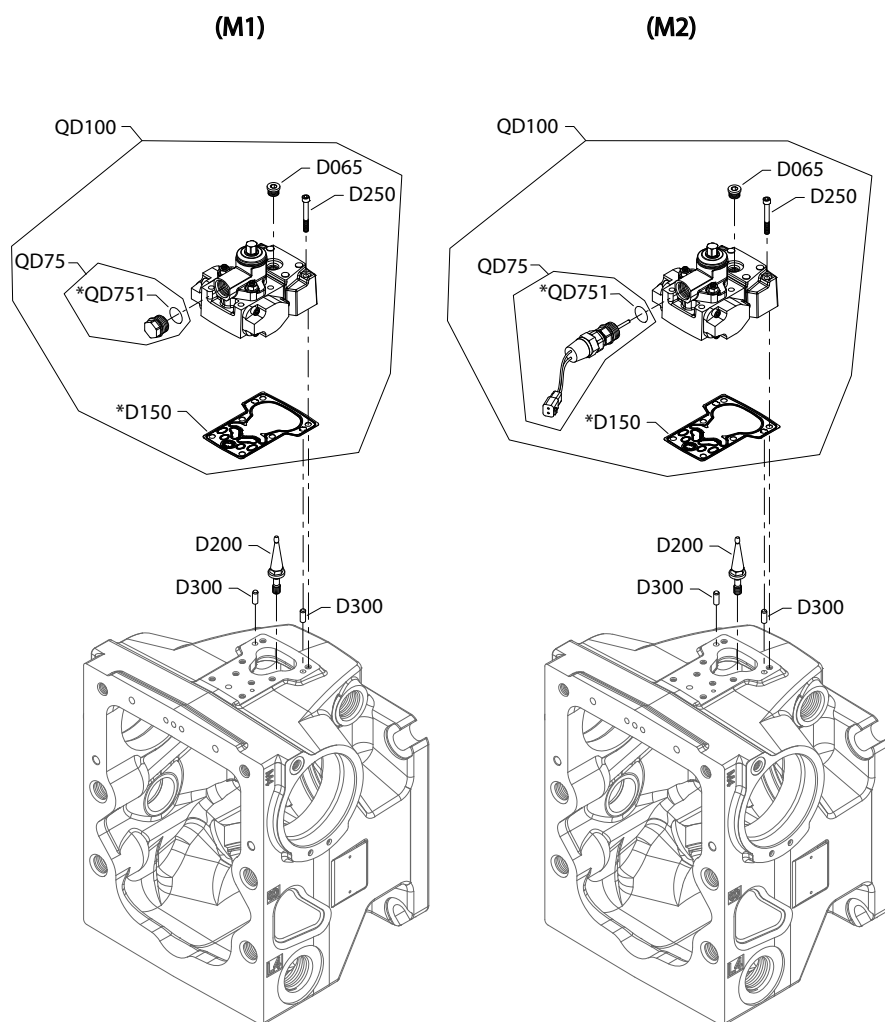
QD100	16-29		11232794	Automotive control kit, 12V, manual override	1
QD25	16-29		140750	Proportional solenoid, 12V	2
QD27	16-29		11004698	Coil kit, 12v, DEUTSCH connector	2
QD29	16-29		11319330	Coil nut	2

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 167)	1
D200	14-01		11202172	Swashplate feedback link (<i>SB-2018-025</i> on page 168)	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

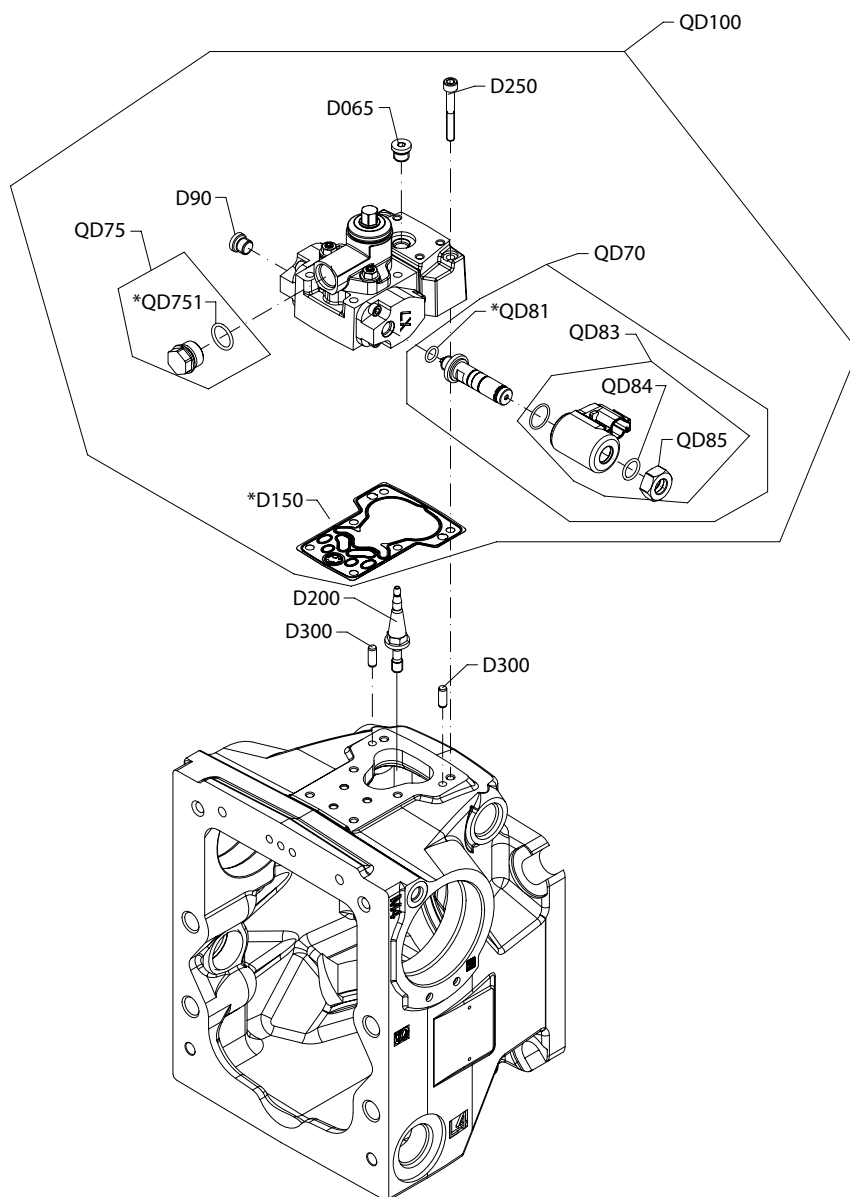
QD75	14-01		11119332	Spring seat assembly	1
QD100	14-01		11141225	MDC kit	1

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 167)	1
D200	14-01		11202172	Swashplate feedback link (<i>SB-2018-025</i> on page 168)	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 173)	1
QD85	14-01		11140394	Coil nut	1
QD751	14-01		001131 (9004201-5000)	O-ring	1

Order code: M3

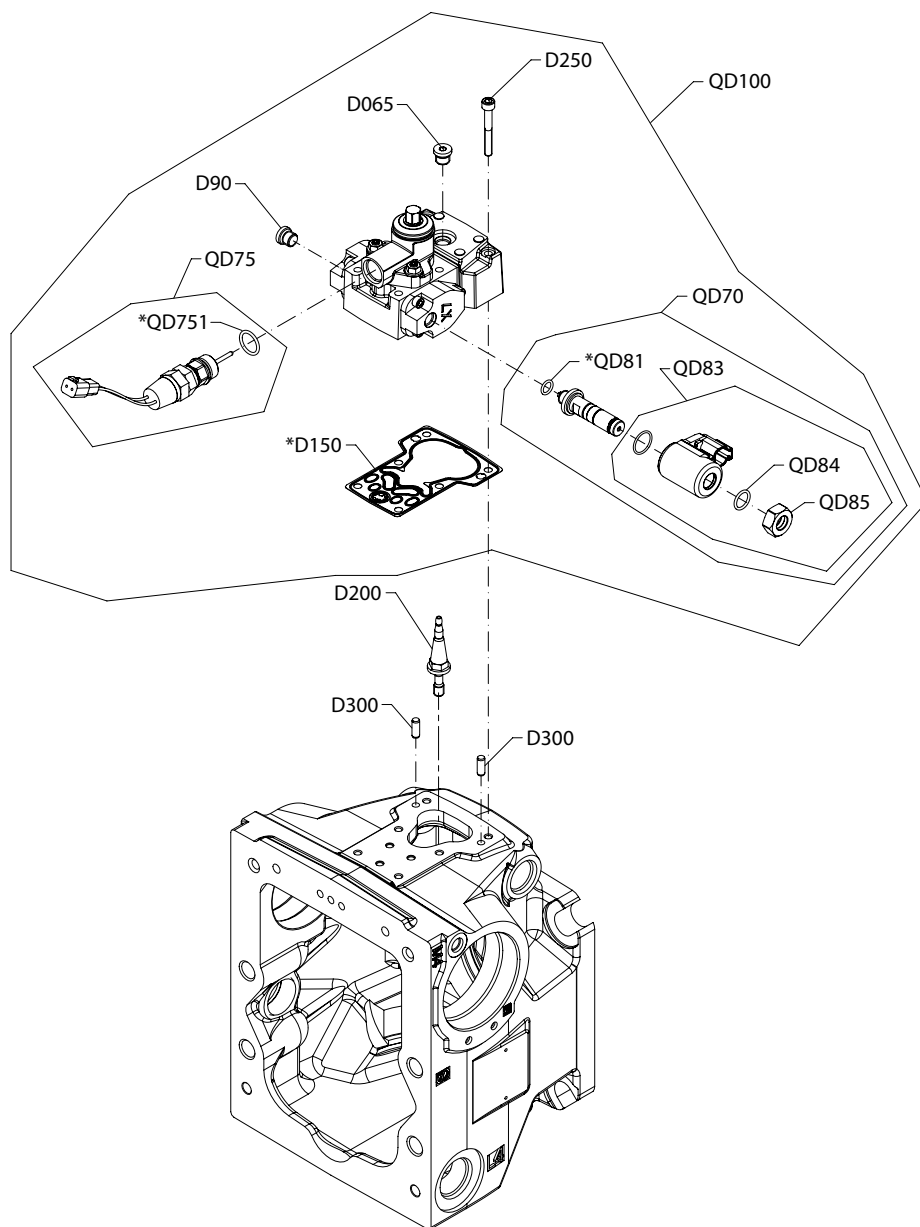
QD70	14-01		11231212	Solenoid valve, 12v (<i>SB-2024-007</i> on page 173)	1
QD83	24-01		11253939	Coil kit, 12v (<i>SB-2024-007</i> on page 173)	1
QD100	14-01		11218976	MDC kit, 12v, CCO	1

Order code: M4

QD70	14-01		11231213	Solenoid valve, 24v (<i>SB-2024-007</i> on page 173)	1
QD83	24-01		11253938	Coil kit, 24v, CCO (<i>SB-2024-007</i> on page 173)	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 167)	1
D200	14-01		11202172	Swashplate feedback link (<i>SB-2018-025</i> on page 168)	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 173)	1
QD85	14-01		11140394	Coil nut	1
QD751	14-01		001131 (9004201-5000)	O-ring	1

Order code: M5

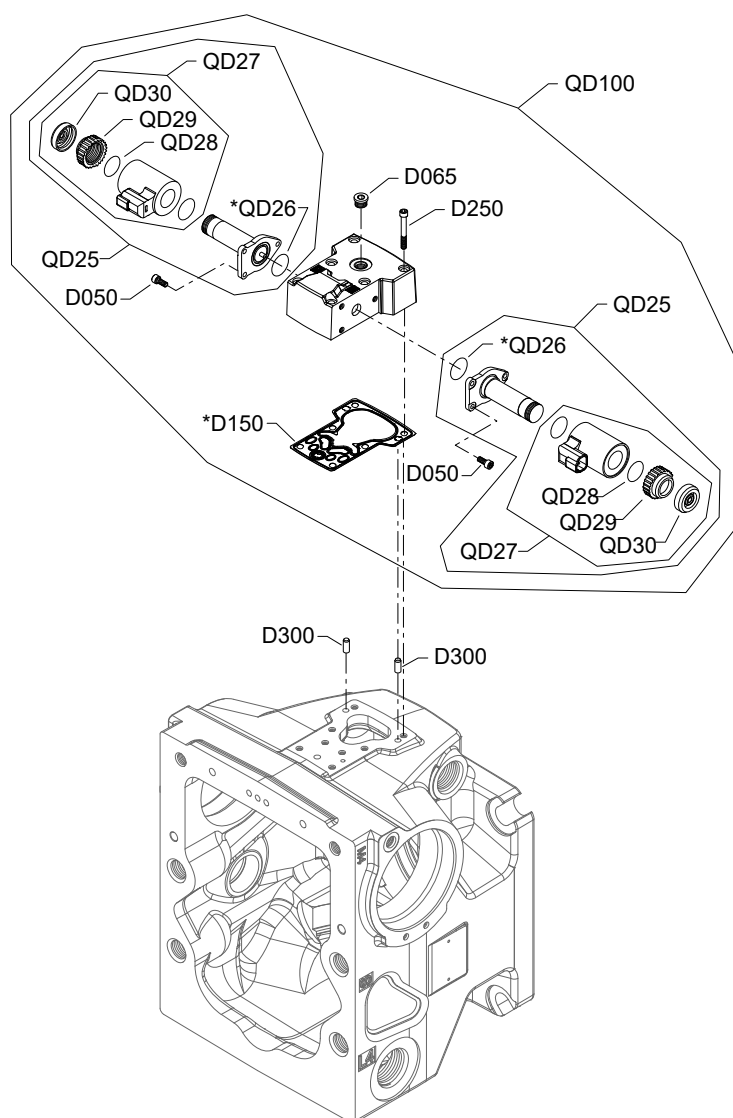
QD70	14-01		11231212	Solenoid valve, 12v (<i>SB-2024-007</i> on page 173)	1
QD83	24-01		11253939	Coil kit, 12v (<i>SB-2024-007</i> on page 173)	1
QD100	14-01		11218978	MDC kit, 12v, neutral start switch assembly, CCO	1

Order code: M6

QD70	14-01		11231213	Solenoid valve, 24v (<i>SB-2024-007</i> on page 173)	1
QD83	24-01		11253938	Coil kit, 24v (<i>SB-2024-007</i> on page 173)	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

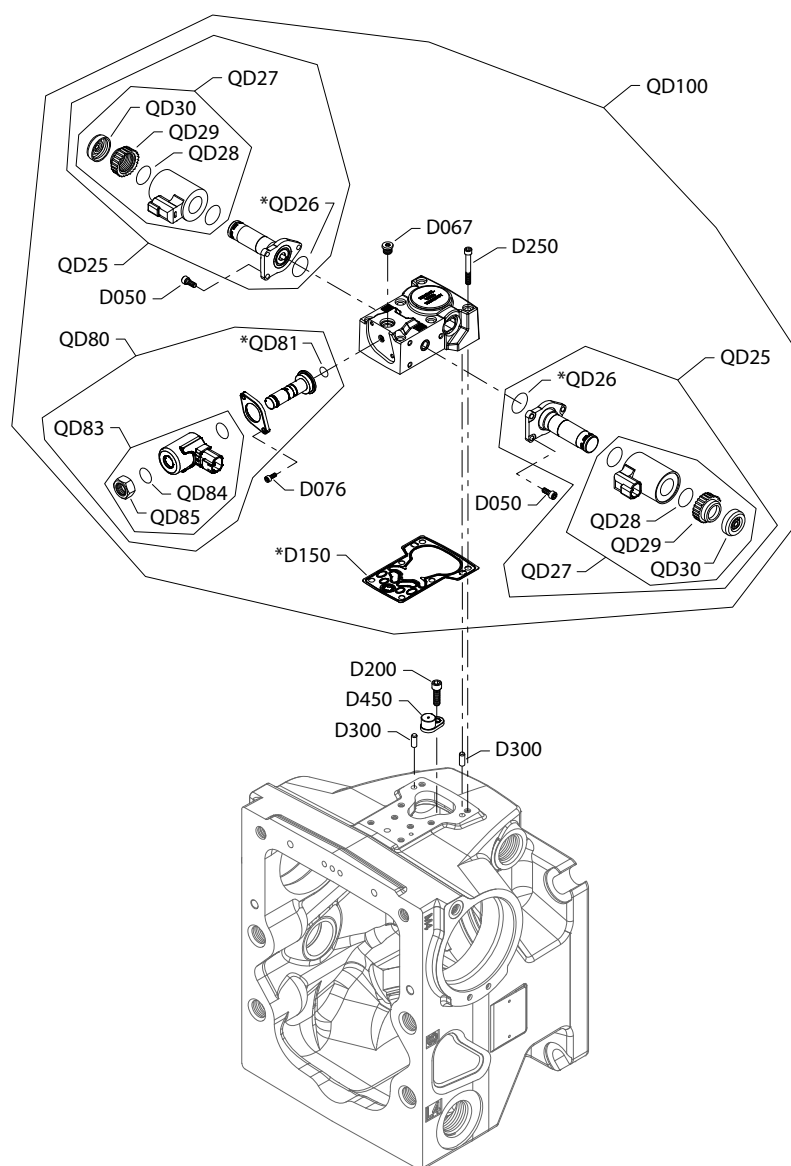
QD25	16-30		140750	Proportional solenoid, 12v, DEUTSCH connector	2
QD27	16-30		11004698	Coil kit, 12v, DEUTSCH connector	2
QD29	16-30		11319330	Coil nut	2
QD100	16-30		11147921	NFPE control kit, 12v, manual override, DEUTSCH connector	1

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

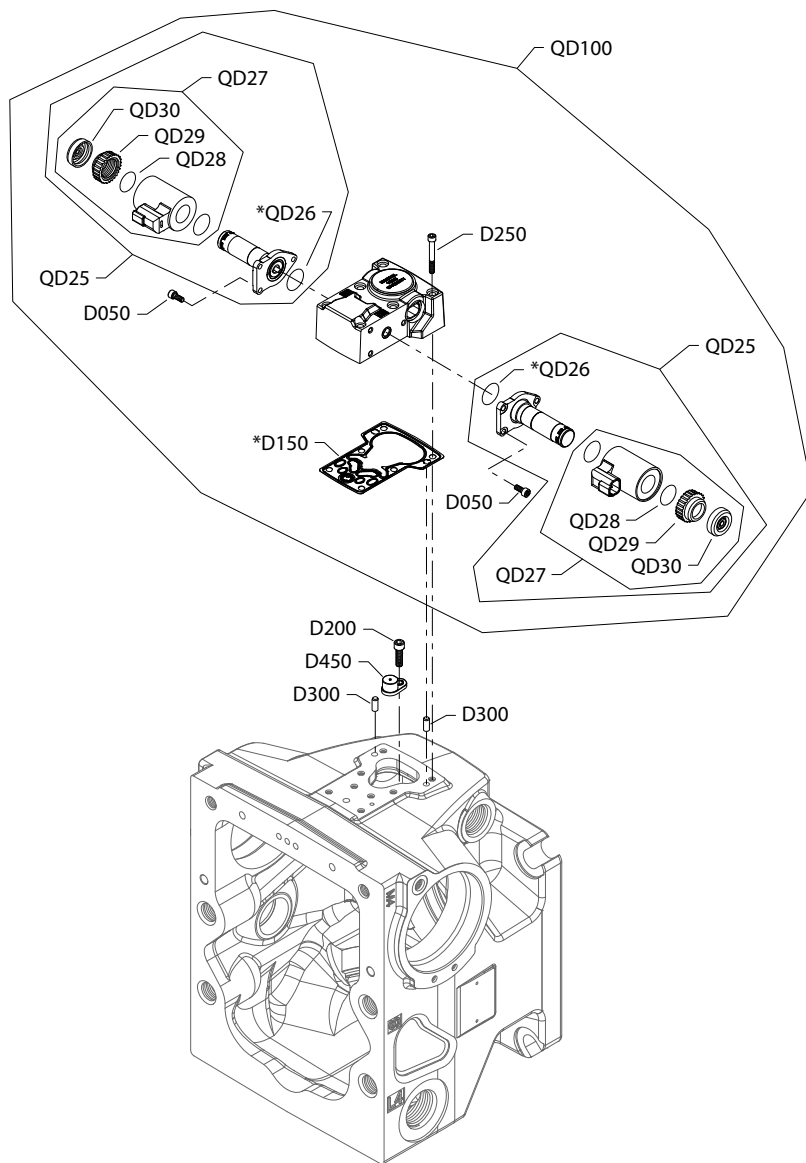
QD25	16-30		140750	Proportional solenoid, 12v	2
QD27	16-30		11004698	Coil kit, 12v, DEUTSCH connector	2
QD29	16-30		11319330	Coil nut	2
QD80	16-30		11231200	Solenoid, 12v, DEUTSCH connector	1
QD83	16-30		11232757	Coil kit, 12v, DEUTSCH connector	1
QD84	16-30		11232752	O-ring	1
QD100	16-30		11147920	NFPE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

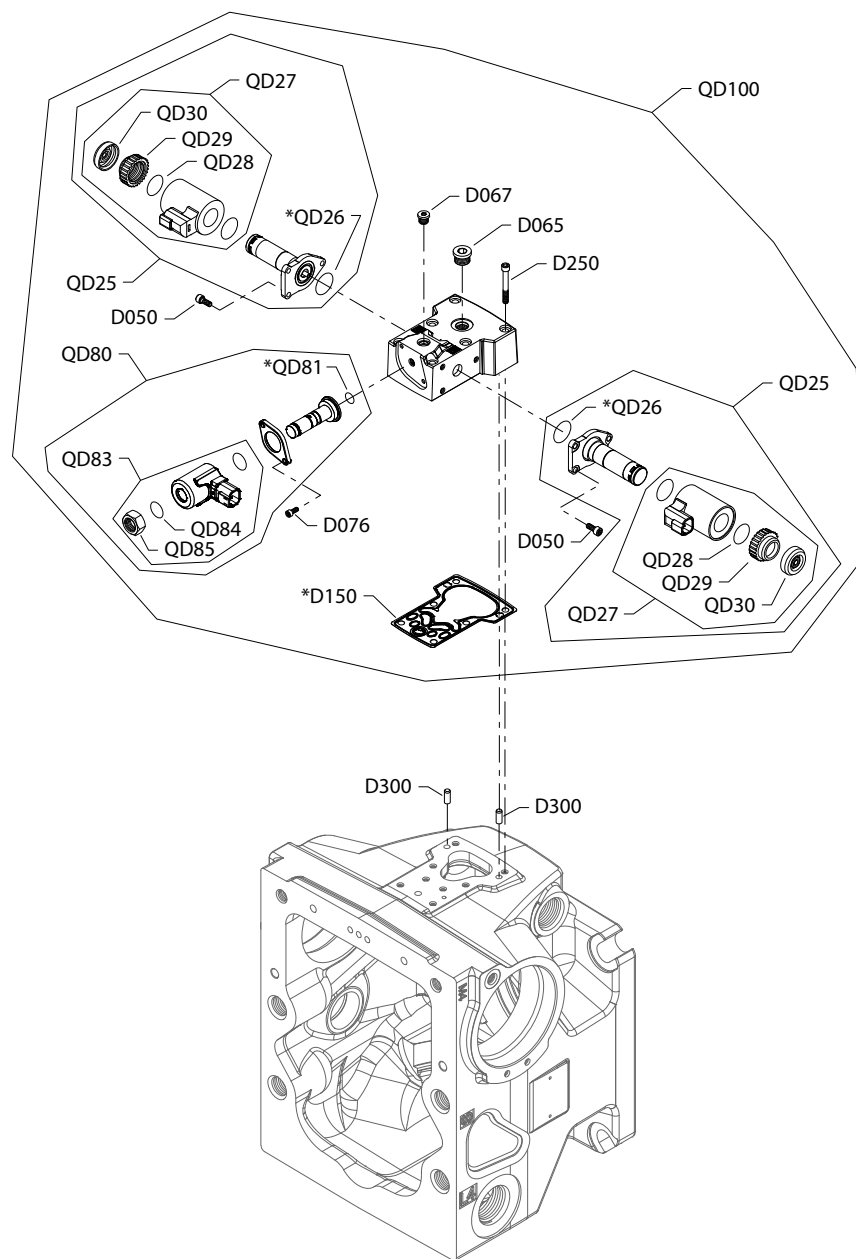
QD25	16-30		140750	Proportional solenoid, 12v	2
QD27	16-30		11004698	Coil kit, 12v, DEUTSCH connector	2
QD29	16-30		11319330	Coil nut	2
QD100	16-30		11147918	NFPE control kit, 12v, manual override	1

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

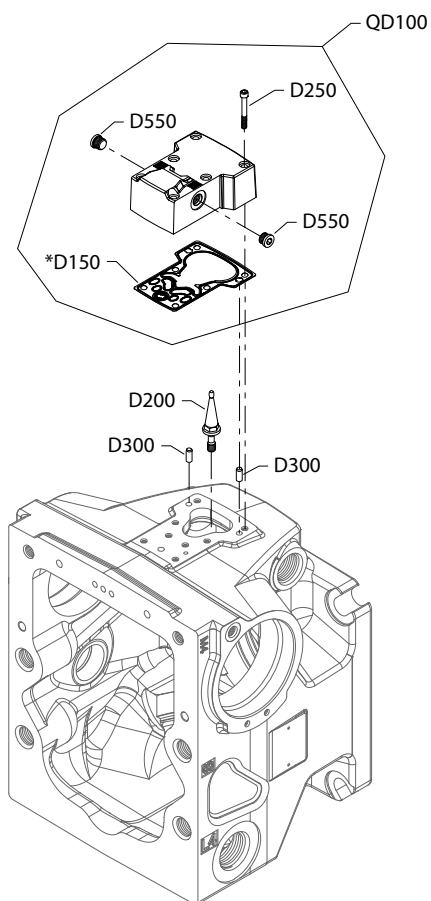
Order code: N8

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

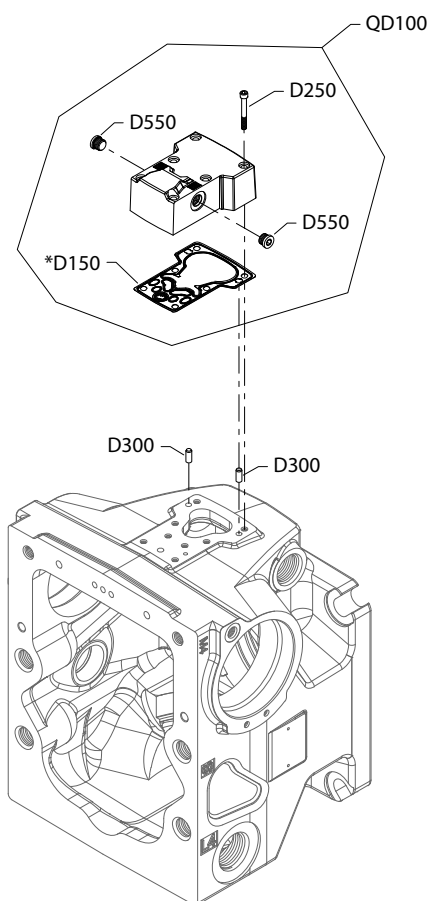
H1P control ND, NN

ND and NN configuration

(ND)



(NN)



Generic housing shown

* Included in overhaul seal kit Q210

Order code: ND

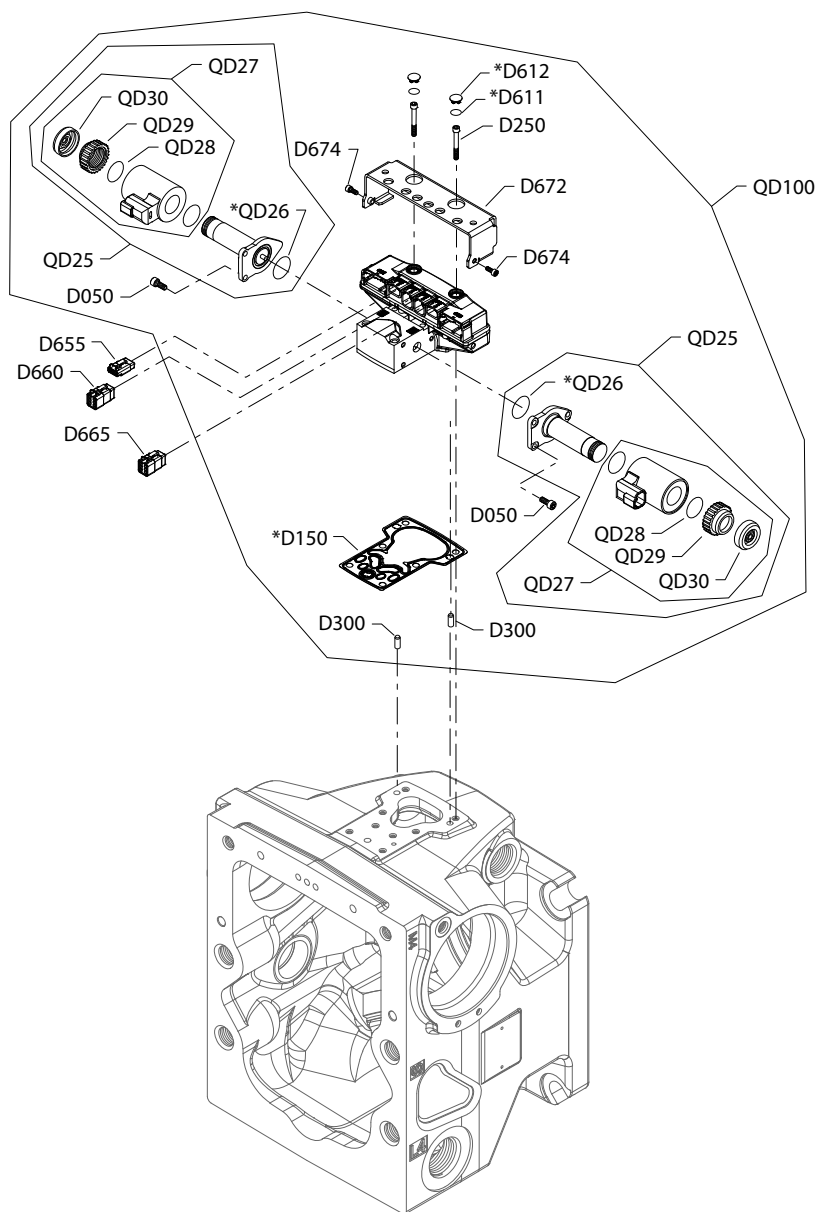
Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
D150	16-02		11227209	Control gasket	1
D200	16-02		11202172	Swashplate feedback link	1
D250	16-02		505038	Screw, M6 x 45	6
D300	16-02		310979	Dowel pin	2
D550	16-02		140644	Plug assembly	2
QD100	16-02		11121984	Control cover kit	1

Order code: NN

D150	14-01		11227209	Control gasket (<i>SB-2016-033</i> on page 167)	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

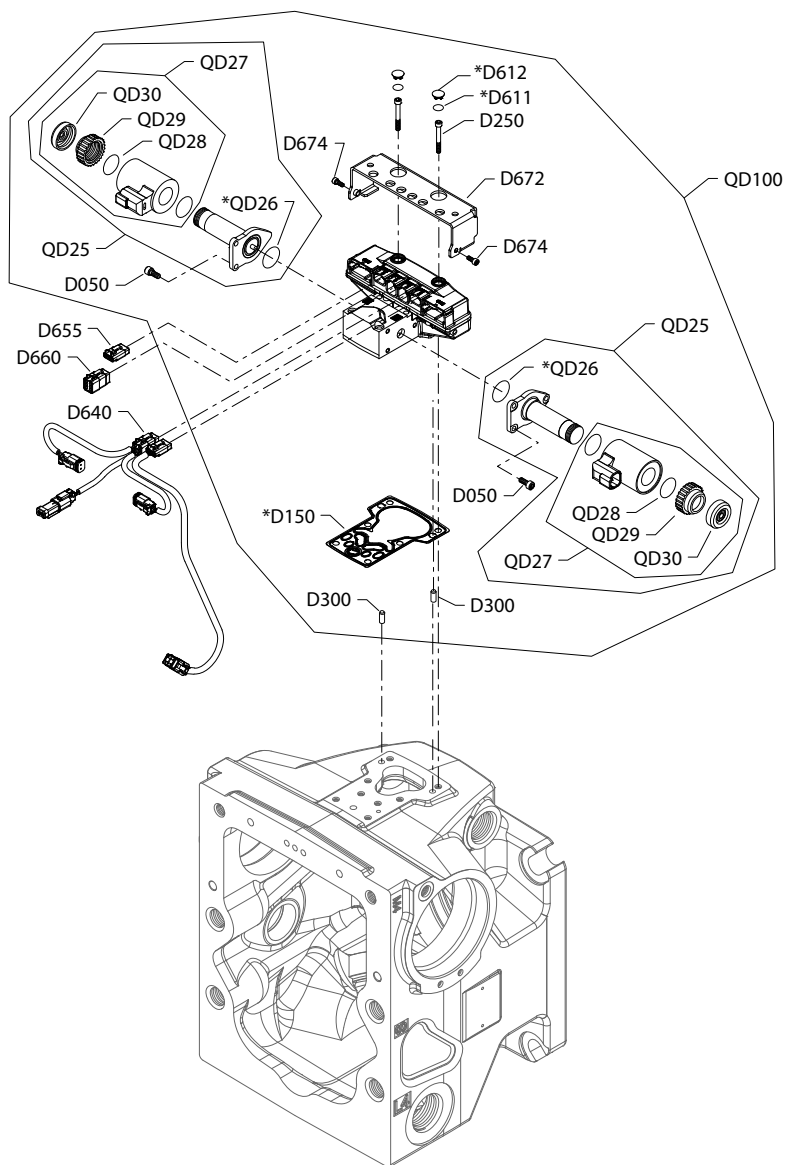
* Included in overhaul kit Q210

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 170)	2
D611	21-13		11225703	O-ring	2
D612	17-15	21-12	11003126	Plug (SB-2021-014 on page 170)	2
D612	21-13		11223708	Plug	2
D655	17-15		11084827	Blank, connector DTM 06-3S	1
D660	17-15		11084822	Blank, connector DTM 06-6S	1
D665	17-15		11084827	Blank, connector DTM 06-3S	1
D672	17-15		11151875	Protection	1
D674	17-15		716860	Screw, M5 x 12	2
QD25	17-15		140750	Proportional solenoid, 12 volt	2
QD26	17-15		11001952	O-ring	2
QD27	17-15		11004698	Coil kit, 12v, DEUTSCH connector	2
QD28	17-15		063172	O-ring	2
QD29	17-15		11319330	Coil nut	2
QD30	17-15		11027883	Cap	2
QD100	17-15		11232768	Automotive control kit, 12v, manual override	1

H1P control P6, P7

P6 and P7 configuration



Generic housing shown

* Included in overhaul seal kit Q210

Common parts

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
D050	16-30		716860	Screw, M5 x 12	6
D150	16-30		11227209	Control gasket	1
D250	16-30		505038	Screw, M6 x 45	6
D300	16-30		11036469	Dowel pin	2
D611	16-30	21-12	11066774	O-ring (<i>SB-2021-014</i> on page 170)	2
D611	21-13		11225703	O-ring	2
D612	16-30	21-12	11003126	Plug (<i>SB-2021-014</i> on page 170)	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

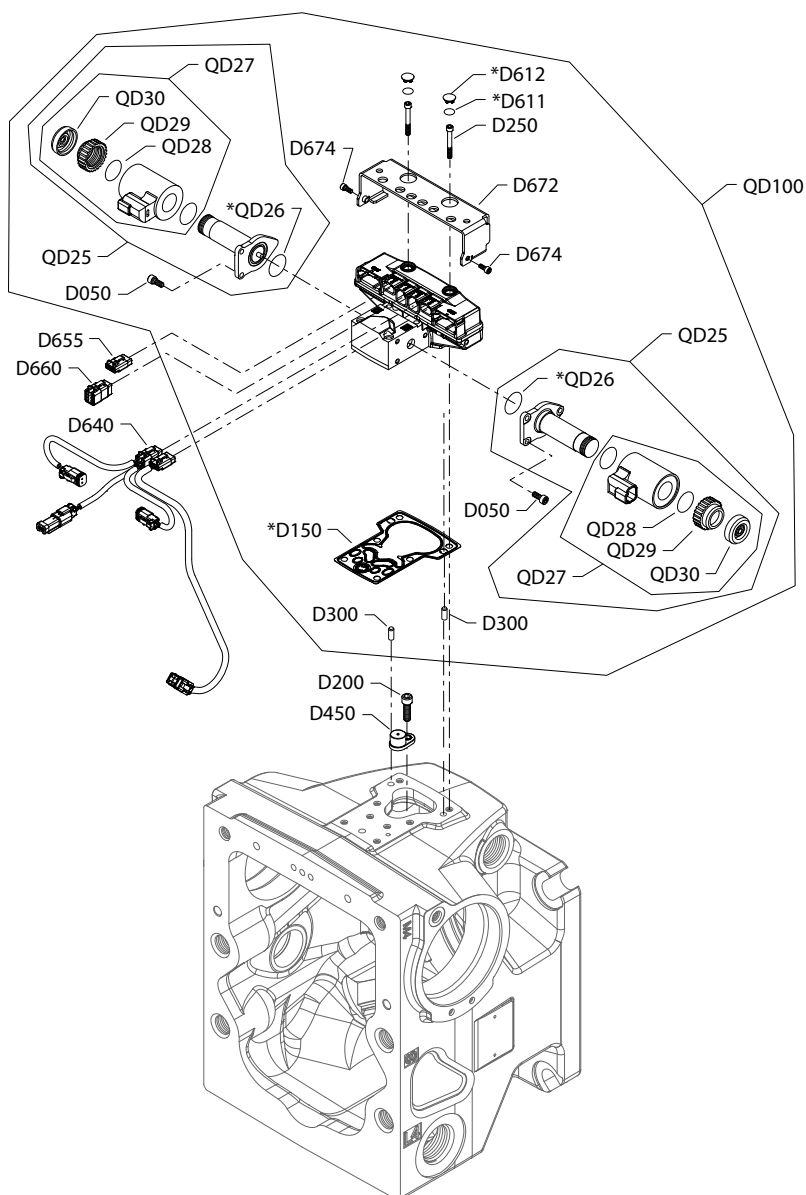
QD25	16-30		140750	Proportional solenoid, 12 volt	2
QD27	16-30		11004698	Coil kit, 12v, DEUTSCH connector	2
QD29	16-30		11319330	Coil nut	2
QD100	16-30		11232768	Automotive control kit, 12v, manual override	1

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 170)	2
D611	21-13		11225703	O-ring	2
D612	16-30	21-12	11003126	Plug (SB-2021-014 on page 170)	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

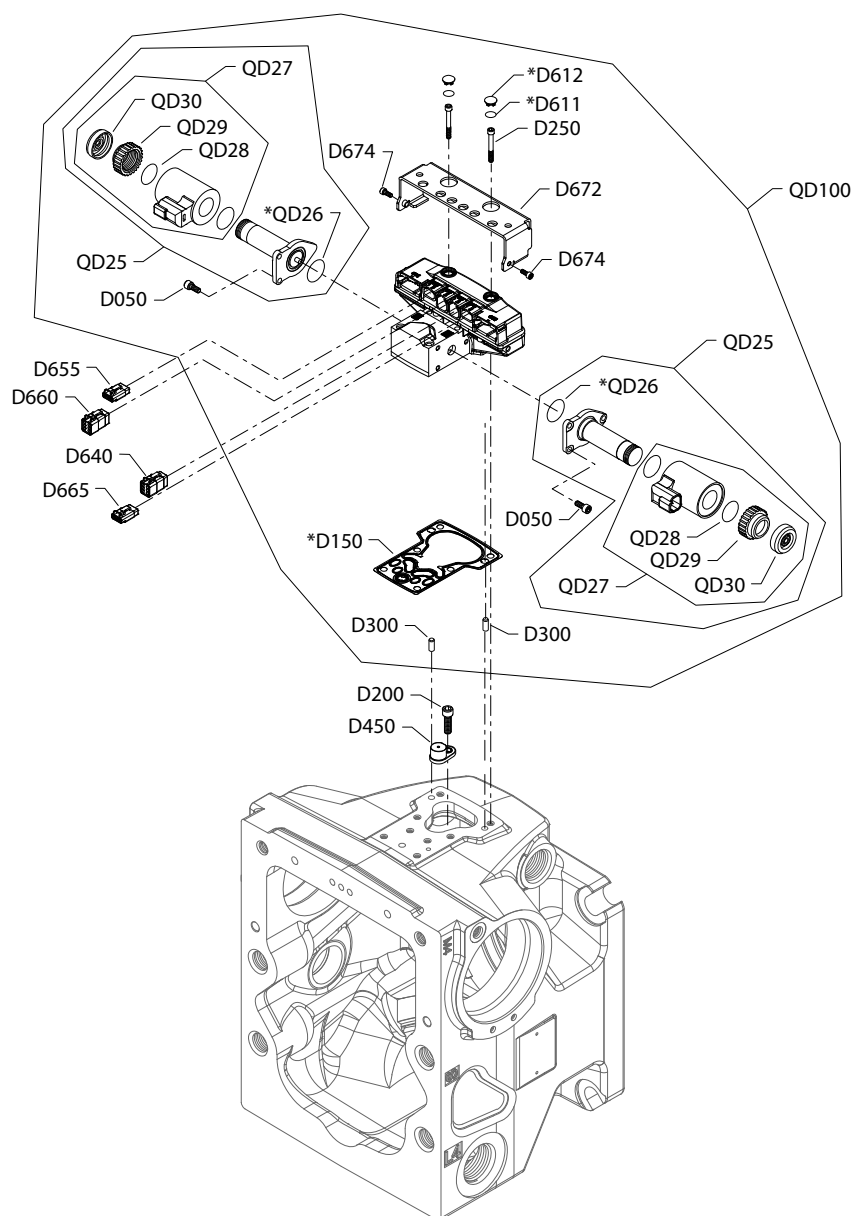
QD25	16-30		140750	Proportional solenoid, 12 volt	2
QD27	16-30		11004698	Coil kit, 12v, DEUTSCH connector	2
QD29	16-30		11319330	Coil nut	2
QD100	16-30		11232770	Automotive control kit, 12v, manual override	1

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 R3

R3 configuration



Generic housing shown

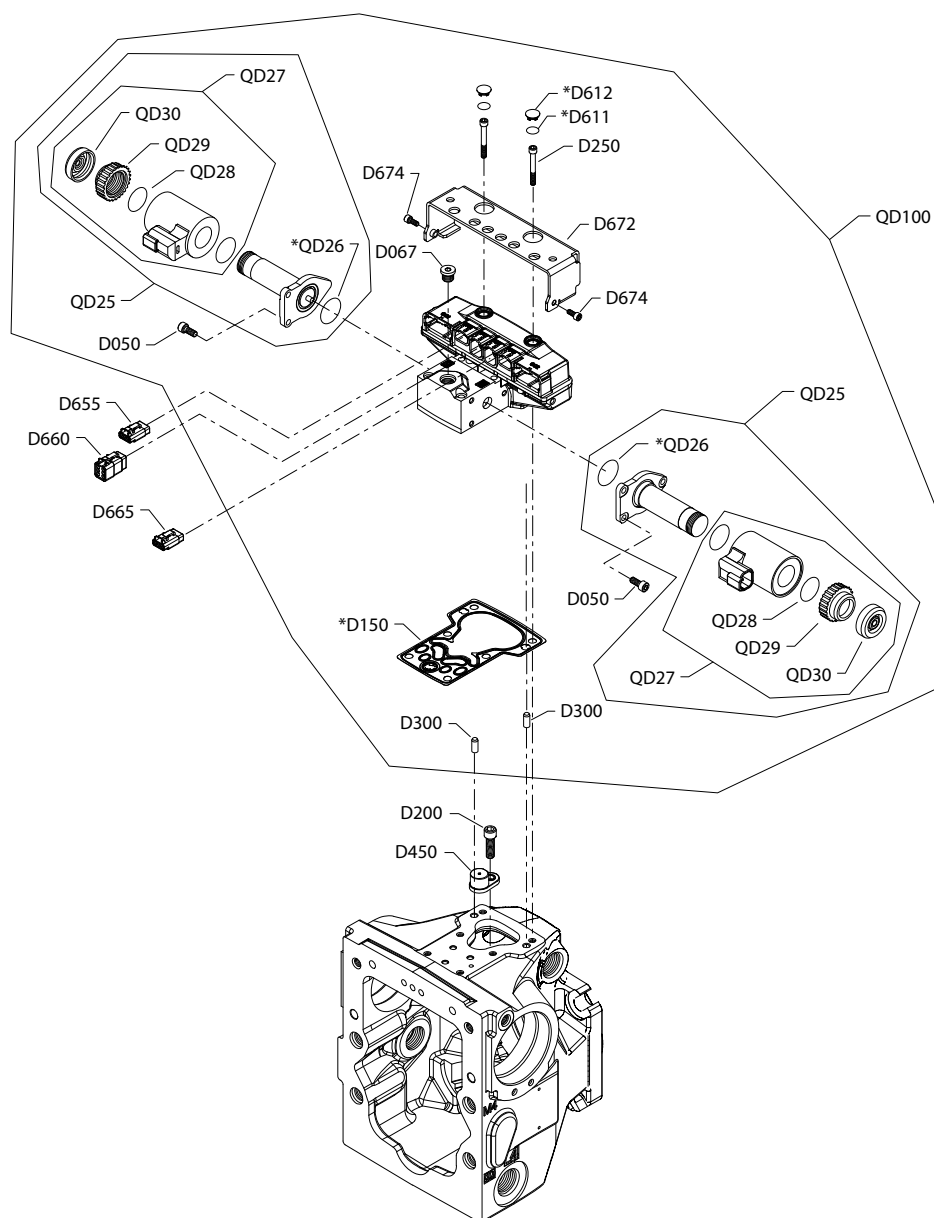
* Included in overhaul seal kit Q210

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 170)	2
D611	21-13		11225703	O-ring	2
D612	16-17	21-12	11003126	Plug (SB-2021-014 on page 170)	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 170)	2
D611	21-13		11225703	O-ring	2
D612	17-15	21-12	11003126	Plug (SB-2021-014 on page 170)	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



Generic housing shown

* Included in overhaul seal kit Q210

Order code: T6

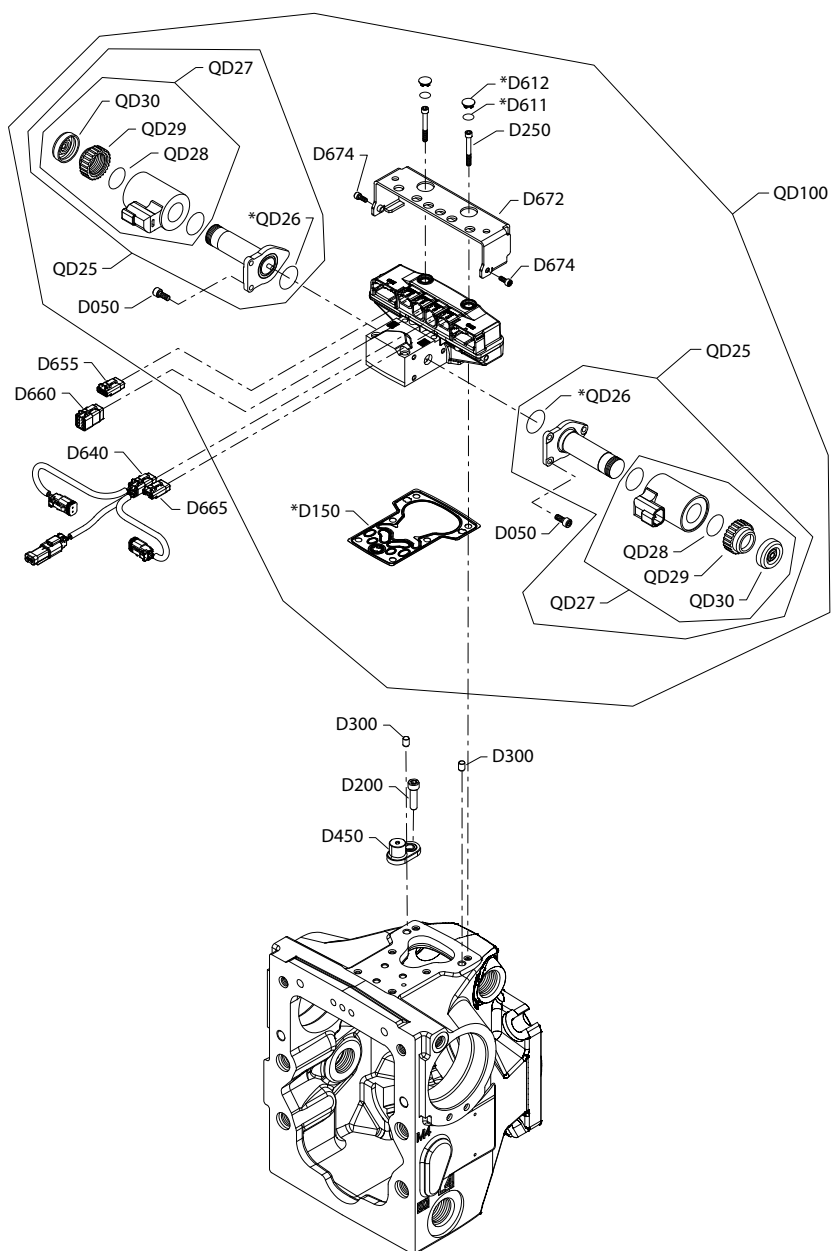
Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
D050	18-15		716860	Screw, M5 x 12	6
D150	18-15		11227209	Control Gasket	1
D250	18-15		505038	Screw, M6 x 45	6
D300	18-15		11036469	Dowel pin	2
D611	18-15	21-12	11066774	O-ring (SB-2021-014 on page 170)	2
D611	21-13		11225703	O-ring	2
D612	18-15	21-12	11003126	Plug (SB-2021-014 on page 170)	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 170)	2
D611	21-13		11225703	O-ring	2
D612	18-15	21-12	11003126	Plug (SB-2021-014 on page 170)	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

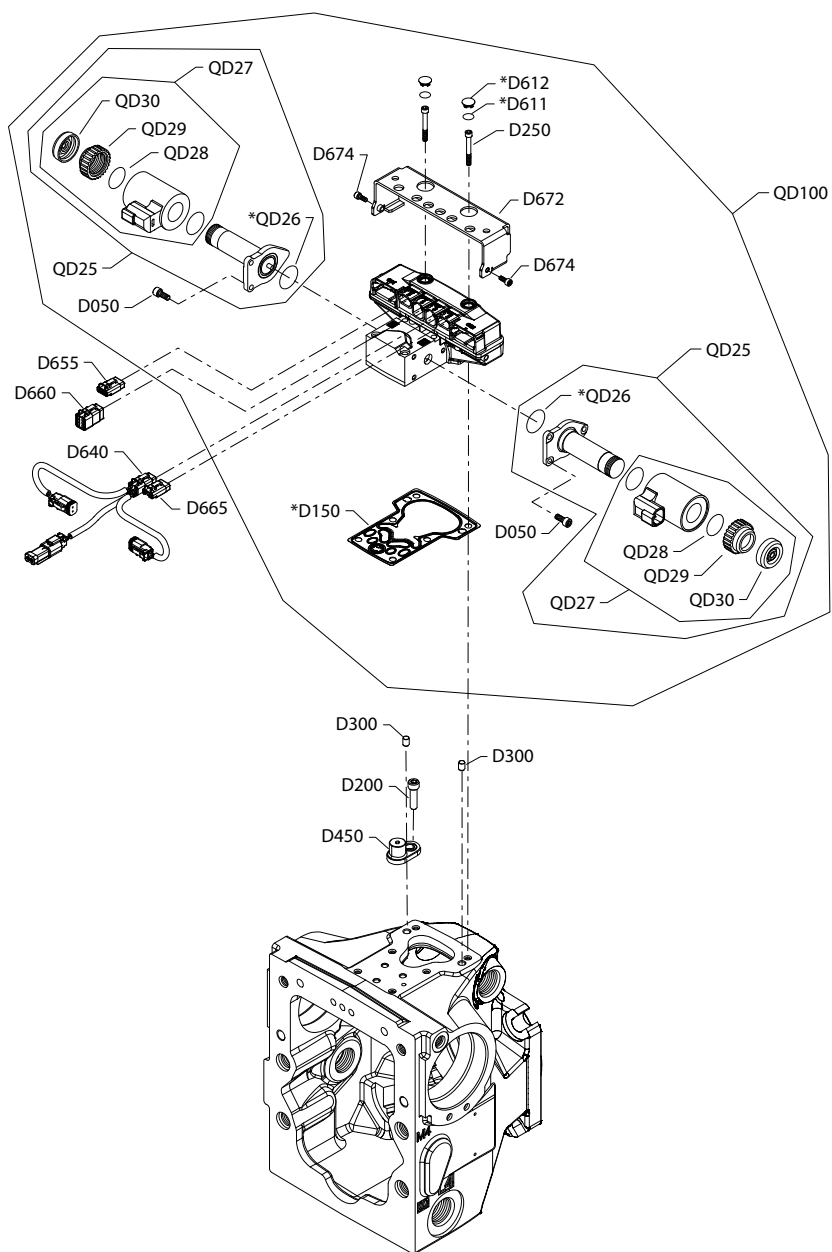
* Included in overhaul seal kit Q210

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 170)	2
D611	21-13		11225703	O-ring	2
D612	18-12	21-12	11003126	Plug (SB-2021-014 on page 170)	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

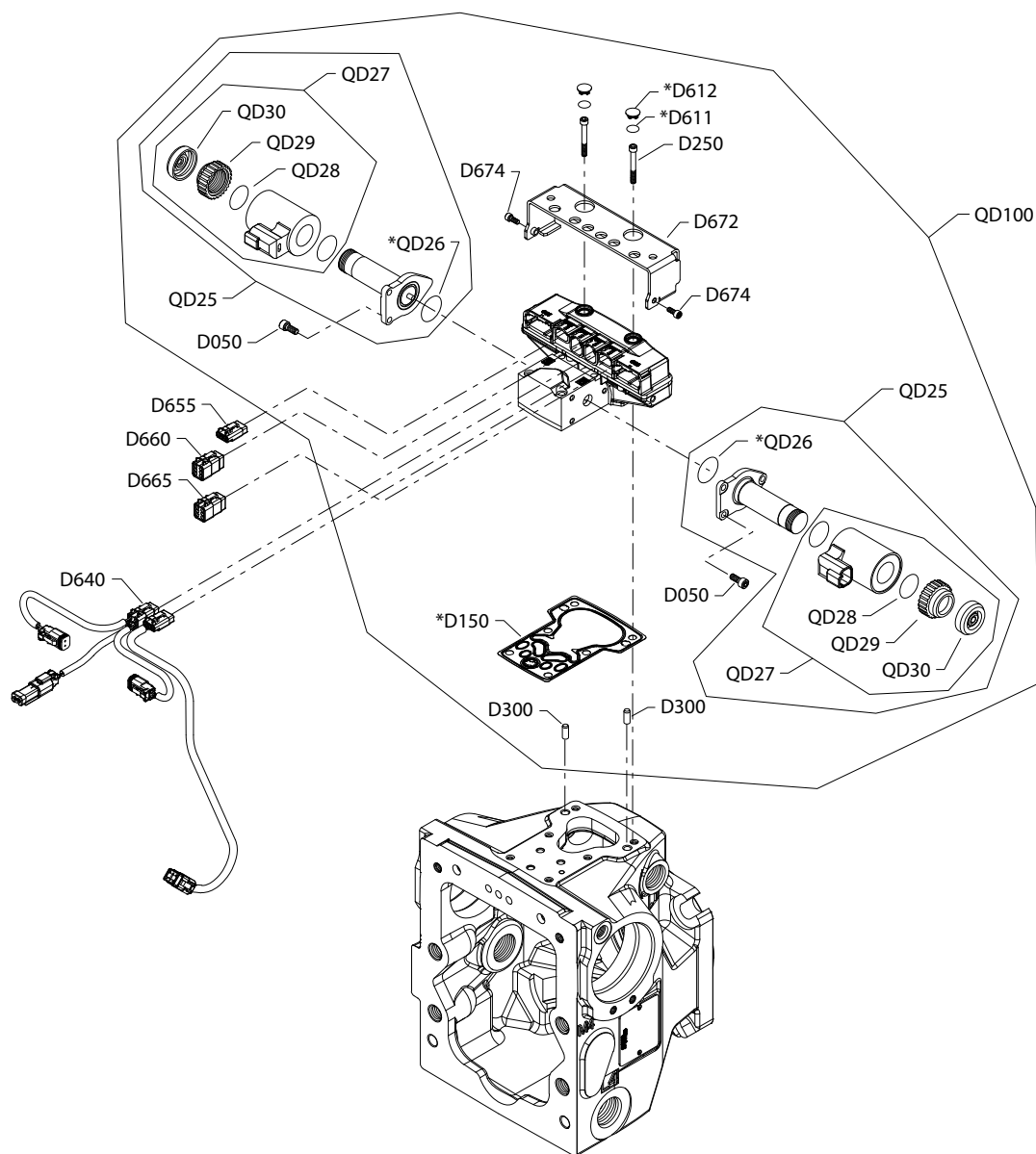
* Included in overhaul seal kit Q210

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 170)	2
D611	21-13		11225703	O-ring	2
D612	18-12	21-12	11003126	Plug (SB-2021-014 on page 170)	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



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 (SB-2021-014 on page 170)	2
D611	21-13		11225703	O-ring	2
D612	18-10	21-12	11003126	Plug (SB-2021-014 on page 170)	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

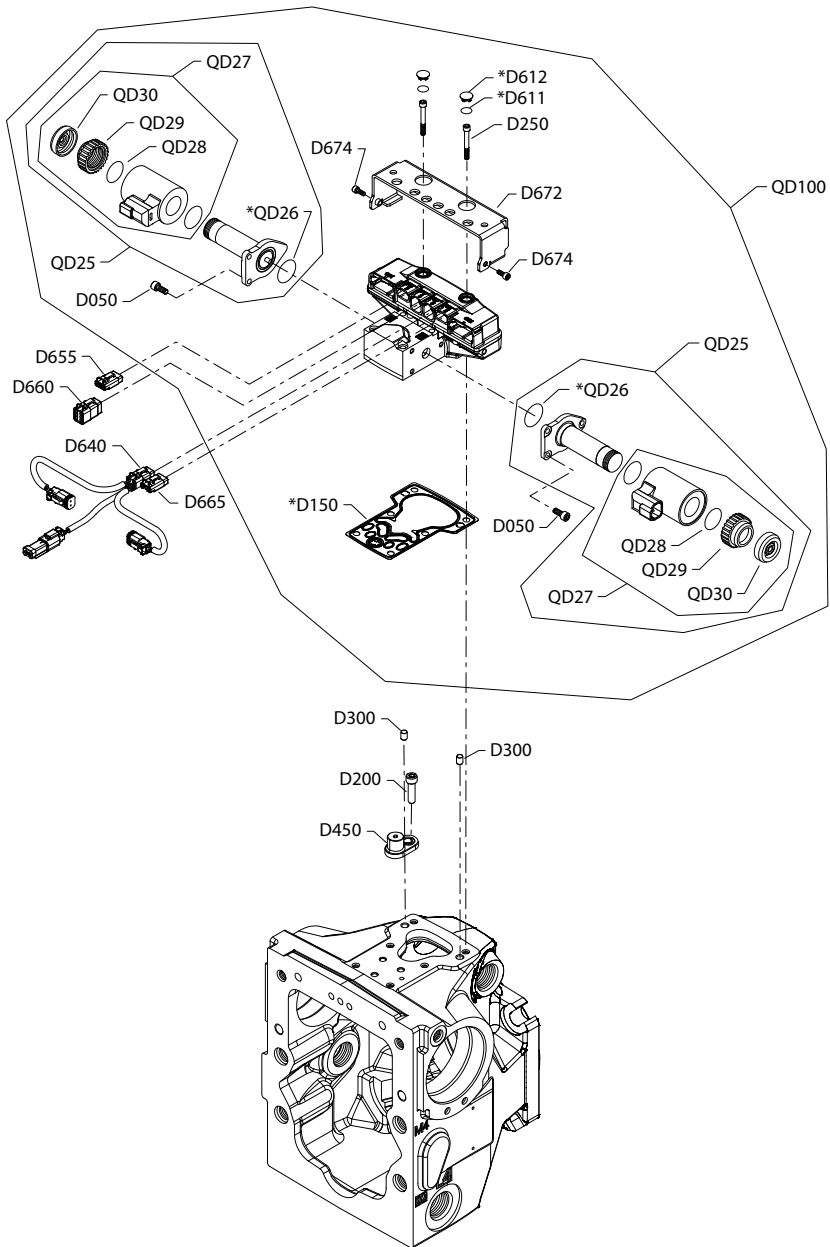
Order code: U1

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 170)	2
D611	21-13		11225703	O-ring	2
D612	16-29	21-12	11003126	Plug (SB-2021-014 on page 170)	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

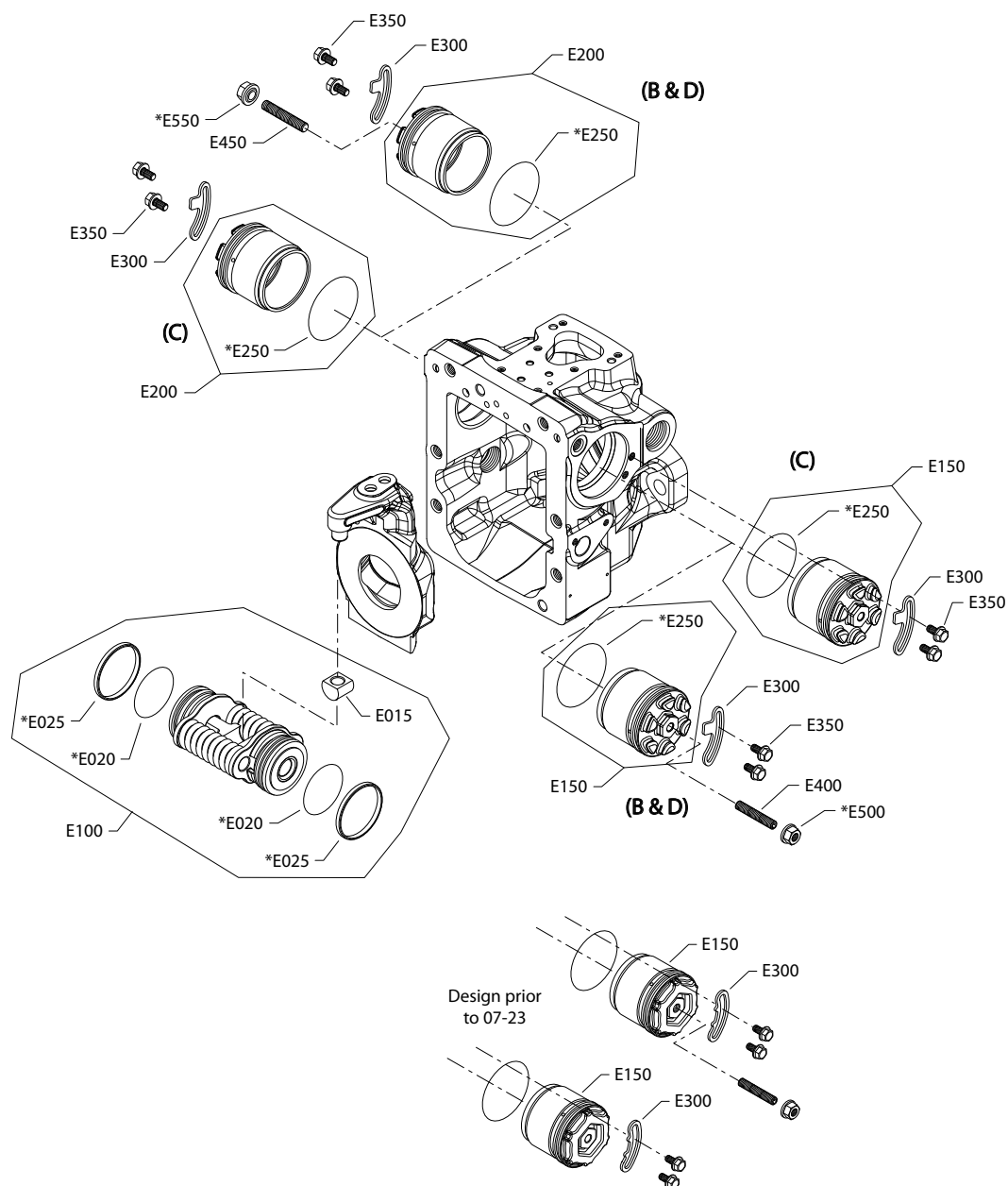
QD100	16-29		11232794	Automotive control kit, 12v, manual override	1
QD25	16-29		140750	Proportional solenoid, 12V	2
QD27	16-29		11004698	Coil kit, 12v, DEUTSCH connector	2
QD29	16-29		11319330	Coil nut	2

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 45/53 displacement limitation B-D



* Included in overhaul seal kit Q210

Order code: B

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
E015	12-21		11141987	Slider block (SB-2011-020)	1
E015	07-19	12-20	141939	Slider block	1
E020	07-19		5000732	O-ring	2
E025	07-19		11028034	Piston seal ring (SB-2007-026)	2
E100	12-21		11094107	Servo piston assembly (SB-2011-020)	1
E100	07-19	12-20	11098278	Servo piston assembly replacement kit	1
E150	07-19		11059648	Servo cylinder assembly, adjustable (SB-2007-004)	1
E200	07-19		11059648	Servo cylinder assembly, adjustable (SB-2007-004)	1
E250	07-19		5000709	O-ring	2
E300	07-23		11229549	Locking plate	2
E300	07-19	07-22	141940	Locking plate (SB-2007-004)	2
E350	07-19		508438	Screw, M6 x 12	4
E400	07-19		5000747	Set screw, M8 x 45	1
E450	07-19		5000747	Set screw, M8 x 45	1
E500	07-19		505412 (9003509-0008)	Seal nut, M8	1
E550	07-19		505412 (9003509-0008)	Seal nut, M8	1

Order code: C

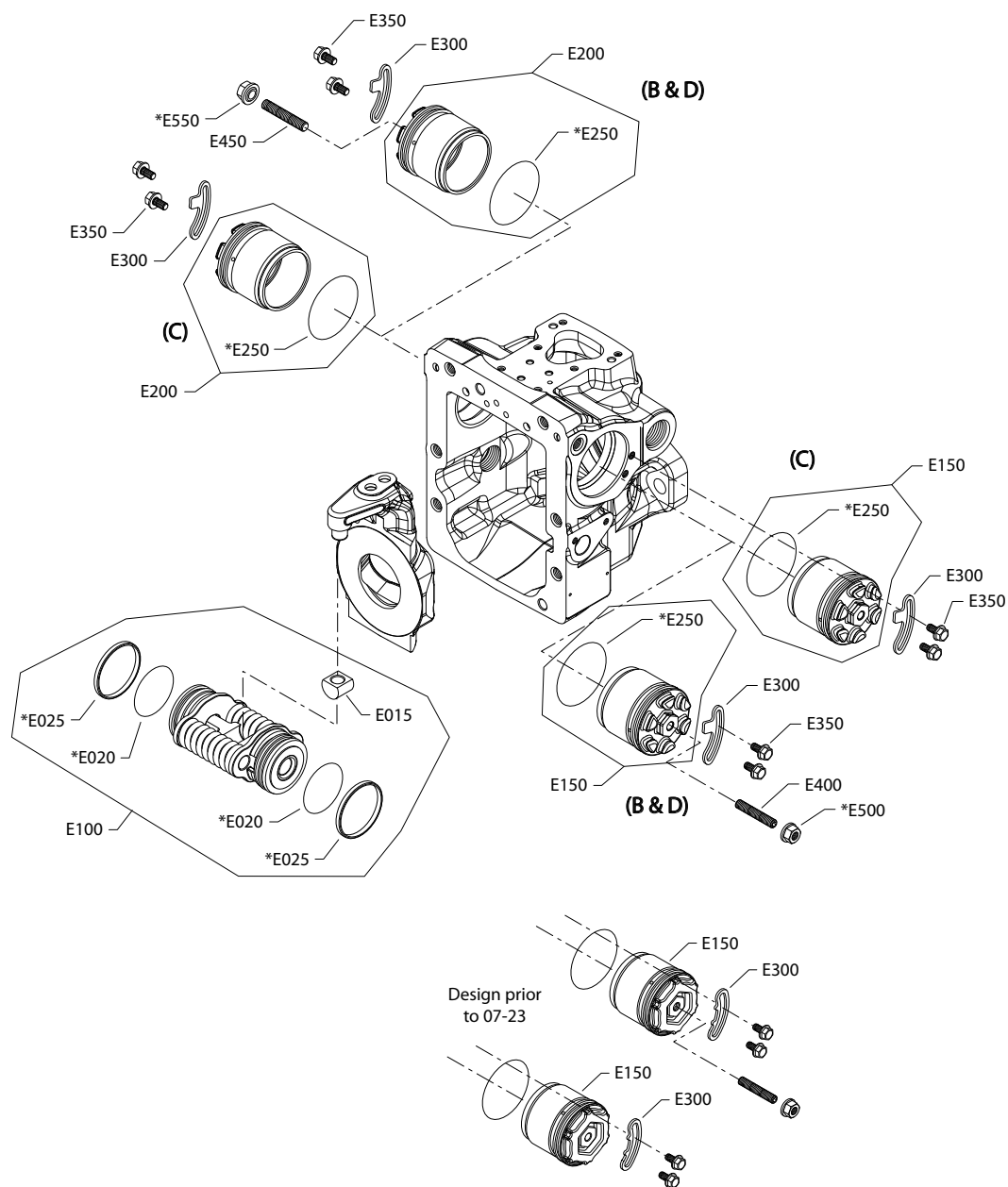
E015	12-21		11141987	Slider block (SB-2011-020)	1
E015	07-19	12-20	141939	Slider block	1
E020	07-19		5000732	O-ring	2
E025	07-19		11028034	Piston seal ring (SB-2007-026)	2
E100	12-21		11094283	Servo piston assembly, nested spring (SB-2011-020)	1
E100	07-19	12-20	11098279	Servo piston assembly replacement kit	1
E150	07-30		11059647	Servo cylinder assembly (SB-2007-004)	1
E200	07-30		11059647	Servo cylinder assembly (SB-2007-004)	1
E250	07-19		5000709	O-ring	2
E300	07-30		11229549	Locking plate	2
E300	07-19	07-29	141940	Locking plate (SB-2007-004)	2
E350	07-19		508438	Screw, M6 x 12	4



Note

Parts continue to the next 2 pages.

Displacement limitation B-D



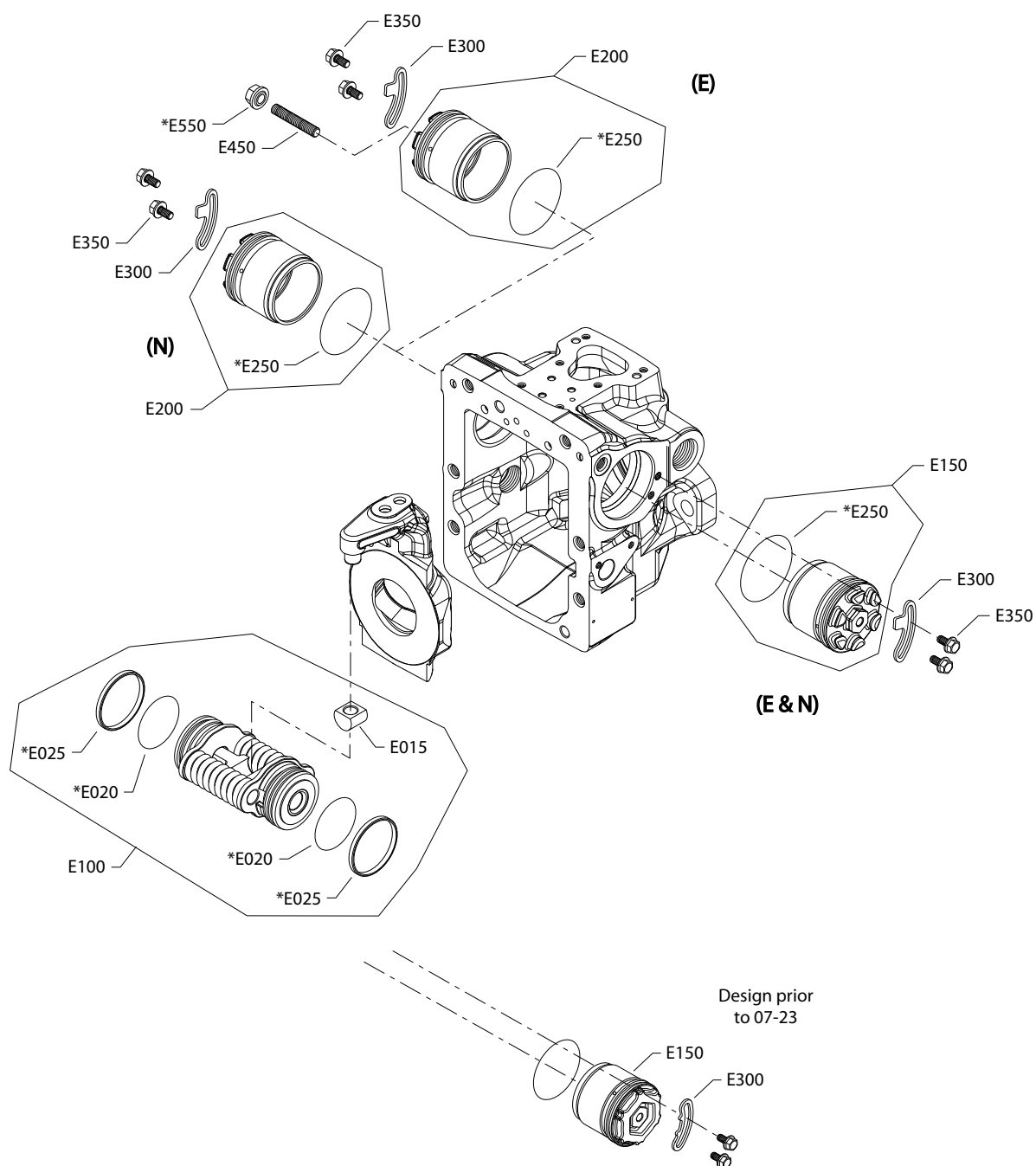
* Included in overhaul seal kit Q210

Order code: D

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
E015	12-21		11141987	Slider block (SB-2011-020)	1
E015	07-19	12-20	141939	Slider block	1
E020	07-19		5000732	O-ring	2
E025	07-19		11028034	Piston seal ring (SB-2007-026)	2
E100	12-21		11094283	Servo piston assembly, nested spring (SB-2011-020)	1
E100	07-19	12-20	11098279	Servo piston assembly replacement kit	1
E150	07-19		11059648	Servo cylinder assembly, adjustable (SB-2007-004)	1
E200	07-19		11059648	Servo cylinder assembly, adjustable (SB-2007-004)	1
E250	07-19		5000709	O-ring	2
E300	07-23		11229549	Locking plate	2
E300	07-19	07-22	141940	Locking plate (SB-2007-004)	2
E350	07-19		508438	Screw, M6 x 12	4
E400	07-19		5000747	Set screw, M8 x 45	1
E450	07-19		5000747	Set screw, M8 x 45	1
E500	07-19		505412 (9003509-0008)	Seal nut, M8	1
E550	07-19		505412 (9003509-0008)	Seal nut, M8	1

H1P 45/53 displacement limitation E-N

Parts configuration



Note

Generic housing shown

* Included in overhaul seal kit Q210

Order code: E

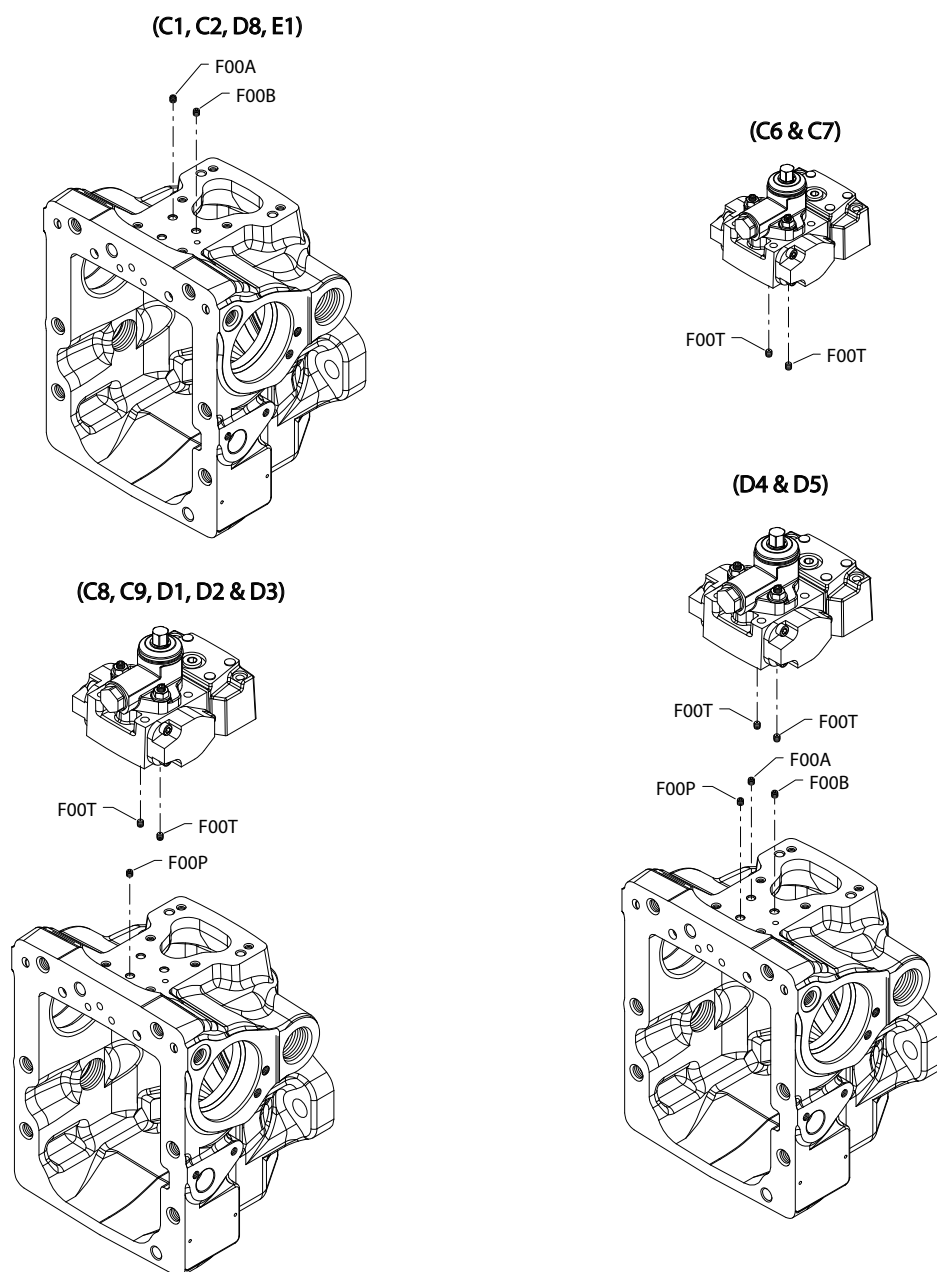
Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
E015	15-07		11141987	Slider block	1
E020	15-07		5000732	O-ring	2
E025	15-07		11028034	Piston seal ring	2
E100	15-07		11094283	Servo piston assembly, nested spring	1
E150	15-07		11059647	Servo cylinder assembly	1
E200	15-07		11059648	Servo cylinder assembly, adjustable	1
E250	15-07		5000709	O-ring	2
E300	15-07		11229549	Locking plate	2
E350	15-07		508438	Screw, M6 x 12	4
E450	15-07		719401	Set screw, M8 x 50	1
E550	15-07		505412 (9003509-0008)	Seal nut, M8	1

Order code: N

E015	12-21		11141987	Slider block (SB-2011-020)	1
E015	07-19	12-20	141939	Slider block	1
E020	07-19		5000732	O-ring	2
E025	07-19		11028034	Piston seal ring (SB-2007-026)	2
E100	12-21		11094107	Servo piston assembly (SB-2011-020)	1
E100	07-19	12-20	11098278	Servo piston assembly replacement kit	1
E150	07-30		11059647	Servo cylinder assembly (SB-2007-004)	1
E200	07-30		11059647	Servo cylinder assembly (SB-2007-004)	1
E250	07-19		5000709	O-ring	2
E300	07-30		11229549	Locking plate	2
E300	07-19	07-29	141940	Locking plate (SB-2007-004)	2
E350	07-19		508438	Screw	4

Orifice

H1P 45/53 orifice



Note

Generic housings and control shown.

* Included in overhaul seal kit Q210

Order code: C1

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
F00A	10-48		140611	Orifice, 0.8, M6 x 0.75 mm	1
F00B	10-48		140611	Orifice, 0.8, M6 x 0.75 mm	1

Order code: C2

F00A	10-48		140754	Orifice, 1.3, M6 x 0.75 mm	1
F00B	10-48		140754	Orifice, 1.3, M6 x 0.75 mm	1

Order code: C3

No parts					
----------	--	--	--	--	--

Order code: C4

F00A	16-49		140757	Orifice, 1.8, M6 x 0.75 mm	1
F00B	16-49		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
------	-------	--	----------	---------------------------	---

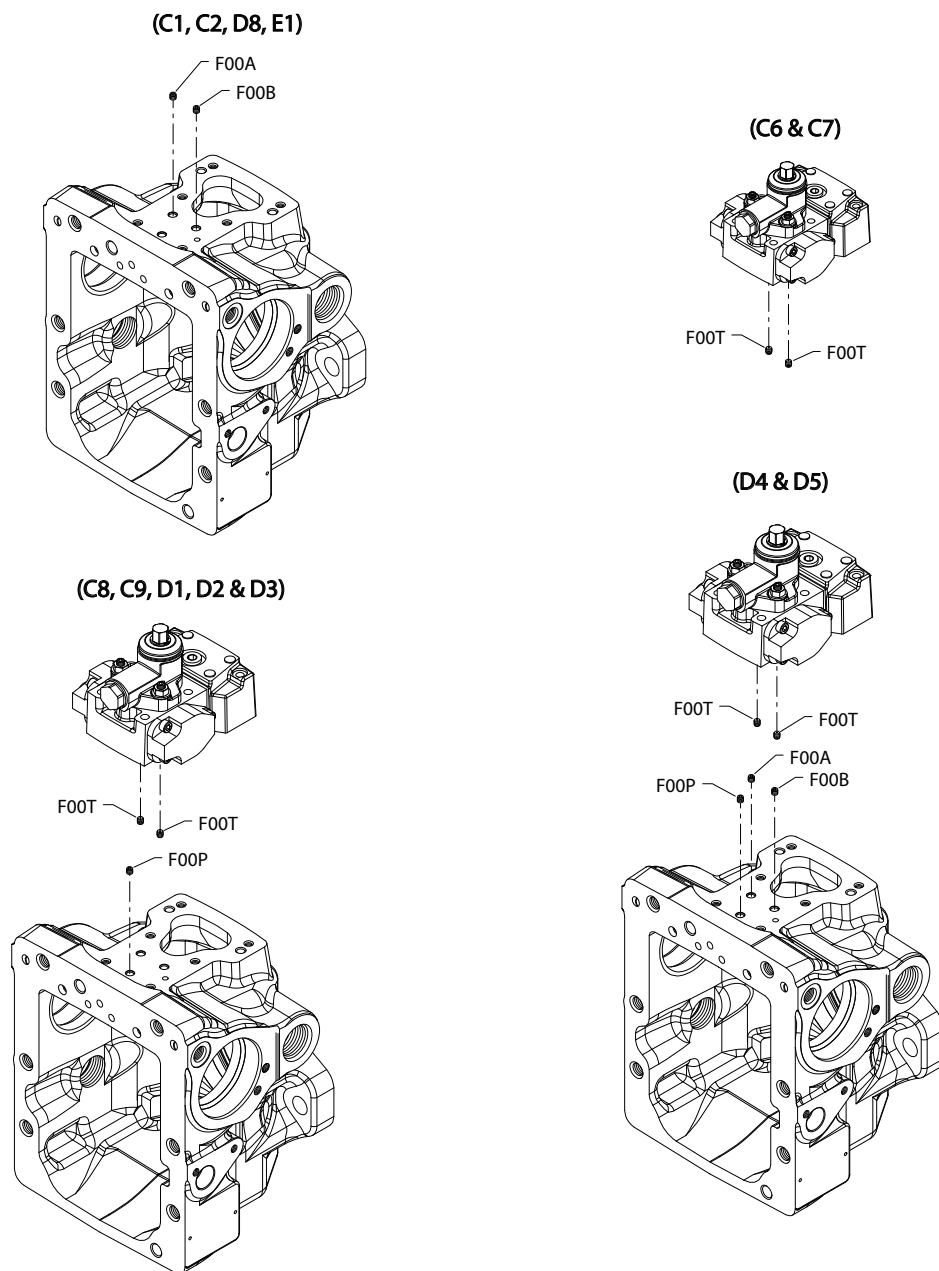
Order code: C7

F00T	14-44		140754	Orifice, 1.3, M6 x 0.75 mm	2
------	-------	--	--------	----------------------------	---

**Note**

Parts continue to the next 2 pages.

Orifice C1-E1



 Note

Generic housings and control shown.

* Included in overhaul seal kit Q210

Order code: C8

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

Order code: D3

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: D8

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

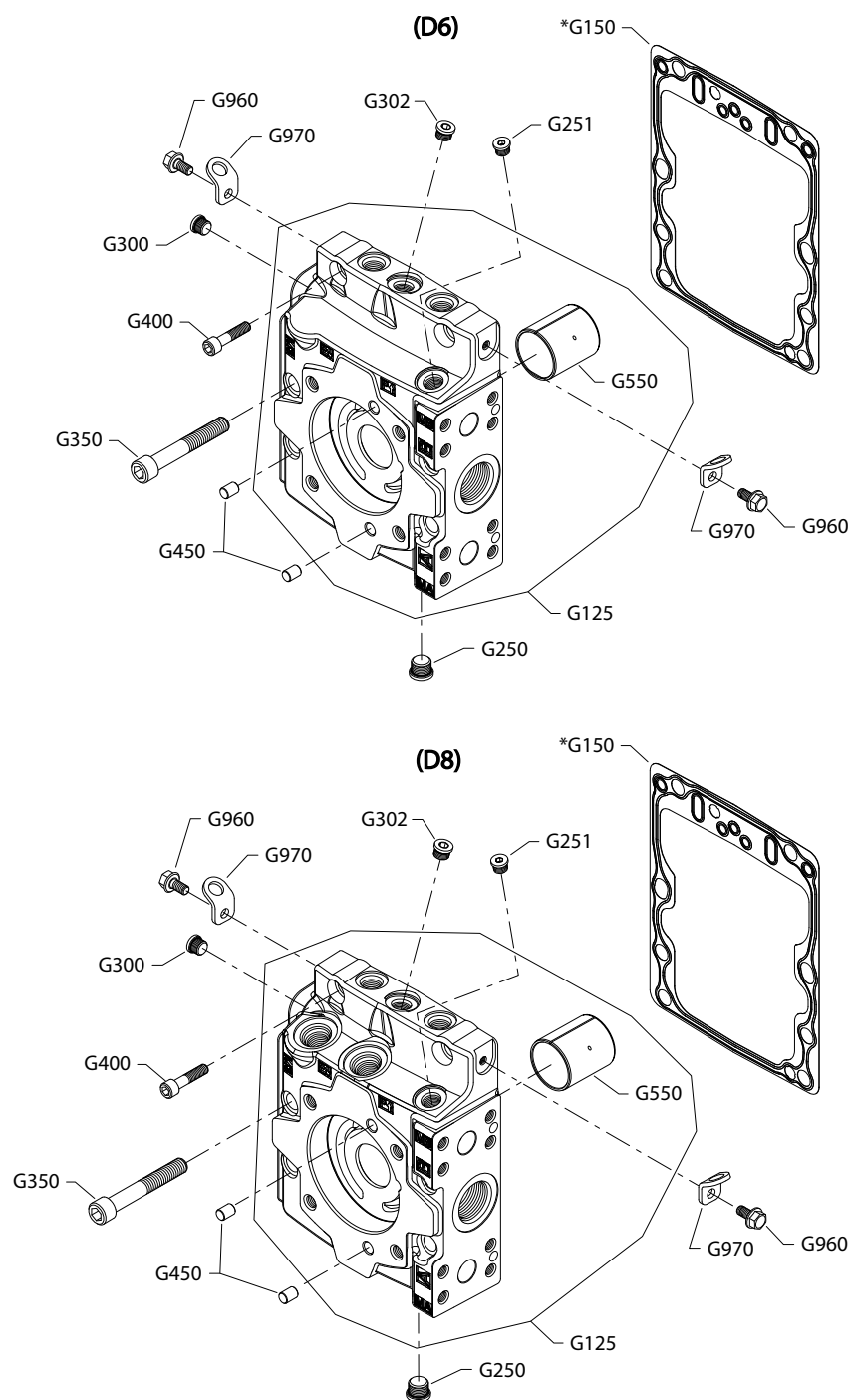
Order code: E1

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

End cap

H1P 45/53 end cap D6, D8

Parts configuration



* Included in overhaul seal kit Q210

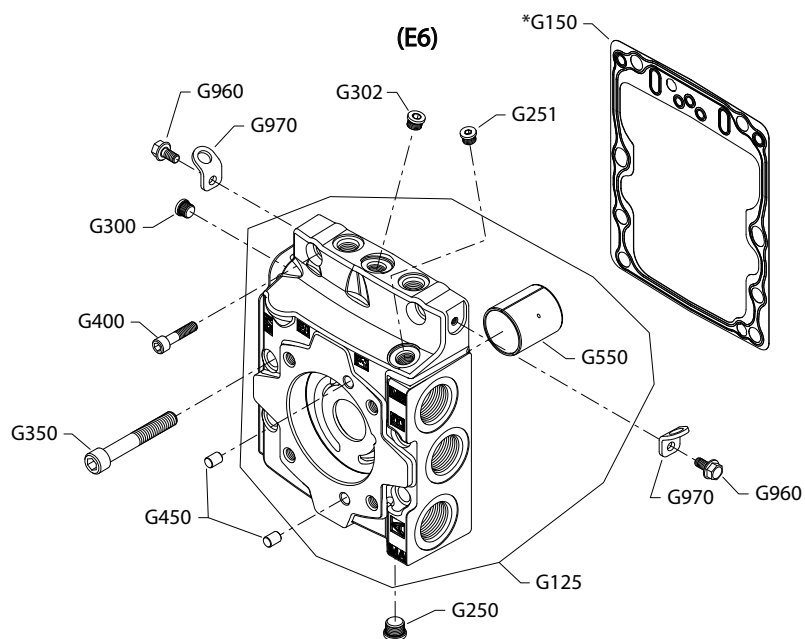
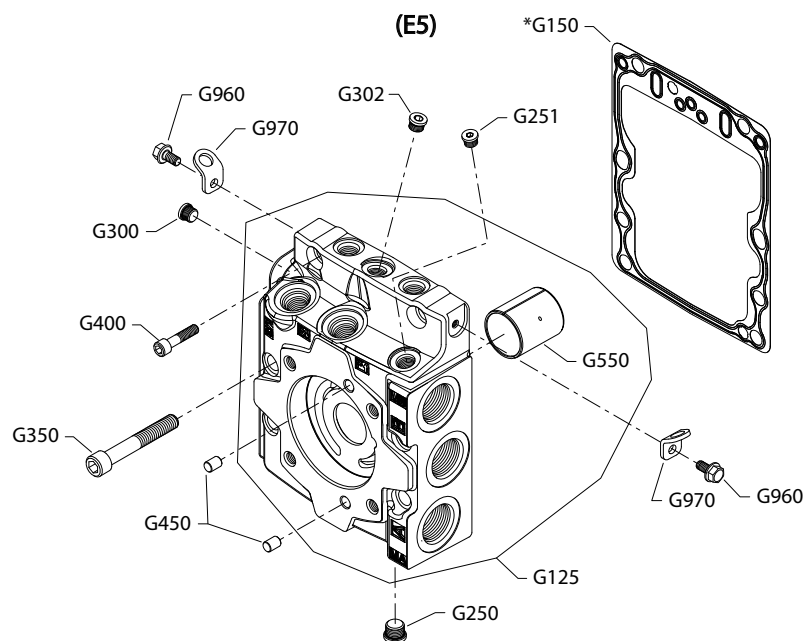
Order code: D6

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
G125	10-11		11013562	End cap assembly, CW, suction filtration	1
G125	10-11		11013554	End cap assembly, CCW, suction filtration	1
G150	10-11		141504	End cap gasket	1
G250	10-11		140644	Plug assembly	1
G251	10-11		140644	Plug assembly	1
G300	10-11		140644	Plug assembly	1
G302	10-11		140644	Plug assembly	1
G350	10-11		010850	Screw, M12 x 80	4
G400	10-11		290502	Screw, M12 x 40	2
G450	10-11		5000757	Dowel pin	2
G550	10-11		141593	Journal bearing	1
G960	10-11		508438	Screw, M6 x 12	2
G970	10-11		4800754	Lifting bracket	2

Order code: D8

G125	10-11		11013563	End cap assembly, CW, remote filtration	1
G125	10-11		11013555	End cap assembly, CCW, remote filtration	1
G150	10-11		141504	End cap gasket	1
G250	10-11		140644	Plug assembly	1
G251	10-11		140644	Plug assembly	1
G300	10-11		140644	Plug assembly	1
G302	10-11		140644	Plug assembly	1
G350	10-11		010850	Screw, M12 x 80	4
G400	10-11		290502	Screw, M12 x 40	2
G450	10-11		5000757	Dowel pin	2
G550	10-11		141593	Journal bearing	1
G960	10-11		508438	Screw, M6 x 12	2
G970	10-11		4800754	Lifting bracket	2

H1P 45/53 end cap E5, E6



* Included in overhaul seal kit Q210

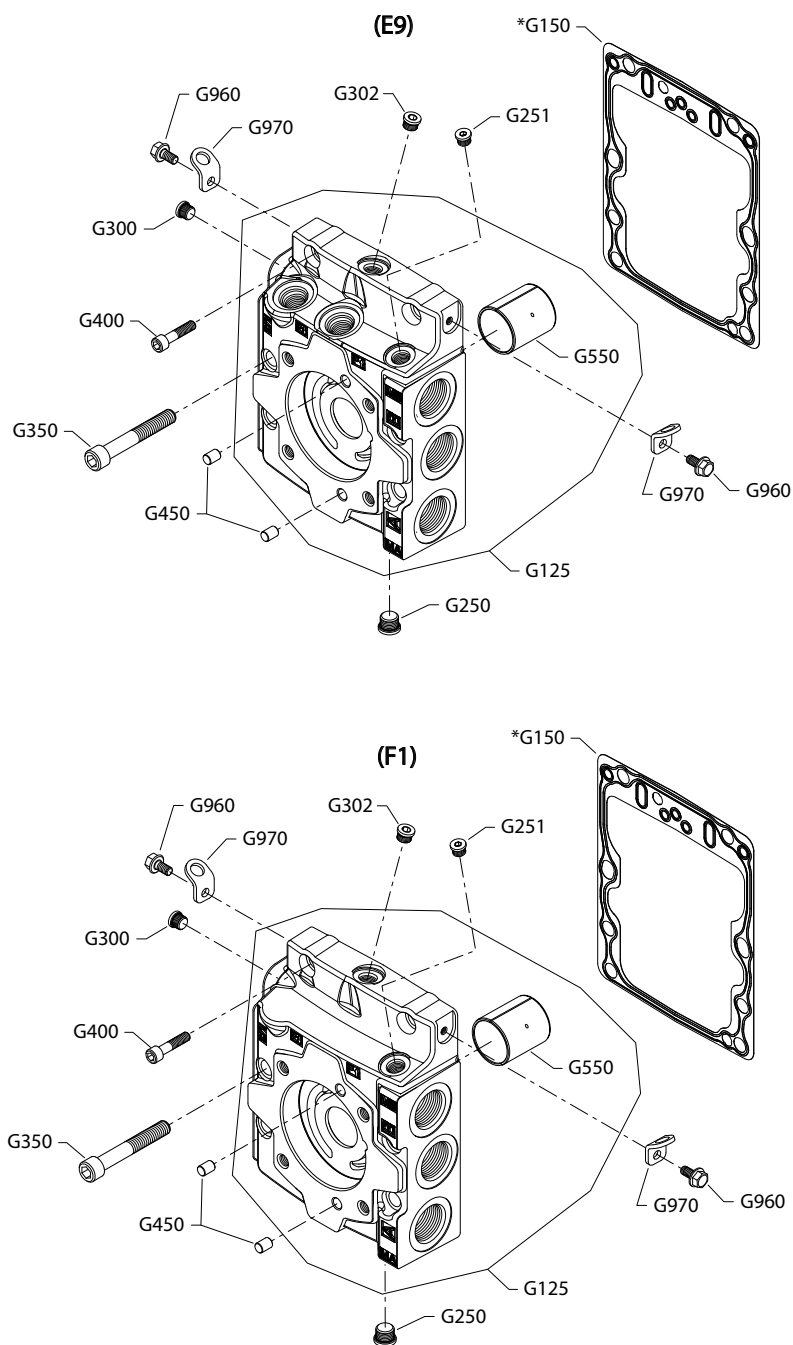
Order code: E5

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
G125	10-11		11013564	End cap assembly, CW, remote filtration	1
G125	10-11		11013556	End cap assembly, CCW, remote filtration	1
G150	10-11		141504	End cap gasket	1
G250	10-11		140644	Plug assembly	1
G251	10-11		140644	Plug assembly	1
G300	10-11		140644	Plug assembly	1
G302	10-11		140644	Plug assembly	1
G350	10-11		010850	Screw, M12 x 80	4
G400	10-11		290502	Screw, M12 x 40	2
G450	10-11		5000757	Dowel pin	2
G550	10-11		141593	Journal bearing	1
G960	10-11		508438	Screw, M6 x 12	2
G970	10-11		4800754	Lifting bracket	2

Order code: E6

G125	10-11		11013565	End cap assembly, CW, suction filtration	1
G125	10-11		11013557	End cap assembly, CCW, suction filtration	1
G150	10-11		141504	End cap gasket	1
G250	10-11		140644	Plug assembly	1
G251	10-11		140644	Plug assembly	1
G300	10-11		140644	Plug assembly	1
G302	10-11		140644	Plug assembly	1
G350	10-11		010850	Screw, M12 x 80	4
G400	10-11		290502	Screw, M12 x 40	2
G450	10-11		5000757	Dowel pin	2
G550	10-11		141593	Journal bearing	1
G960	10-11		508438	Screw, M6 x 12	2
G970	10-11		4800754	Lifting bracket	2

H1P 45/53 end cap E9, F1



* Included in overhaul seal kit Q210

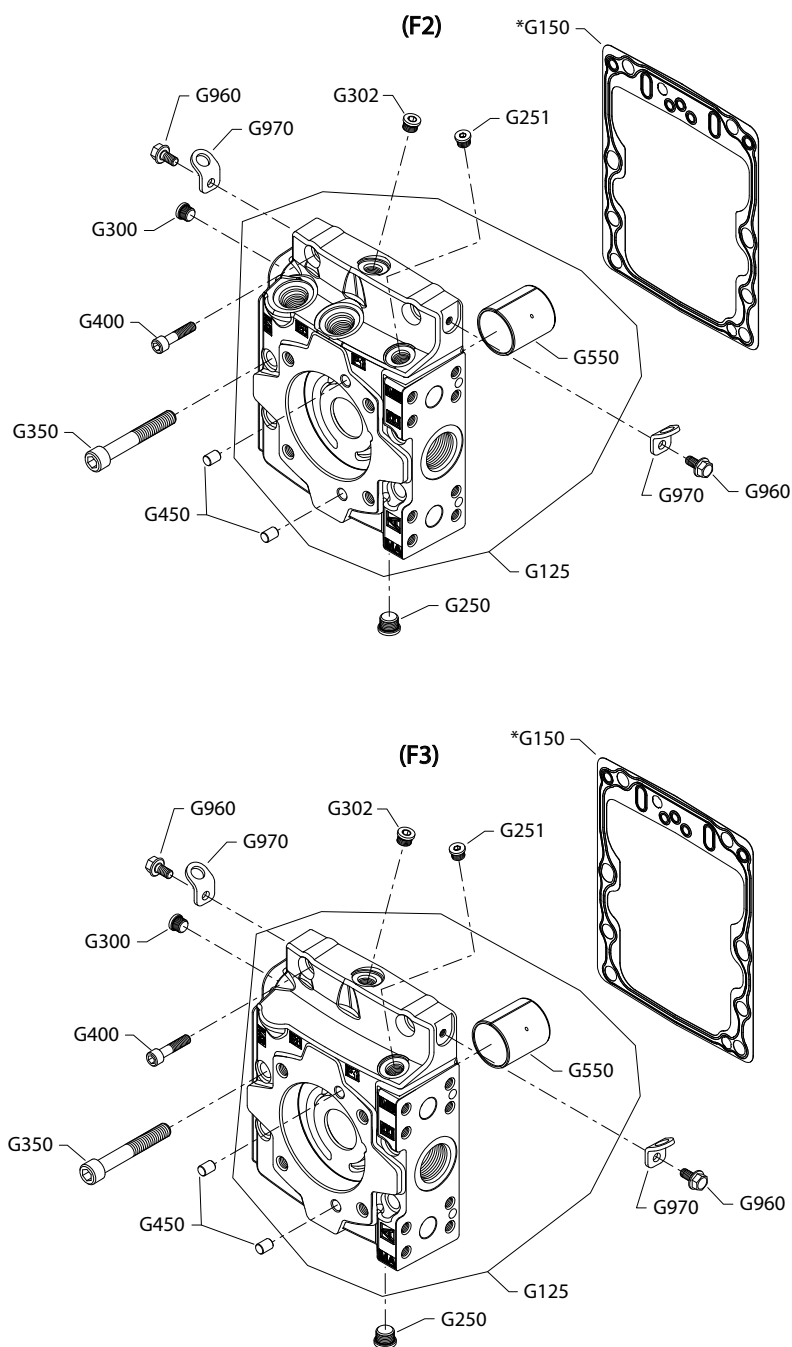
Order code: E9

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
G125	10-11		11013566	End cap assembly, CW, 1 5/16, remote, HPRV only	1
G125	10-11		11013558	End cap assembly, CCW, 1 5/16, remote, HPRV only	1
G150	10-11		141504	End cap gasket	1
G250	10-11		140644	Plug assembly	1
G251	10-11		140644	Plug assembly	1
G300	10-11		140644	Plug assembly	1
G302	10-11		140644	Plug assembly	1
G350	10-11		010850	Screw, M12 x 80	4
G400	10-11		290502	Screw, M12 x 40	2
G450	10-11		5000757	Dowel pin	2
G550	10-11		141593	Journal bearing	1
G960	10-11		508438	Screw, M6 x 12	2
G970	10-11		4800754	Lifting bracket	2

Order code: F1

G125	10-11		11013567	End cap assembly, CW, 1 5/16, suction, HPRV only	1
G125	10-11		11013559	End cap assembly, CCW, 1 5/16, suction, HPRV only	1
G150	10-11		141504	End cap gasket	1
G250	10-11		140644	Plug assembly	1
G251	10-11		140644	Plug assembly	1
G300	10-11		140644	Plug assembly	1
G302	10-11		140644	Plug assembly	1
G350	10-11		010850	Screw, M12 x 80	4
G400	10-11		290502	Screw, M12 x 40	2
G450	10-11		5000757	Dowel pin	2
G550	10-11		141593	Journal bearing	1
G960	10-11		508438	Screw, M6 x 12	2
G970	10-11		4800754	Lifting bracket	2

H1P 45/53 end cap F2, F3



* Included in overhaul seal kit Q210

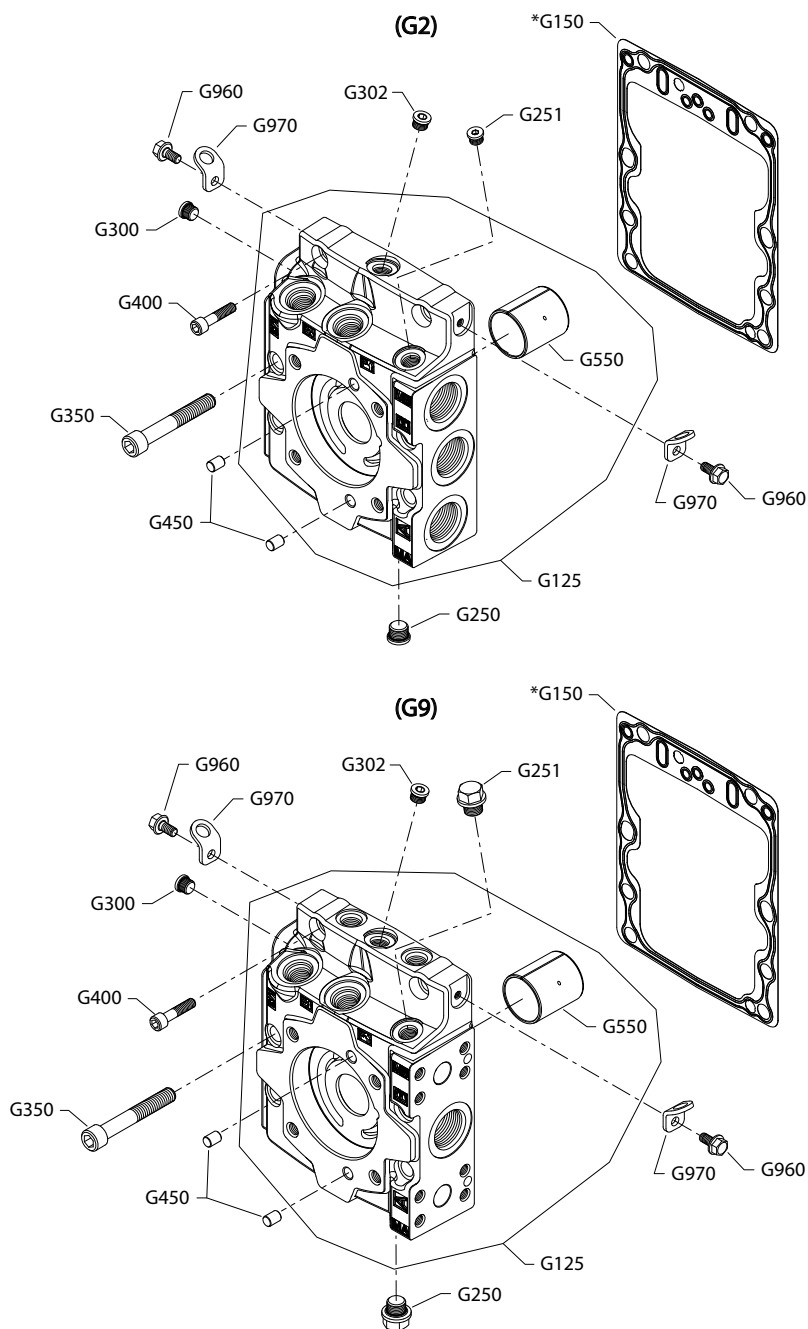
Order code: F2

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
G125	10-11		11013568	End cap assembly, CW, remote, HPRV only	1
G125	10-11		11013560	End cap assembly, CCW, remote, HPRV only	1
G150	10-11		141504	End cap gasket	1
G250	10-11		140644	Plug assembly	1
G251	10-11		140644	Plug assembly	1
G300	10-11		140644	Plug assembly	1
G302	10-11		140644	Plug assembly	1
G350	10-11		010850	Screw, M12 x 80	4
G400	10-11		290502	Screw, M12 x 40	2
G450	10-11		5000757	Dowel pin	2
G550	10-11		141593	Journal bearing	1
G960	10-11		508438	Screw, M6 x 12	2
G970	10-11		4800754	Lifting bracket	2

Order code: F3

G125	10-11		11013569	End cap assembly, CW, suction, HPRV only	1
G125	10-11		11013561	End cap assembly, CCW, suction, HPRV only	1
G150	10-11		141504	End cap gasket	1
G250	10-11		140644	Plug assembly	1
G251	10-11		140644	Plug assembly	1
G300	10-11		140644	Plug assembly	1
G302	10-11		140644	Plug assembly	1
G350	10-11		010850	Screw, M12 x 80	4
G400	10-11		290502	Screw, M12 x 40	2
G450	10-11		5000757	Dowel pin	2
G550	10-11		141593	Journal bearing	1
G960	10-11		508438	Screw, M6 x 12	2
G970	10-11		4800754	Lifting bracket	2

H1P 45/53 end cap G2, G9



* Included in overhaul seal kit Q210

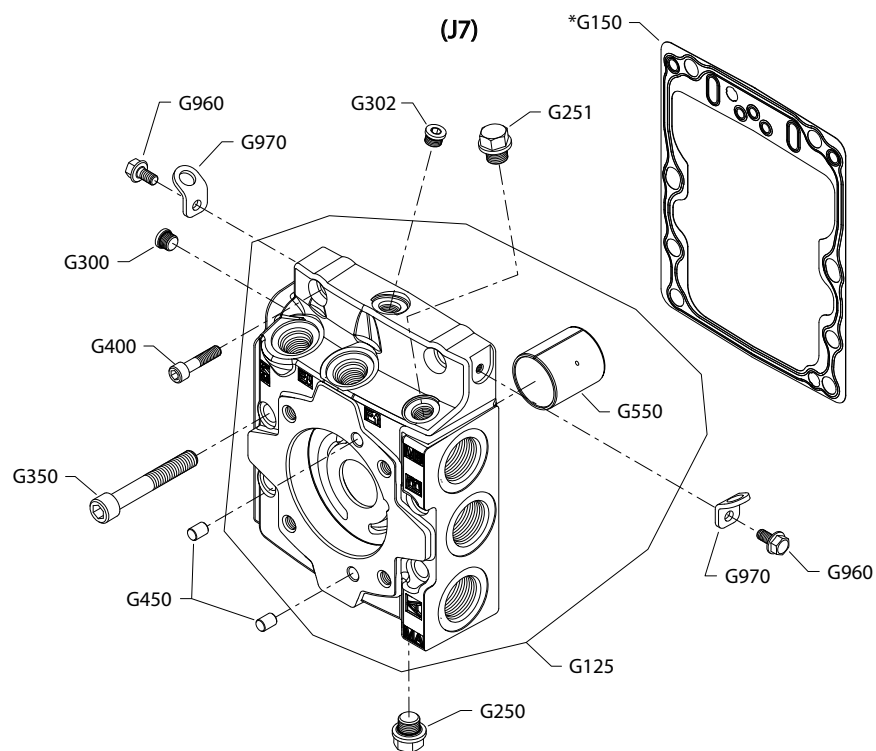
Order code: G2

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
G125	10-11		11081215	End cap assembly, CW, remote, HPRV only	1
G125	10-11		11081214	End cap assembly, CCW, remote, HPRV only	1
G150	10-11		141504	End cap gasket	1
G250	10-11		140644	Plug assembly	1
G251	10-11		140644	Plug assembly	1
G300	10-11		140644	Plug assembly	1
G302	10-11		140644	Plug assembly	1
G350	10-11		010850	Screw, M12 x 80	4
G400	10-11		290502	Screw, M12 x 40	2
G450	10-11		5000757	Dowel pin	2
G550	10-11		141593	Journal bearing	1
G960	10-11		508438	Screw, M6 x 12	2
G970	10-11		4800754	Lifting bracket	2

Order code: G9

G125	16-14		11013563	End cap assembly, CW, remote filtration	1
G150	16-14		141504	End cap gasket	1
G250	16-14		11147119	Plug assembly, special	1
G251	16-14		11147119	Plug assembly, special	1
G300	16-14		140644	Plug assembly	1
G302	16-14		140644	Plug assembly	1
G350	16-14		010850	Screw, M12 x 80	4
G400	16-14		290502	Screw, M12 x 40	2
G450	16-14		5000757	Dowel pin	2
G550	16-14		141593	Journal bearing	1
G960	16-14		508438	Screw, M6 x 12	2
G970	16-14		4800754	Lifting bracket	2

H1P 45/53 end cap J7



* Included in overhaul seal kit Q210

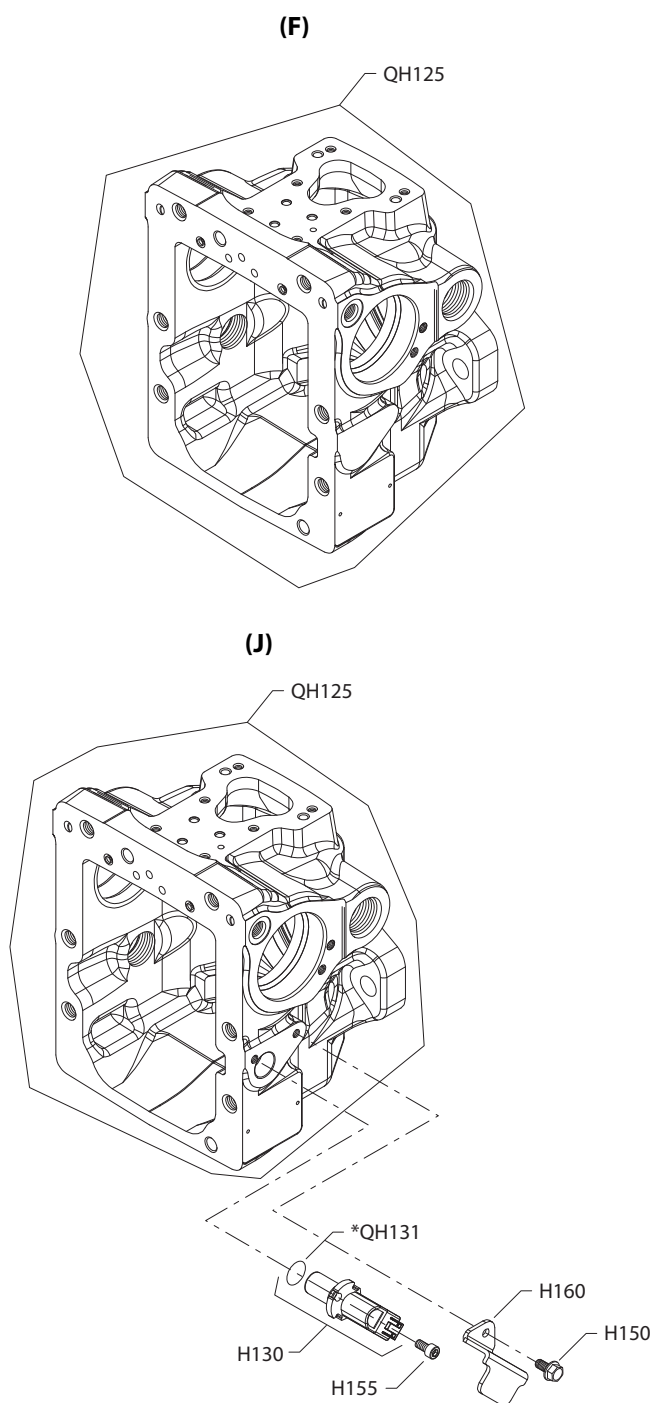
Order code: J7

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
G125	16-31		11013566	End cap assembly, CW, 1 5/16, remote, HPRV only	1
G150	16-31		141504	End cap gasket	1
G250	16-31		11147119	Plug assembly, special	1
G251	16-31		11147119	Plug assembly, special	1
G300	16-31		140644	Plug assembly	1
G302	16-31		140644	Plug assembly	1
G350	16-31		010850	Screw, M12 x 80	4
G400	16-31		290502	Screw, M12 x 40	2
G450	16-31		5000757	Dowel pin	2
G550	16-31		141593	Journal bearing	1
G960	16-31		508438	Screw, M6 x 12	2
G970	16-31		4800754	Lifting bracket	2

Housing

H1P 45/53 housing F, J

Parts configuration



* Included in overhaul seal kit Q210

Order code: F

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
B015	07-19		9005110-4400	Plug assembly	2
B020	07-19		664524 (9005110-9000)	Plug assembly	2
QH125	07-19		11144976	Housing assembly	1

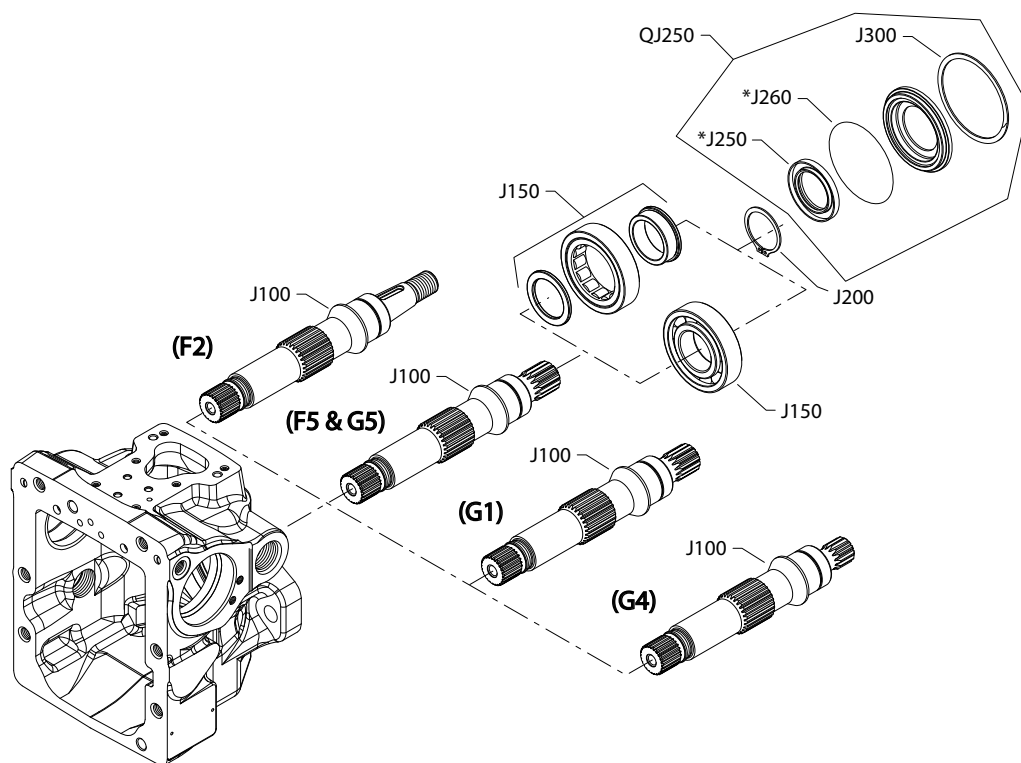
Order code: J

B015	07-19		9005110-4400	Plug assembly	2
B020	07-19		664524 (9005110-9000)	Plug assembly	2
H130	10-04		149055	Speed sensor assembly	1
H150	10-04		508438	Screw, M6 x 12	1
H155	10-04		376749	Screw, M6 x 12	1
H160	10-04		11186383	Speed sensor protector	1
QH125	10-04		11144977	Housing assembly	1
QH131	10-04		11013397	O-ring	1

Shaft

H1P 45/53 shaft F2-G5

Parts configuration



* Included in overhaul seal kit Q210

Common parts

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
J200	07-19		9006300-0137	Retaining ring	1
J250	07-19		141936	Lip seal	1
J260	07-19		9004104-2310	O-ring	1
J300	07-19		9006200-0281	Retaining ring	1
QJ250	07-19		4510479	Shaft seal kit	1

Order code: F2

J100	07-19		141961	Shaft, tapered	1
J150	07-19		357616	Roller bearing	1

Order code: F5

J100	07-19		141954	Shaft, 15 tooth spline	1
J150	07-19		5000731	Ball bearing	1

Order code: G1

J100	07-19		141942	Shaft, 14 tooth spline	1
J150	07-19		357616	Roller bearing	1

Order code: G4

J100	07-19		141953	Shaft, 13 tooth spline	1
J150	07-19		357616	Roller bearing	1

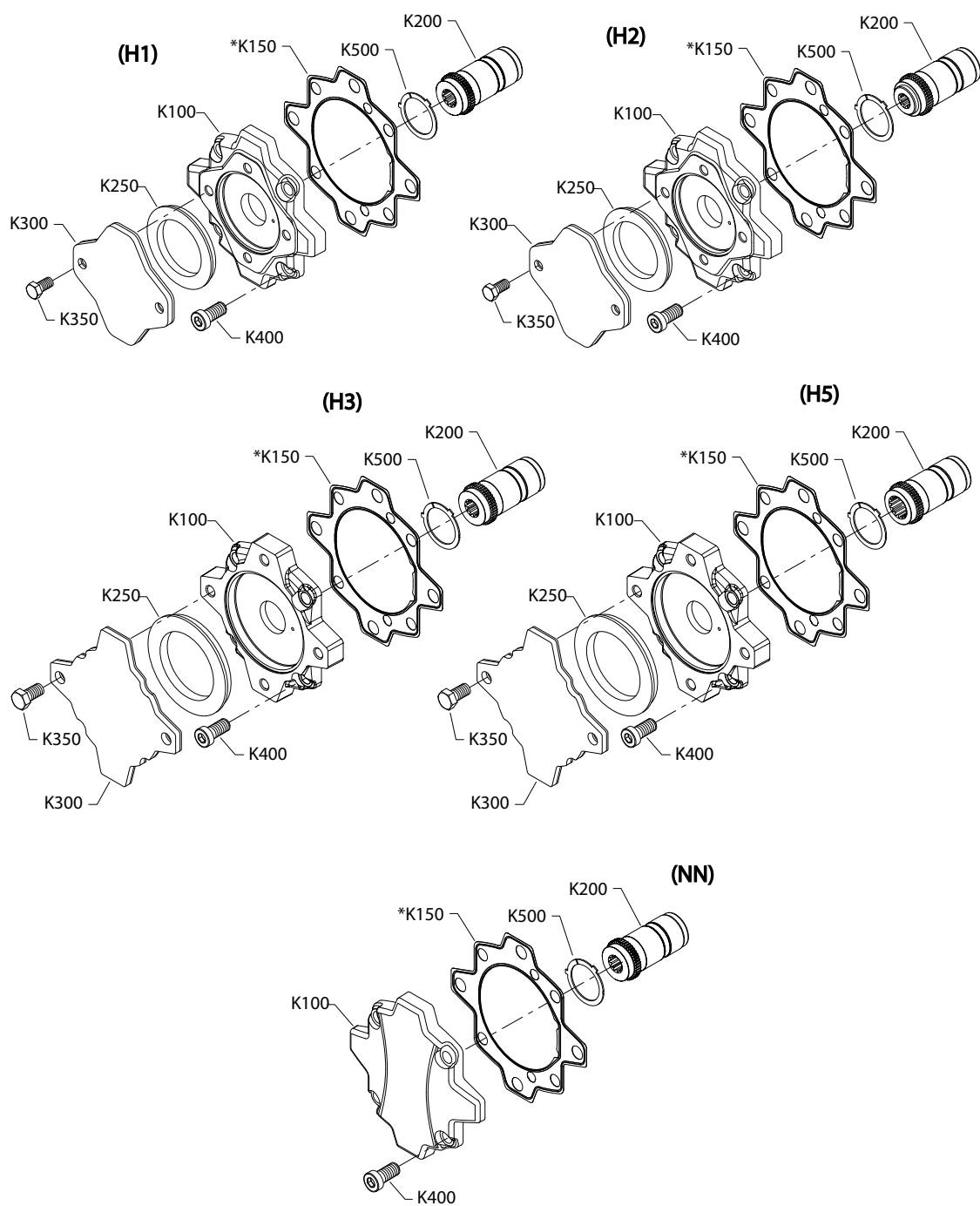
Order code: G5

J100	07-19		141954	Shaft, 15 tooth spline	1
J150	07-19		357616	Roller bearing	1

Auxiliary mounting

H1P 45/53 Aux mounting H1-NN

Parts configuration



* Included in overhaul seal kit Q210

Order code: H1

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
K100	07-19		140927	Adapter flange, SAE A	1
K150	07-19		11029873	Adapter flange gasket (<i>SB-2007-023</i> on page 151)	1
K200	07-19		141613	Coupling, 11 tooth	1
K300	07-19		11165482	Flange cover, A pad	1
K350	07-19		370247	Screw	2
K400	07-19		11000819	Screw	4
K500	07-19		141105	Thrust plate	1

Order code: H2

K100	07-19		140927	Adapter flange, SAE A	1
K150	07-19		11029873	Adapter flange gasket (<i>SB-2007-023</i> on page 151)	1
K200	07-19		141505	Coupling, 9 tooth	1
K300	07-19		11165482	Flange cover, A pad	1
K350	07-19		370247	Screw	2
K400	07-19		11000819	Screw	4
K500	07-19		141105	Thrust plate	1

Order code: H3

K100	07-19		141240	Adapter flange, SAE B	1
K150	07-19		11029873	Adapter flange gasket (<i>SB-2007-023</i> on page 151)	1
K200	07-19		141591	Coupling, 13 tooth	1
K250	07-19	08-32	8801061	B pad seal (<i>SB-2008-038</i> on page 155)	1
K300	07-19		11165484	Flange cover, B pad (<i>SB-2008-038</i> on page 155)	1
K350	07-19		5000760	Screw	2
K400	07-19		11000819	Screw	4
K500	07-19		141105	Thrust plate	1

Order code: H5

K100	07-19		141240	Adapter flange, SAE B	1
K150	07-19		11029873	Adapter flange gasket (<i>SB-2007-023</i> on page 151)	1
K200	07-19		141592	Coupling, 15 tooth	1
K250	07-19	08-32	8801061	B pad seal (<i>SB-2008-038</i> on page 155)	1
K300	07-19		11165484	Flange cover, B pad (<i>SB-2008-038</i> on page 155)	1
K350	07-19		5000760	Screw	2
K400	07-19		11000819	Screw	4
K500	07-19		141105	Thrust plate	1

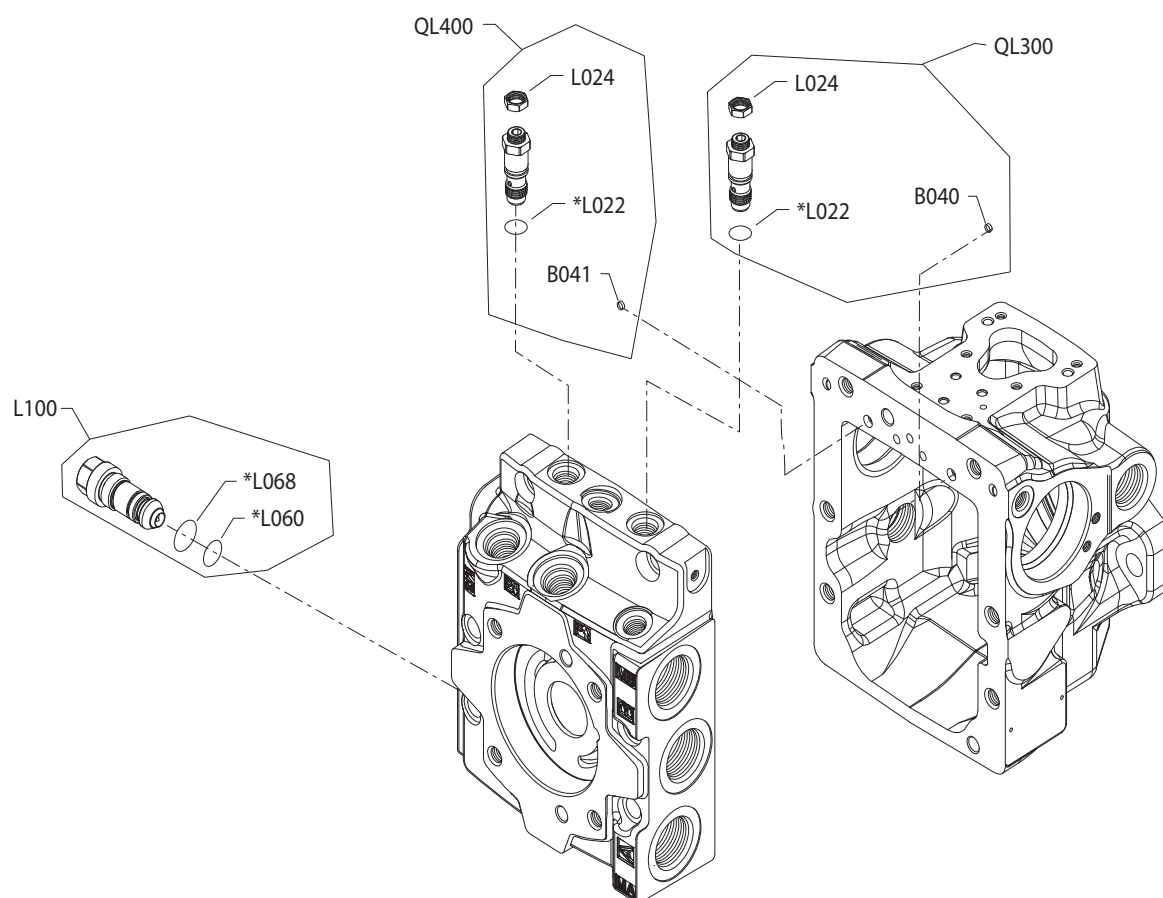
Order code: NN

K100	07-19		141249	Adapter flange, no pad	1
K150	07-19		11029873	Adapter flange gasket (<i>SB-2007-023</i> on page 151)	1
K200	07-19		141591	Coupling, 13 tooth	1
K400	07-19		11000819	Screw	4
K500	07-19		141105	Thrust plate	1

High pressure setting

Port A

H1P HPS F01-F03



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 168)	1
B041	20-40		140967	Screen (<i>SB-2020-029</i> on page 168)	1
L022	10-48		041152	O-ring	1
L024	13-14		11054668	Nut	1
L060	10-48		141109	O-ring	1
L068	10-48		11052215	O-ring	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: F01

L100	13-14		11049123	High pressure relief valve, 250 bar (<i>SB-2024-001B</i>)	1
------	-------	--	----------	---	---

Order code: F02

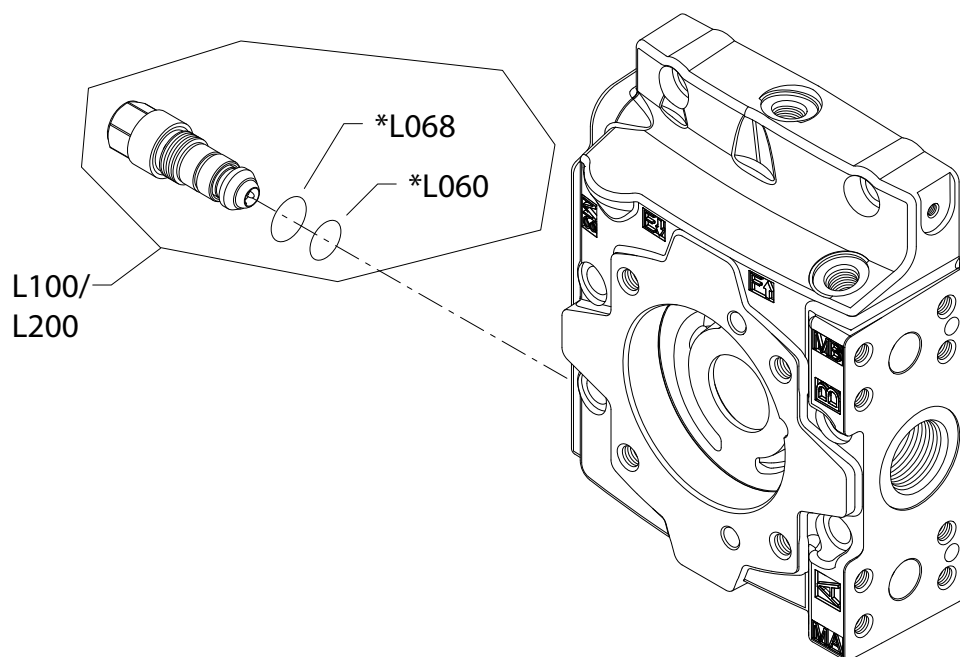
L100	13-14		11049125	High pressure relief valve, 300 bar (<i>SB-2024-001B</i>)	1
------	-------	--	----------	---	---

Order code: F03

L100	13-14		11049127	High pressure relief valve, 350 bar (<i>SB-2024-001B</i>)	1
------	-------	--	----------	---	---

H1P 45/53 HPS J18-J48

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	10-48		141109	O-ring	1
L068	10-48		11052215	O-ring	1

Order code: J18

L100	10-34		11049120	High pressure relief valve, 180 bar	1
------	-------	--	----------	-------------------------------------	---

Order code: J20

L100	10-34		11049121	High pressure relief valve, 200 bar	1
------	-------	--	----------	-------------------------------------	---

Order code: J23

L100	10-34		11049122	High pressure relief valve, 230 bar	1
------	-------	--	----------	-------------------------------------	---

Order code: J25

L100	10-34		11049123	High pressure relief valve, 250 bar	1
------	-------	--	----------	-------------------------------------	---

Order code: J28

L100	10-34		11049124	High pressure relief valve, 280 bar	1
------	-------	--	----------	-------------------------------------	---

Order code: J30

L100	10-48		11049125	High pressure relief valve, 300 bar	1
------	-------	--	----------	-------------------------------------	---

Order code: J33

L100	10-34		11049126	High pressure relief valve, 330 bar	1
------	-------	--	----------	-------------------------------------	---

Order code: J35

L100	10-34		11049127	High pressure relief valve, 350 bar	1
------	-------	--	----------	-------------------------------------	---

Order code: J38

L100	10-34		11049128	High pressure relief valve, 380 bar	1
------	-------	--	----------	-------------------------------------	---

Order code: J40

L100	10-34		11049129	High pressure relief valve, 400 bar	1
------	-------	--	----------	-------------------------------------	---

Order code: J42

L100	10-34		11049130	High pressure relief valve, 420 bar	1
------	-------	--	----------	-------------------------------------	---

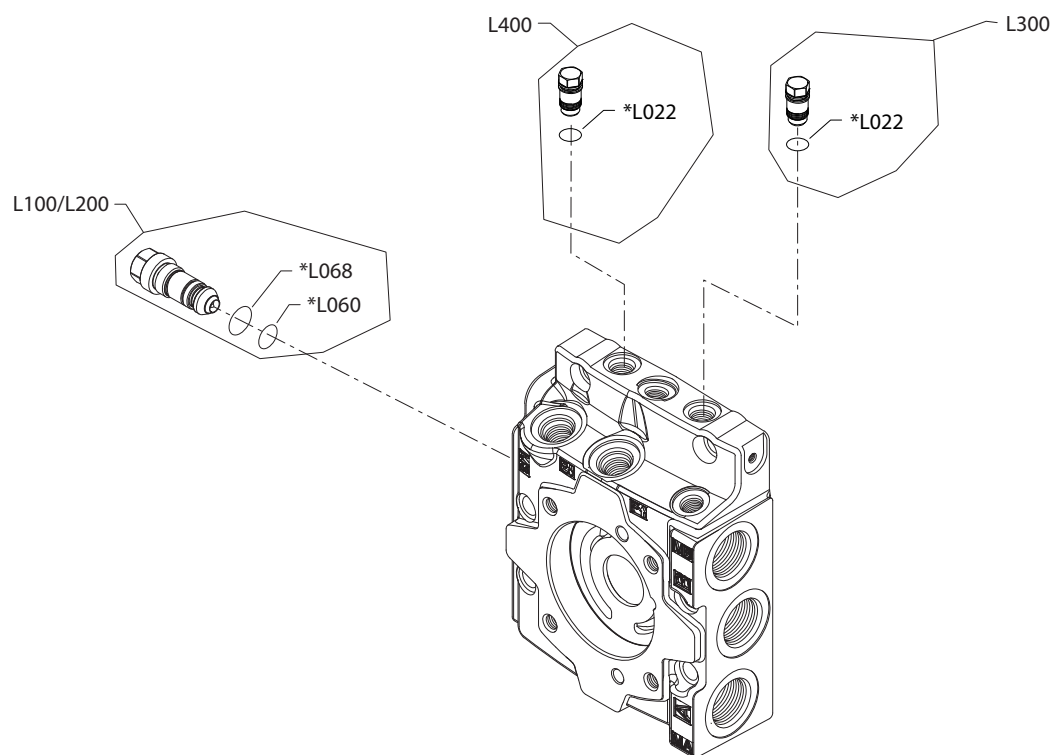
Order code: J45

L100	10-34		11049131	High pressure relief valve, 450 bar	1
------	-------	--	----------	-------------------------------------	---

Order code: J48

L100	10-34		11049132	High pressure relief valve, 480 bar	1
------	-------	--	----------	-------------------------------------	---

H1P 45/53 HPS K18-K48



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	15-11		041152	O-ring	1
L060	10-48		141109	O-ring	1
L068	10-48		11052215	O-ring	1
L300	15-11		11002291	Pressure limiter plug assembly CW rotation pump	1
L400	15-11		11002291	Pressure limiter plug assembly CCW rotation pump	1

Order code: K18

L100	07-19	15-03	11049120	High pressure relief valve, 180 bar (SB-2009-007 on page 158)	1
L100	15-11		11049120	High pressure relief valve, 180 bar	1

Order code: K20

L100	07-19	15-03	11049121	High pressure relief valve, 200 bar (SB-2009-007 on page 158)	1
L100	15-11		11049121	High pressure relief valve, 200 bar	1

Order code: K23

L100	07-19	15-03	11049122	High pressure relief valve, 230 bar (SB-2009-007 on page 158)	1
L100	15-11		11049122	High pressure relief valve, 230 bar	1

Order code: K25

L100	07-19	15-03	11049123	High pressure relief valve, 250 bar (SB-2009-007 on page 158)	1
L100	15-11		11049123	High pressure relief valve, 250 bar	1

Order code: K28

L100	07-19	15-03	11049124	High pressure relief valve, 280 bar (SB-2009-007 on page 158)	1
L100	15-11		11049124	High pressure relief valve, 280 bar	1

Order code: K30

L100	15-11		11049125	High pressure relief valve, 300 bar	1
L100	07-19	15-03	11049125	High pressure relief valve, 300 bar (SB-2009-007 on page 158)	1

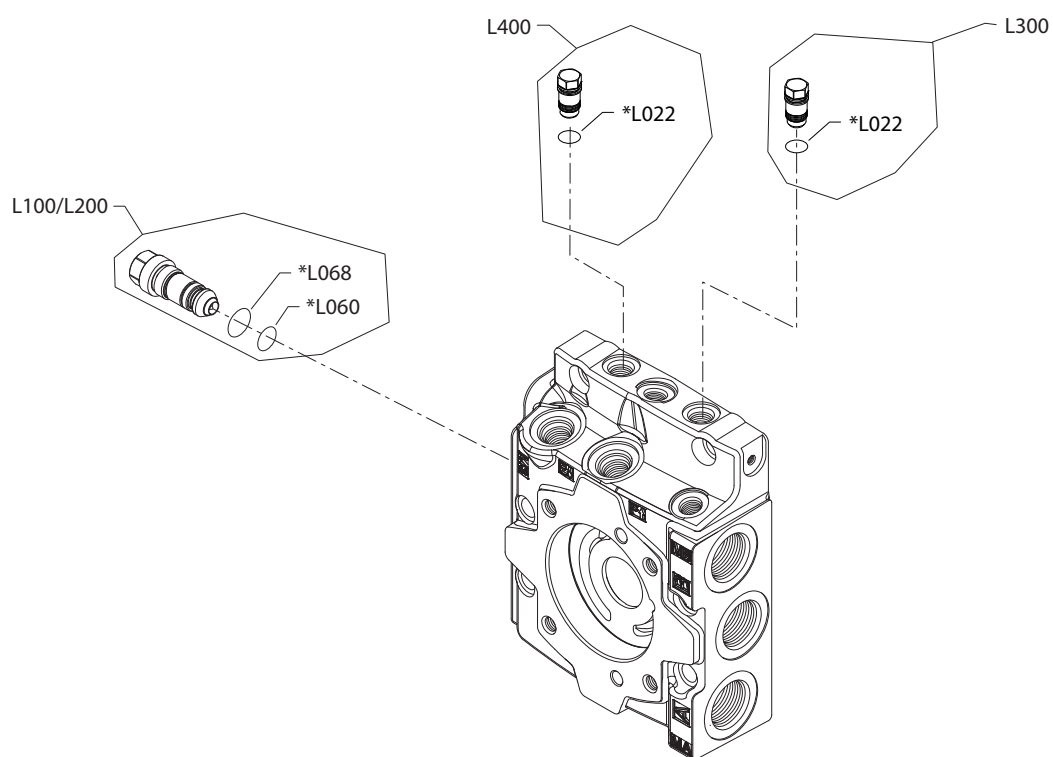
Order code: K33

L100	15-11		11049126	High pressure relief valve, 330 bar	1
L100	07-19	15-03	11049126	High pressure relief valve, 330 bar (SB-2009-007 on page 158)	1



Parts continue to the next 2 pages.

Parts configuration K18-K48



 Note

Generic end caps shown

* Included in overhaul seal kit Q210

Common parts

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
L022	15-11		041152	O-ring	1
L060	10-48		141109	O-ring	1
L068	10-48		11052215	O-ring	1
L300	15-11		11002291	Pressure limiter plug assembly CW rotation pump	1
L400	15-11		11002291	Pressure limiter plug assembly CCW rotation pump	1

Order code: K35

L100	15-11		11049127	High pressure relief valve, 350 bar	1
L100	07-19	15-03	11049127	High pressure relief valve, 350 bar (<i>SB-2009-007</i> on page 158)	1

Order code: K38

L100	15-11		11049128	High pressure relief valve, 380 bar	1
L100	07-19	15-03	11049128	High pressure relief valve, 380 bar (<i>SB-2009-007</i> on page 158)	1

Order code: K40

L100	15-11		11049129	High pressure relief valve, 400 bar	1
L100	07-19	15-03	11049129	High pressure relief valve, 400 bar (<i>SB-2009-007</i> on page 158)	1

Order code: K42

L100	15-11		11049130	High pressure relief valve, 420 bar	1
L100	07-19	15-03	11049130	High pressure relief valve, 420 bar (<i>SB-2009-007</i> on page 158)	1

Order code: K45

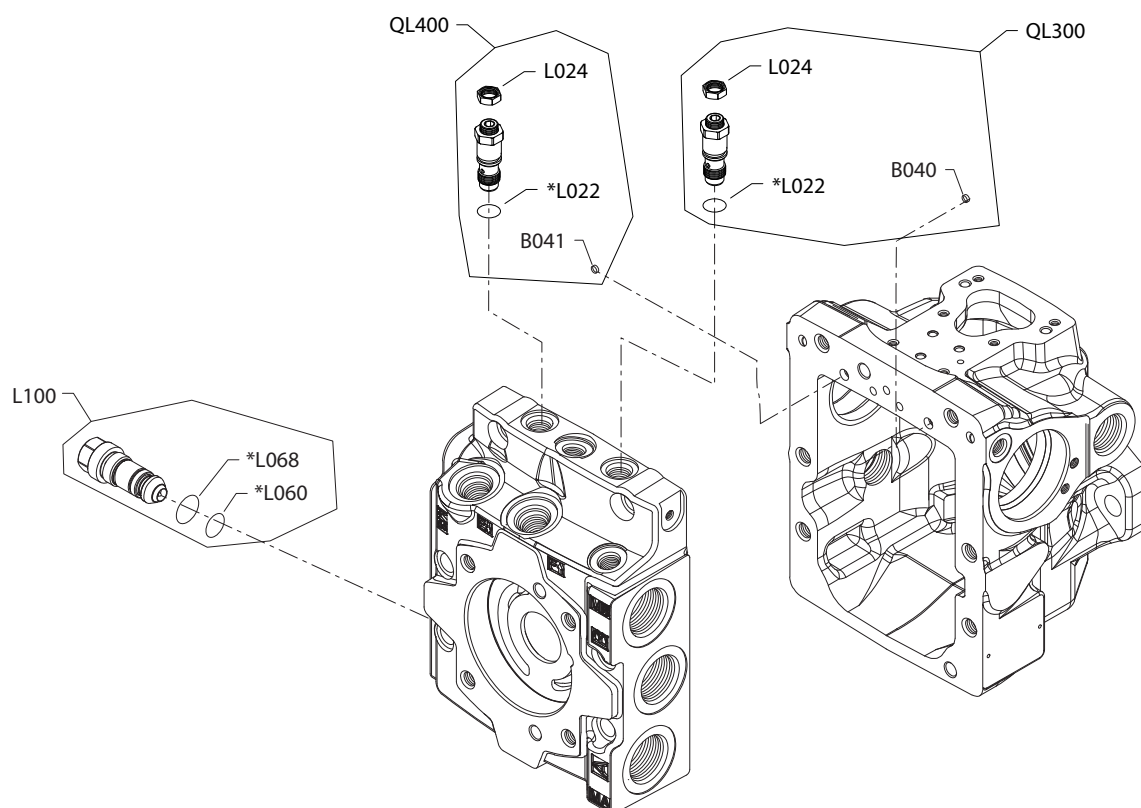
L100	15-11		11049131	High pressure relief valve, 450 bar	1
L100	07-19	15-03	11049131	High pressure relief valve, 450 bar (<i>SB-2009-007</i> on page 158)	1

Order code: K48

L100	15-11		11049132	High pressure relief valve, 480 bar	1
L100	07-19	15-03	11049132	High pressure relief valve, 480 bar (<i>SB-2009-007</i> on page 158)	1

H1P HPS L15-L42

Parts configuration L15-L42



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 (SB-2020-029 on page 168)	1
B041	20-40		140967	Screen (SB-2020-029 on page 168)	1
L022	10-48		041152	O-ring	1
L024	10-48		11054668	Nut	1
L060	10-48		141109	O-ring	1
L068	10-48		11052215	O-ring	1
QL300	10-48		11050482	Pressure limiter kit, adjustable, CCW rotation pump	1
QL400	10-48		11050482	Pressure limiter kit, adjustable, CW rotation pump	1

Order code: L15

L100	10-48		11049121	High pressure relief valve, 200 bar (SB-2024-001B)	1
------	-------	--	----------	--	---

Order code: L18

L100	10-48		11049122	High pressure relief valve, 230 bar (SB-2024-001B)	1
------	-------	--	----------	--	---

Order code: L20

L100	10-48		11049123	High pressure relief valve, 250 bar (SB-2024-001B)	1
------	-------	--	----------	--	---

Order code: L23

L100	10-48		11049124	High pressure relief valve, 280 bar (SB-2024-001B)	1
------	-------	--	----------	--	---

Order code: L25

L100	10-48		11049125	High pressure relief valve, 300 bar (SB-2024-001B)	1
------	-------	--	----------	--	---

Order code: L28

L100	10-48		11049126	High pressure relief valve, 330 bar (SB-2024-001B)	1
------	-------	--	----------	--	---

Order code: L30

L100	10-48		11049127	High pressure relief valve, 350 bar (SB-2024-001B)	1
------	-------	--	----------	--	---

Order code: L33

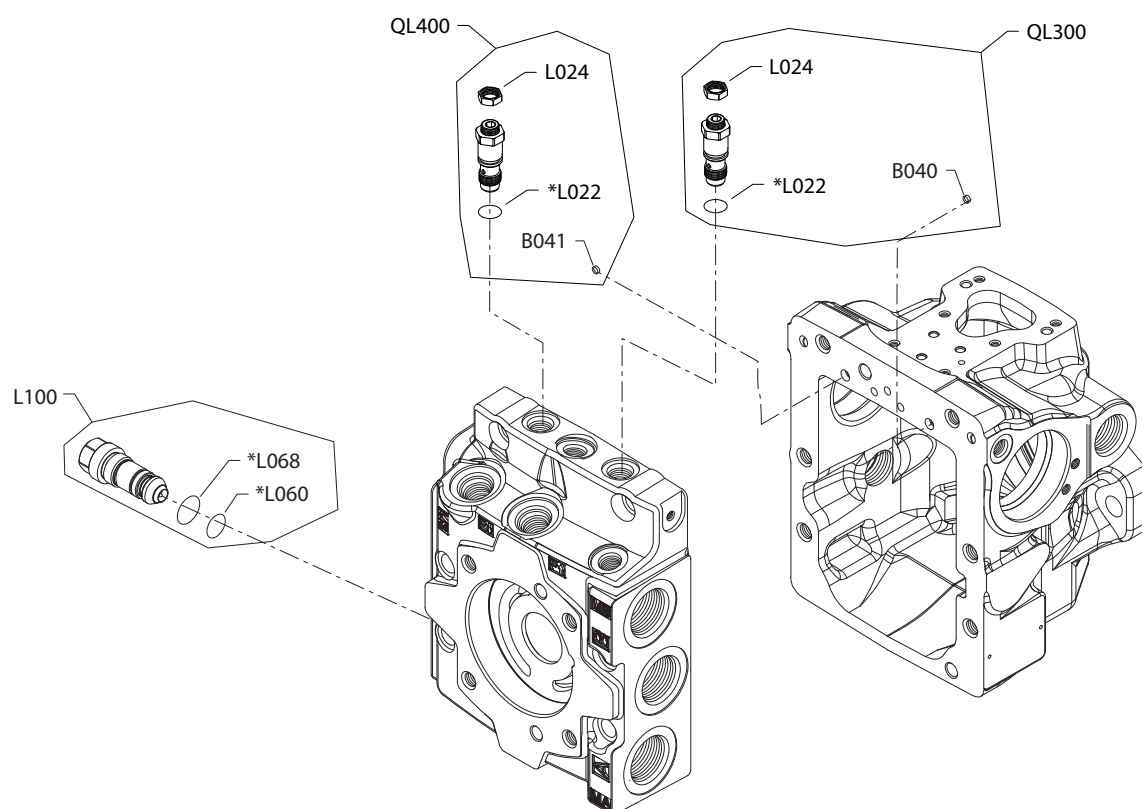
L100	10-48		11049128	High pressure relief valve, 380 bar (SB-2024-001B)	1
------	-------	--	----------	--	---



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
B040	20-40		140967	Screen (<i>SB-2020-029</i> on page 168)	1
B041	20-40		140967	Screen (<i>SB-2020-029</i> on page 168)	1
L022	10-48		041152	O-ring	1
L024	10-48		11054668	Nut	1
L060	10-48		141109	O-ring	1
L068	10-48		11052215	O-ring	1
QL300	10-48		11050482	Pressure limiter kit, adjustable, CCW rotation pump	1
QL400	10-48		11050482	Pressure limiter kit, adjustable, CW rotation pump	1

Order code: L35

L100	10-48		11049129	High pressure relief valve, 400 bar (<i>SB-2024-001B</i>)	1
------	-------	--	----------	---	---

Order code: L38

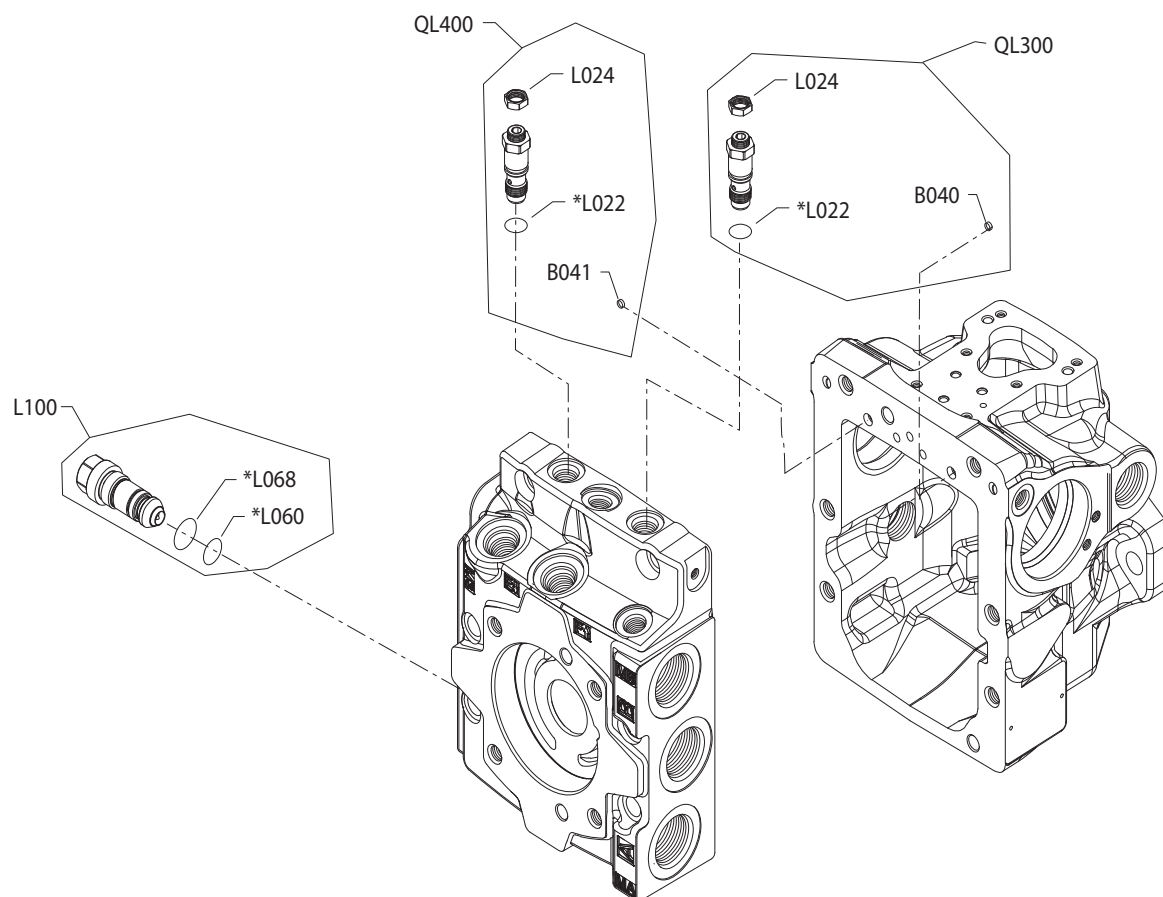
L100	10-48		11049130	High pressure relief valve, 420 bar (<i>SB-2024-001B</i>)	1
------	-------	--	----------	---	---

Order code: L40, L41, L42

L100	10-48		11049131	High pressure relief valve, 450 bar (<i>SB-2024-001B</i>)	1
------	-------	--	----------	---	---

Port B

H1P HPS F01-F03



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 168)	1
B041	20-40		140967	Screen (<i>SB-2020-029</i> on page 168)	1
L022	10-48		041152	O-ring	1
L024	13-14		11054668	Nut	1
L060	10-48		141109	O-ring	1
L068	10-48		11052215	O-ring	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: F01

L200	13-14		11049123	High pressure relief valve, 250 bar (<i>SB-2024-001B</i>)	1
------	-------	--	----------	---	---

Order code: F02

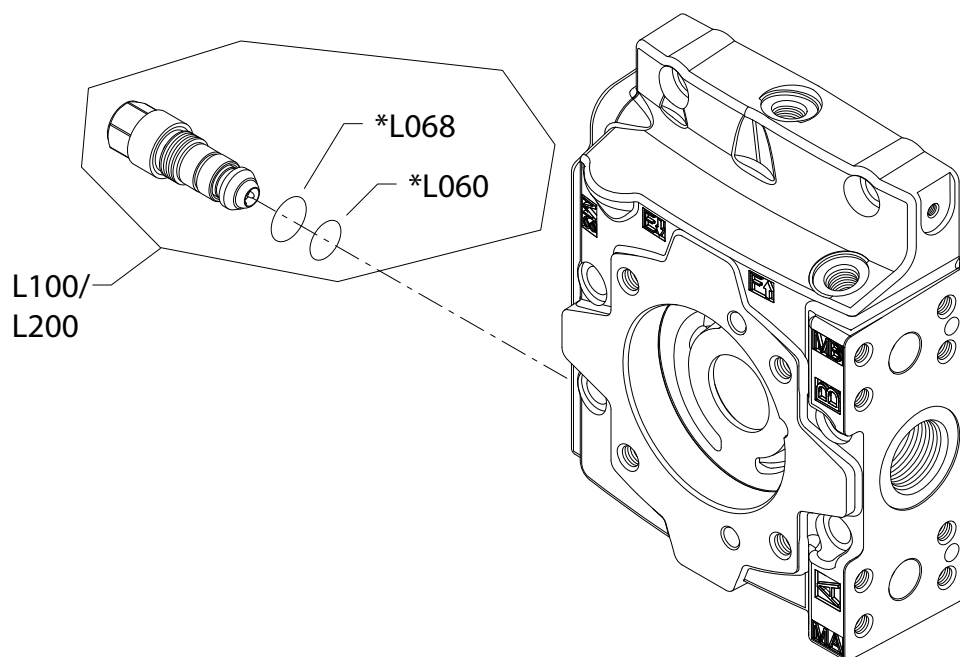
L200	13-14		11049125	High pressure relief valve, 300 bar (<i>SB-2024-001B</i>)	1
------	-------	--	----------	---	---

Order code: F03

L200	13-14		11049127	High pressure relief valve, 350 bar (<i>SB-2024-001B</i>)	1
------	-------	--	----------	---	---

H1P 45/53 HPS J18-J48

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	10-48		141109	O-ring	1
L068	10-48		11052215	O-ring	1

Order code: J18

L200	10-34		11049120	High pressure relief valve, 180 bar	1
------	-------	--	----------	-------------------------------------	---

Order code: J20

L200	10-34		11049121	High pressure relief valve, 200 bar	1
------	-------	--	----------	-------------------------------------	---

Order code: J23

L200	10-34		11049122	High pressure relief valve, 230 bar	1
------	-------	--	----------	-------------------------------------	---

Order code: J25

L200	10-34		11049123	High pressure relief valve, 250 bar	1
------	-------	--	----------	-------------------------------------	---

Order code: J28

L200	10-34		11049124	High pressure relief valve, 280 bar	1
------	-------	--	----------	-------------------------------------	---

Order code: J30

L200	10-48		11049125	High pressure relief valve, 300 bar	1
------	-------	--	----------	-------------------------------------	---

Order code: J33

L200	10-34		11049126	High pressure relief valve, 330 bar	1
------	-------	--	----------	-------------------------------------	---

Order code: J35

L200	10-34		11049127	High pressure relief valve, 350 bar	1
------	-------	--	----------	-------------------------------------	---

Order code: J38

L200	10-34		11049128	High pressure relief valve, 380 bar	1
------	-------	--	----------	-------------------------------------	---

Order code: J40

L200	10-34		11049129	High pressure relief valve, 400 bar	1
------	-------	--	----------	-------------------------------------	---

Order code: J42

L200	10-34		11049130	High pressure relief valve, 420 bar	1
------	-------	--	----------	-------------------------------------	---

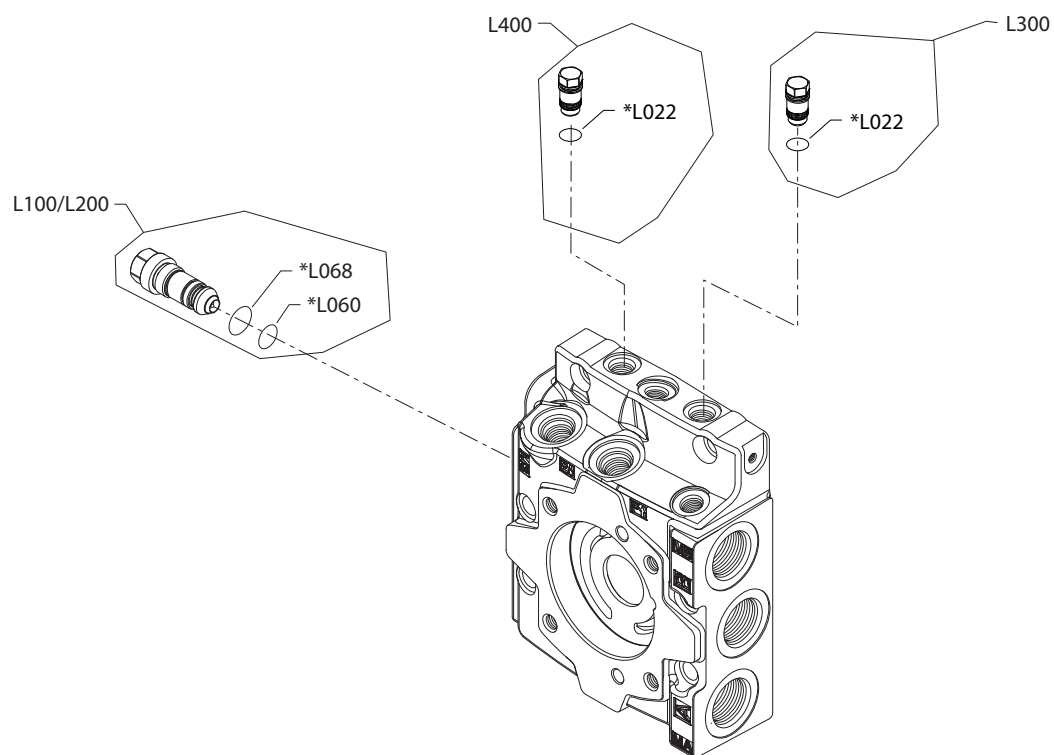
Order code: J45

L200	10-34		11049131	High pressure relief valve, 450 bar	1
------	-------	--	----------	-------------------------------------	---

Order code: J48

L200	10-34		11049132	High pressure relief valve, 480 bar	1
------	-------	--	----------	-------------------------------------	---

H1P 45/53 HPS K18-K48



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	15-11		041152	O-ring	1
L060	10-48		141109	O-ring	1
L068	10-48		11052215	O-ring	1
L300	15-11		11002291	Pressure limiter plug assembly CW rotation pump	1
L400	15-11		11002291	Pressure limiter plug assembly CCW rotation pump	1

Order code: K18

L200	07-19	15-03	11049120	High pressure relief valve, 180 bar (SB-2009-007 on page 158)	1
L200	15-11		11049120	High pressure relief valve, 180 bar	1

Order code: K20

L200	07-19	15-03	11049121	High pressure relief valve, 200 bar (SB-2009-007 on page 158)	1
L200	15-11		11049121	High pressure relief valve, 200 bar	1

Order code: K23

L200	07-19	15-03	11049122	High pressure relief valve, 230 bar (SB-2009-007 on page 158)	1
L200	15-11		11049122	High pressure relief valve, 230 bar	1

Order code: K25

L200	07-19	15-03	11049123	High pressure relief valve, 250 bar (SB-2009-007 on page 158)	1
L200	15-11		11049123	High pressure relief valve, 250 bar	1

Order code: K28

L200	07-19	15-03	11049124	High pressure relief valve, 280 bar (SB-2009-007 on page 158)	1
L200	15-11		11049124	High pressure relief valve, 280 bar	1

Order code: K30

L200	15-11		11049125	High pressure relief valve, 300 bar	1
L200	07-19	15-03	11049125	High pressure relief valve, 300 bar (SB-2009-007 on page 158)	1

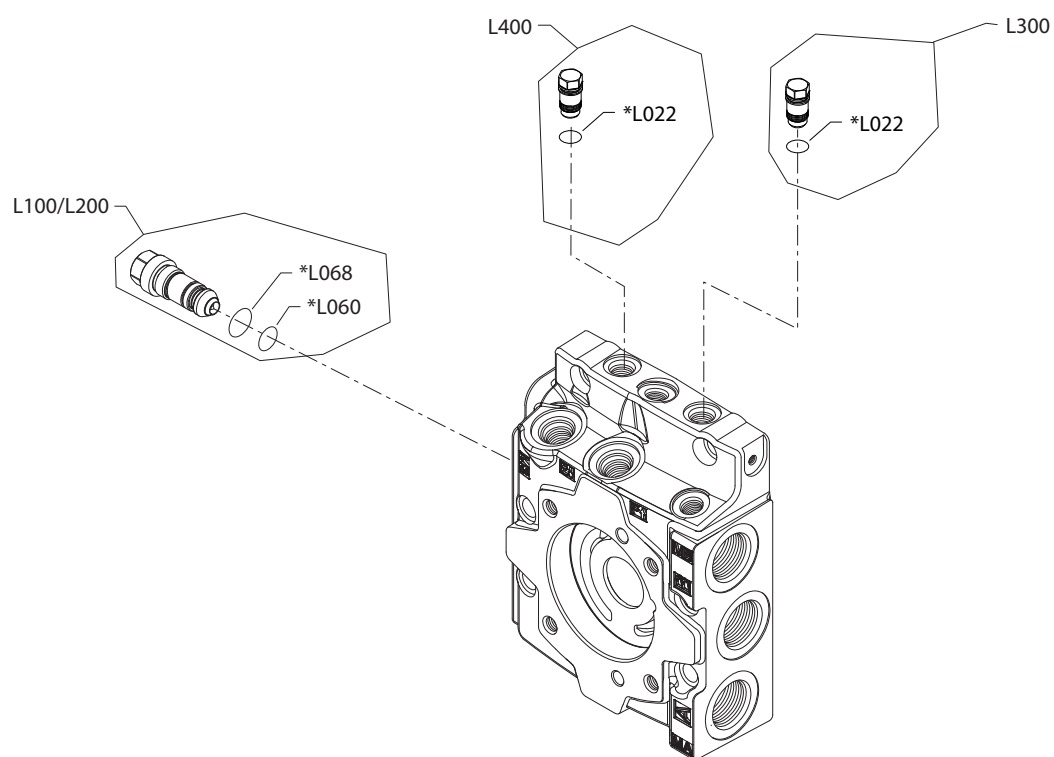
Order code: K33

L200	15-11		11049126	High pressure relief valve, 330 bar	1
L200	07-19	15-03	11049126	High pressure relief valve, 330 bar (SB-2009-007 on page 158)	1



Parts continue to the next 2 pages.

Parts configuration K18-K48



 Note

Generic end caps shown

* Included in overhaul seal kit Q210

Common parts

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
L022	15-11		041152	O-ring	1
L060	10-48		141109	O-ring	1
L068	10-48		11052215	O-ring	1
L300	15-11		11002291	Pressure limiter plug assembly CW rotation pump	1
L400	15-11		11002291	Pressure limiter plug assembly CCW rotation pump	1

Order code: K35

L200	15-11		11049127	High pressure relief valve, 350 bar	1
L200	07-19	15-03	11049127	High pressure relief valve, 350 bar (SB-2009-007 on page 158)	1

Order code: K38

L200	15-11		11049128	High pressure relief valve, 380 bar	1
L200	07-19	15-03	11049128	High pressure relief valve, 380 bar (SB-2009-007 on page 158)	1

Order code: K40

L200	15-11		11049129	High pressure relief valve, 400 bar	1
L200	07-19	15-03	11049129	High pressure relief valve, 400 bar (SB-2009-007 on page 158)	1

Order code: K42

L200	15-11		11049130	High pressure relief valve, 420 bar	1
L200	07-19	15-03	11049130	High pressure relief valve, 420 bar (SB-2009-007 on page 158)	1

Order code: K45

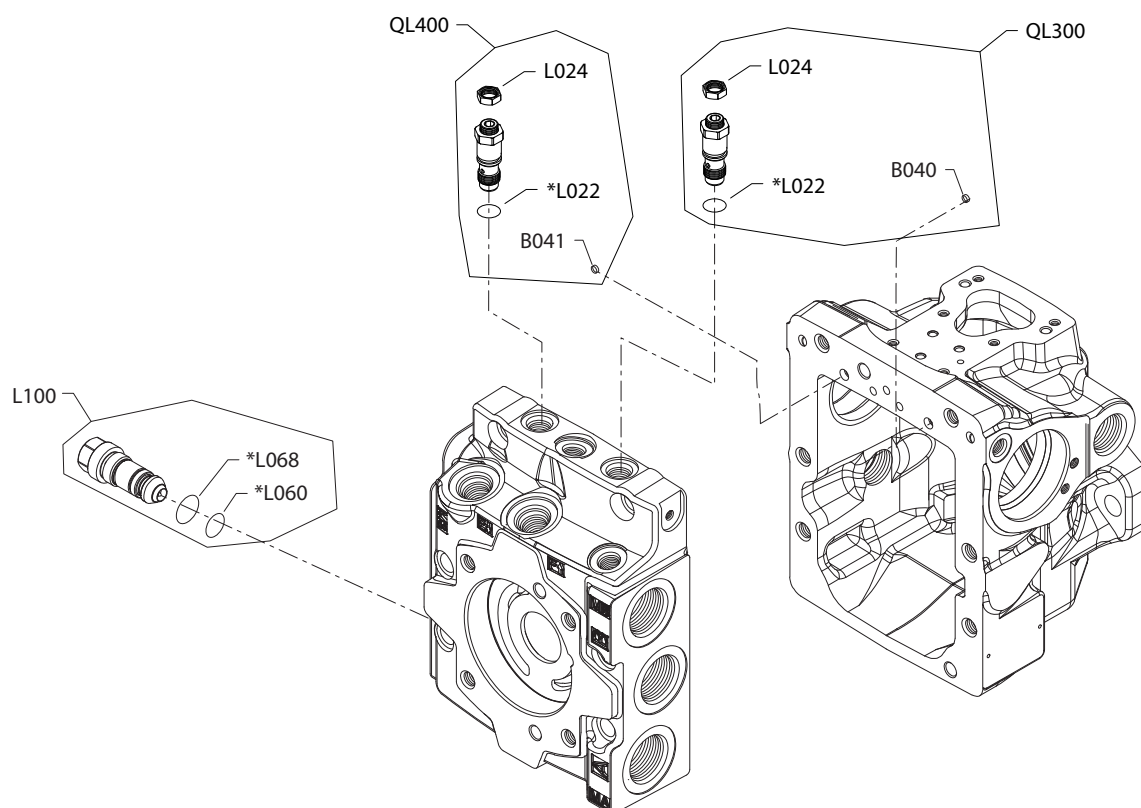
L200	15-11		11049131	High pressure relief valve, 450 bar	1
L200	07-19	15-03	11049131	High pressure relief valve, 450 bar (SB-2009-007 on page 158)	1

Order code: K48

L200	15-11		11049132	High pressure relief valve, 480 bar	1
L200	07-19	15-03	11049132	High pressure relief valve, 480 bar (SB-2009-007 on page 158)	1

H1P HPS L15-L42

Parts configuration L15-L42



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 (SB-2020-029 on page 168)	1
B041	20-40		140967	Screen (SB-2020-029 on page 168)	1
L022	10-48		041152	O-ring	1
L024	10-48		11054668	Nut	1
L060	10-48		141109	O-ring	1
L068	10-48		11052215	O-ring	1
QL300	10-48		11050482	Pressure limiter kit, adjustable, CCW rotation pump	1
QL400	10-48		11050482	Pressure limiter kit, adjustable, CW rotation pump	1

Order code: L15

L200	10-48		11049121	High pressure relief valve, 200 bar (SB-2024-001B)	1
------	-------	--	----------	--	---

Order code: L18

L200	10-48		11049122	High pressure relief valve, 230 bar (SB-2024-001B)	1
------	-------	--	----------	--	---

Order code: L20

L200	10-48		11049123	High pressure relief valve, 250 bar (SB-2024-001B)	1
------	-------	--	----------	--	---

Order code: L23

L200	10-48		11049124	High pressure relief valve, 280 bar (SB-2024-001B)	1
------	-------	--	----------	--	---

Order code: L25

L200	10-48		11049125	High pressure relief valve, 300 bar (SB-2024-001B)	1
------	-------	--	----------	--	---

Order code: L28

L200	10-48		11049126	High pressure relief valve, 330 bar (SB-2024-001B)	1
------	-------	--	----------	--	---

Order code: L30

L200	10-48		11049127	High pressure relief valve, 350 bar (SB-2024-001B)	1
------	-------	--	----------	--	---

Order code: L33

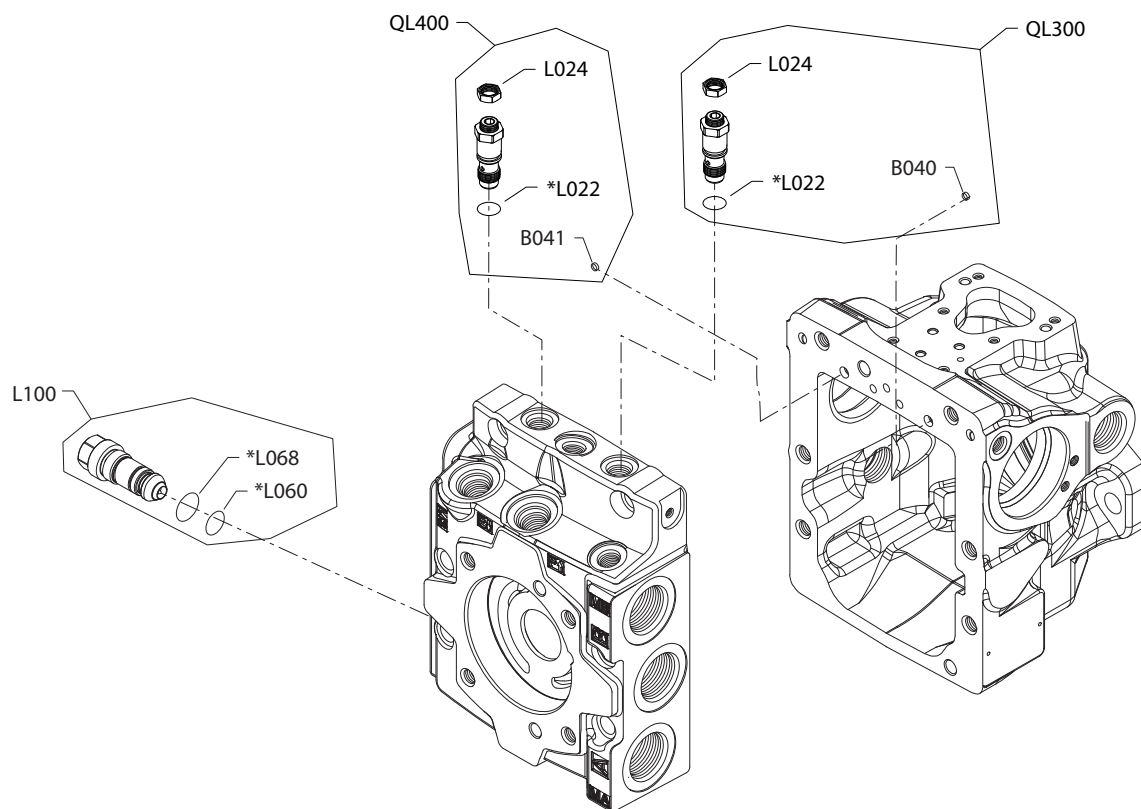
L200	10-48		11049128	High pressure relief valve, 380 bar (SB-2024-001B)	1
------	-------	--	----------	--	---



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
B040	20-40		140967	Screen (<i>SB-2020-029</i> on page 168)	1
B041	20-40		140967	Screen (<i>SB-2020-029</i> on page 168)	1
L022	10-48		041152	O-ring	1
L024	10-48		11054668	Nut	1
L060	10-48		141109	O-ring	1
L068	10-48		11052215	O-ring	1
QL300	10-48		11050482	Pressure limiter kit, adjustable, CCW rotation pump	1
QL400	10-48		11050482	Pressure limiter kit, adjustable, CW rotation pump	1

Order code: L35

L200	10-48		11049129	High pressure relief valve, 400 bar (<i>SB-2024-001B</i>)	1
------	-------	--	----------	---	---

Order code: L38

L200	10-48		11049130	High pressure relief valve, 420 bar (<i>SB-2024-001B</i>)	1
------	-------	--	----------	---	---

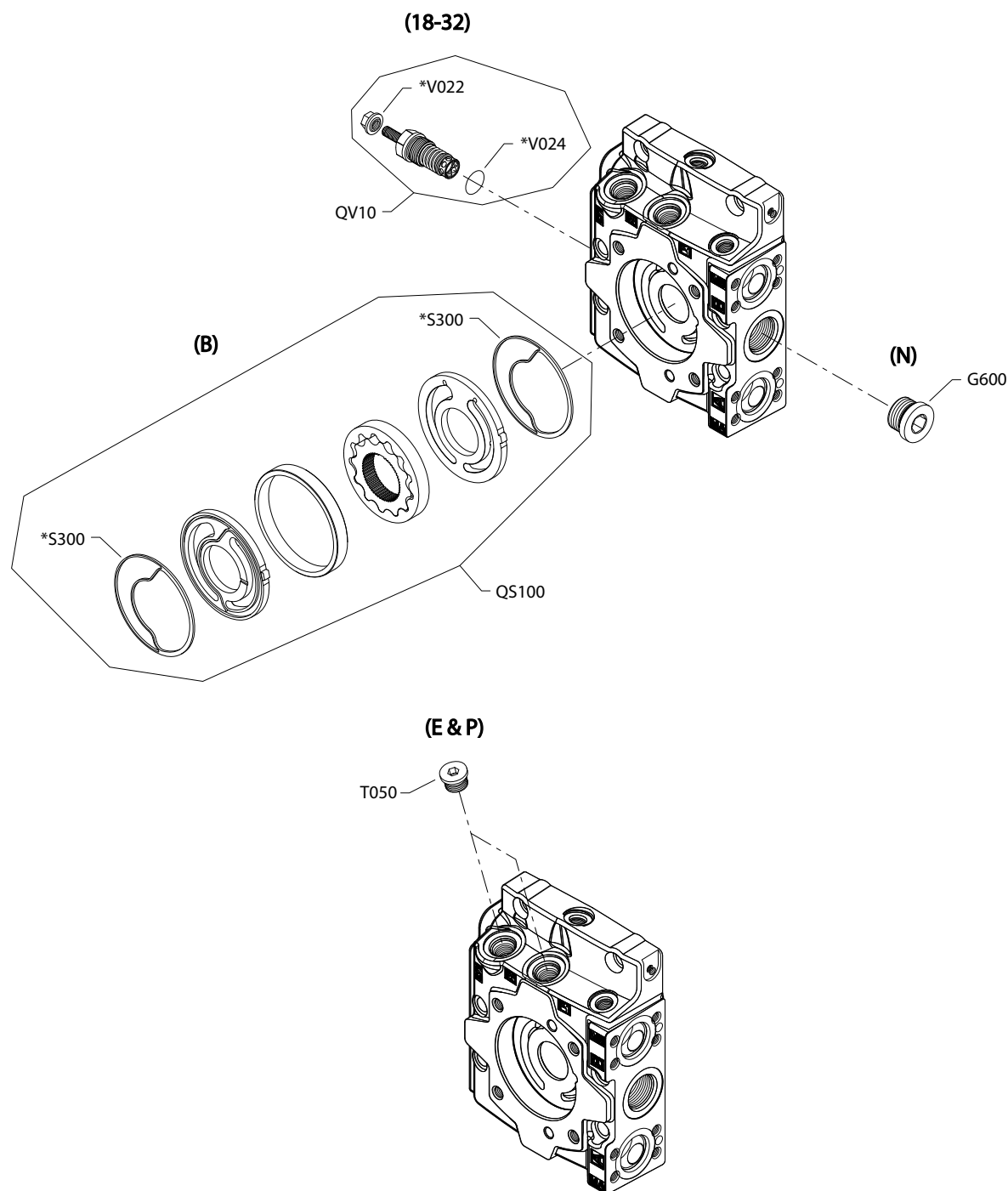
Order code: L40, L41, L42

L200	10-48		11049131	High pressure relief valve, 450 bar (<i>SB-2024-001B</i>)	1
------	-------	--	----------	---	---

Charge pump

H1P 45/53 charge pump, charge pressure relief, filtration

Parts configuration



Note

Generic end caps shown

* Included in overhaul seal kit Q210

Charge pump*Order code: B*

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
QS100	07-19		11016545	Charge pump kit, 12 cc	1
S300	07-19		11126777	Seal ring (<i>SB-2009-028</i> on page 160 & <i>SB-2013-019</i> on page 166)	2

Order code: N

G600	07-19		320002 (9005110-9200)	Plug assembly	1
------	-------	--	-----------------------	---------------	---

Charge pressure relief*Order code: 18-32*

QV10	07-19		11017127	Charge relief valve kit	1
V022	07-19		612291 (9003508-0008)	Seal nut	1
V024	07-19		001149 (9004201-6200)	O-ring	1

Filtration*Order code: E*

T050	07-19		315325 (9005110-8700)	Plug assembly	2
------	-------	--	-----------------------	---------------	---

Order code: L

None					
------	--	--	--	--	--

Order code: P

T050	07-19		315325 (9005110-8700)	Plug assembly	2
------	-------	--	-----------------------	---------------	---

Overhaul seal kit

H1P 45/53 seal kit

Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
Q210	07-19		11178402	Overhaul seal kit	1
D060	06-01		612291 (9003508-0008)	Seal nut	1
D150	07-19		11227209	Control gasket	1
D611	07-19	21-12	11066774	O-ring (SB-2021-014 on page 170)	2
D611	21-13		11225703	O-ring	2
D612	07-19	21-12	11003126	Plug (SB-2021-014 on page 170)	2
D612	21-13		11223708	Plug	2
E020	07-19		5000732	O-ring	2
E025	07-19		11028034	Piston seal ring	2
E250	07-19		5000709	O-ring	2
E500	07-19		505412 (9003509-0008)	Seal nut	1
E550	07-19		505412 (9003509-0008)	Seal nut	1
G150	07-19		141504	End cap gasket	1
J250	07-19		141936	Lip seal	1
J260	07-19		9004104-2310	O-ring	1
K150	07-19		11029873	Adapter flange gasket	1
L022	07-19		041152	O-ring	2
L060	07-19		141109	O-ring	2
L068	07-19		11052215	O-ring	2
QD26	07-19		11001952	O-ring	2
QD81	10-27		11059551	O-ring	1
QD81	10-27		11152257	O-ring	1
QD751	10-27		001131 (9004201-5000)	O-ring	1
QH131	10-04		11013397	O-ring	1
S300	07-19		11126777	Ring seal	2
V022	07-19		612291 (9003508-0008)	Seal nut	1
V024	07-19		001149 (9004201-6200)	O-ring	1

Service bulletin

SB-2006-030

Products affected

Subject

Control, servo piston and housing

Description

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

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

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

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

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

Models affected

All H1 147 and 165cc pumps

Serial numbers

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

Part numbers affected

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

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

Parts disposition

Interchangeable

SB-2007-004

Products affected

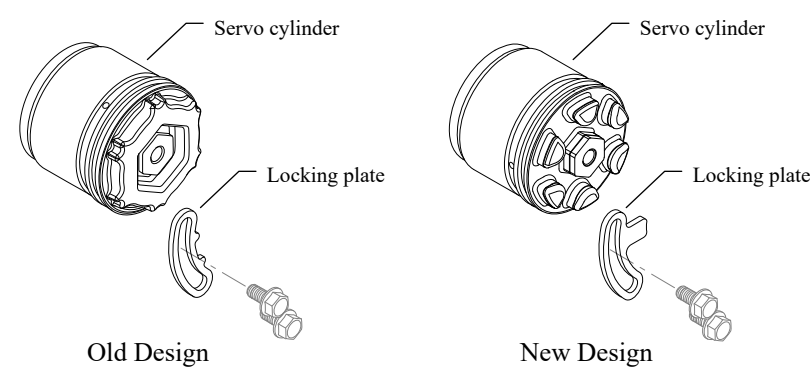
H1 45 and 53cc single and tandem pumps

Subject

Servo cylinder and locking plate change

Description

As a product improvement, Danfoss has changed the servo cylinder and locking plate. The old servo cylinder locking plate wasn't strong enough to hold the servo cylinder while tightening the seal nut on the displacement limiters. 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.



Models affected

All H1 45 and 53cc single and tandem pumps.

Serial numbers

This change became effective at serial number A-07-23-xxxxx for adjustable servo cylinders and at serial number A-07-30-xxxxx for non-adjustable servo cylinders.

Part numbers affected

Description	Old part number	New part number
Servo cylinder, non-adjustable	142040	11013883
Servo cylinder, adjustable	142041	11015561
Locking plate	141940	11013910

Parts disposition

Interchangeable

SB-2007-023

Products affected

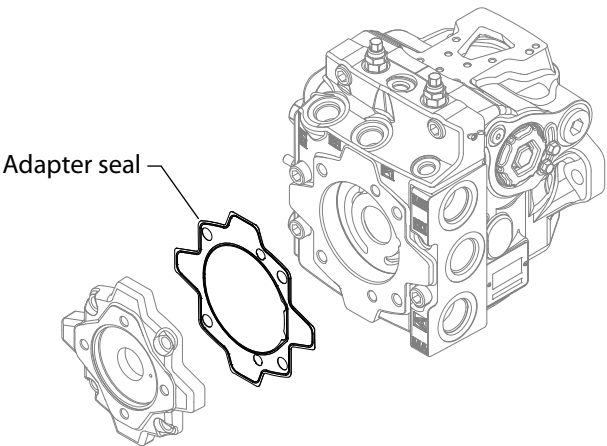
H1 45 and 53cc single and tandem pumps

Subject

Adapter pad seal

Description

As a product improvement, Danfoss has changed the adapter seal on H1 45 and 53cc pumps. The new seal helps protect the adapter pad area from rust. The new and old adapter seal are interchangeable. The old adapter seal is obsolete and no longer available for service.



Models affected

All H1 45cc single pumps.

Serial numbers

This change became effective at serial number A-08-11-xxxxx.

Part numbers affected

Description	Old part number	New part number
Adapter pad seal	140929	11029873

Parts disposition

Interchangeable

SB-2007-026

Products affected

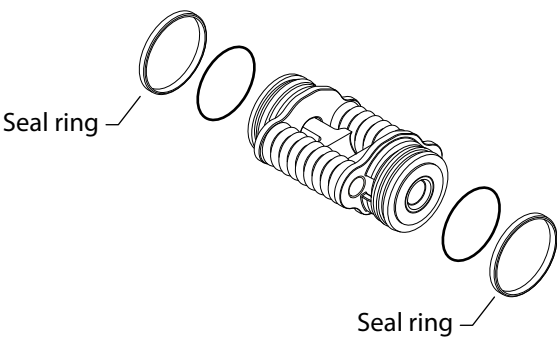
H1 45 and 53cc single and tandem pumps

Subject

Servo piston seal ring

Description

As a product improvement, Danfoss has changed the servo piston seal rings. The new and old seal rings are interchangeable. The old servo piston seal ring and assembly are obsolete and no longer available for service. A new servo piston assembly has been created.



Models affected

All H1 45 and 53cc single and tandem pumps.

Serial numbers

This change became effective at serial number A-07-44-xxxxx.

Part numbers affected

Description	Old part number	New part number
Servo piston	141965	11016260
Nested servo piston	141730	11016261
Seal ring	141962	11028034

Parts disposition

Interchangeable

SB-2007-033

Products affected

H1 pumps

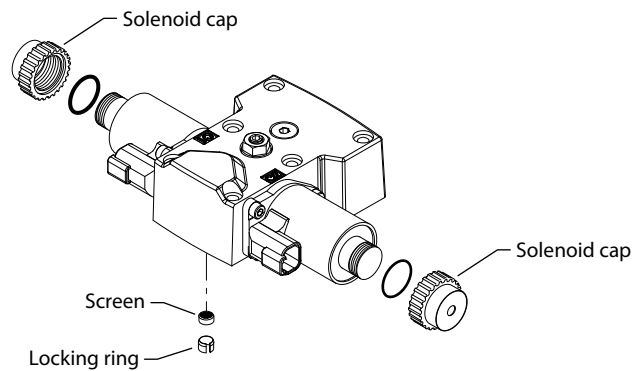
Subject

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

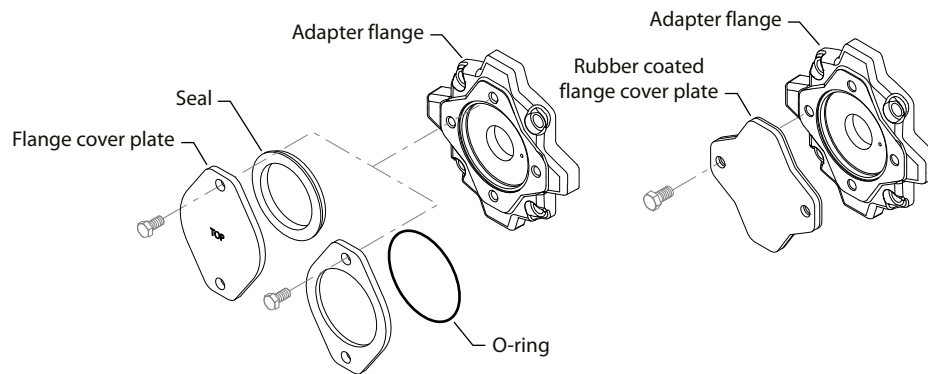
H1 pumps

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-2008-056

Products affected

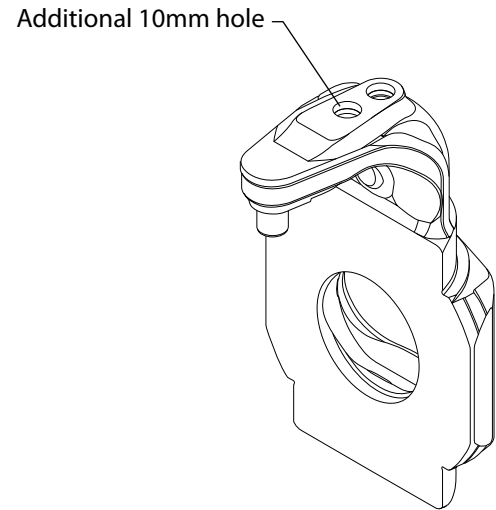
H1 variable pumps

Subject

Swashplate angle sensor

Description

Danfoss has added a 10mm hole to the swashplate for mounting an optional swashplate angle sensor. The new swashplate can be used in place of the old swashplate, but the old swashplate can not be used in place of the new swashplate if the pump has an optional swashplate angle sensor. The old swashplate will become obsolete and no longer available for service.



Models affected

All H1 045/053 cc single and tandem pumps.

Serial numbers

This change became effective at serial number A-09-10-xxxxx.

Part numbers affected

Description	Old part number	New part number
Swashplate	141696	11036038

Parts disposition

- Non-interchangeable
- Use parts in stock

SB-2009-007

Products affected

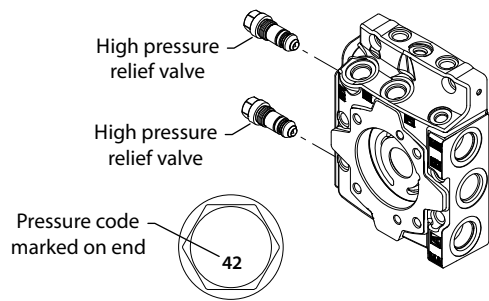
H1 pumps, 45 thru 100 cc

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-2009-028

Products affected

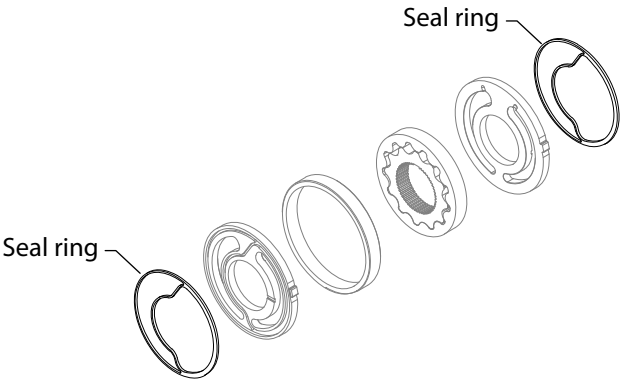
H1 pumps with 9, 12, 14 or 17 cc charge pumps

Subject

Material change to port plate seal rings

Description

The material of the seal-ring for the charge pump port plates has changed. This change was previously done to the larger frame size pumps. To better track this change, the part number has changed. The new part number is completely interchangeable with the old part number. The old part number will become obsolete and not available for service.



Models affected

All H1 pumps using 9, 12, 14 or 17 cc charge pumps

Serial numbers

This change became effective at serial number A09-22-xxxxx.

Part numbers affected

Description	Old part number	New part number
Seal	140918	11009457

Parts disposition

- Interchangeable
- Order replacement parts
- Revise existing part orders

SB-2009-043

Products affected

H1 pumps, 45 and 53 cc pumps

Subject

Swashplate supplier change

Description

The supplier has changed, for the swashplate used in H1 45 and 53 cc pumps. The new swashplate is interchangeable with the old swashplate. A new part number has been assigned to the new swashplate to better track this change. The old swashplate has become obsolete.

Models affected

All H1 45 and 53 cc variable pumps

Serial numbers

This change became effective at serial number A10-07-xxxxx. (15 February 2010)

Part numbers affected

Description	Old part number	New part number
Swashplate	141696	11068797
Swashplate	11036038	11068797

Parts disposition

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

SB-2009-051

Products affected

H145/53 cc single and tandem pumps

Subject

Valve plate change

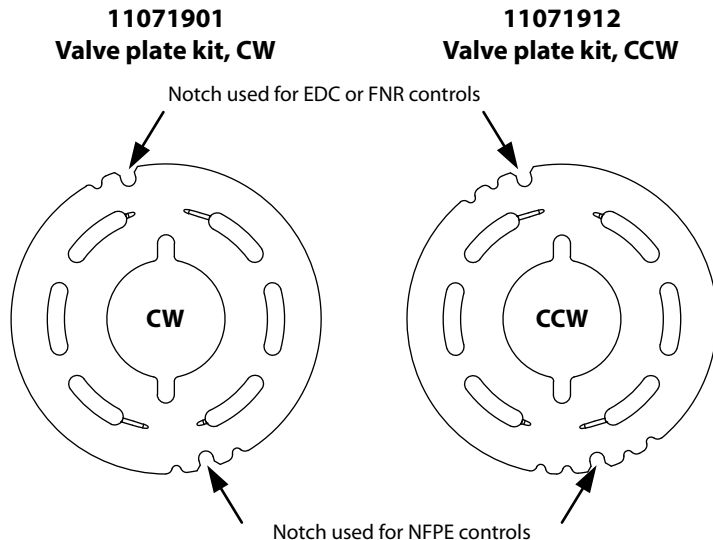
Description

As part of continuing product improvement efforts, Danfoss is implementing a design change to the valve plates used in H1 45 and 53 cc single and tandem pumps. The old valve plate should be replaced at first repair. The new valve plates are interchangeable with the old valve plate, but the old valve plate should not replace the new valve plate. The old valve plates are replaced with kits that include the valve plate and instructions on how to orientate the valve plate for proper operation. The old valve plate will become obsolete and not available.

This valve plate change also requires a change to the Special Hardware Features order code. The code is specified as PN, replacing the NN call out. See Product Information Bulletin (PIB) number HY2009- 015 for more details.

Proper orientation of valve plates:

These valve plates are manufactured with large locator pin notches on opposite sides from each other and smaller identification notches. The large notches are to fit over the locator pin in the pump end cap or center section. The large notch on one side is to be used with Electric Displacement Control (EDC) or Forward-Neutral-Reverse (FNR) controls, and the large notch on the opposite side is to be used with Non-FeedbackProportionalElectric (NFPE) controls (different timing). The large notch that has small notches at one side of it is to be used with EDC or FNR controls. The large notch that has small notches on both sides of it is to be used with NFPE controls. The small notches are also used to identify valve plate rotation. Three small notches indicate a CW (right hand) rotation valve plate, and a valve plate with six small notches indicates CCW (left hand) rotation.

**Models affected**

All H1 45 and 53 cc, single and tandem pumps

Serial numbers

This change became effective at serial number A09-37-xxxxx. (8 September 2009)

Part numbers affected

Description	Old part number	New part number
Valve plate, CW	141324	11071901 (kit)
Valve plate, CCW	141555	11071912 (kit)

Parts disposition

- Interchangeable for new to replace old
- Non-interchangeable for old to replace new
- Return new parts for credit
- Order replacement parts
- Revise existing part orders

SB-2010-020

Products affected

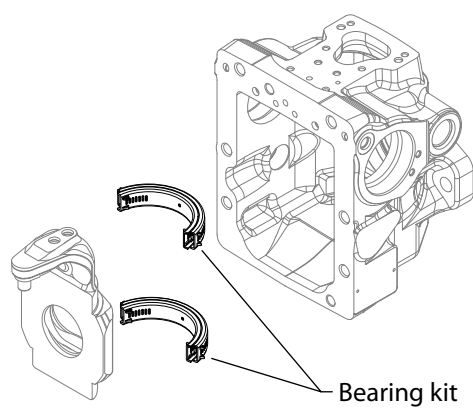
H1 45cc and 53cc pumps and tandem pumps

Subject

Swashplate bearing change

Description

The supplier has changed for the swashplate bearing kits used in the H1, 45cc and 53cc pumps and tandem pumps. New part numbers have been assigned for tracking purposes. The old swashplate bearing kits and the new swashplate bearing kits are interchangeable. The old swashplate bearing kits are obsolete and no longer available for service.



Models affected

All H1, 45 and 53cc pumps and tandem pumps

Serial numbers

This change became effective at serial number: A-10-41-XXXXX (11-Oct-2010)

Part numbers affected

Description	Old part number	New part number
Swashplate bearing kit	4510465	11085533

Parts disposition

- Interchangeable - only new for old, but not old bearing for new
- Scrap used parts
- Order replacement parts
- Revise existing part orders

SB-2011-020

Products affected

H1 45 and 53cc pumps

Subject

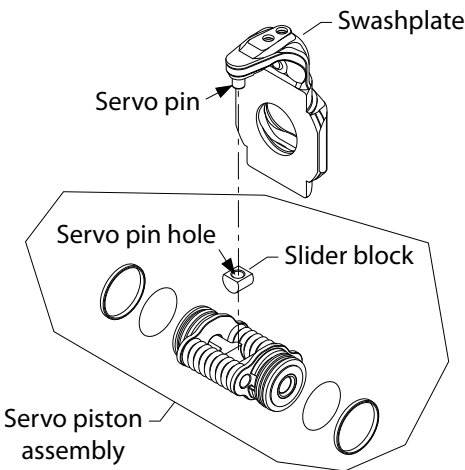
Swashplate change

Description

This design change for H1 45 and 53cc pumps replaces the forged swashplate which has an 11mm diameter servo pin with a cast swashplate of 13mm diameter servo pin. The servo slider block will also change to accommodate the new pin diameter. The old swashplate is interchangeable with the new swashplate, if the new slider block is also used.

A swashplate replacement kit with a 13mm slider block was created for service. Servo piston assembly replacement kits have also been created. These kits contain both 10mm and 13mm slider blocks to accommodate old or new swashplate.

The old swashplate and servo piston assemblies are obsolete and no longer available. The old slider block will remain available.



Models affected

H1 45 and 53cc pumps

Serial numbers

This change became effective at serial number A-12-21-105568 (20-May-2012)

Part numbers affected

Description	Old part number	New part number	Replacement kit
Slider block	141939	11014805	none
Swashplate	11068797	11068328	11098280
Servo piston assembly	11016260	11094107	11098278
Servo piston assy, nested	11016261	11094283	11098279

Parts disposition

Non-interchangeable

SB-2013-019

Products affected

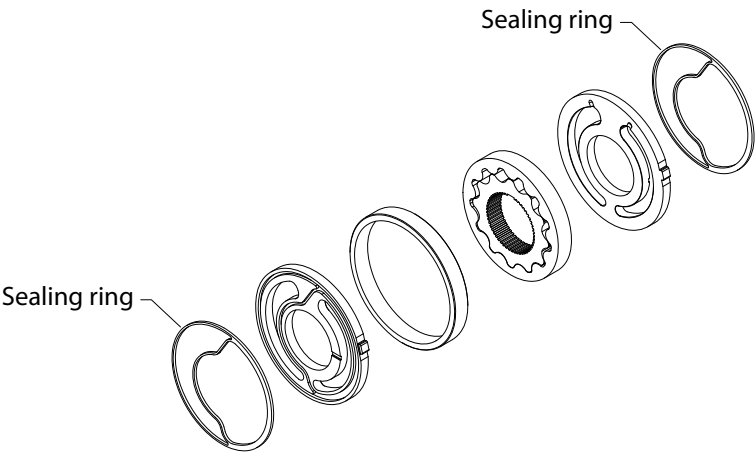
H1 pumps

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

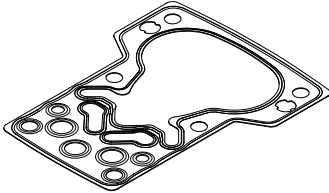
SB-2016-033

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

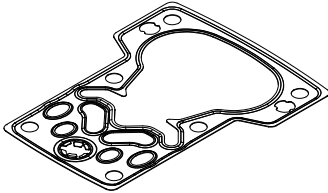
Subject Control Gasket

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	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-2018-025

Products affected

H1 pumps

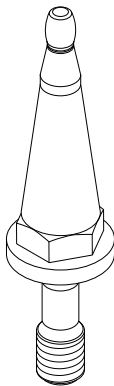
Subject

Swashplate feedback link

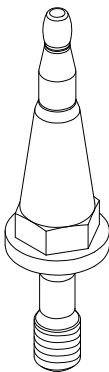
Description

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

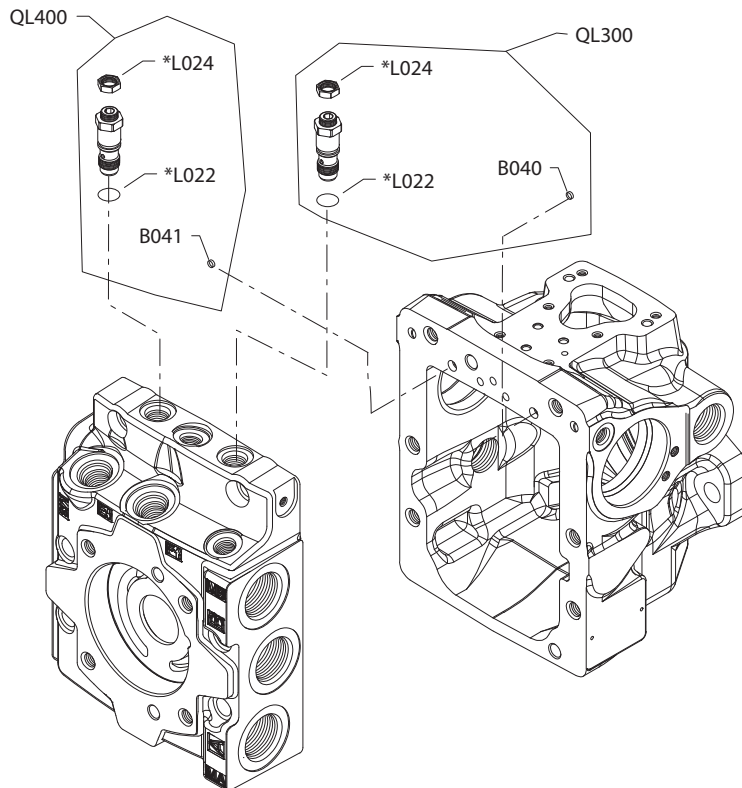
Subject

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

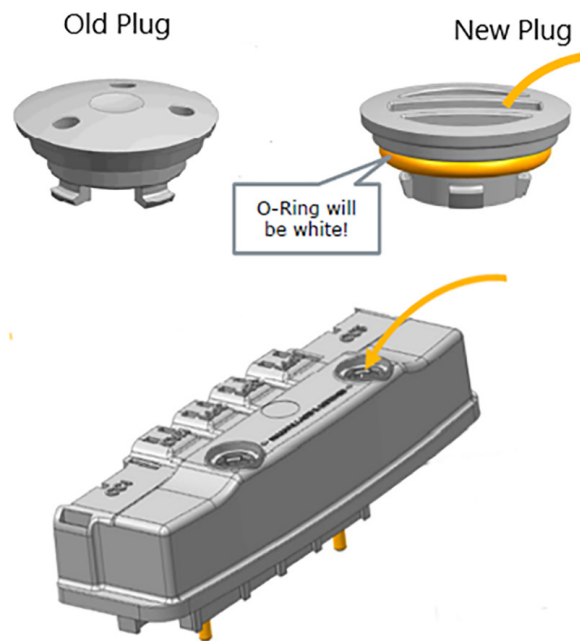
H1 and MP1 pumps

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-2024-001B

Products affected

H1 Pumps

Subject

High pressure relief valves

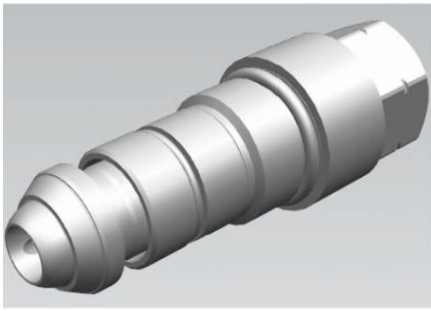
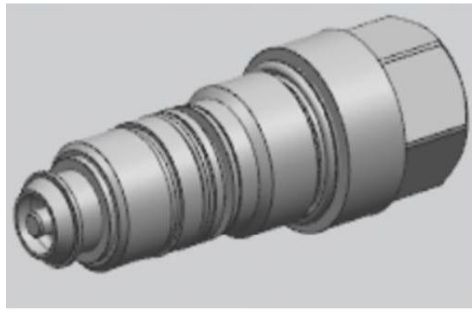
Description

Danfoss has made a part number and visual change to the high-pressure valve. Visual change is the end of the valve poppet, see pictures below. This change is for 45 to 100cc pumps with the "L" or "F" option for the system relief valve.

Model code with "Lxx" or "Fxx" option (example L30) will use the new style HPRV. New to old style are interchangeable. The O-rings are interchangeable from old to new valves.

Service part number will not change. For service, use the old design and part numbers. New part numbers are for production only at this time.

In case of service, always use the old design.

Older style**New style****Models affected**

H1 45/53, 60/68, 69/78, 89/100cc pumps

Serial numbers affected

This change became effective in Germany (N2236xxxxx)

Part numbers affected

Description	Old part number	New part number
VALVE-HIGH-PRESS-RLF H1P045-100 180BAR	11049120	11252684
VALVE-HIGH-PRESS-RLF H1P045-100 200BAR	11049121	11252683
VALVE-HIGH-PRESS-RLF H1P045-100 230BAR	11049122	11252682
VALVE-HIGH-PRESS-RLF H1P045-100 250BAR	11049123	11252681
VALVE-HIGH-PRESS-RLF H1P045-100 280BAR	11049124	11252680
VALVE-HIGH-PRESS-RLF H1P045-100 300BAR	11049125	11252679
VALVE-HIGH-PRESS-RLF H1P045-100 330BAR	11049126	11252677
VALVE-HIGH-PRESS-RLF H1P045-100 350BAR	11049127	11252676
VALVE-HIGH-PRESS-RLF H1P045-100 380BAR	11049128	11252675
VALVE-HIGH-PRESS-RLF H1P045-100 400BAR	11049129	11252674
VALVE-HIGH-PRESS-RLF H1P045-100 420BAR	11049130	11252673
VALVE-HIGH-PRESS-RLF H1P045-100 450BAR	11049131	11252670
VALVE-HIGH-PRESS-RLF H1P045-100 480BAR	11049132	11252668
VALVE-HIGH-PRESS-RLF H1P045-100 510BAR	11049133	11252667
VALVE-HIGH-PRESS-RLF H1P045-100 440BAR	11145242	11252671
VALVE-HIGH-PRESS-RLF H1P045-100 430BAR	11166242	11252672
VALVE-HIGH-PRESS-RLF H1P045-100 420BAR	11238037	11252678

Parts disposition

Interchangeable



Please contact your Danfoss representative if you require any updated prints or documents.

SB-2024-007

Products affected

H1 manual controls

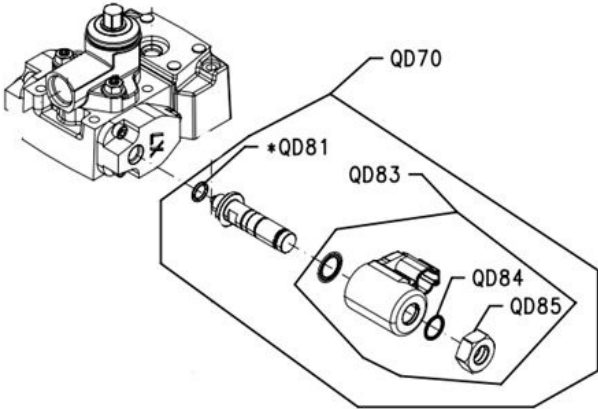
Subject

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 *

Description	Old part number	New part number	Item #
SVC KIT-COIL, 12V DT CONN CCO	11136347	11253939	QD83 *
SVC KIT-COIL, 24V DT CONN CCO	11136348	11253938	QD83 *
O-RING, ISO3601-1 13.00x2.00 N-FKM70	11140393	11232752	QD84 *
O-RING, ISO3601-1 17.00x1.50 N-VMQ70	11149504	11232753	QD86 *

Parts disposition

Non-interchangeable (internal parts)

Interchangeable (complete assembly)



Hydro-Gear

www.hydro-gear.com

Daikin-Sauer-Danfoss

www.daikin-sauer-danfoss.com

Explore our solutions at danfoss.com.

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

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