

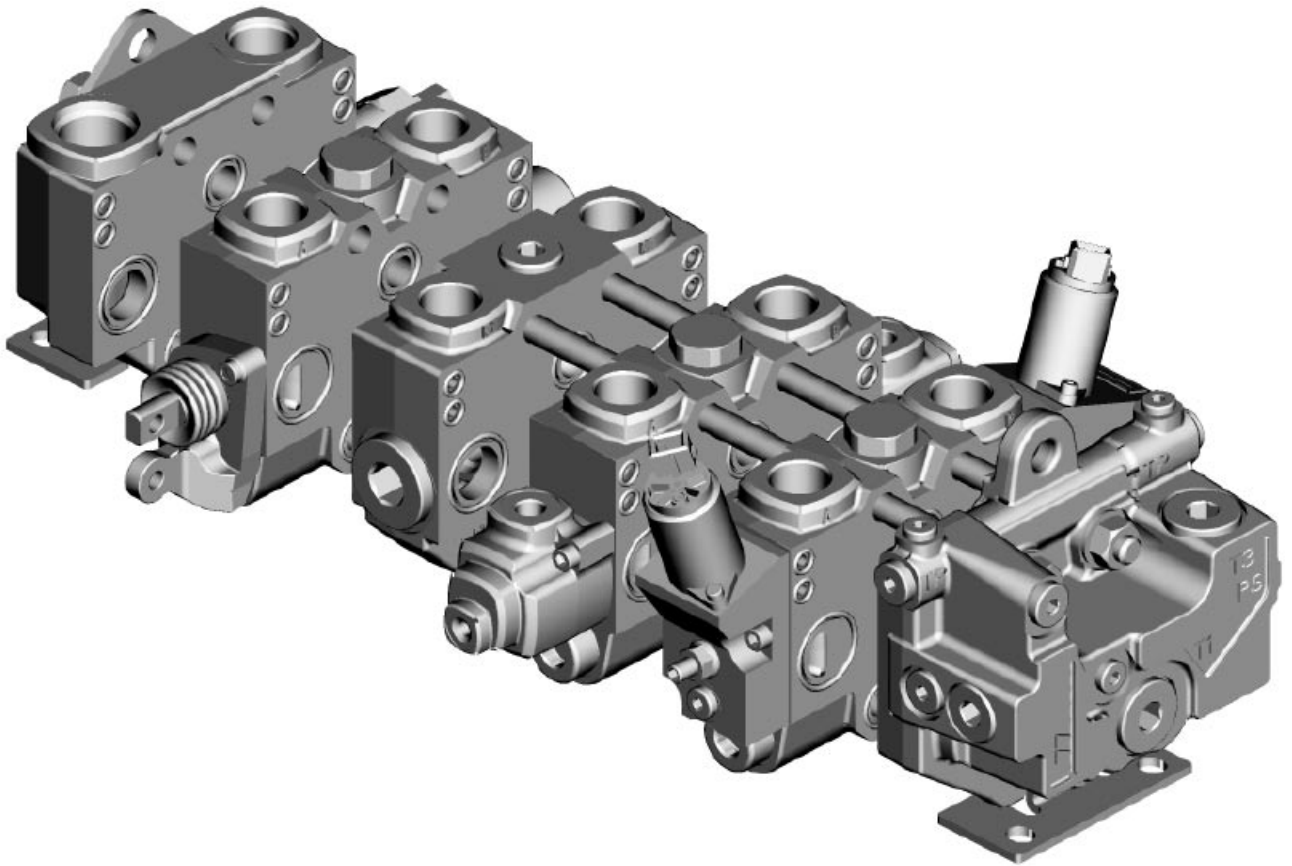


Bulletin HY17-8814-M1/UK

Spare Parts List

Series F130CF/F130CP

Effective: March 16, 2009
Supersedes: February 26, 2009



This list of spare parts is designed to give you a good idea of the components included in the product range for valves. To see precisely which component is used for a specific product, you will need to look at the customer specification for the product in question. The customer specification contains a number of entries, and for each entry, a code pressure or flow is specified with a code or a number. To help you find your way around, this list of spare parts contains references to these entries and codes.

Codes on the image page of the list of spare parts usually appear in bold and enclosed in a border. The table page contains available spare part sets. The ordering code is the product code that appears in the Part column.

The spare part to be used is determined by the first two columns, which contain the entry and the code from the customer specification. If these columns are empty, the spare part set is valid regardless of the selected code, unless indicated otherwise

The symbols in the frame below are used in this Spare Parts List to help you find the right tools, the right torques, suitable grease etc.

Conversion factors

1 kg	= 2.2046 lb
1 N	= 0.22481 lbf
1 Nm	= 0.10197 kpm
1 bar	= 14.504 psi
1 l	= 0.21997 UK gallon
1 l	= 0.26417 US gallon
1 cm ³	= 0.061024 in ³
1 m	= 3.2808 feet
1 mm	= 0.03937 in
9/5 °C + 32	= °F

Symbols for servicing

 = Phillips screw	 = Thread for disassembly type...
 = Slot screw	 = Tightening torque in Nm
 = Socket head dimensions in mm and/or inch	 = Use locking/sealing fluid type...
 = Hexagon dimensions in mm and/or inch	 = Use corrosion preventative type...
 = Sixpoint socket	 = Use hydraulic liquid for lubrication
 = Wrench size in mm and/or inch or special assembly/disassembly tool needed. No...	 = Use grease type...
 = See appendix A	 = See appendix A



WARNING – USER RESPONSIBILITY

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from Parker-Hannifin Corporation, its subsidiaries and authorized distributors provide product or system options for further investigation by users having technical expertise.

The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalogue and in any other materials provided from Parker or its subsidiaries or authorized distributors.

To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the components or systems.

Offer of Sale

Please contact your Parker representation for a detailed "Offer of Sale".

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This spare parts list is valid for F130 generation 2 only. See product designation on the name plate. For spare parts to generation 1 see product information No HY17-8801-M1

Generation 2 has designation in format as shown below:

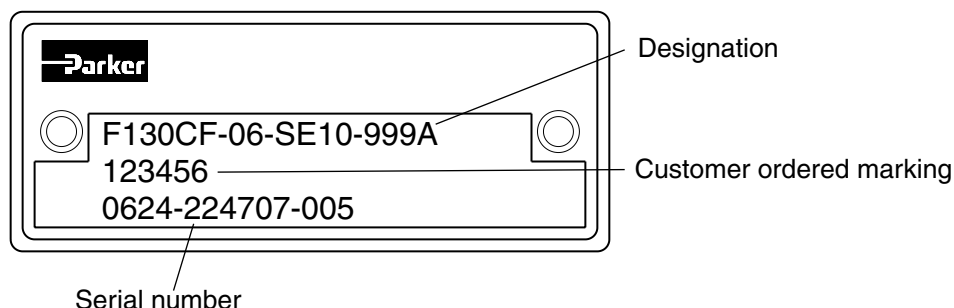
F130CF-XX-XXXX-XXX

F130CF-XX-XXXX-XXXX

F130CP-XX-XXXX-XXX

F130CP-XX-XXXX-XXXX

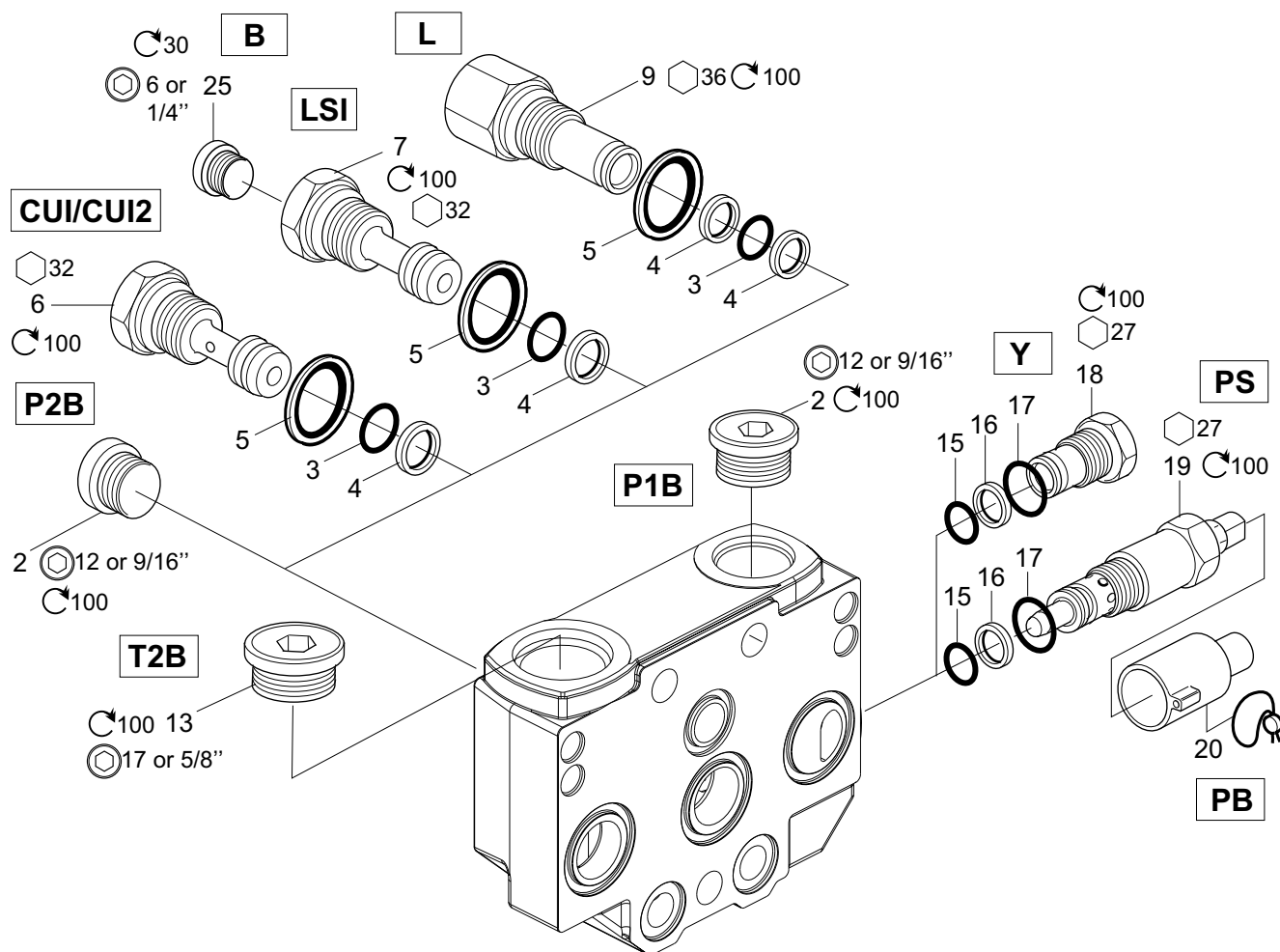
Name plate



Valve serial numbers consist of three groups of digits
The first group shows year and week of manufacture:
In this example, 0624 means week 24 of 2006
The remaining digits are for internal use within Parker

Notice ! Some valves hasn't any designation code stamped. Some valves has the serial number and designation code text line in opposite order than the example above.

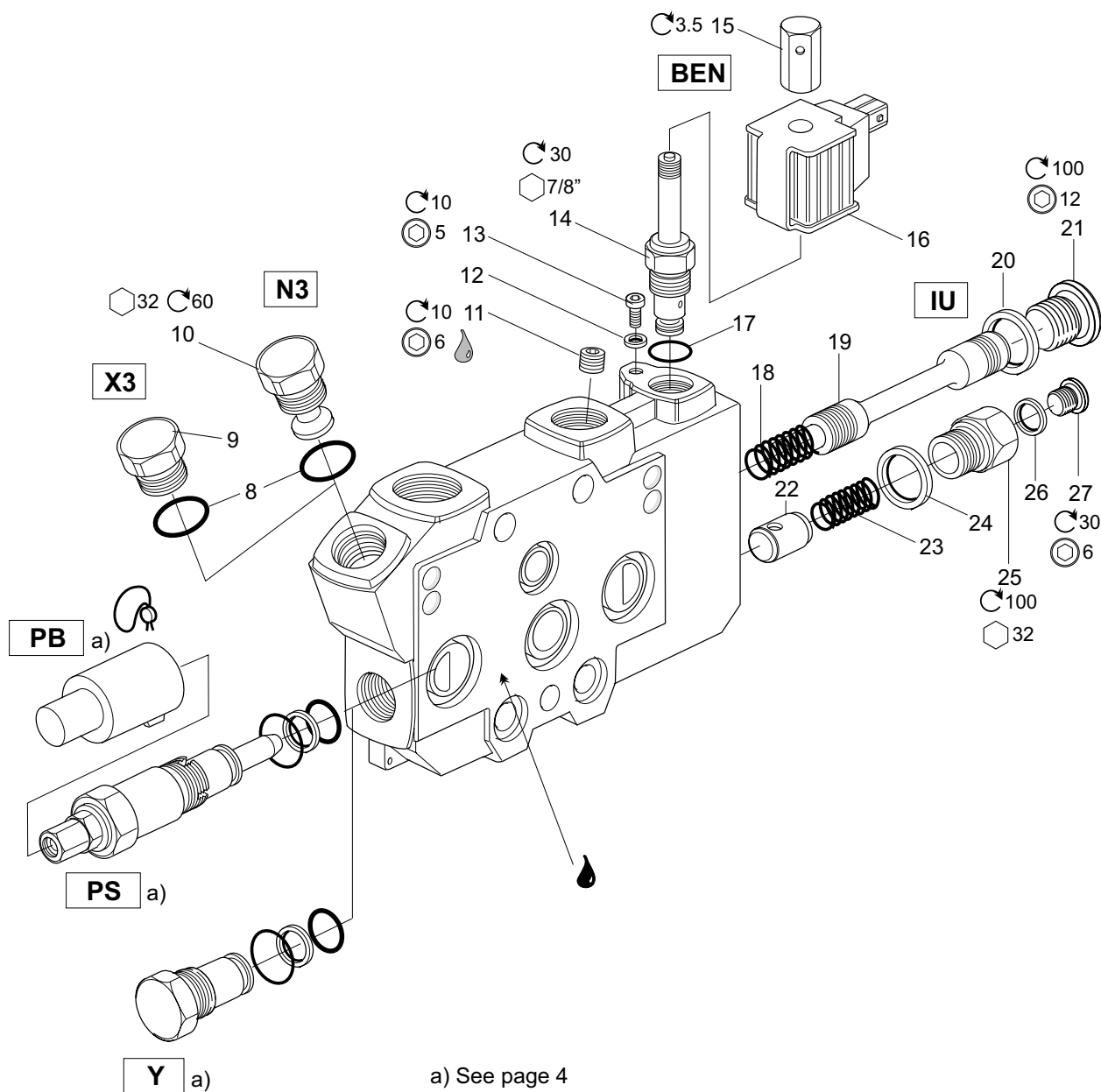
PS, PB, L, B, P1B, P2B, T2B, Y1, CUI, CUI2, LSI



See Customer Specification				
Code	Pos	Part	Description	Remarks / Items
L + G	26 + 04	9121580321	Parallel connection adaptor, BSP	9[3, 4(2x), 5]
L + U	26 + 04	9121580322	Parallel connection adaptor, UNF	9[3, 4(2x), 5]
B + G	26 + 04	301000K029	Blocking adaptor, BSP	7[3, 4, 5], 25
B + U	26 + 04	301000K030	Blocking adaptor, UNF	7[3, 4, 5], 25
LSI + G	25 + 04	9121580323	CP adaptor BSP	7[3, 4, 5]
LSI + U	25 + 04	9121582976	CP adaptor UNF	7[3, 4, 5]
L/LSI/KUI/CUI2/B + G	26 + 04	9120099806	Seal kit, BSP	3, 4(2x), 5
L/LSI/KUI/CUI2/B + U	26 + 04	9120099805	Seal kit, UNF	3, 4(2x), 5
P1B/P2B + G	26, 27 + 04		Plug, VSTI3/4EDCF, BSP	2
P1B/P2B + U	26, 27 + 04		Plug 12 HP5ON-S, UNF	2
T2B + G	25 + 04		Plug, VSTI1EDA3C, BSP	13
T2B + U	25 + 04		Plug 16 HP5ON-S, UNF	13
PS	16	9120099960	Main relief valve, 80 - 125 bar	19[15, 16, 17]
PS	16	9120099961	Main relief valve, 126 - 140 bar	19[15, 16, 17]
PS	16	9120099962	Main relief valve, 141 - 160 bar	19[15, 16, 17]
PS	16	9120099963	Main relief valve, 161 - 210 bar	19[15, 16, 17]
PS	16	9120099964	Main relief valve, 211 - 250 bar	19[15, 16, 17]
PS	16	9120099965	Main relief valve, 251 - 280 bar	19[15, 16, 17]
PS	16	9120099966	Main relief valve, 281 - 320 bar	19[15, 16, 17]
PS	16	9120099967	Main relief valve, 321 - 350 bar	19[15, 16, 17]
PB	16	9120099968	Kit for sealing main relief valve	20
Y	16	9120099901	PS cavity plugged, no relief funct.	18[15, 16, 17]
PS/PB/Y	16	9120099807	Seal kit	15, 16, 17
CUI + G	25 + 04	9121580319	CPU adaptor w. orifice ø 0.8, BSP	6[3, 4, 5]
CUI + U	25 + 04	9121580320	CPU adaptor w. orifice ø 0.8, UNF	6[3, 4, 5]
CUI2 + G	25 + 04	9120099820	CPU adaptor w. orifice ø 1.5, BSP	6[3, 4, 5]
CUI2 + U	25 + 04	9120099821	CPU adaptor w. orifice ø 1.5, UNF	6[3, 4, 5]
CUI/CUI2 + G	25 + 04	9120099804	Seal kit, BSP adaptor	3, 4, 5
CUI/CUI2 + U	25 + 04	9120099803	Seal kit, UNF adaptor	3, 4, 5

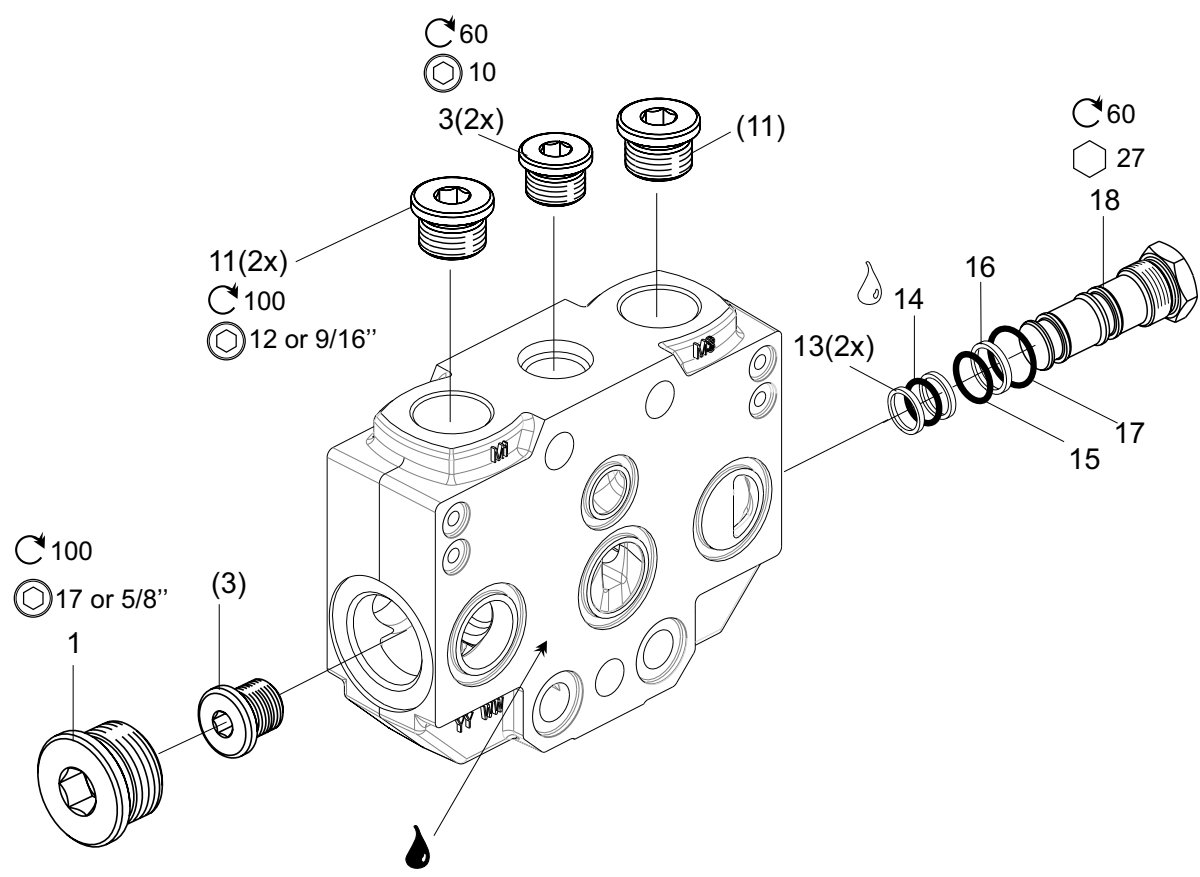
PS, PB, Y1, N3, X3, BEN

Inlet with pump unloading



See Customer Specification				
Code	Pos	Part	Description	Remarks / Items
N3	23	9120199902	Check valve	10[8]
X3	23	9120199903	Plug	9[8]
BEN	22	8231112843	Solenoid valve	14[17, 15]
BEN + 12	22 + 05	6760414	Coil, 12 VDC	16
BEN + 24	22 + 05	6760415	Coil, 24 VDC	16
IU	15	9120199905	Basic kit	11, 12, 13, 18, 20, 21
IU	15	9120199906	Counter pressure valve	22, 23, 24, 25, 26, 27
IU	15	9120199907	Seal kit	8, 12, 20, 24, 26

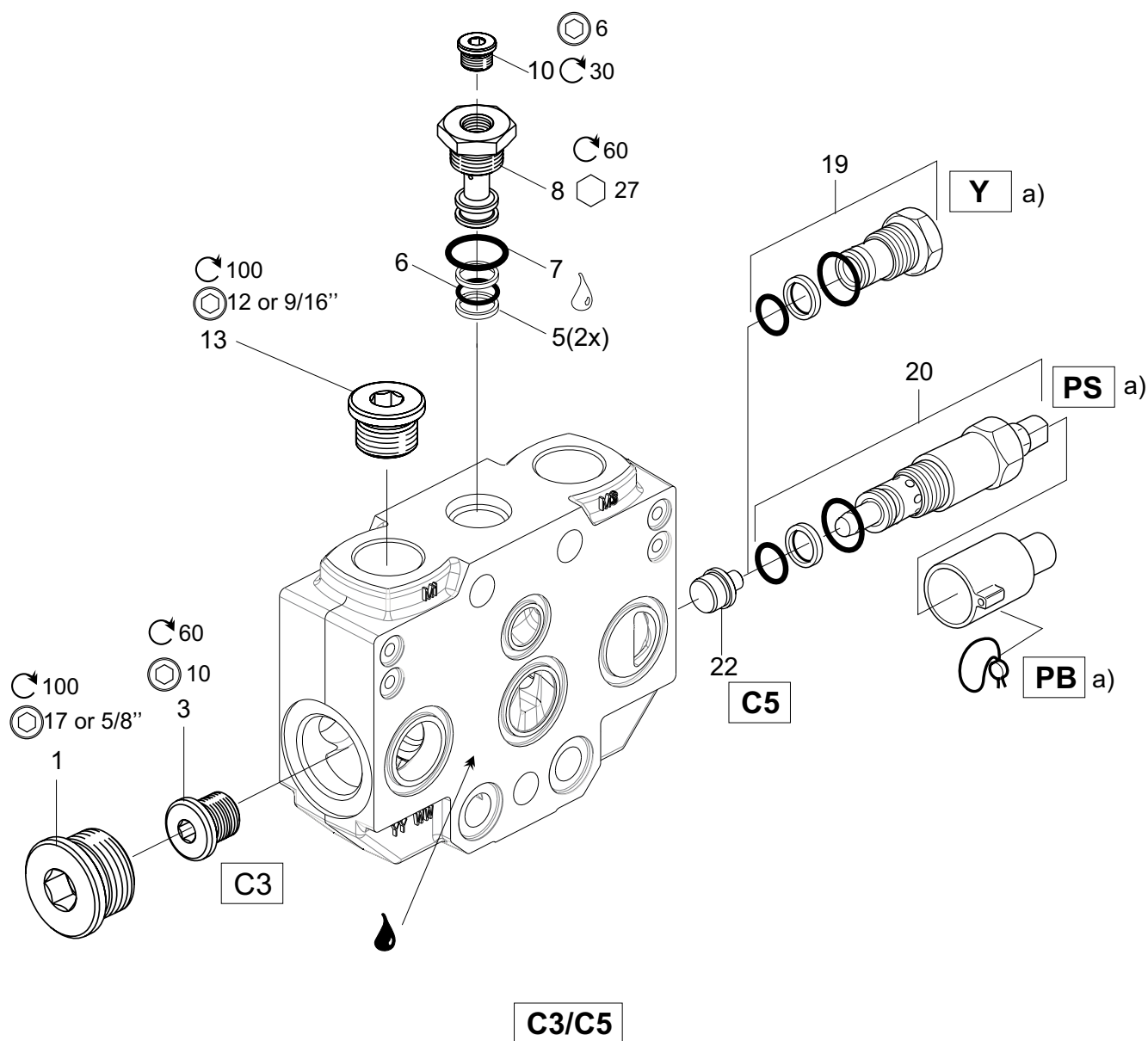
C2



C2

See Customer Specification				
Code	Pos	Part	Description	Remarks / Items
			Plug, VSTI1EDA3C, BSP	1
			Plug 16 HP5ON-S, UNF	1
C2	93	398000K061	Plug	3
			Plug, VSTI3/4EDCF, BSP	11
			Plug 12 HP5ON-S, UNF	11
C2	93	6760412	Plug kit	18[13(2x), 14, 15, 16, 17]
C2	93	301000K831	Seal kit	13(2x), 14, 15, 16, 17

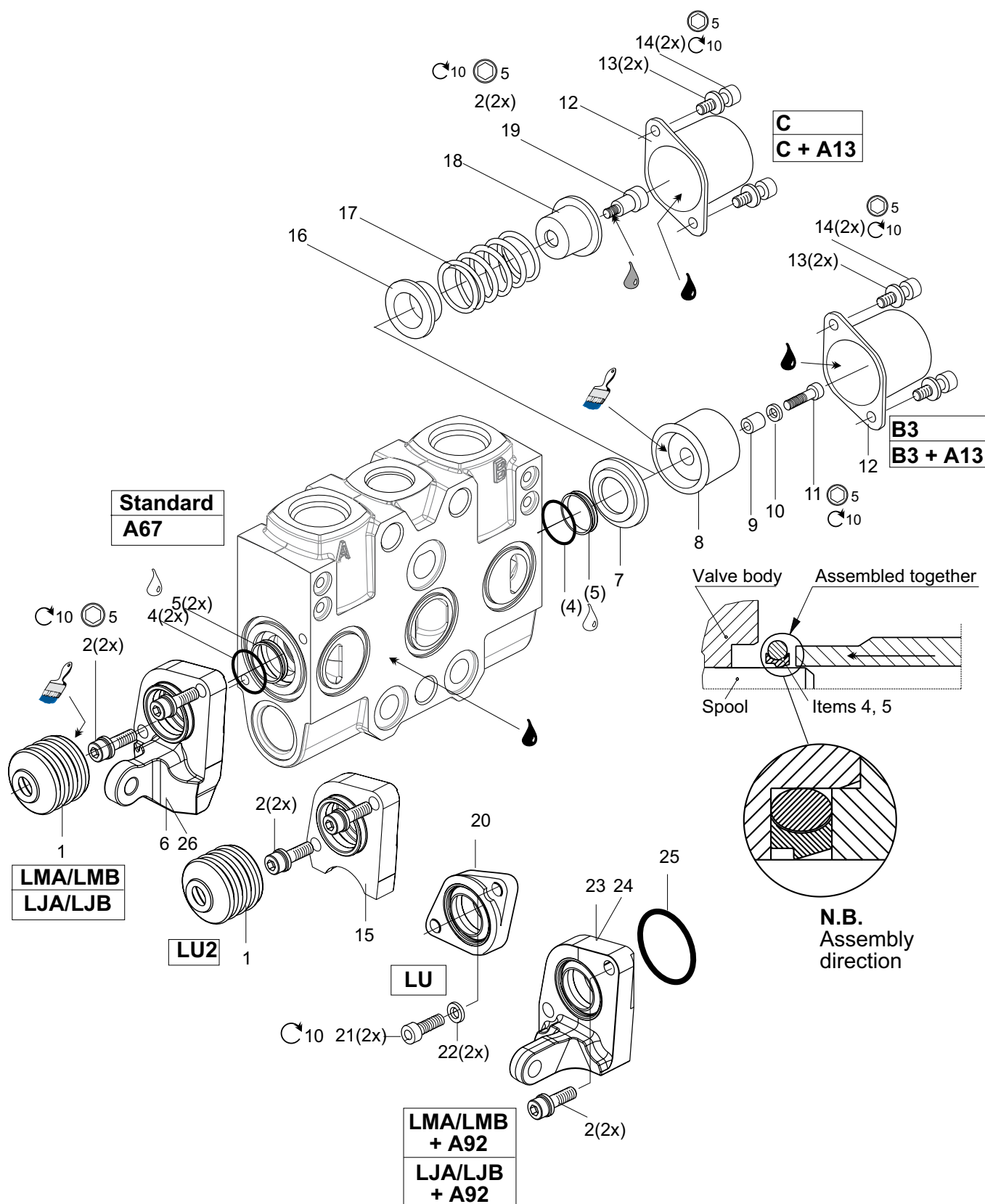
C3, C5, PS, PB, Y



a) See page 4

See Customer Specification				
Code	Pos	Part	Description	Remarks / Items
			Plug, VSTI1EDA3C, BSP	1
			Plug 16 HP5ON-S, UNF	1
			Plug, VSTI3/4EDCF, BSP	13
			Plug 12 HP5ON-S, UNF	13
C3	93	398000K061	Plug	3
C3/C5	93	301000K833	Blocking plug	8[5(2x), 6, 7, 10]
C3/C5	93	301000K835	Seal kit	5(2x), 6, 7
C5	93	6760413	Blocking plug, C5	22
C3	93	301000K804	Conversion kit C3	1, 3, 13, 19
C5	93	301000K807	Conversion kit C5, 80 - 125 bar	8, 20, 22
C5	93	301000K808	Conversion kit C5, 126 - 140 bar	8, 20, 22
C5	93	301000K809	Conversion kit C5, 141 - 160 bar	8, 20, 22
C5	93	301000K810	Conversion kit C5, 161 - 210 bar	8, 20, 22
C5	93	301000K805	Conversion kit C5, 211 - 250 bar	8, 20, 22
C5	93	301000K811	Conversion kit C5, 251 - 280 bar	8, 20, 22
C5	93	301000K812	Conversion kit C5, 281 - 320 bar	8, 20, 22

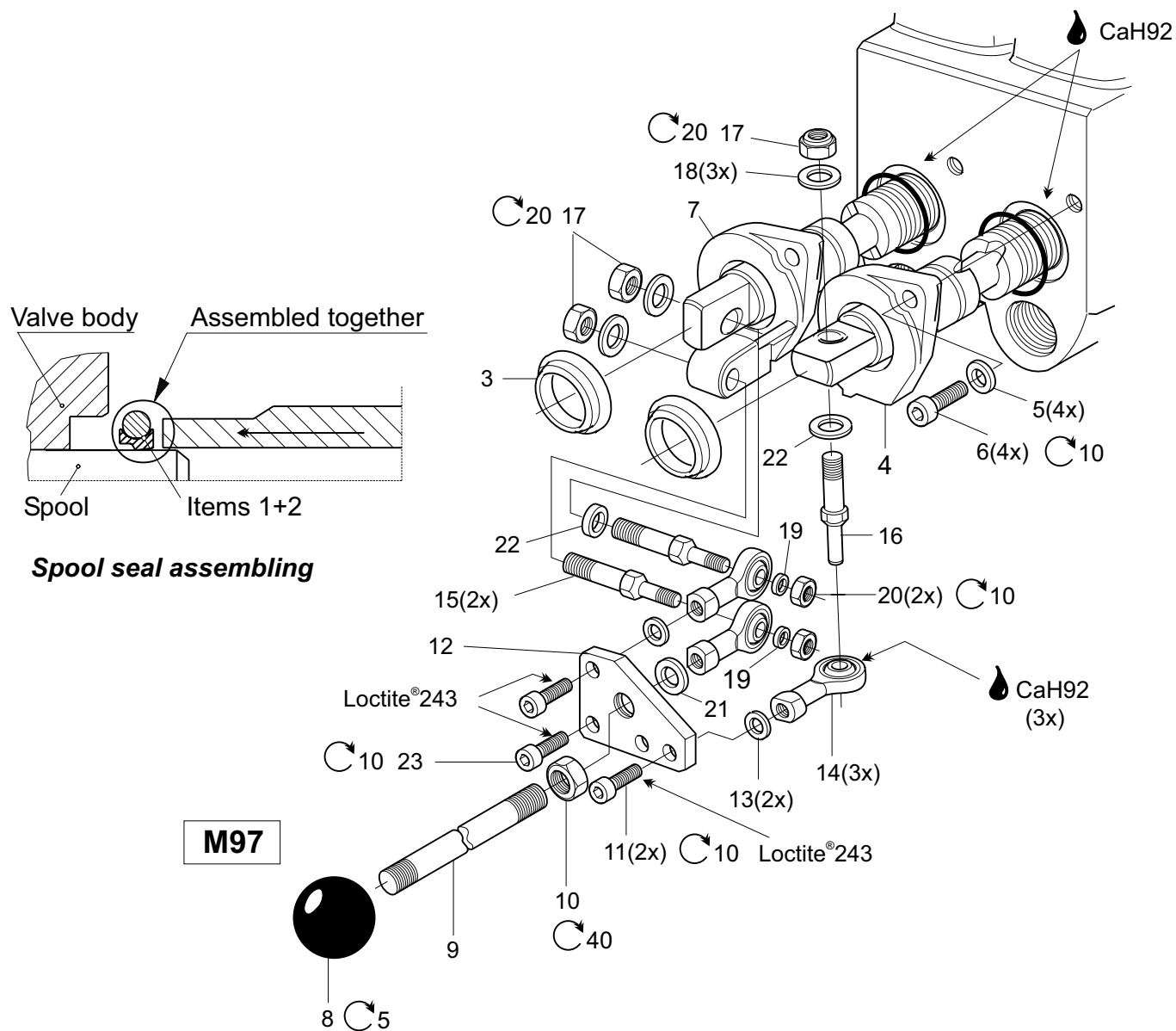
C, B3, LMA, LMB, LJA, LJB, LU, LU2, A13, A67, A92



See Customer Specification				
Code	Pos	Part	Description	Remarks / Items
C/B3	50	91200xxxxx	Cap kit, spool actuator C and B3	12, 13(2x), 14(2x)
C/B3 + A13	50 + 59	6760416	Cap with drainage holes, A13	12, 13(2x), 14(2x)
C	50	9120039012	Spring kit, spool actuator C	16, 17, 18, 19
C + A20	50 + 59	6760417	Spring kit, spool actuator C + A20	16, 17, 18, 19
C + A40	50 + 59	6760418	Spring kit, spool actuator C + A40	16, 17, 18, 19
B3	50	9120039014	Detent kit, B3	8, 9, 10, 11
		3760515	Support washer kit (3 pcs)	7(3x)
		6760543	Support washer kit (50 pcs)	7(50x)
A67	59	301000K863	Spool seal kit, ET, A67 (Extra tight)	4, 5
	–	301000K864	Spool seal kit, std	4, 5
		398000K807	Boot kit	1(6x)
LMA/LMB	51	301000K836	Lever bracket LM	2(2x), 4, 5, 6[1]
LJA/LJB	51	301000K865	Lever bracket LJ	2(2x), 4, 5, 26[1]
LU2	51	301000K837	Lever bracket LU2	1, 2(2x), 4, 5, 15
		398000K807	Bellows kit (6 pcs)	1(6x)
LMA/LMB + A92	51 + 59	6760220	Lever bracket LM in Aluminium with scraper	2(2x), 23, 25
LJA/LJB + A92	51 + 59	6760219	Lever bracket LJ in Aluminium with scraper	2(2x), 24, 25
LU	51	9120099905	Lever bracket LU in Aluminium with scraper	20, 21(2x), 22(2x)
		6760408	Seal kit (5 pcs)	25(5x)

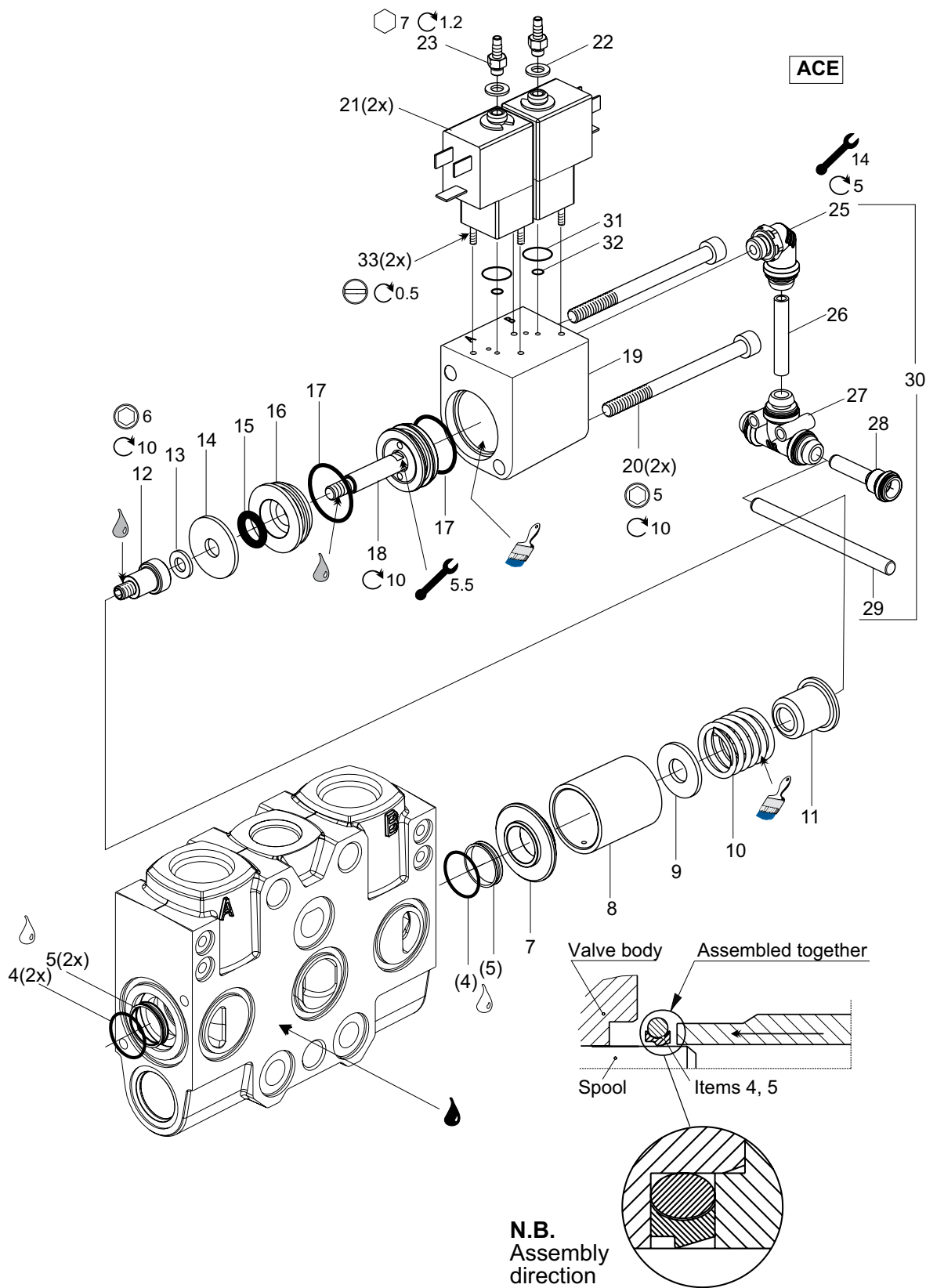
*Non-standard option

M97 Hand lever (Joy stick)



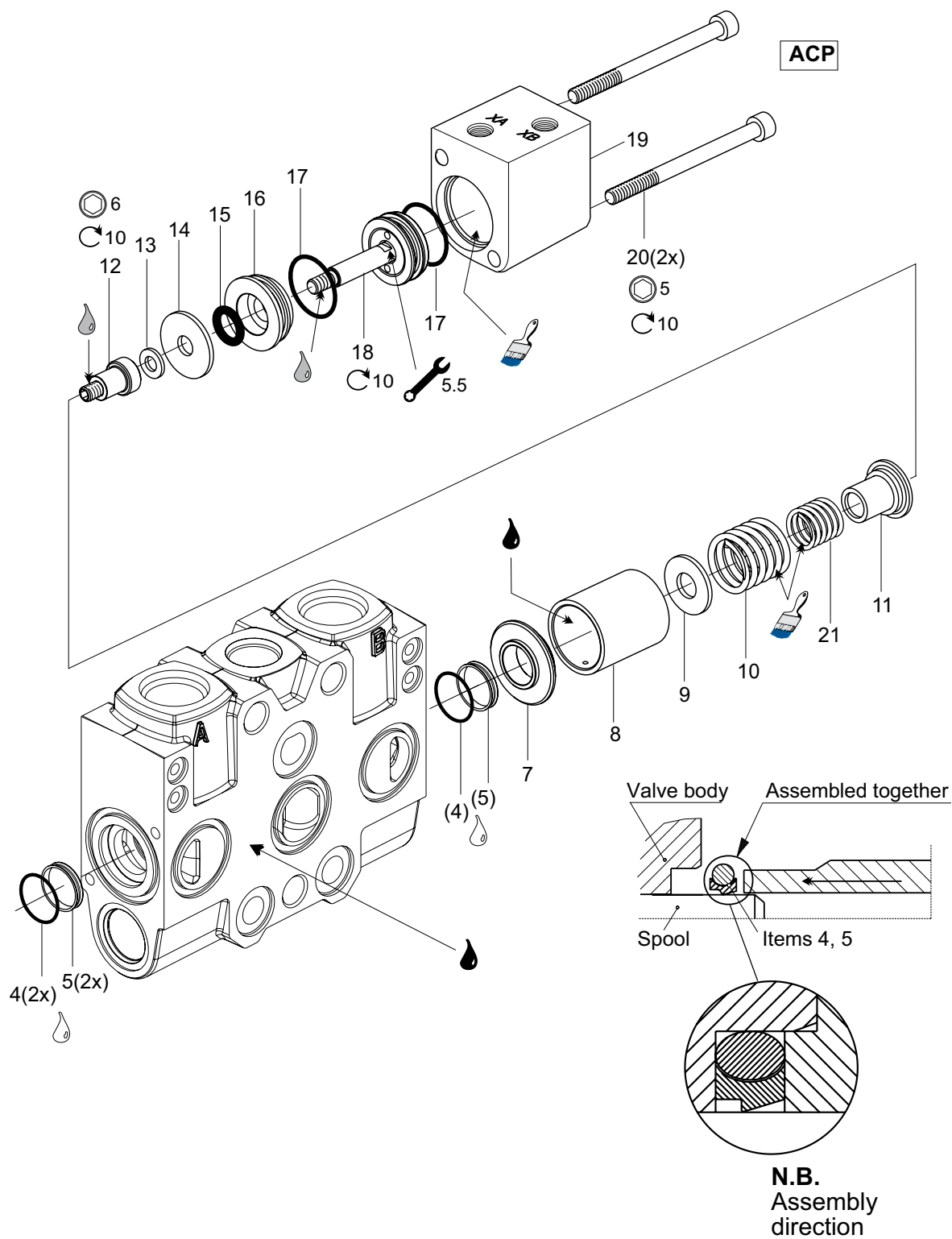
See Customer Specification				
Code	Pos	Part	Description	Remarks / Items
M97	—	301000S277	Hand Lever (Joy stick)	3, 4, 5(4x), 6(4x), 7, 8, 9, 10, 11(2x), 12, 13(2x), 14(3x), 15(2x), 16, 17(3x), 18(3x), 19(2x), 20(2x), 21, 22(2x), 23

ACE



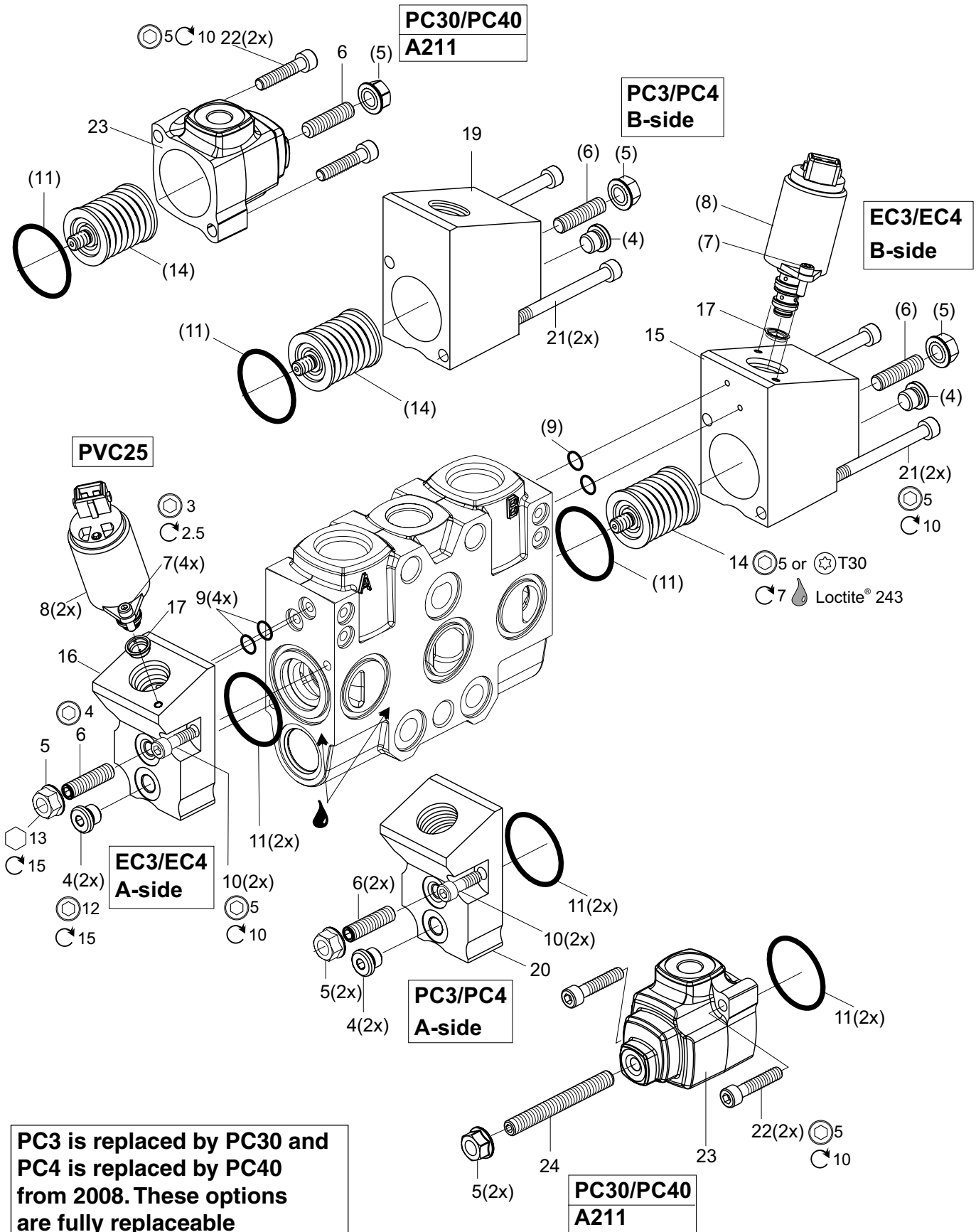
See Customer Specification				
Code	Pos	Part	Description	Remarks / Items
ACE	50	9120039065	Cylinder kit, BSP	15, 16, 17(2x), 18, 19, 20(2x)
ACE	50	9120099911	Spring kit ACE	4(2x), 5(2x), 7, 8, 9, 10, 11, 12, 13, 14
ACE + 12	50 + 05	9123958812	Solenoid valve 12VDC	21, 22, 23
ACE + 24	50 + 05	9123958824	Solenoid valve 24VDC	21, 22, 23
ACE	50	9120099913	Spares kit for solenoid valve	22, 23, 31, 32, 33(2x)
ACE	50	9120099912	Seal kit, ACE	4(2x), 5(2x), 15, 17(2x)
			Connector, inlet	25 (Parker # P6F-BEAA146)
			Tube, ø 6 (L=35 mm)	26 (Parker # P6T-PN06100)
			Connector, intermediate	27 (Parker # P6F-BTS46)
			End plug	28 (Parker # P6F-BVP46)
			Tube ø 6 (L = 89 mm)	29 (Parker # P6T-PN06100)
		6760420	Conector kit for section	30 [25(4x), 26(7x), 27(4x), 28, 29(4x)]

ACP



See Customer Specification				
Code	Pos	Part	Description	Remarks / Items
ACP + G	50 + 04	9120039063	Cylinder kit, BSP	15, 16, 17(2x), 18, 19, 20(2x)
ACP + U	50 + 04	9120039064	Cylinder kit, UNF	15, 16, 17(2x), 18, 19, 20(2x)
ACP	50	9120099914	Spring kit ACP	4(2x), 5(2x), 7, 8, 9, 10, 11, 12, 13, 14, 21
ACP	50	9120099912	Seal kit, ACP	4(2x), 5(2x), 15, 17(2x)

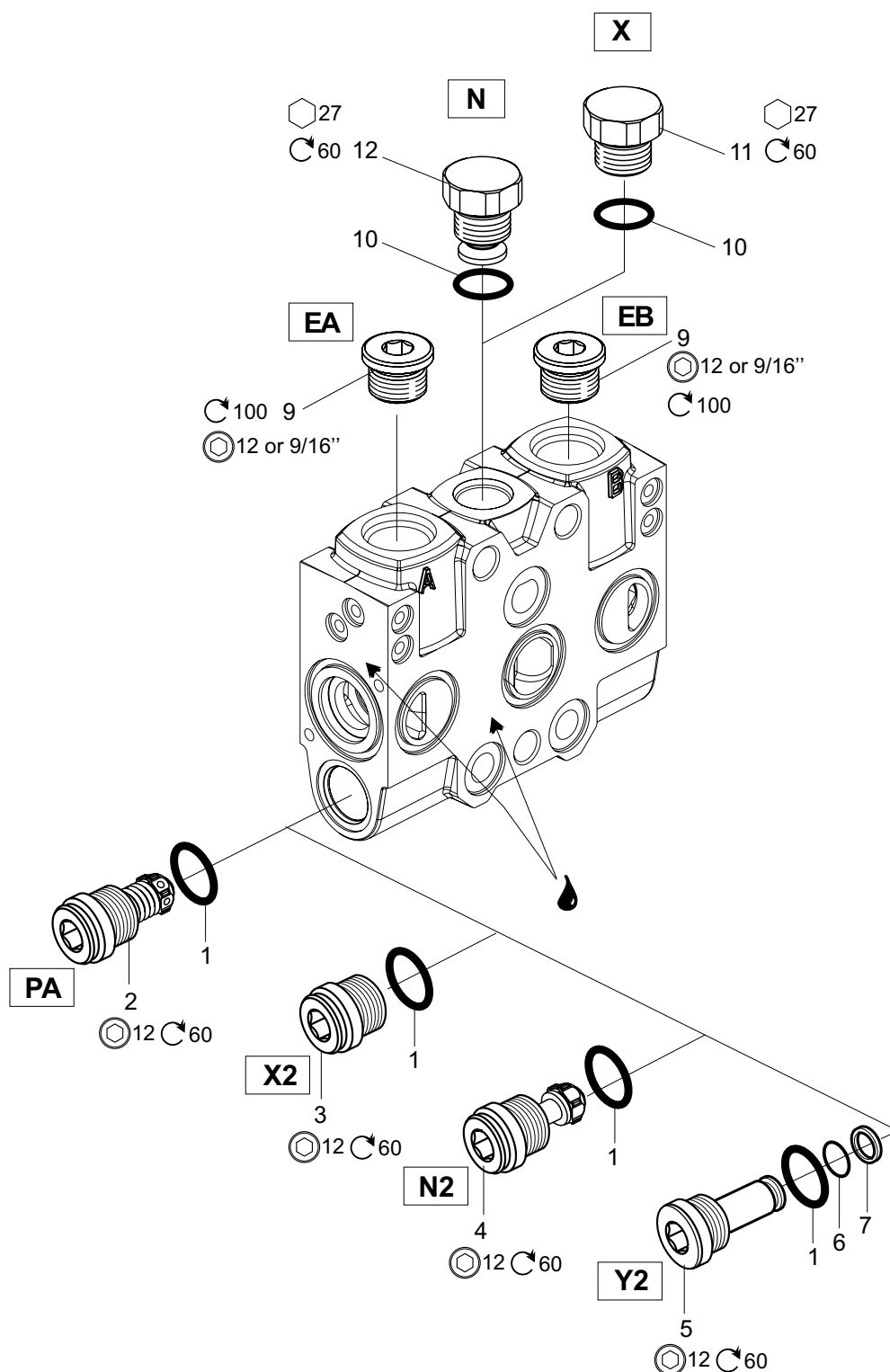
PC30, PC40, PC3, PC4, EC3, EC4



**PC3 is replaced by PC30 and
 PC4 is replaced by PC40
 from 2008. These options
 are fully replaceable**

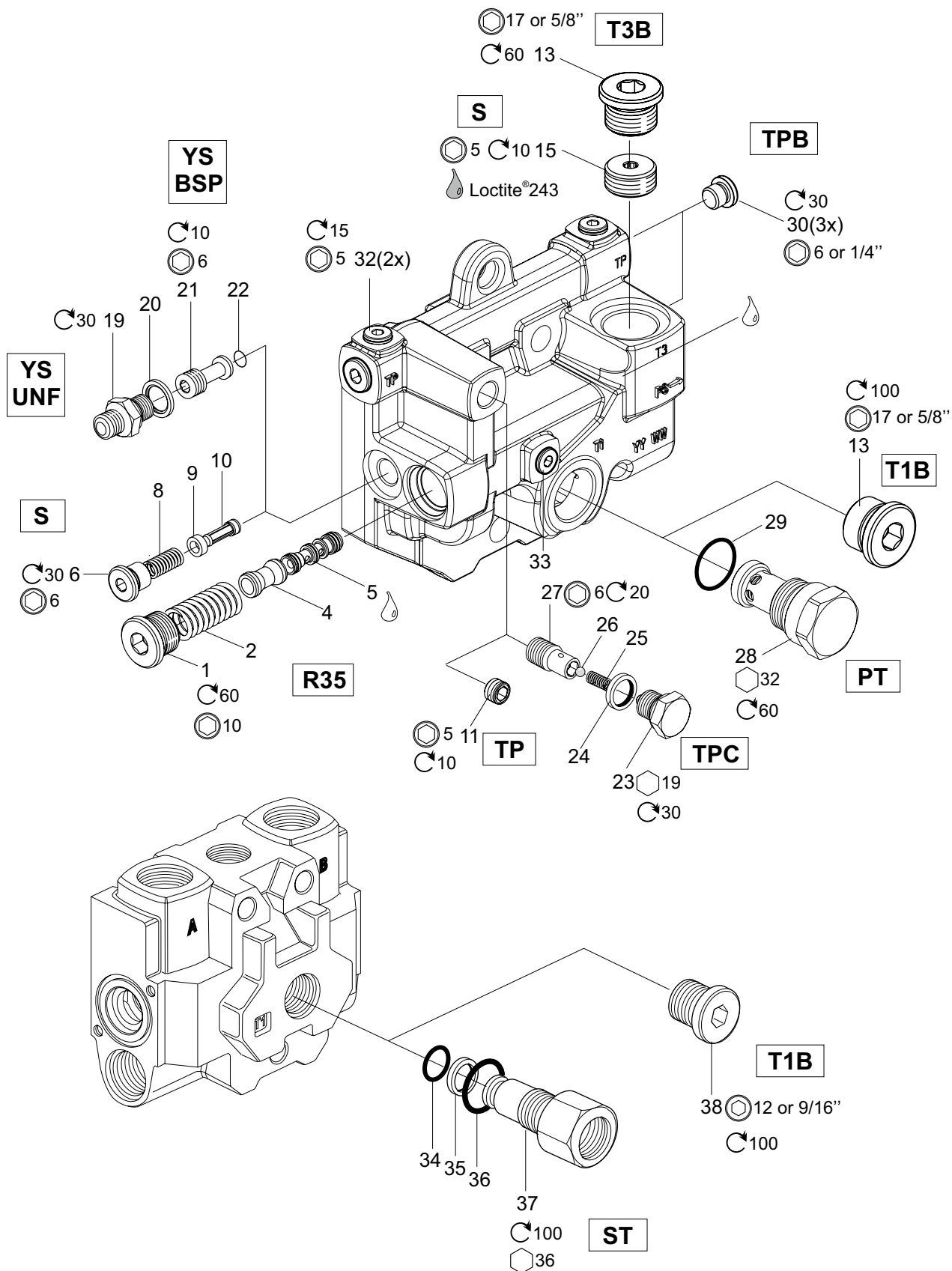
See Customer Specification				
Code	Pos	Part	Description	Remarks / Items
PC3/PC4	50 + 04	301000K838	Cap kit PC, A-side, BSP	4, 5, 6, 10(2x), 11, 20
PC3/PC4	50 + 04	301000K839	Cap kit PC, A-side, UNF	4, 5, 6, 10(2x), 11, 20
PC3/PC4	50 + 04	301000K840	Cap kit PC, B-side, BSP	4, 5, 6, 21(2x), 11, 19
PC3/PC4	50 + 04	301000K841	Cap kit PC4, B-side, UNF	4, 5, 6, 21(2x), 11, 19
PC3/PC4/ PC30/PC40 + G	50 + 04	301000K852	Seal kit PC, BSP	4(2x), 5(2x), 11(2x)
PC3/PC4/ PC30/PC40 + U	50 + 04	301000K854	Seal kit PC, UNF	4(2x), 5(2x), 11(2x)
EC3/EC4 + G	50 + 04	301000K842	Cap kit EC, A-side, BSP	4, 5, 6, 9(2x), 10(2x), 11, 16
EC3/EC4 + U	50 + 04	301000K820	Cap kit EC, A-side, UNF	4, 5, 6, 9(2x), 10(2x), 11, 16
EC3/EC4 + G	50 + 04	301000K823	Cap kit EC, B-side, BSP	4, 5, 6, 9(2x), 21(2x), 11, 15
EC3/EC4 + U	50 + 04	301000K821	Cap kit EC, B-side, UNF	4, 5, 6, 9(2x), 21(2x), 11, 15
EC + G	50 + 04	301000K843	Seal kit EC, BSP	4(2x), 5(2x), 9(4x), 11(2x)
EC + U	50 + 04	301000K822	Seal kit EC, UNF	4(2x), 5(2x), 9(4x), 11(2x)
EC3/PC3/PC30	50	301000K844	Spring pack 5 - 15 bar	14
EC4/PC4/PC40	50	301000K845	Spring pack 7 - 25 bar	14
EC + 12	56 + 05	393000M012	Solenoid valve, PVC25 12 VDC	7(2x), 8, 17(ø 3mm) With man. override, air-bleed
EC + 24	56 + 05	393000M024	Solenoid valve, PVC25 24 VDC	7(2x), 8, 17(ø 3mm) With man. override, air-bleed
EC + 12	56 + 05	393000D012	Solenoid valve, PVC25 12 VDC	7(2x), 8, 17(ø 3mm) With Deutsch connector
EC + 24	56 + 05	393000D024	Solenoid valve, PVC25 24 VDC	7(2x), 8, 17(ø 3mm) With Deutsch connector
EC + 12	56 + 05	393000N012	Solenoid valve, PVC25 12 VDC	7(2x), 8, 17(ø 3mm) Without man. overr. no air-bl.
EC + 24	56 + 05	393000N024	Solenoid valve, PVC25 24 VDC	7(2x), 8, 17(ø 3mm) Without man. overr. no air-bl.
O	55A, 55B	6760086	Pilot restriction "O", ø 1.2 mm	17 without damping (5 dots) 5 pcs in kit
N	55A, 55B	6760083	Pilot restriction "N", ø 0.9 mm	17 Normal damping (10 dots) 5 pcs in kit
H	55A, 55B	6760080	Pilot restriction "H", ø 0.6 mm	17 Hard damping (1 dot) 5 pcs in kit
PC30/PC40	50 + 04	6760397	Cap kit PC30/40 A or B side, BSP	11, 22(2x), 23
PC30/PC40	50 + 04	6760398	Cap kit PC30/40 A or B side, UNF	11, 22(2x), 23
PC30/PC40 + A211	50 + 04 + 59	6760398	Cap kit PC30/40 A or B side, BSP with spool stroke limiter	5, 6, 11, 22(2x), 23, 24
PC30/PC40 + A211	50 + 04 + 59	6760400	Cap kit PC30/40 A or B side, UNF with spool stroke limiter	5, 6, 11, 22(2x), 23, 24

EA, EB, N, X, PA, X2, N2, Y2



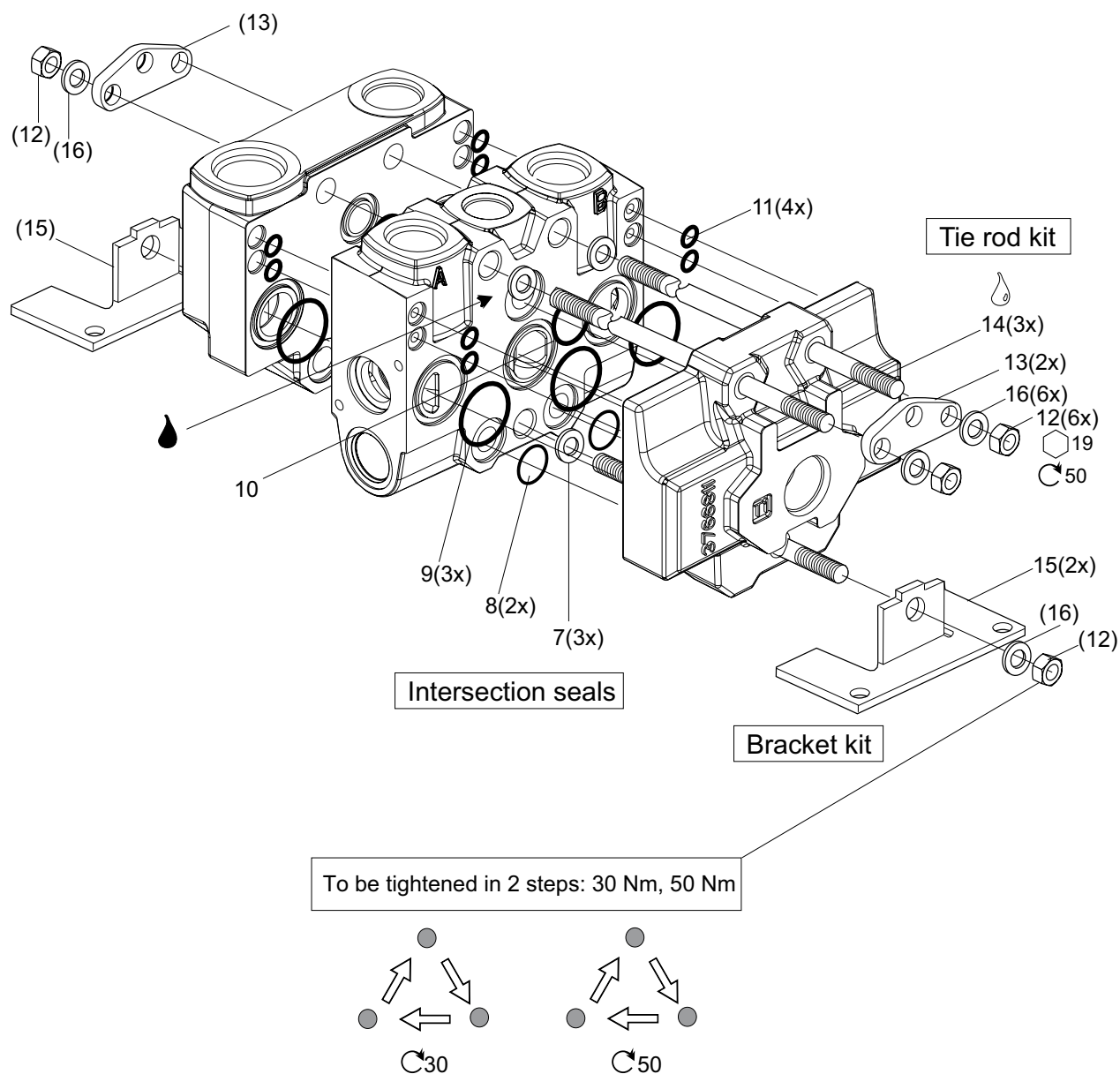
See Customer Specification				
Code	Pos	Part	Description	Remarks / Items
25 (PA)	76A, 76B	9120029101	PLC082-025-20 Port relief valve	2[1]
32 (PA)	76A, 76B	9120029102	PLC082-032-20 Port relief valve	2[1]
40 (PA)	76A, 76B	9120029103	PLC082-040-20 Port relief valve	2[1]
50 (PA)	76A, 76B	9120029104	PLC082-050-20 Port relief valve	2[1]
63 (PA)	76A, 76B	9120029105	PLC082-063-20 Port relief valve	2[1]
80 (PA)	76A, 76B	9120029106	PLC082-080-20 Port relief valve	2[1]
100 (PA)	76A, 76B	9120029107	PLC082-100-20 Port relief valve	2[1]
125 (PA)	76A, 76B	9120029108	PLC082-125-20 Port relief valve	2[1]
140 (PA)	76A, 76B	9120029109	PLC082-140-20 Port relief valve	2[1]
160 (PA)	76A, 76B	9120029110	PLC082-160-20 Port relief valve	2[1]
175 (PA)	76A, 76B	9120029111	PLC082-175-20 Port relief valve	2[1]
190 (PA)	76A, 76B	9120029112	PLC082-190-20 Port relief valve	2[1]
210 (PA)	76A, 76B	9120029113	PLC082-210-20 Port relief valve	2[1]
215 (PA)	76A, 76B	9120029127	PLC082-215-20 Port relief valve	2[1]
220 (PA)	76A, 76B	9120029130	PLC082-220-20 Port relief valve	2[1]
225 (PA)	76A, 76B	9120029125	PLC082-225-20 Port relief valve	2[1]
230 (PA)	76A, 76B	9120029114	PLC082-230-20 Port relief valve	2[1]
240 (PA)	76A, 76B	9120029148	PLC082-240-20 Port relief valve	2[1]
250 (PA)	76A, 76B	9120029115	PLC082-250-20 Port relief valve	2[1]
265 (PA)	76A, 76B	9120029123	PLC082-265-20 Port relief valve	2[1]
270 (PA)	76A, 76B	9120029124	PLC082-270-20 Port relief valve	2[1]
280 (PA)	76A, 76B	9120029116	PLC082-280-20 Port relief valve	2[1]
290 (PA)	76A, 76B	9120029149	PLC082-290-20 Port relief valve	2[1]
300 (PA)	76A, 76B	9120029117	PLC082-300-20 Port relief valve	1, 2 (Be used to sections in nodular iron only)
330 (PA)	76A, 76B	9120029118	PLC082-330-20 Port relief valve	1, 2 (Be used to sections in nodular iron only)
350 (PA)	76A, 76B	9120029119	PLC082-350-20 Port relief valve	1, 2 (Be used to sections in nodular iron only)
X2	76A, 76B	9120099682	Plug X (Port relief cavity plugged)	3[1]
N2	76A, 76B	9120099686	Check valve in port relief cavity	4[1]
		6760193	Seal kit PA, X2, N2 (5pcs)	1(5x)
Y2	76A, 76B	9121580389	Plug in port relief cavity	5[1, 6, 7]
Y2	76A, 76B	9120099826	Seal kit Y2	1, 6, 7
N	66	9120099611	Load holding check valve	12[10]
X	66	9120099930	Cavity plugged	11[10]
EA/EB + G	60 + 04		Plug, VSTI3/4EDCF, BSP	9
EA/EB + U	60 + 04		Plug 12 HP5ON-S, UNF	9

USP, R35, S, ST, YS, T3B, T1B, TPB, TB, TPC, PT



See Customer Specification				
Code	Pos	Part	Description	Remarks / Items
R35	37	301000K853	Pilot pressure reducer, 35 bar	1, 2, 3, 4, 5, 33
S	39	398000K054	Strainer in pilot circuit	6, 8, 9, 10
YS + G	39 + 04	398000K055	Connection for external strainer, BSP	21, 22
YS + U	39 + 04	393000K076	Connection UNF	19(20 incl.)
T3B + G	34 + 04		Plug, VSTI3/4EDCF, BSP	13
T3B + U	34 + 04		Plug 12 HP5ON-S, UNF	13
S	36	301000K855	Plug, series connection	15 (BSP - threaded, used on all)
ST + G	33 + 04	9121580343	Series connection adaptor, BSP	34, 35, 36, 37
ST + U	33 + 04	9121582919	Series connection adaptor, UNF	34, 35, 36, 37
ST + G	33 + 04	9120099806	Seal kit ST, BSP	34, 35, 36
ST + U	33 + 04	9120099805	Seal kit ST, UNF	34, 35, 36
TPB + G	40		VSTI1/4EDA3C TP connection plugged, BSP	30 (At use of internal pilot tank)
TPB + U	40		6HP5ON-S TP connection plugged, UNF	30
TP	40	398000K075	Connection for separate pilot tank	11
T1B + G	33 + 04		Plug, VSTI3/4EDCF, BSP	13
T1B + U	33 + 04		Plug 12 HP5ON-S, UNF	13
TPC + G	40	301000K857	TP connection plugged, BSP	23, 24, 25, 26, 27 (TPB, with built-in checkvalve)
PT + G	33 + 04	301000K858	Counter pressure valve, BSP	28, 29
PT + U	33 + 04	301000K859	Counter pressure valve, UNF	28, 29
			VSTI1/8EDA3C Plug BSP	32

US, MUS, ST, T1B, Tie-rods, Bracket, Intersection seals



See Customer Specification				
Code	Pos	Part	Description	Remarks / Items
Brackets		301000K866	Bracket kit	12(6x), 13(2x), 15(2x), 16(6x)
Tie-rods		9120199921	Tie-rod kit, valve 1 spool section	14(3x), 12(6x), 16(6x)
Tie-rods		9120199922	Tie-rod kit, valve 2 spool sections	14(3x), 12(6x), 16(6x)
Tie-rods		9120199923	Tie-rod kit, valve 3 spool sections	14(3x), 12(6x), 16(6x)
Tie-rods		9120199924	Tie-rod kit, valve 4 spool sections	14(3x), 12(6x), 16(6x)
Tie-rods		9120199925	Tie-rod kit, valve 5 spool sections	14(3x), 12(6x), 16(6x)
Tie-rods		9120199926	Tie-rod kit, valve 6 spool sections	14(3x), 12(6x), 16(6x)
Tie-rods		9120199927	Tie-rod kit, valve 7 spool sections	14(3x), 12(6x), 16(6x)
Tie-rods		9120199928	Tie-rod kit, valve 8 spool sections	14(3x), 12(6x), 16(6x)
Tie-rods		3760532	Tie-rod kit, valve 9 spool sections	14(3x), 12(6x), 16(6x)
Tie-rods		3760533	Tie-rod kit, valve 10 spool sections	14(3x), 12(6x), 16(6x)
Tie-rods		9120199931	Tie-rod kit, valve 11 spool sections	14(3x), 12(6x), 16(6x)
Tie-rods		9120199932	Tie-rod kit, valve 12 spool sections	14(3x), 12(6x), 16(6x)
Standard		301000K851	Intersection seals NBR (Nitrile)	7(3x), 8(2x), 9(3x), 10, 11(4x)
A30	29/40	301000K850	Intersection seals FPM (Viton®)	7(3x), 8(2x), 9(3x), 10, 11(4x)

Symbol	Description
	For optimum function, the radial play between spool and spool bore must be correct. Spools are therefore colour-coded to identify sizes. We recommend that the whole valve/section is changed if the spool has to be replaced (valve housings cannot be purchased as spares, so if a new one is required a new valve or complete section should be ordered). If the spool has to be changed, it is extremely important that the new spool is the right size. If the spool is too large, it will not work properly even if it appears to function perfectly on assembly, and if the spool is too small, function will also be adversely affected. Spools that are classified by size are marked in the list with . The colour-marking of the spool may disappear after a time, so, unless otherwise stated, the housing is marked with a letter to indicate the respective colour as follows: B for Blue, G for Green, R for Red.
	Changing the settings, replacing the preset pressure relief valve or breaking the seal must only be done in accordance with the manufacturer's instructions. Other settings may seriously damage the machine and other assets, and may cause personal injury. Note that a value contained in the customer specification manual does not apply if the manufacturer changed the settings at installation. Always contact the manufacturer's service organisation before servicing items marked with .

[illegible]

[illegible]

[illegible]

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