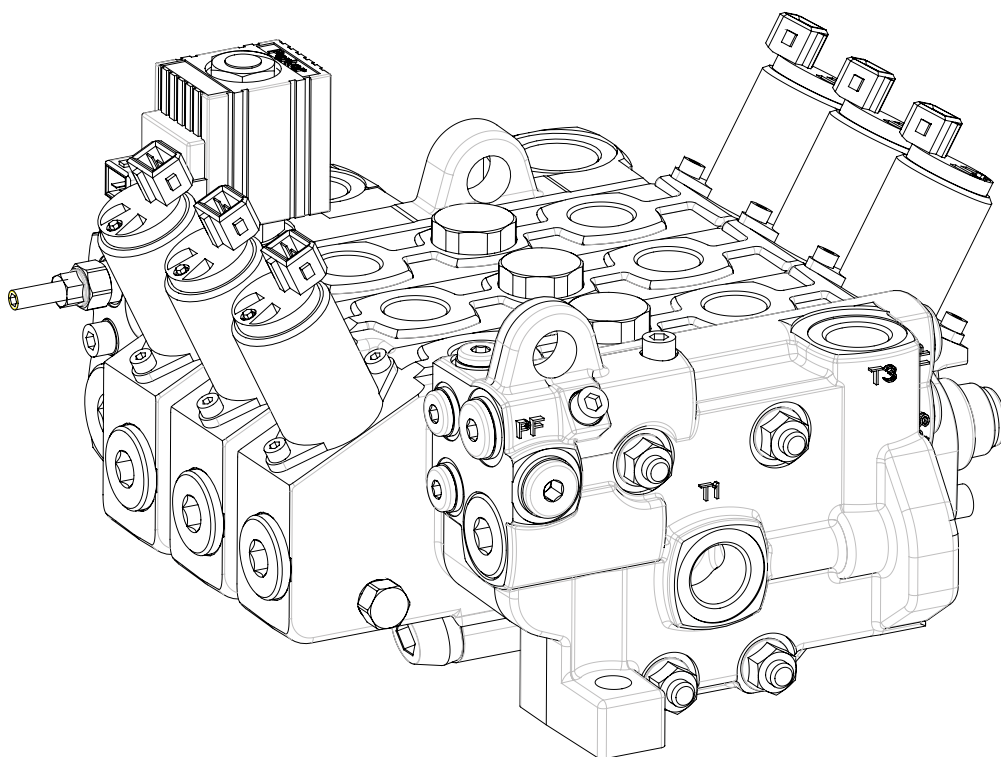




Bulletin HY17-8810-M1/UK

Spare Parts List Series P70, Gen. 1

Effective date: January 15, 2014
Supersedes: January 30, 2013



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.

A little technical index. Example.

- 1 = Item pos. no. 1.
 1(2x) = Item pos. no. 1 consists of 2 pieces in the kit.
 1 [2] = Item pos. no. 2 already mounted on the item pos. no. 1 at delivery.
 1 [2](2x) = Item pos. no. 1 (see above) consists of 2 pieces in the kit.

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...
			= Spool classified by size



WARNING – USER RESPONSIBILITY

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS 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 catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.

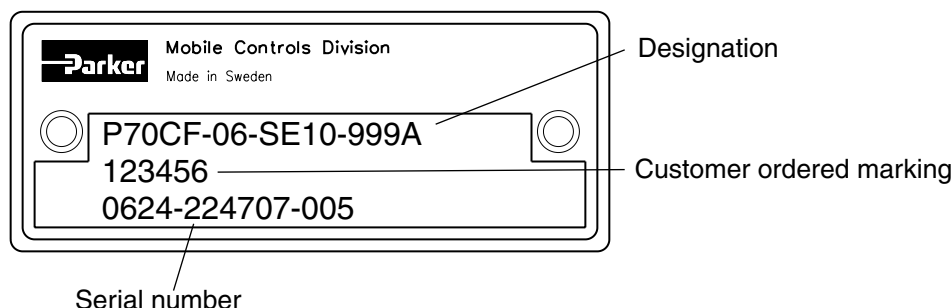
To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably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

Offer of Sale

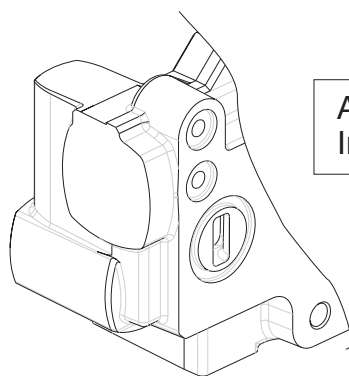
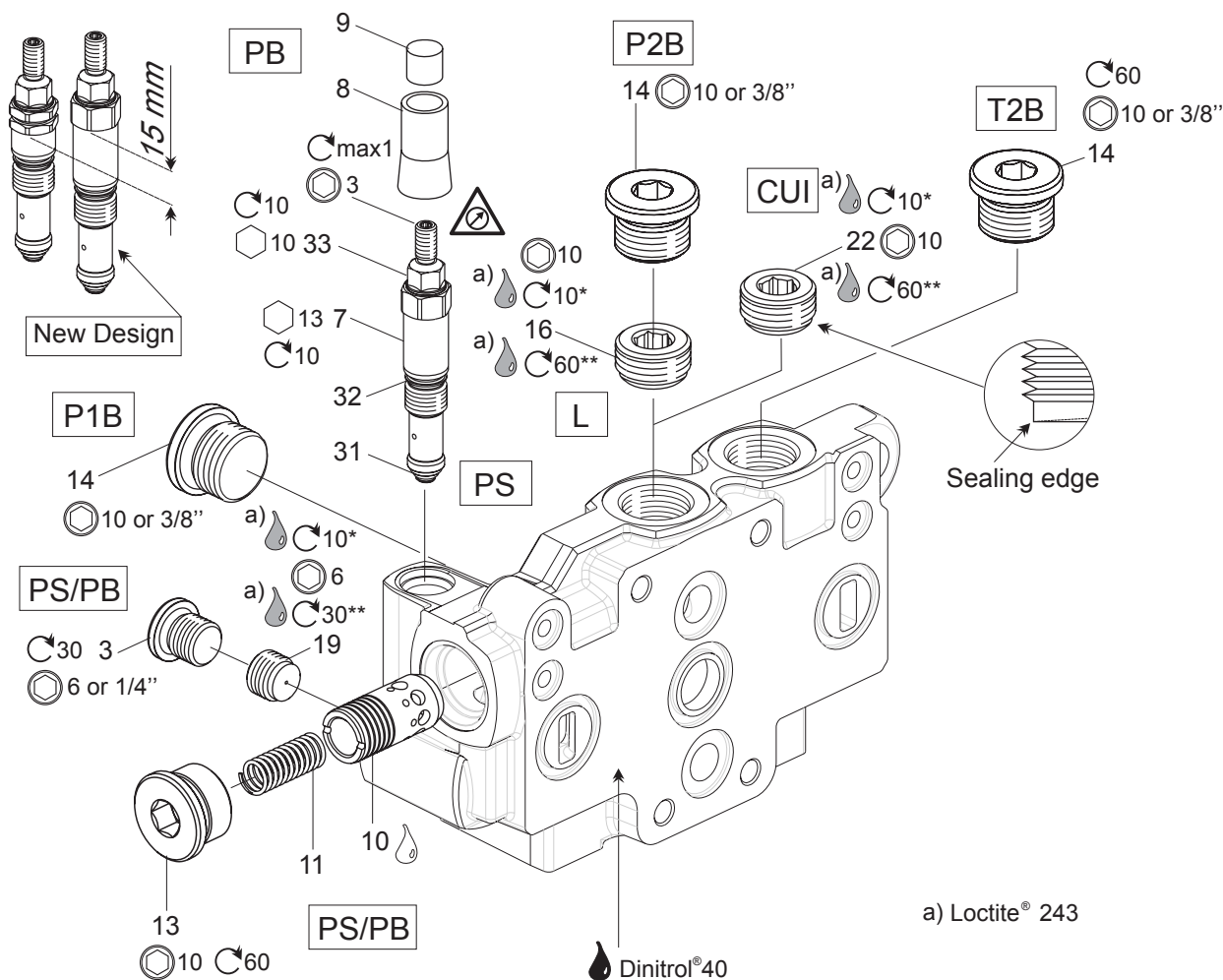
Please contact your Parker representation for a detailed "Offer of Sale".

Contents

List of contents	Page
Inlet Options	
Inlet I PB, PS, P1B, P2B, L, T2B, CUI, G, U	4
Inlet IS, IU, PB, PS, BX, BEN, T2B, G, U	6
Mid - Inlet, PB, PS, C3, C5, C6, Y	8
Spool Actuators	
Open spool end, A-side: LMA, LMB, , LU, CB	10
Open spool end, A-side: MJA, MJB	12
Open spool end, B-side: C, C140, B2C, CB, SI, TPOL	14
Open spool end, B-side: ACE, 12, 24	16
Open spool end, B-side: ACP	18
Closed spool end, A- and B-side: PC, FPC	20
Closed spool end, A- and B-side: CI, PCI, EC, ECS, ECH, SI.....	22
Basic Functions	
Spool section: N, PA, N2, X2, Y2, EA, EB	24
Outlet Options	
Outlet US: S, ST, P3B, T1B, T3B, LD, Tie rods	26
Outlet USP: S, YS, R35, TP, TPB, TPC, PT, PT8, LD, T1B, T3B...	28
Appendix A: Warnings.....	30



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

Inlet I PB, PS, P1B, P2B, L, T2B, CUI, G, U

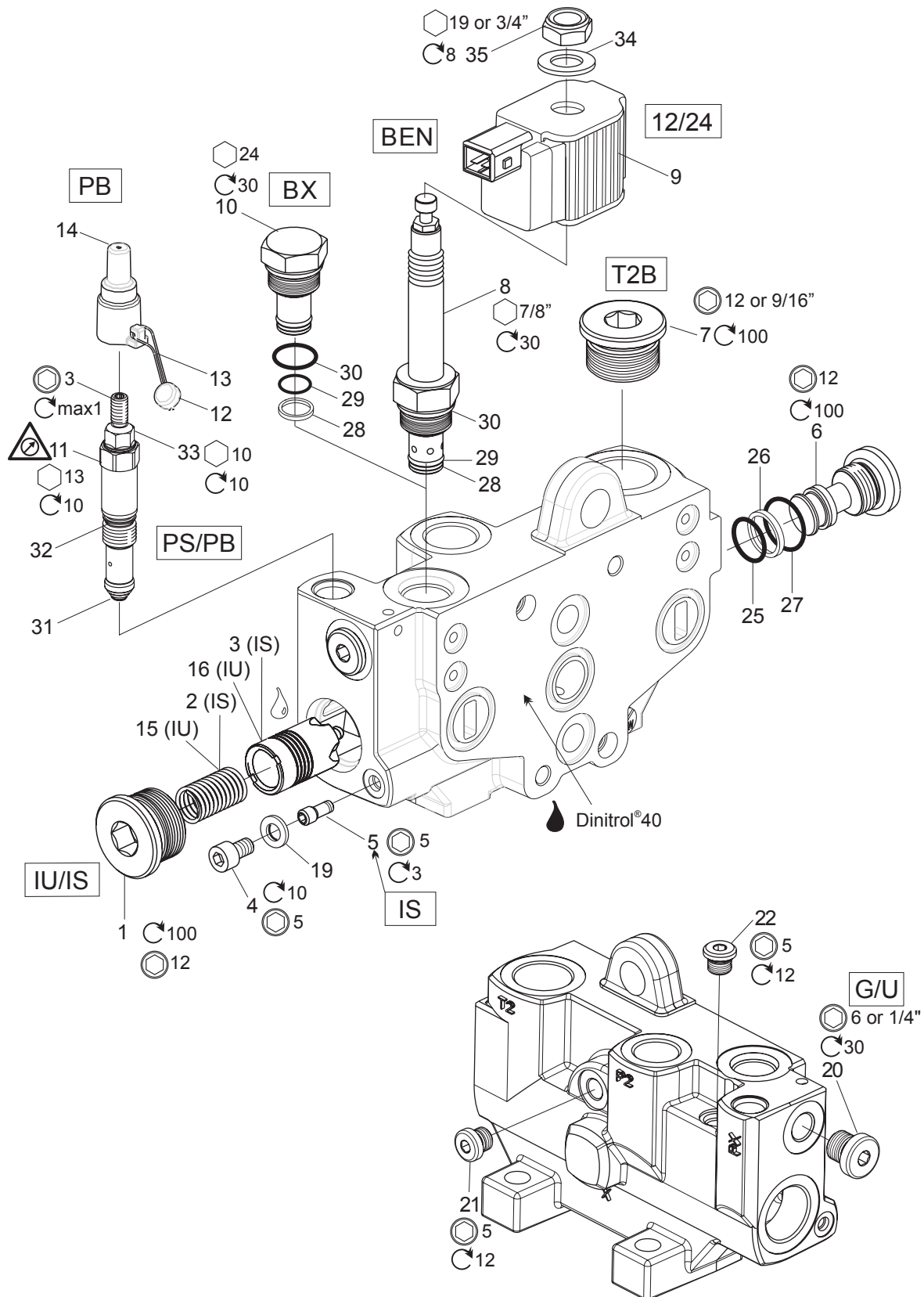
L, CUI, PS/PB, Items 16, 22, 19, * Torque for inlets with serial # < 0517xxxxxxx

L, CUI, PS/PB, Items 16, 22, 19 ** Torque for inlets with serial # > 0517xxxxxxx

There's only one design of plugs, but cavities in new design inlet differ from inlet in old design.

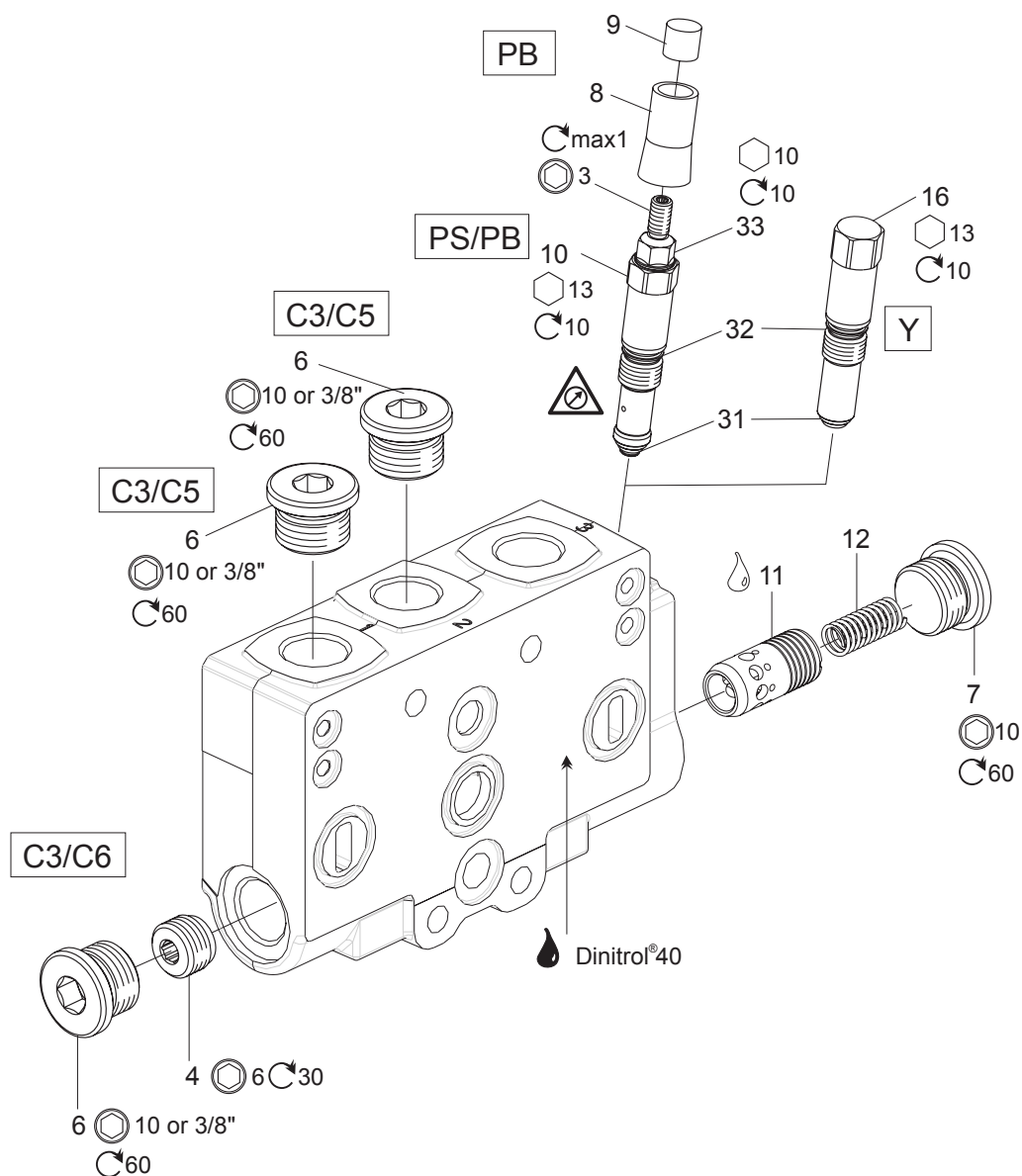
Inlet Options

See Customer Specification				
Code	Pos	Part	Description	Remarks / Items
PS, PB	16	398000K042	Main stage	10, 11, 13
PS, PB	16	398000K069	Pilot part, main relief valve PLD03	7 [31, 32, 33]
PS, PB	16	393000K831	Seal kit pilot part, main relief	31, 32, 33
PS, PB	16	-	Plug VST11/2EDCF	13
PB	16	393000K852	Sealing set	8, 9
PS, PB + G	16 + 04	-	Plug VST11/4EDCF	3
PS, PB + U	16 + 04	-	Plug 6HP5ON-S	3
PS, PB + G	16 + 04	6760004	Orifice kit Ø0.9 mm, BSP	19 (5x)
PS, PB + U	16 + 04	6760005	Orifice kit Ø0.9 mm, UNF	19 (5x)
P1B, P2B, T2B + G	25, 26, 27 + 04	-	Plug VST11/2EDCF	14
P1B, P2B, T2B + U	25, 26, 27 + 04	-	Plug 10HP5ON-S	14
L + G	27 + 04	398000K047	Plug (parallel connection) BSP	16
L + U	27 + 04	398000K185	Plug (parallel connection) UNF	16
CUI + G	27 + 04	398000K226	Orifice Ø1.0 mm (unloaded const. press.), BSP	22
CUI + U	27 + 04	398000K227	Orifice Ø1.0 mm (unloaded const. press.), UNF	22

Inlet IS, IU, PB, PS, BX, BEN, T2B, G, U

Inlet Options

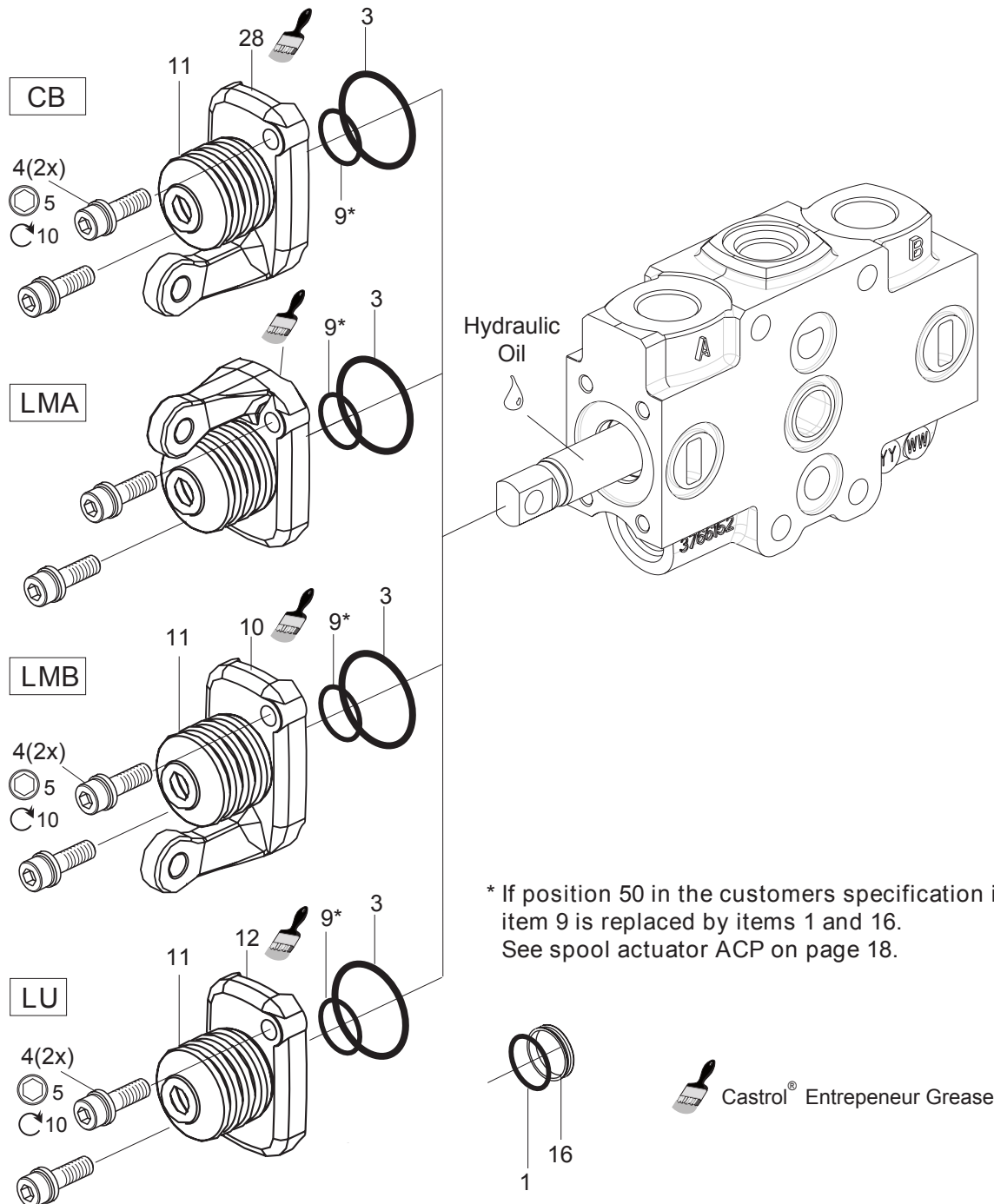
See Customer Specification				
Code	Pos	Part	Description	Remarks / Items
PS, PB	16	398000K069	Pilot part, Main relief valve	11 [31, 32, 33]
PS, PB	16	393000K831	Seal kit, Pilot part relief	31, 32, 33
PB	16	398000K850	Sealing set (for PB)	12, 13, 14
T2B + G	25 + 04	-	Plug VSTI3/4EDCF	7
T2B + U	25 + 04	-	Plug 12HP5ON-S	7
BEN	22	398000K045	Pump unloading valve	8 [28, 29, 30, 35], 34
BEN	22	-	SK08-2, seal kit for item 8	28, 29, 30
12	05	393000K448	Coil 12 VDC	9
24	05	6760652	Coil 24 VDC	9
BX	22	398000K044	Pump unloading blocked	10 [28, 29, 30]
BX	22	-	SK08-2, seal kit for BX	28, 29, 30
IS, IU	15	-	Plug VSTI3/4EDCF	1
IS, IU	15	9120091024	Y- plug	6 [25, 26, 27]
IS, IU	15	9120091030	Seal kit for Y- plug	25, 26, 27
IS	15	6760007	Spool kit IS	2, 3, 4 [19]
IS	15	398000K034	Spool IS	3
IU	15	398000K040	Spool IU	16
IS, IU	15	6760017	Plug kit M6x12	4(2x), 19(2x)
G	04	-	Plug VSTI1/4EDCF	20
U	04	-	Plug 6HP5ON-S	20
		-	Plug VSTI1/8EDCF	21
		6760040	Plug (O-ring) 1/8", BSP	22
		-	Plug VSTI1/4EDCF	23

Mid - Inlet, PB, PS, C3, C5, C6, Y

Inlet Options

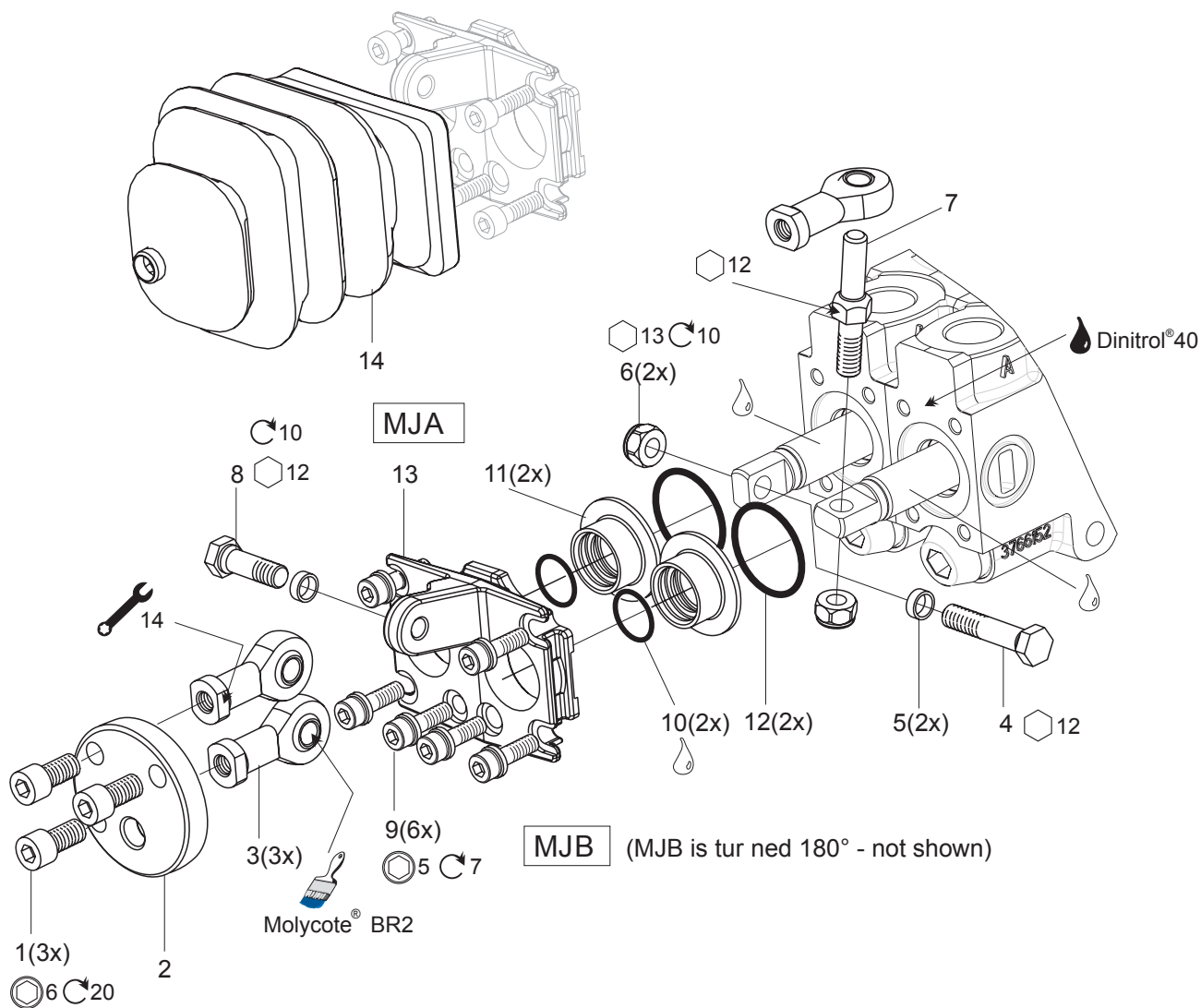
See Customer Specification				
Code	Pos	Part	Description	Remarks / Items
MI	90	398000K042	Main stage	7, 11, 12
MI	90	-	Plug VSTI1/2EDCF	7
PS, PB	94	398000K069	Main relief valve pilot part PLD03	10 [31, 32, 33]
PS, PB, Y	94	393000K831	Seal kit PS, PB, Y	31, 32, 33 (With exception of 33 for Y)
PB	94	393000K852	Sealing set (for PB)	8, 9
Y	94	398000K123	Cavity plug Y	16 [31, 32]
C3, C5, C6 + G	93 + 04	-	Plug VSTI1/2EDCF	6
C3, C5, C6 + U	93 + 04	-	Plug 10HP5ON-S	6
C3, C6	93	398000K405	Plug	4
C3, C6	93	6760405	Plug	4 (50x)

Open spool end: LMA, LMB, LU, CB



See Customer Specification				
Code	Pos	Part	Description	Remarks / Items
LMA, LMB	51	398000K009	Lever holder kit	3, 4(2x), 9, 10 [11]
LU	51	398000K010	Cover LU	3, 4(2x), 9, 12 [11]
CB	50	398000K073	Lever holder kit CB	3, 4(2x), 28 [9, 11]
LMA, LMB, LU; CB	51; 50	398000K805	Boot and Seal kit LMA, LMB, LU, CB	3, 9(2x), 11
LMA, LMB, LU; CB	51; 50	6760445	Seal kit O-ring	9 (5x)
LMA, LMB, LU; CB	51; 50	398000K807	Boot kit	11 (6x)
ACP	50	398000K806	Seal kit ACP	1, 3(2x), 16

Open spool end: MJA, MJB

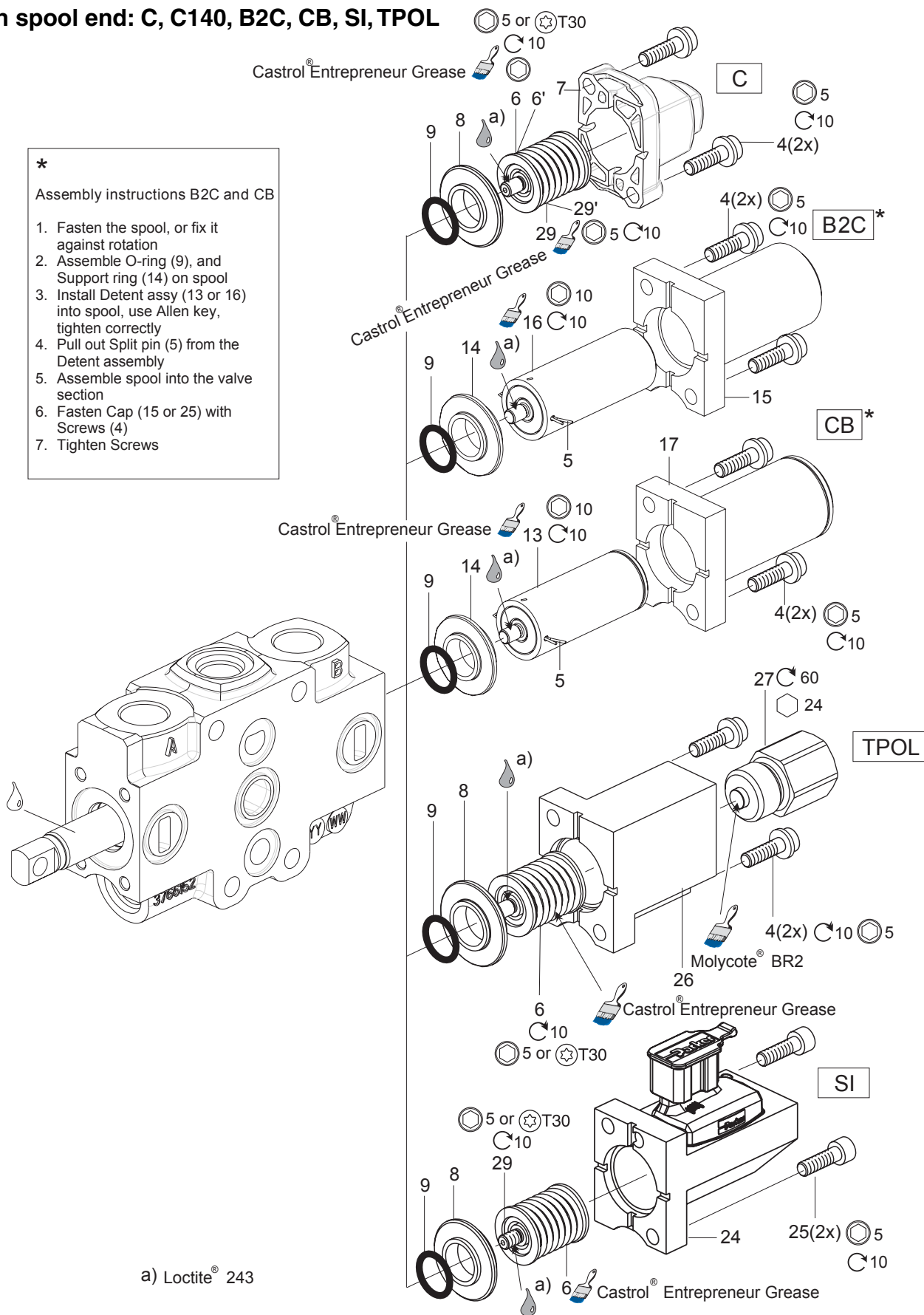


See Customer Specification				
Code	Pos	Part	Description	Remarks / Items
MJA, MJB	51	8234939027	Joystick actuator MP7 (MJA, MJB)	1(3x), 2, 3(3x), 4, 5(2x), 6(2x), 7, 8, 9(6x), 10(2x), 11(2x), 12(2x), 13, 14
MJA, MJB	51	398000K808	Joint kit for MP7	1(3x), 3(3x), 4, 5(2x), 6(2x), 7, 8
MJA, MJB	51	398000K238	Seal kit MP7	10(4x), 12(2x), 14 (A and B side)
MJA, MJB	51	6760531	Kit M8 lever bracket	9(6x), 10(2x), 11(2x), 12(2x), 13

Open spool end: C, C140, B2C, CB, SI, TPOL

Assembly instructions B2C and CB

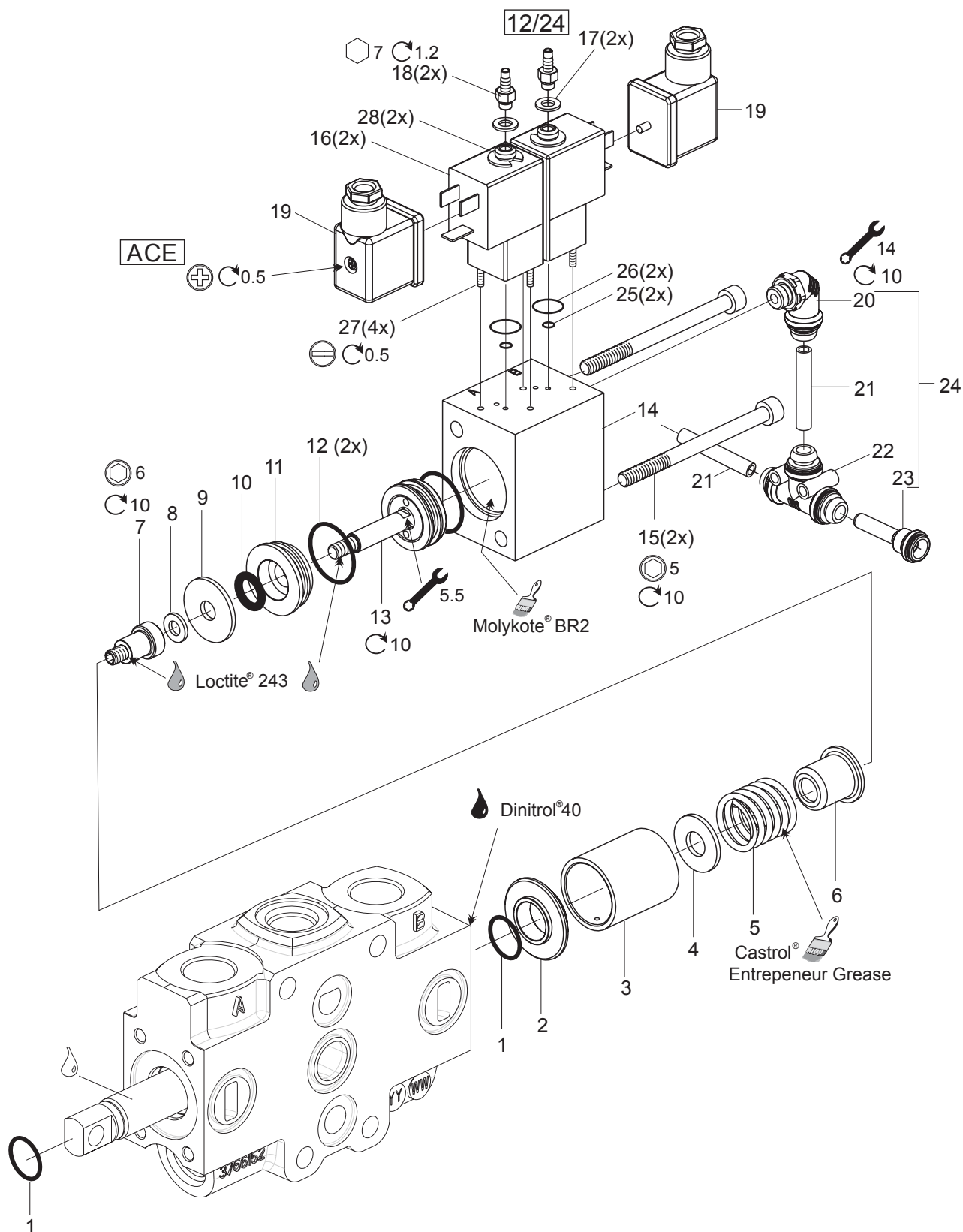
1. Fasten the spool, or fix it against rotation
2. Assemble O-ring (9), and Support ring (14) on spool
3. Install Detent assy (13 or 16) into spool, use Allen key, tighten correctly
4. Pull out Split pin (5) from the Detent assembly
5. Assemble spool into the valve section
6. Fasten Cap (15 or 25) with Screws (4)
7. Tighten Screws



a) Loctite® 243

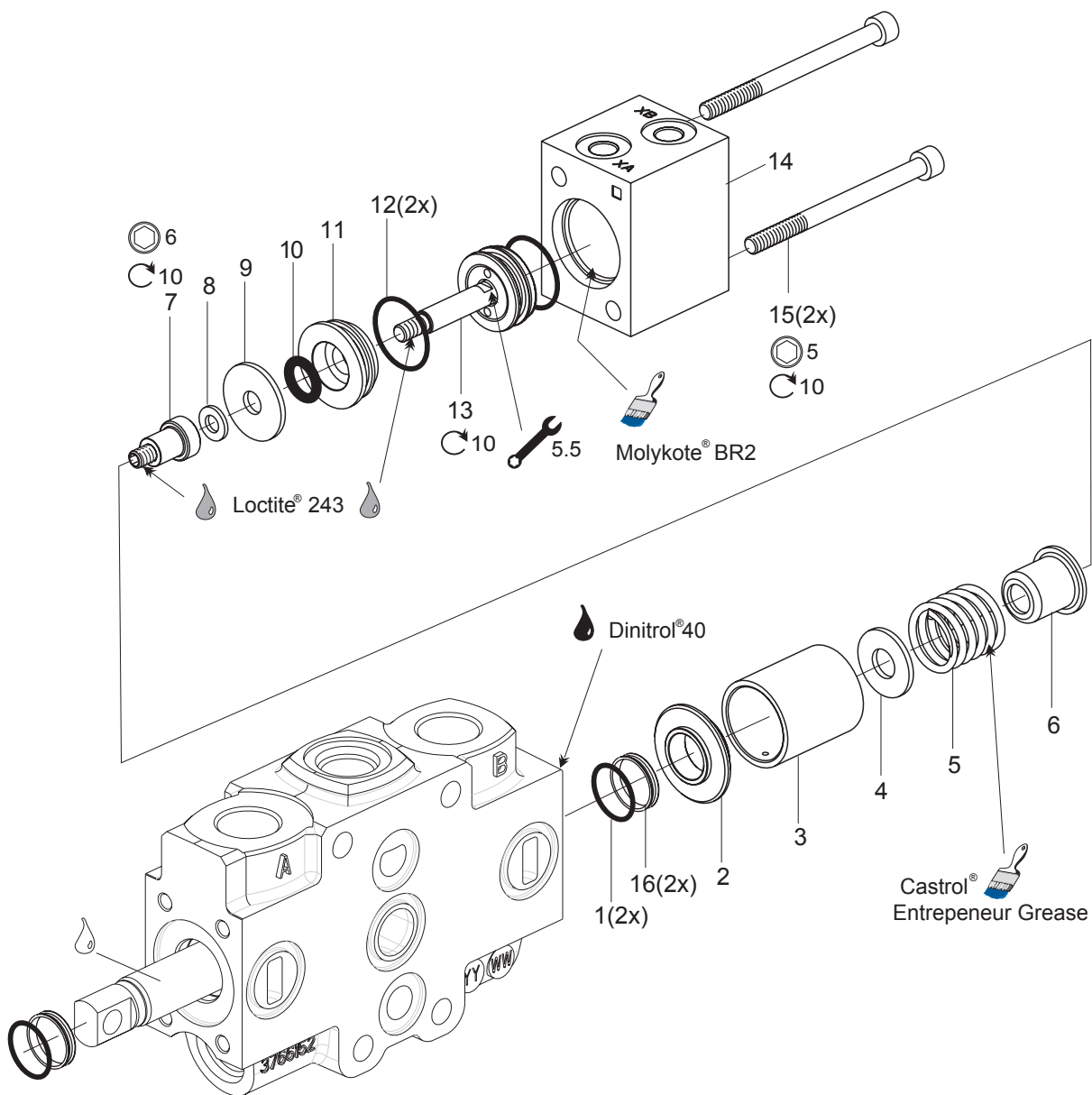
See Customer Specification				
Code	Pos	Part	Description	Remarks / Items
C, C140	50	398000K008	Spool actuator C, C140	4(2x), 7, 8, 9
C; TPOL, SI	50; 52	6760041	Spring pack STD, centering force 80 N	6
C140	50	6760042	Spring pack C140, centering force 140 N	29
C + A020	50 + 59	398000K484	Spring pack, C+A020	6' (Valid also for TPOL/SI in pos. 52)
C140 + A020	50 + 59	6760470	Spring pack, C140+A020	29' (Valid also for TPOL/SI in pos. 52)
B2C	50	398000K059	Spool actuator B2C	4(2x), 9, 14, 15, 16 [5]
B2C	50	398000K159	Cap kit, B2C	4(2x), 9, 14, 15
B2C	50	398000K259	Spring/detent pack B2C	16 [5]
CB	50	398000K060	Spool actuator CB	4(2x), 9, 13 [5], 14, 17
CB	50	398000K160	Cap kit, CB	4(2x), 9, 14, 17
CB	50	398000K260	Spring/detent pack CB	13 [5]
C,C140,B2C,CB	50	398000K805	Seal kit C, C140, B2C, CB	3, 9(2x), 11 (See page 10)
TPOL	52	398000K420	Cap kit, TPOL	4(2x), 8, 9, 26
TPOL	52	6760044	Cylinder assembly, TPOL	27
C + SI	50 + 52	398000K204	Spool actuator C, position sensor	6, 8, 9, 24, 25(2x)
C + SI	50 + 52	398000K860	Position sensor SSP1 for C spool actuator	24
C + SI	50 + 52	6760819	Conversion kit spool actuator C with position sensor SSP2 from P70CF gen. 2	Not shown (For 1 sect. valve)
C + SI	50 + 52	6760765		Not shown (For 4 sect. valve)
C, C140; TPOL, SI	50; 52	6760544	Suport washer multipack	8(100x)

Open spool end: ACE, 12, 24

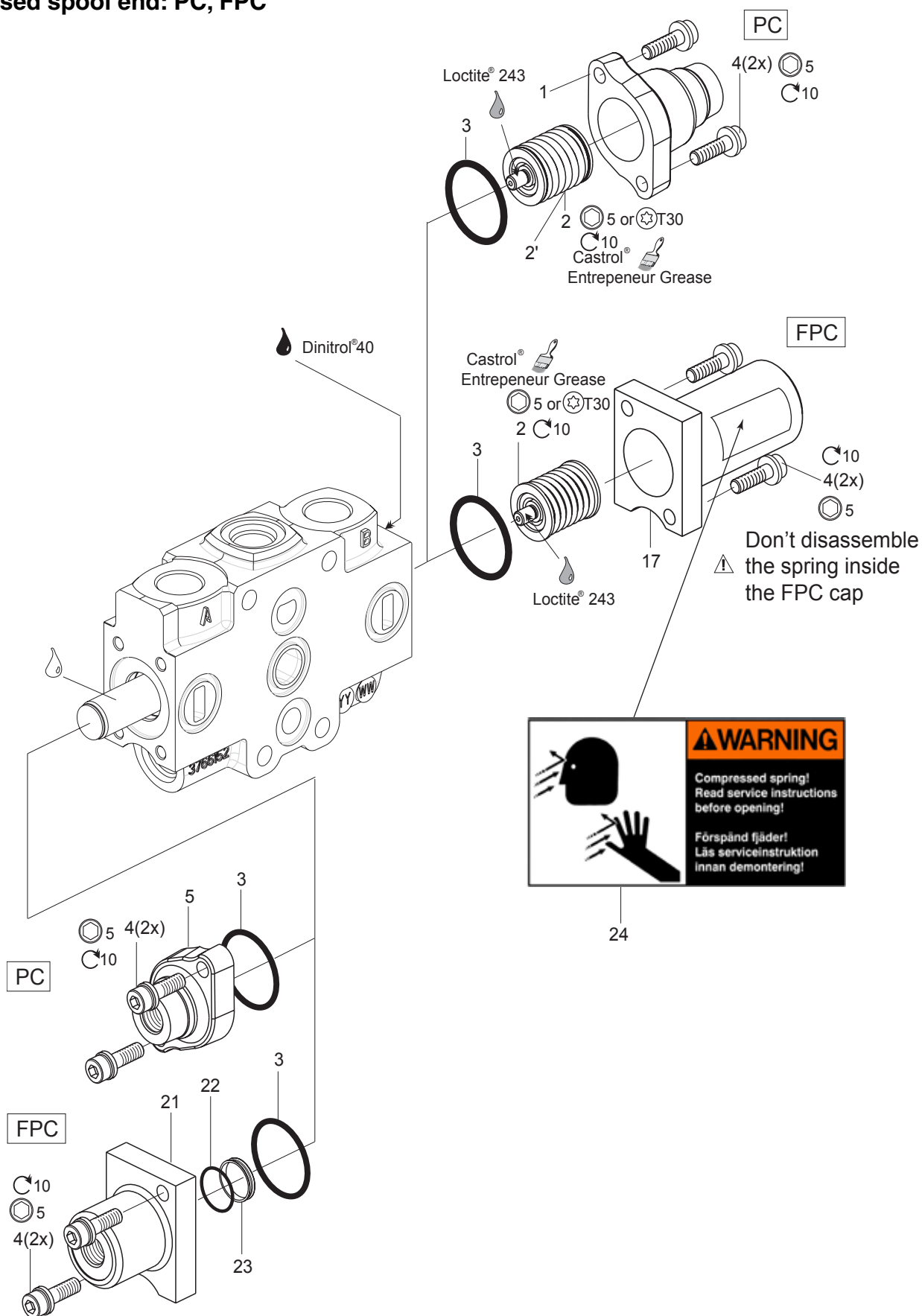


See Customer Specification				
Code	Pos	Part	Description	Remarks / Items
ACE + 12	50 + 05	398000K058	Spool actuator ACE, 12 VDC	1(2x), 2, 3, 4, 5, 6, 7, 8, 9, 13 [10, 11, 12(2x)], 14 [16(2x), 17(2x), 18(2x), 19(2x), 25(2x), 26(2x), 27(4x), 28(2x)], 15(2x)
ACE + 24	50 + 05	398000K958	Spool actuator ACE, 24 VDC	1(2x), 2, 3, 4, 5, 6, 7, 8, 9, 13 [10, 11, 12(2x)], 14 [16(2x), 17(2x), 18(2x), 19(2x), 25(2x), 26(2x), 27(4x), 28(2x)], 15(2x)
ACE	50	398000K062	Spring kit for ACE actuator	1(2x), 2, 4, 5, 6, 7
ACE	50	398000K063	Piston kit for ACE actuator	3, 8, 9, 13 [10, 11, 12(2x)]
ACE + 12	50 + 05	398000K064	Cylinder housing ACE, 12 VDC	14 [16(2x), 17(2x), 18(2x), 19(2x), 25(2x), 26(2x), 27(4x), 28(2x)], 15(2x)
ACE + 24	50 + 05	398000K964	Cylinder housing ACE, 24 VDC	14 [16(2x), 17(2x), 18(2x), 19(2x), 25(2x), 26(2x), 27(4x), 28(2x)], 15(2x)
ACE	50	393000K808	Seal kit ACE (A and B-side)	1(2x), 10, 12(2x)
12	05	9123958812	Solenoid valve ACE, 12 VDC	16, 17, 18, 19, 25, 26, 27(2x), 28
24	05	9123958824	Solenoid valve ACE, 24 VDC	16, 17, 18, 19, 25, 26, 27(2x), 28
ACE	50	6760043	Connector kit for four sections	24 [20(4x), 21(7x), 22(4x), 23]
ACE	50	-	Connector, inlet (P6F-BEAA146)	20
ACE	50	-	Tube, $\varnothing$ 6 (L=35 mm) (P6T-PN06100)	21
ACE	50	-	Connector, intermediate (P6F-BTS46)	22
ACE	50	-	End plug (P6F-BVP46)	23

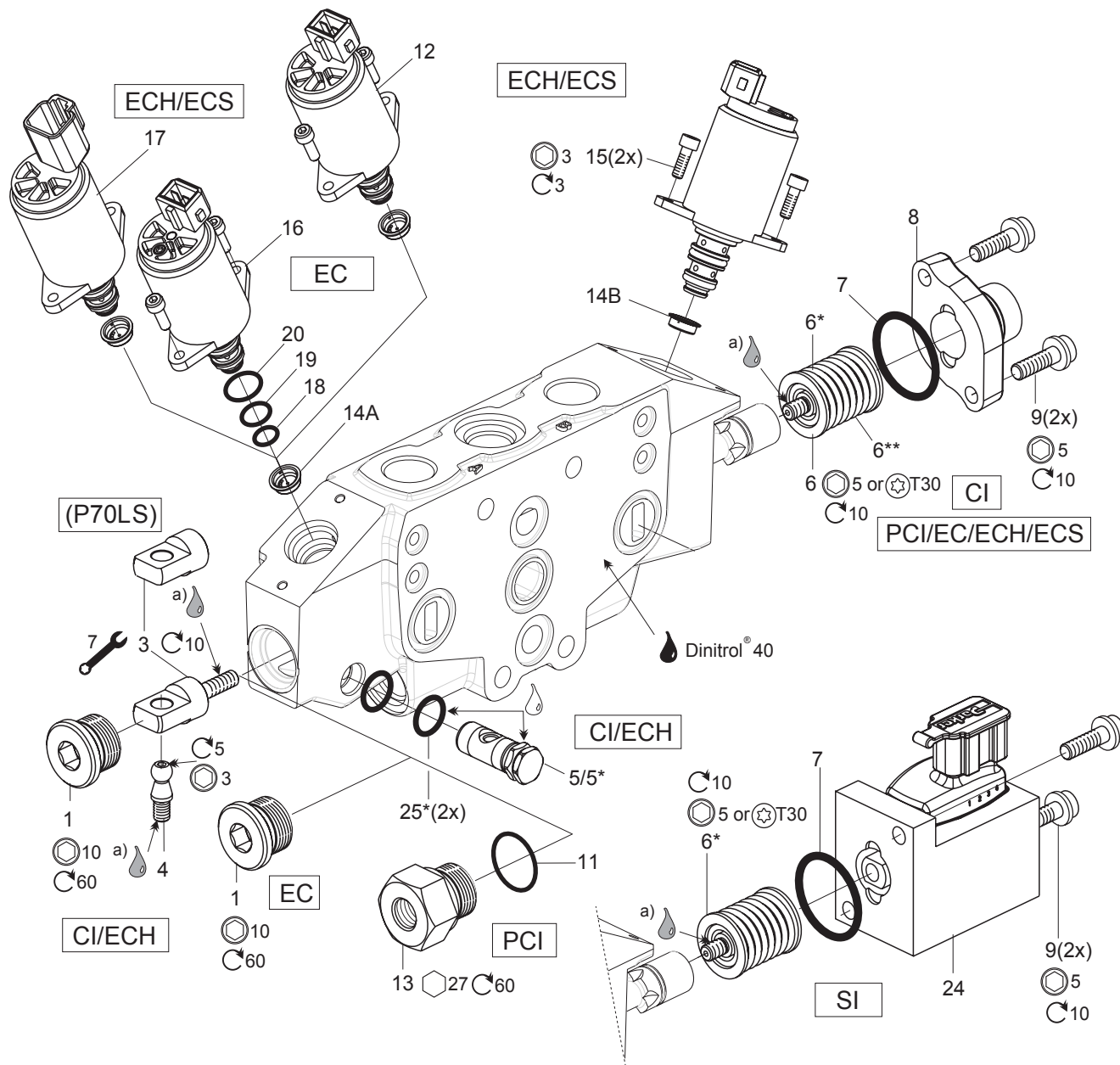
Open spool end: ACP



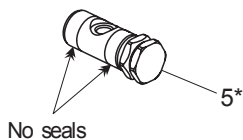
See Customer Specification				
Code	Pos	Part	Description	Remarks / Items
ACP + G	50 + 04	398000K292	Spool actuator ACP, BSP	1(2x), 2, 3, 4, 5, 6, 7, 8, 9, 13 [10, 11, 12(2x)], 14, 15(2x), 16(2x)
ACP + U	50 + 04	398000K296	Spool actuator ACP, NPTF	1(2x), 2, 3, 4, 5, 6, 7, 8, 9, 13 [10, 11, 12(2x)], 14, 15(2x), 16(2x)
ACP	50	398000K293	Spring kit for ACP actuator	1(2x), 2, 4, 5, 6, 7, 16(2x)
ACP + G	50 + 04	398000K294	Cylinder kit for ACP actuator, BSP	3, 8, 9, 13 [10, 11, 12(2x)], 14, 15(2x)
ACP + U	50 + 04	398000K297	Cylinder kit for ACP actuator, NPTF	3, 8, 9, 13 [10, 11, 12(2x)], 14, 15(2x)
ACP + G	50 + 04	398000K295	Cylinder housing ACP, BSP	14, 15(2x)
ACP + U	50 + 04	398000K298	Cylinder housing ACP, NPTF	14, 15(2x)
ACP	50	9120079115	Seal kit ACP (A and B-side)	1(2x), 10, 12(2x), 16(2x)

Closed spool end: PC, FPC

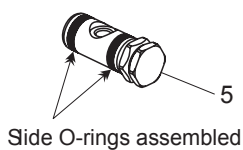
See Customer Specification				
Code	Pos	Part	Description	Remarks / Items
PC + G	50 + 04	398000K001	PC cap kit, A-side, 'BSP'	3, 4(2x), 5
PC + U	50 + 04	398000K281	PC cap kit, A-side, 'UNF'	3, 4(2x), 5
PC + G	50 + 04	398000K201	PC cap kit, B-side, 'BSP'	1, 3, 4(2x)
PC + U	50 + 04	398000K181	PC cap kit, B-side, 'UNF'	1, 3, 4(2x)
FPC + G	50 + 04	398000K067	FPC cap kit, A-side, 'BSP'	3, 4(2x), 21 [22, 23]
FPC + U	50 + 04	398000K267	FPC cap kit, A-side, 'UNF'	3, 4(2x), 21 [22, 23]
FPC + G	50 + 04	398000K167	Spool actuator FPC, B-side, 'BSP'	2, 3, 4(2x), 17, 24
FPC + U	50 + 04	398000K367	Spool actuator FPC, B-side, 'UNF'	2, 3, 4(2x), 17, 24
FPC	50	6763170	Sign 'WARNING'	24
PC, FPC	50	398000K806	Seal kit PC, FPC (A and B side)	3(2x), 22, 23
PC, FPC	50	6760048	Spring pack PC, FPC, (5-18) bar	2
PC + A020	50 + 59	398000K023	Spring pack, PC+A020, (5-16) bar	2'

Closed spool end: CI, PCI, EC, ECS, ECH, SI

New style shaft CI/ECH (From serial number 0421xxxxxxx)



Earlier design of shaft CI/ECH (Until serial number 0420xxxxxxx)



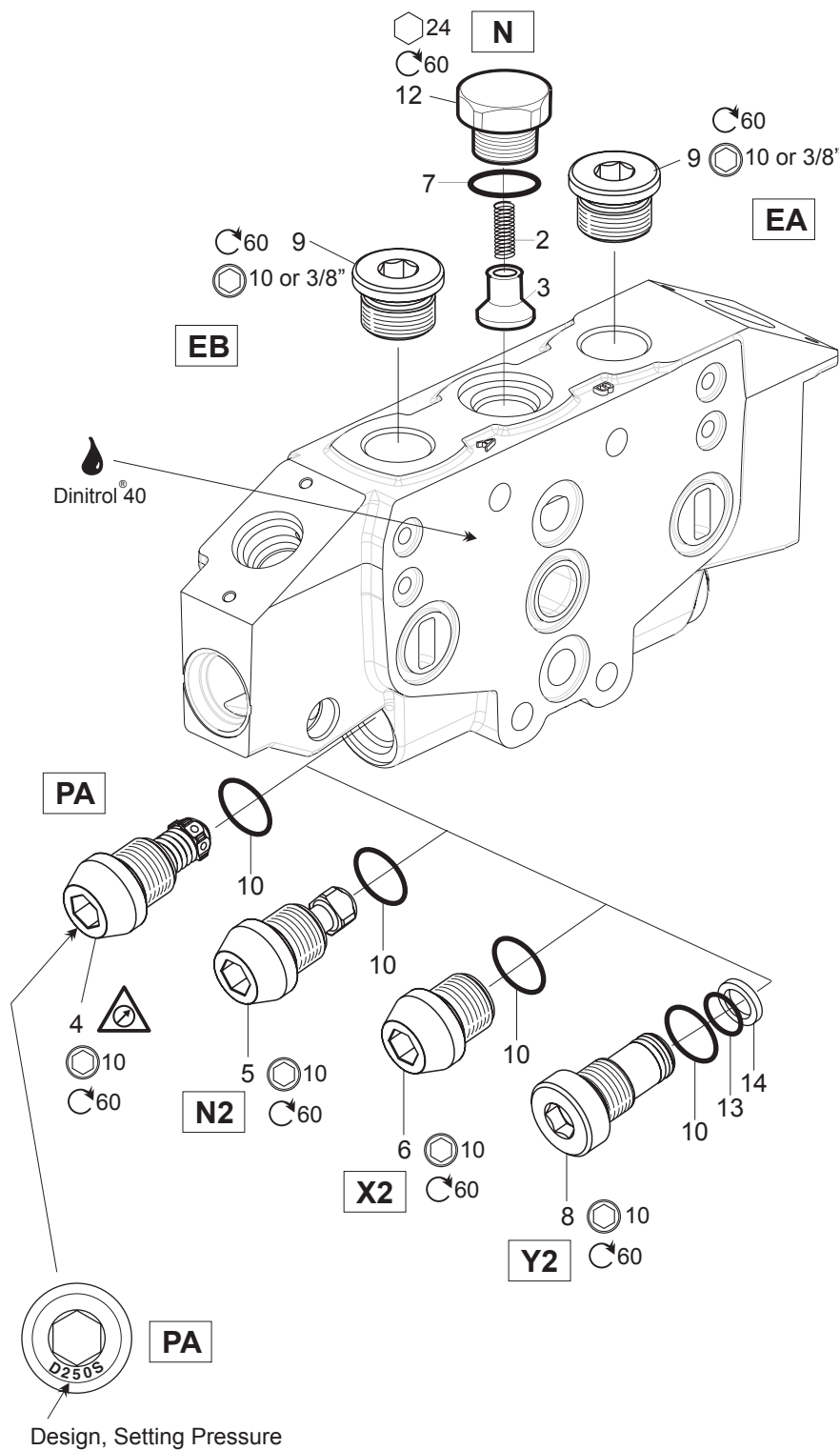
a) Loctite® 243



Example:
Pilot restriction $\varnothing$ 1.2 mm
Marked with five spots.

See Customer Specification				
Code	Pos	Part	Description	Remarks / Items
CI, ECH, ECS	50	398000K072	Actuator CI/ECH, A-side	1, 3, 4, 5 Serial number < 0421xxxxxxx
CI, ECH, ECS	50	6760336	Shaft CI/ECH	5 (Seals assembled)
CI, ECH, ECS	50	398000K172	Actuator CI/ECH, A-side	1, 3, 4, 5*, 25*(2x) Serial number > 0420xxxxxxx
CI, ECH, ECS	50	398000K173	Shaft CI/ECH, no seals on	5*, 25* (Seals mounted in cavity)
CI, EC, ECH, ECS	50	398000K161	Cap kit for CI, EC, ECS, ECH, B-side	7, 8, 9(2x)
CI, ECH, ECS	50	398000K803	Seal kit with old shaft	5, 7, 11, 25*(2x) (Both old and new style)
CI	50	393000K342	Spring pack CI, (5.5-11) bar	6
EC, ECH, ECS+SI	50 + 52	6760820	Conversion kit spool actuator EC* with position sensor SSP2 from P70 generation 2	Not shown (For 1 sect. valve)
EC, ECH, ECS+SI	50 + 52	6760766		Not shown (For 4 sect. valve)
EC, ECH, ECS	50	6760048	Spring pack EC, ECH, ECS, SI, (5-18) bar	6*
PCI + G	50 + 04	398000K372	Actuator PCI, B-side, BSP	7, 8, 9(2x)
PCI + G	50 + 04	398000K108	Connection PCI, A-side, BSP	13 [11]
PCI + U	50 + 04	398000K672	Actuator PCI, B-side, UNF	7, 8, 9(2x)
PCI + U	50 + 04	398000K308	Connection PCI, A-side, UNF	13 [11]
PCI, EC, ECH, ECS	50	6760048	Spring pack PCI, EC, ECH, ECS, (5-18) bar	6*
EC	50	398000K061	Plug (O-ring) 1/2", BSP	1
EC, ECS, ECH + A020	50 + 59	398000K023	Spring pack, EC*+A020, (5-16) bar	6**
EC + 12 + A	50 + 05 + 56A/B	393000M012	Solenoid valve PVC25, 12 VDC	15(2x), 16*** Air-bleed, man. override, AMP
EC + 24 + A	50 + 05 + 56A/B	393000M024	Solenoid valve PVC25, 24 VDC	15(2x), 16*** Air-bleed, man. override, AMP
ECH, ECS + 12 + A	50 + 05 + 56A/B	393000N012	Solenoid valve PVC25, 12 VDC	12***, 15(2x) No air-bleed/man. override AMP
ECH, ECS + 24 + A	50 + 05 + 56A/B	393000N024	Solenoid valve PVC25, 24 VDC	12***, 15(2x) No air-bleed/man. override AMP
ECH, ECS + 12 + D	50 + 05 + 56A/B	393000D012	Solenoid valve PVC25, 12 VDC	15(2x), 17*** No air-bleed/man. overr. Deutsch
ECH, ECS + 24 + D	50 + 05 + 56A/B	393000D024	Solenoid valve PVC25, 24 VDC	15(2x), 17*** No air-bleed/man. overr. Deutsch
		393000K813	Seal kit for PVC25	18, 19, 20
O	55A/55B	6760086	Restrictor ø1.2 mm, 5 spots	14(5x) "O" Low damping
N	55A/55B	6760083	Restrictor ø0.9 mm, 10 spots (Std)	14(5x) "N" Normal damping
H	55A/55B	6760080	Restrictor ø0.6 mm, 1 spot	14(5x) "H" Hard damping

*** 16 [18, 19, 20]; 12 [18, 19, 20]; 17 [18, 19, 20]: All solenoids delivered with seals and a ø 3.0 mm "Restrictor".

Spool section N, PA, N2, X2, Y2, EA, EB

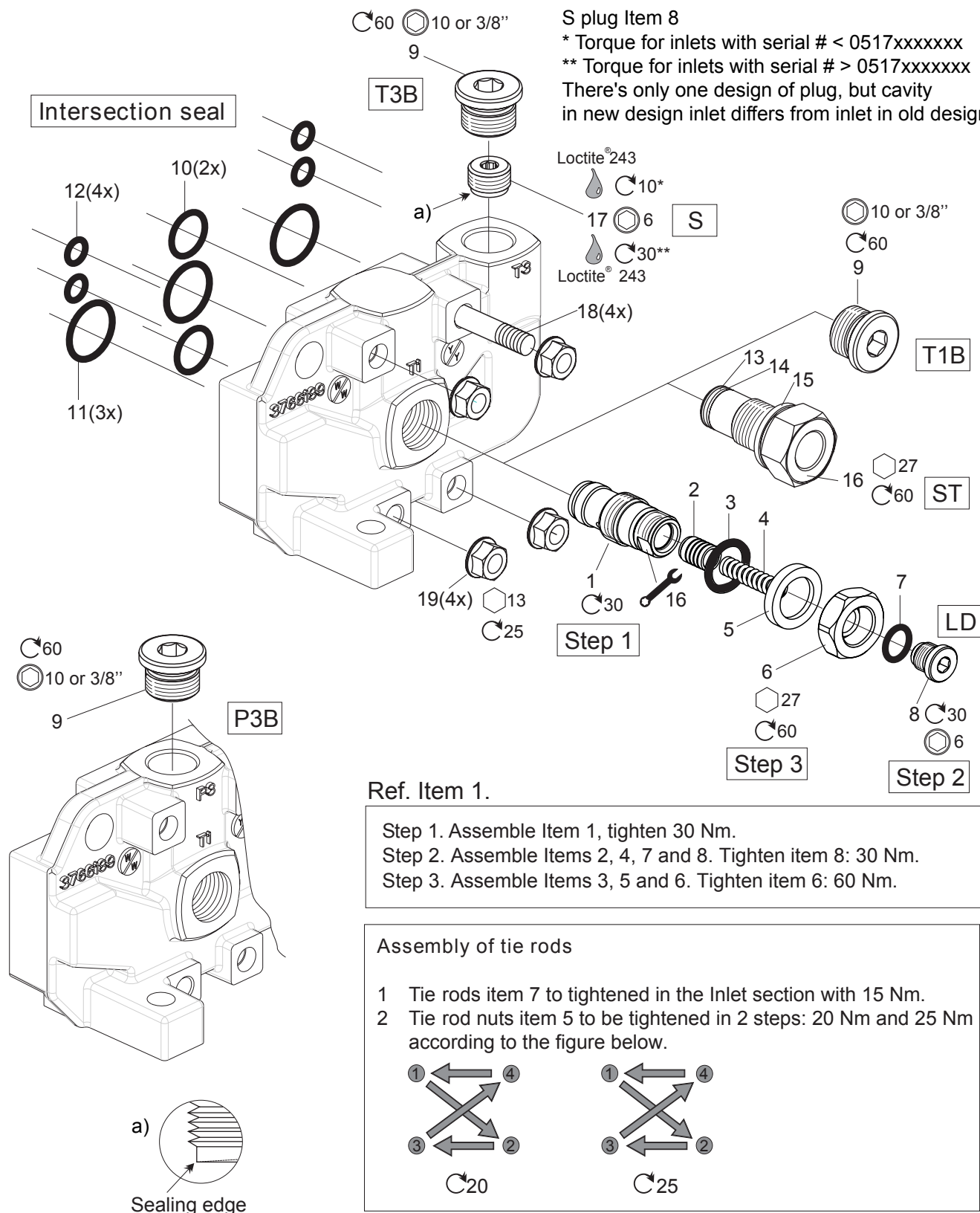
D = Std
S = Variant A003
U = Variant A007
DV = Std, + FPM seal

Basic Functions

See Customer Specification				
Code	Pos	Part	Description	Remarks / Items
N	66	398000K011	Supply check valve	12 [2, 3, 7]
N	66	6760444	Seal kit	7 (5x)
EA, EB + G	60 + 04	-	Plug VST11/2EDCF	9
EA, EB + U	60 + 04	-	Plug 10HP5ON-S	9
N2	76A/76B	393000K194	Load hold check valve, N2	5 [10]
X2	76A/76B	393000K193	Cavity plugged (without check valve), X2	6 [10]
Y2	76A/76B	393000K195	Cavity plugged, Y2	8 [10, 13, 14]
N2, X2, PA	76A/76B	6760445	Seal kit PLC053, N2, X2	10 (5x)
Y2	76A/76B	393000K818	Seal kit, Y2	10, 13, 14

See Customer Spec.						
Code	Pos	Part#std [10 l/min]	Part#A003 [20 l/min]	Part#A007 [10 l/min]	Description	Remarks / Items
25	76A/76B	393000U052		393000U053	PLC053-025	4 [10] 
32	76A/76B		398000K208		PLC053-032	4 [10] 
40	76A/76B		398000K209		PLC053-040	4 [10] 
50	76A/76B	393000K176	398000K301	393000K558	PLC053-050	4 [10] 
63	76A/76B	393000K177		393000K559	PLC053-063	4 [10] 
80	76A/76B	393000K178	398000K210	393000K560	PLC053-080	4 [10] 
100	76A/76B	393000K179	398000K211	393000K561	PLC053-100	4 [10] 
120	76A/76B		398000K318		PLC053-120	4 [10] 
125	76A/76B	393000K180	398000K271	393000K562	PLC053-125	4 [10] 
140	76A/76B	393000K181		393000K563	PLC053-140	4 [10] 
160	76A/76B	393000K182		393000K564	PLC053-160	4 [10] 
170	76A/76B		398000K319		PLC053-170	4 [10] 
175	76A/76B	393000K183		393000K565	PLC053-175	4 [10] 
190	76A/76B	393000K184		393000K566	PLC053-190	4 [10] 
210	76A/76B	393000K185	398000K212	393000K567	PLC053-210	4 [10] 
230	76A/76B	393000K186		393000K568	PLC053-230	4 [10] 
240	76A/76B	393000K134		398000K249	PLC053-240	4 [10] 
250	76A/76B	393000K187		393000K569	PLC053-250	4 [10] 
260	76A/76B	393000K188		393000K570	PLC053-260	4 [10] 
280	76A/76B	393000K189		393000K571	PLC053-280	4 [10] 
300	76A/76B	393000K190		393000K572	PLC053-300	4 [10] 
320	76A/76B	393000K191		393000K573	PLC053-320	4 [10] 
350	76A/76B	393000K192		393000K574	PLC053-350	4 [10] 
A002 + 280	49+76A/B	393000V189			PLC053-280	4 [10] DV design 
A002 + 350	49+76A/B	6760734			PLC053-350	4 [10] DV design 
A029 + 100	89* + 76*	398000K515			PLC053-100	4 [10] 
A029 + 160	89* + 76*	398000K516			PLC053-160	4 [10] 
A029 + 250	89* + 76*	6760486			PLC053-250	4 [10] 

Outlet US: S, ST, P3B, T1B, T3B, LD, Tie rods



Ref. Item 1.

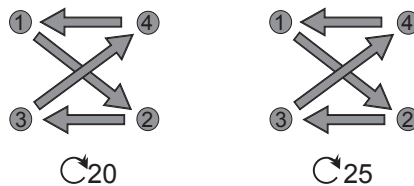
Step 1. Assemble Item 1, tighten 30 Nm.

Step 2. Assemble Items 2, 4, 7 and 8. Tighten item 8: 30 Nm.

Step 3. Assemble Items 3, 5 and 6. Tighten item 6: 60 Nm.

Assembly of tie rods

- 1 Tie rods item 7 to be tightened in the Inlet section with 15 Nm.
- 2 Tie rod nuts item 5 to be tightened in 2 steps: 20 Nm and 25 Nm according to the figure below.



Outlet Options**Directional Control Valves
Series P70 Generation 1**

See Customer Specification				
Code	Pos	Part	Description	Remarks / Items
T1B, T3B + G	33, 34 + 04	-	Plug VST11/2EDCF	9
T1B, T3B + U	33, 34 + 04	-	Plug 10HP50N-S	9
P3B + G	35 + 04	-	Plug VST11/2EDCF	9
P3B + U	35 + 04	-	Plug 10HP50N-S	9
S	36	398000K405	Plug 'S'	17
S	36	6760405	Plug 'S'	17 (50x)
ST + G	33 + 04	6760008	ST adaptor 'BSP'	16 [13, 14, 15]
ST + U	33 + 04	6760009	ST adaptor 'UNF'	16 [13, 14, 15]
ST + G	33 + 04	398000K816	Seal kit ST, BSP	13, 14, 15
ST + U	33 + 04	398000K813	Seal kit ST, UNF	13, 14, 15
LD + G	33 + 04	398000K538	Load signal drain, BSP	1 [2, 3, 4, 5, 6, 7, 8]
LD + U	33 + 04	398000K539	Load signal drain, UNF	1 [2, 3, 4, 5, 6, 7, 8]
LD	33	398000K540	Seal kit LD	3, 7
LD	33	6761089	Spring kit LD	4
		398000K098	Tie rod kit, valve 1 section, 115 mm	18(4x), 19(4x)
		398000K099	Tie rod kit, valve 2 sections, 157 mm	18(4x), 19(4x)
		398000K100	Tie rod kit, valve 3 sections, 200 mm	18(4x), 19(4x)
		398000K101	Tie rod kit, valve 4 sections, 242 mm	18(4x), 19(4x)
		398000K102	Tie rod kit, valve 5 sections, 284 mm	18(4x), 19(4x)
		398000K103	Tie rod kit, valve 6 sections, 327 mm	18(4x), 19(4x)
		398000K104	Tie rod kit, valve 7 sections, 369 mm	18(4x), 19(4x)
		398000K105	Tie rod kit, valve 8 sections, 412 mm	18(4x), 19(4x)
		398000K106	Tie rod kit, valve 9 sections, 455 mm	18(4x), 19(4x)
		398000K107	Tie rod kit, valve 10 sections, 498 mm	18(4x), 19(4x)
		398000K003	Tie rod kit, valve 11 sections, 540 mm	18(4x), 19(4x)
		398000K802	Nut kit	19(4x)
		398000K801	Intersection seal, standard	10(2x), 11(3x), 12(4x) (NBR)
A002	29, 49	398000V801	Intersection seal FPM 80	10(4x)*, 11(3x), 12(4x) (FPM) * See also item 10, PA, page 24.

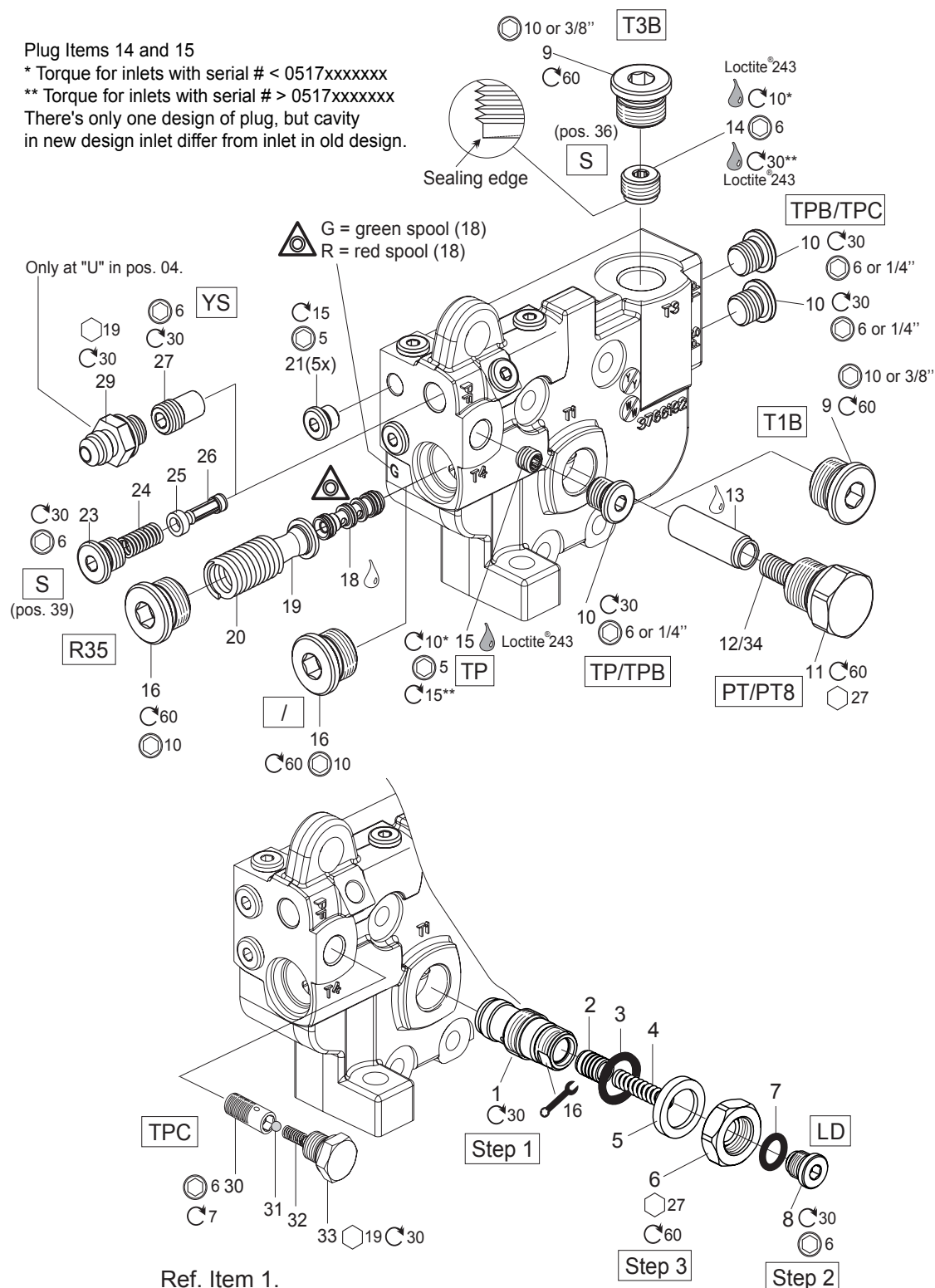
Outlet USP: S, YS, R35, TP, TPB, TPC, PT, PT8, LD, T1B, T3B

Plug Items 14 and 15

* Torque for inlets with serial # < 0517xxxxxx

** Torque for inlets with serial # > 0517xxxxxx

There's only one design of plug, but cavity in new design inlet differ from inlet in old design.



Ref. Item 1.

Step 1. Assemble Item 1, tighten 30 Nm.

Step 2. Assemble Items 2, 4, 7 and 8. Tighten item 8: 30 Nm.

Step 3. Assemble Items 3, 5 and 6. Tighten item 6: 60 Nm.

Outlet Options**Directional Control Valves
Series P70 Generation 1**

See Customer Specification				
Code	Pos	Part	Description	Remarks / Items
R35	37	6760010	Reducer spool, size marked Green	16, 18, 19, 20 
R35	37	6760011	Reducer spool, size marked Red	16, 18, 19, 20 
R35	37	398000K053	Pilot reducing valve	16, 19
I, R35	37	398000K061	Plug (O-ring) 1/2", BSP	16
S	39	398000K054	Pilot supply strainer	23, 24, 25, 26
S	39	-	Plug VSTI1/4EDCF	23
YS + G	39 + 04	393000K075	Connection for external filter 'BSP'	27
YS + U	39 + 04	393000K076	Connection for external filter 'UNF'	27, 29
YS + U	39 + 04	-	Nipple 6F4OMXS	29
TP + G	40 + 04	398000K075	Conn. for separate pilot tank, 'BSP'	10, 15
TP + U	40 + 04	398000K275	Conn. for separate pilot tank, 'UNF'	10, 15
TPB + G	40 + 04	-	Plug VSTI1/4EDCF	10
TPB + U	40 + 04	-	Plug 6HP5ON-S	10
TPC + G	40 + 04	301000K857	Internal pilot tank check valve, 'BSP'	30, 31, 32, 33
TPC + U	40 + 04	398000K857	Internal pilot tank check valve, 'UNF'	30, 31, 32, 33
PT + G	33 + 04	398000K050	Counter pressure valve 'BSP'	11, 12, 13
PT + U	33 + 04	398000K051	Counter pressure valve 'UNF'	11, 12, 13
PT8 + G	33 + 04	398000K373	Counter pressure valve 'BSP'	11, 13, 34
PT8 + U	33 + 04	398000K374	Counter pressure valve 'UNF'	11, 13, 34
LD + G	33 + 04	398000K538	Load signal drain, 'BSP'	1 [2, 3, 4, 5, 6, 7, 8]
LD + U	33 + 04	398000K539	Load signal drain, 'UNF'	1 [2, 3, 4, 5, 6, 7, 8]
LD	33	398000K540	Seal kit LD	3, 7
LD	33	6761089	Spring kit LD	4
T1B, T3B + G	33, 34 + 04	-	Plug VSTI1/2EDCF	9
T1B, T3B + U	33, 34 + 04	-	Plug 10HP5ON-S	9
S	36	398000K405	Series connection plug	14
S	36	6760405	Series connection plug	14 (50x)
		-	Plug VSTI1/8EDCF	21

Appendix A: Warnings

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 .

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

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