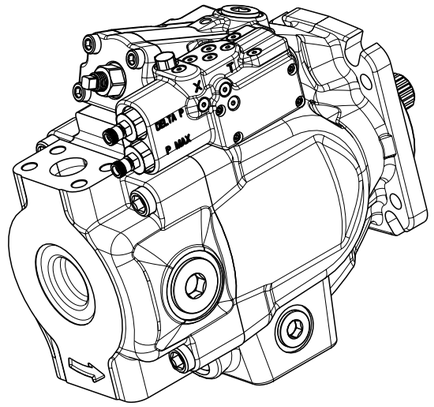
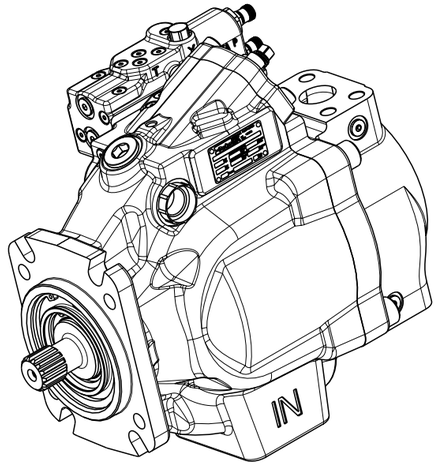
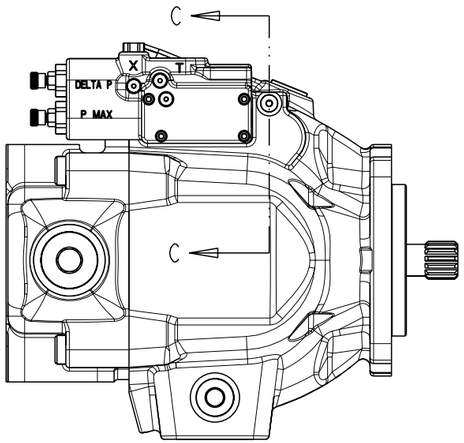
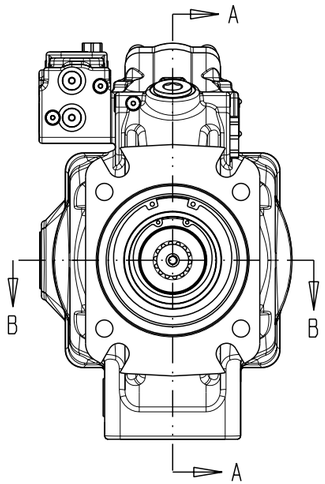
TITLE	DRAWING NUMBER	REVISION	STATUS	
SERVICE PARTS P2105 DESIGN SERIES II	P2-105-0403	A	PR	SHEET 1 OF 7







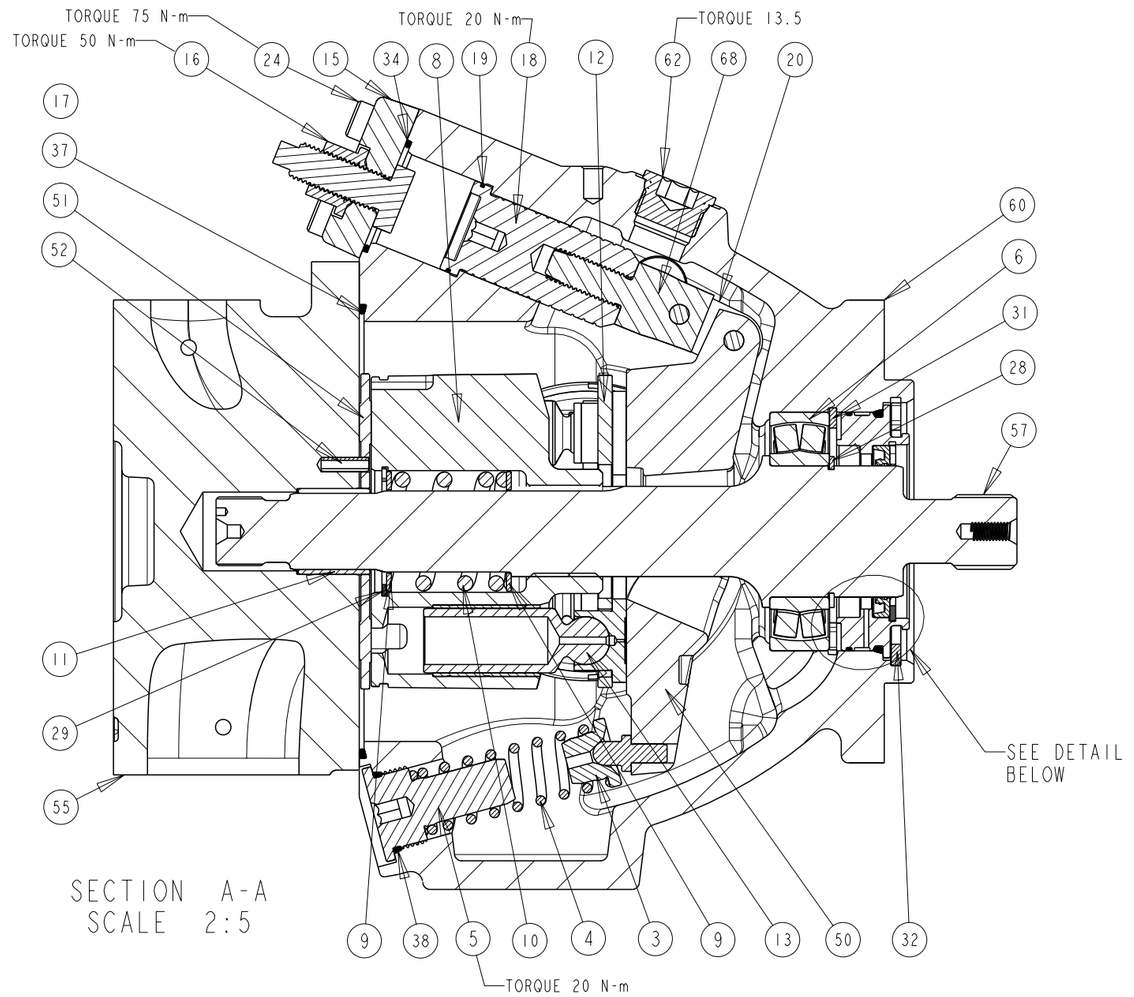


NOTES:
1 PUMP SHOWN IS A RIGHT HAND (CW) ROTATION PUMP. LEFT HAND (CCW) ROTATION PUMPS HAVE OUTLET GAUGE PORT REVERSED.

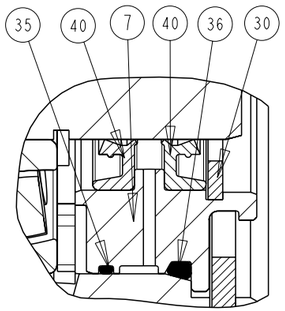
Parker Hannifin GmbH
Hydraulik Controls Division
Kaarst, Germany

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, Tennessee

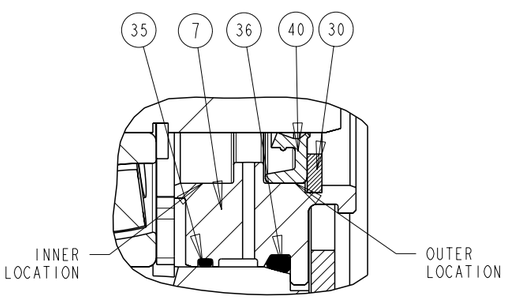
DRAWN BY	DATE	CHANGED BY	DATE	ECN NUMBER
E. BOONE	15APR02	B. LARKIN	23MAY02	133522



SECTION A-A
SCALE 2:5



DUAL SHAFT SEAL ASSEMBLY
P2-105-0210-02□
SECTION A-A
SCALE 1:1

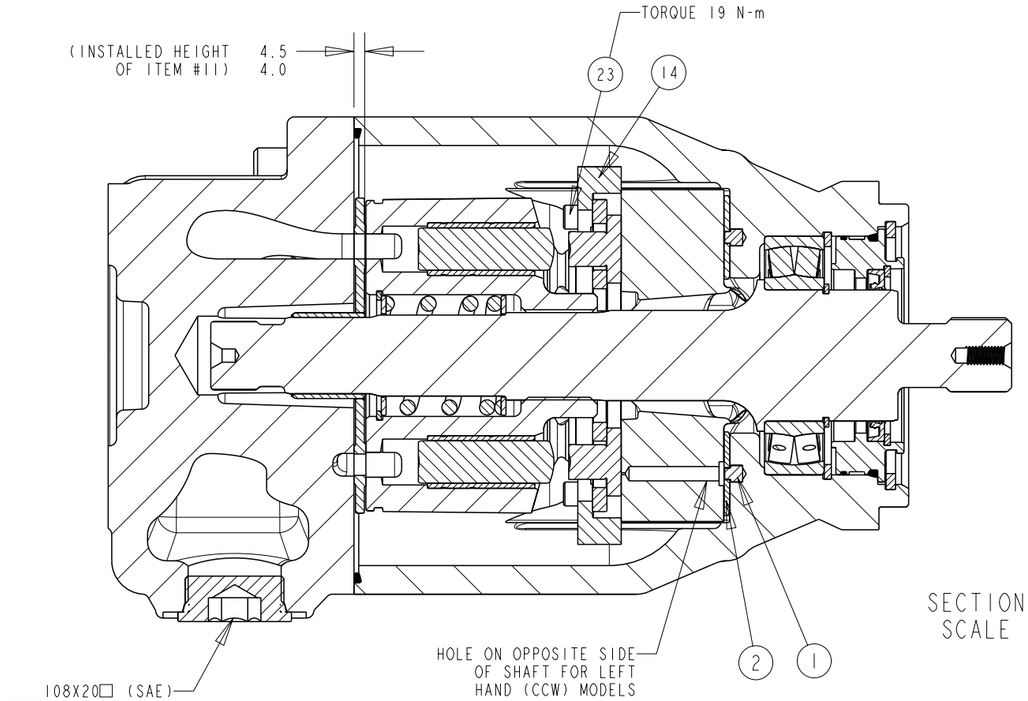


SINGLE SHAFT SEAL ASSEMBLY
P2-105-0210-01□
SECTION A-A
SCALE 1:1

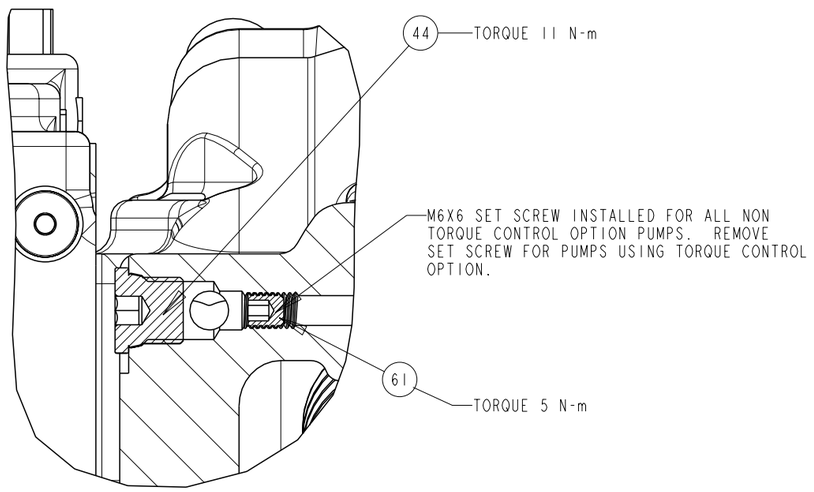
Parker Hannifin GmbH
Hydraulik Controls Division
Kaarst, Germany

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, Tennessee

TITLE	DRAWING NUMBER	REVISION	STATUS	
SERVICE PARTS P2105 DESIGN SERIES II	P2-105-0403	A	PR	SHEET 2 OF 7

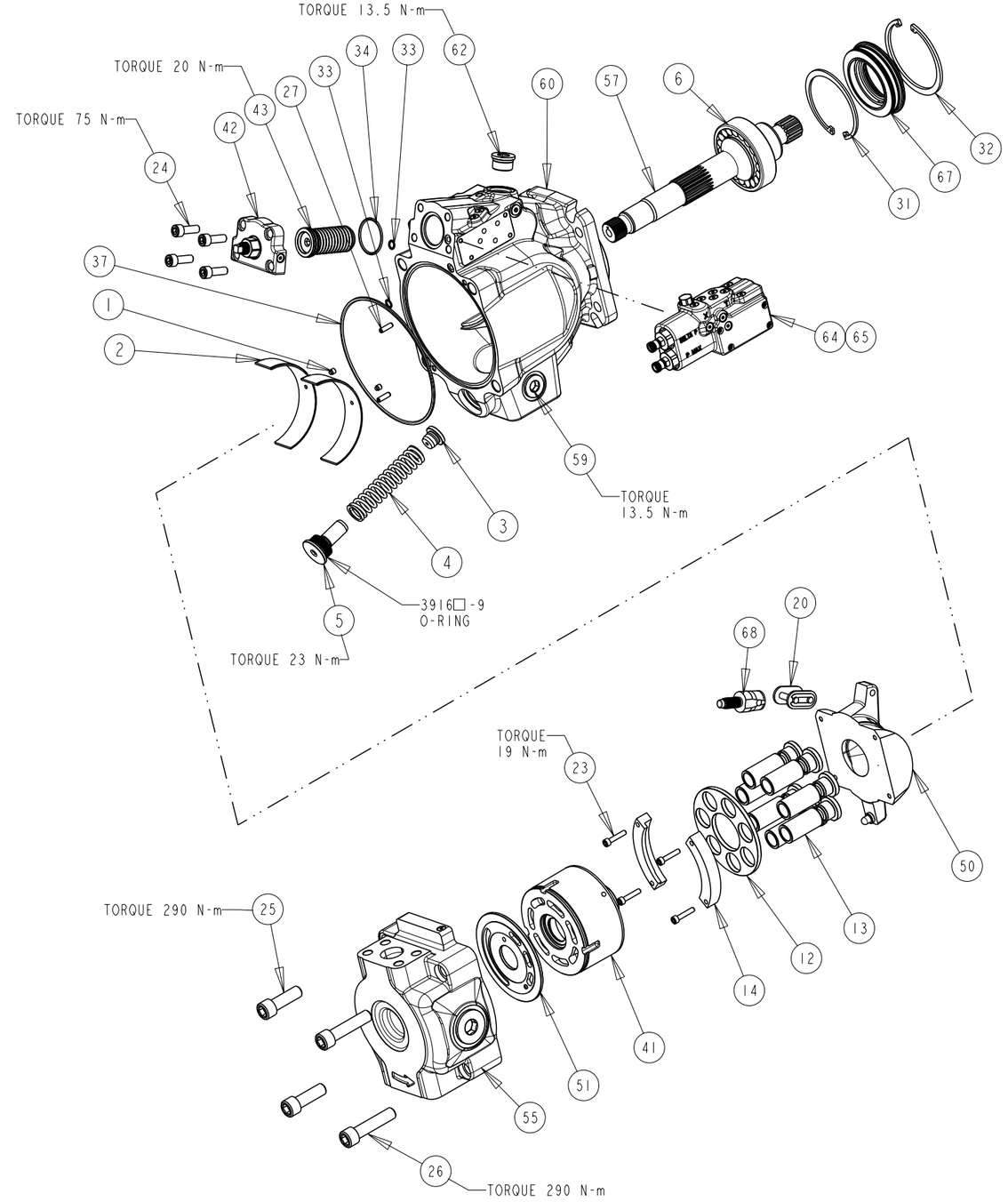


SECTION B-B
SCALE 2:5



SECTION C-C
SCALE 1:1

DRAWN BY	DATE	CHANGED BY	DATE	ECN NUMBER
E. BOONE	15APR02	B. LARKIN	23MAY02	133522

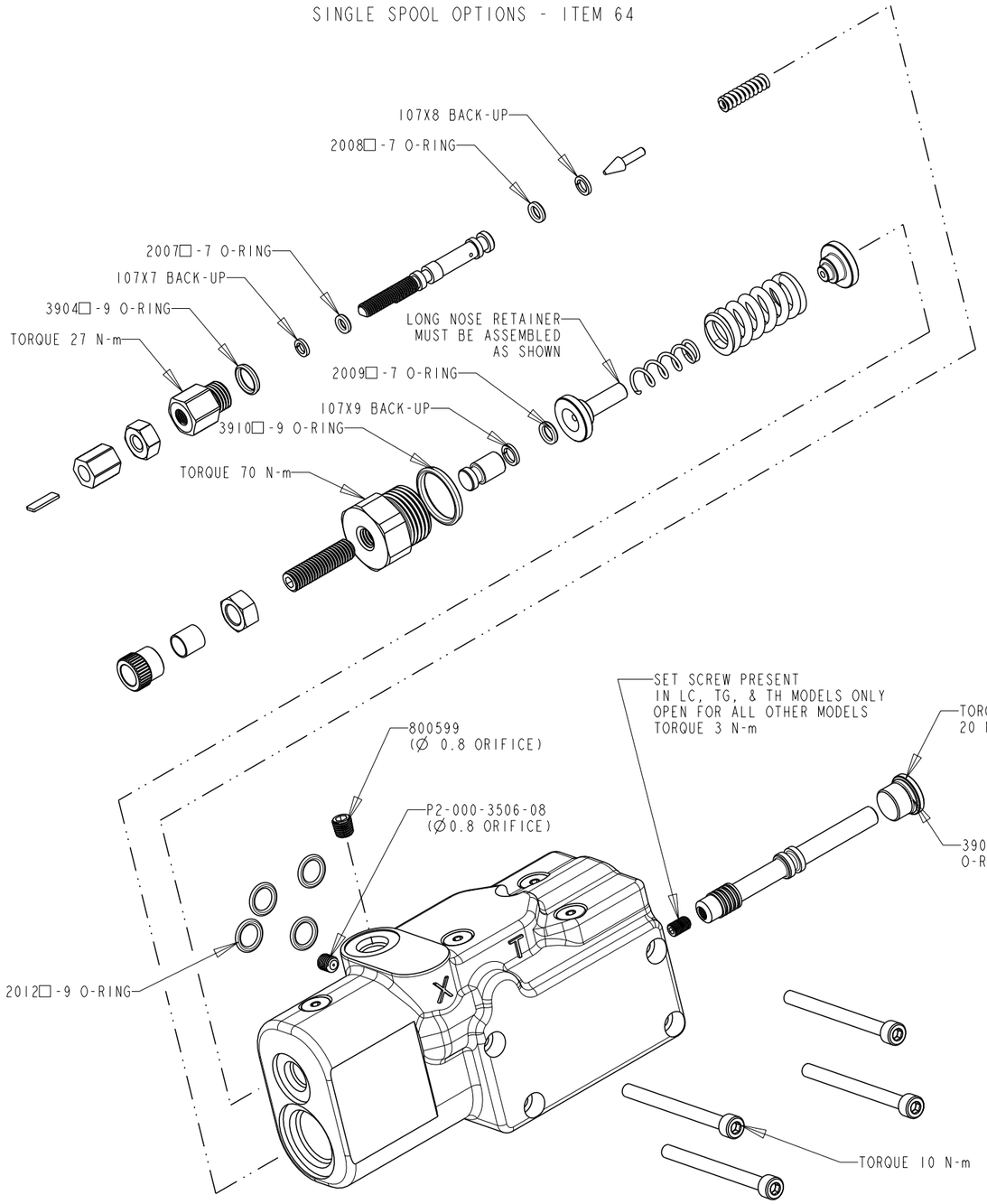


TITLE	DRAWING NUMBER	REVISION	STATUS	
SERVICE PARTS P2105 DESIGN SERIES II	P2-105-0403	A	PR	SHEET 3 OF 7

DRAWN BY	DATE	CHANGED BY	DATE	ECN NUMBER
E.BOONE	15APR02	B. LARKIN	23MAY02	133522

COMPENSATOR KITS

SINGLE SPOOL OPTIONS - ITEM 64

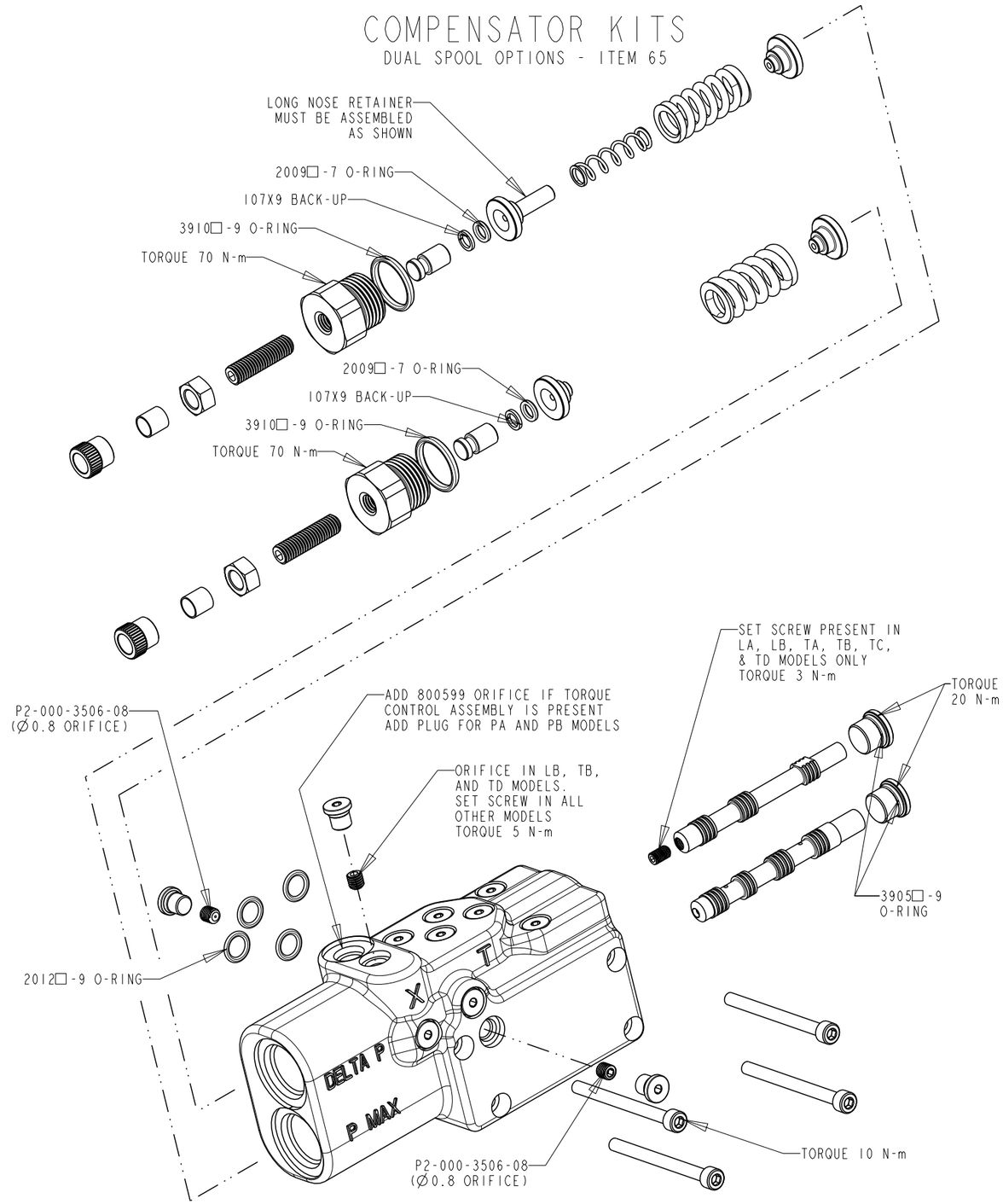


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Kaarst, Germany

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Hydraulic Pump/Motor Division
Greeneville, Tennessee

COMPENSATOR KITS

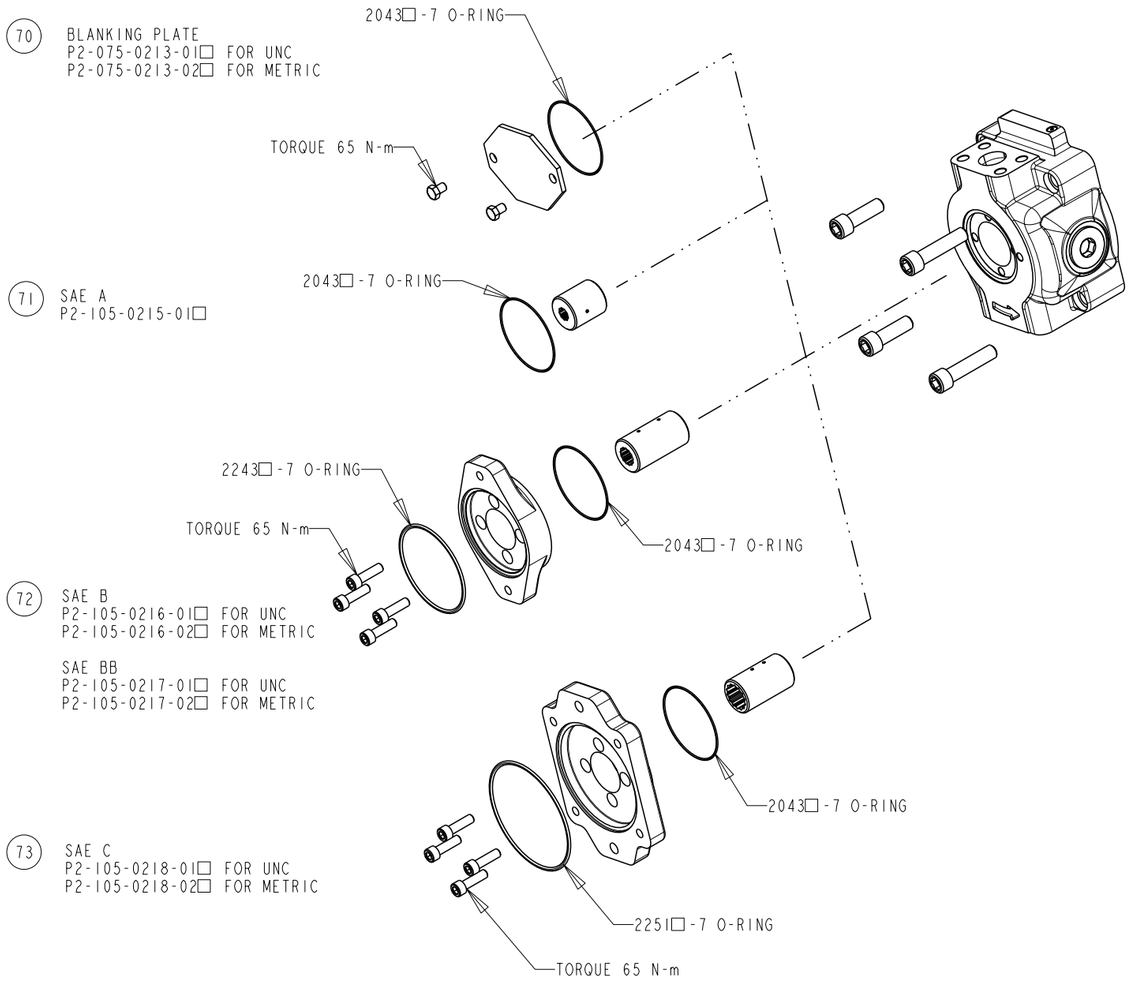
DUAL SPOOL OPTIONS - ITEM 65



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Hydraulic Pump/Motor Division
Greeneville, Tennessee

THRU DRIVE KITS



(70) BLANKING PLATE
P2-075-0213-01□ FOR UNC
P2-075-0213-02□ FOR METRIC

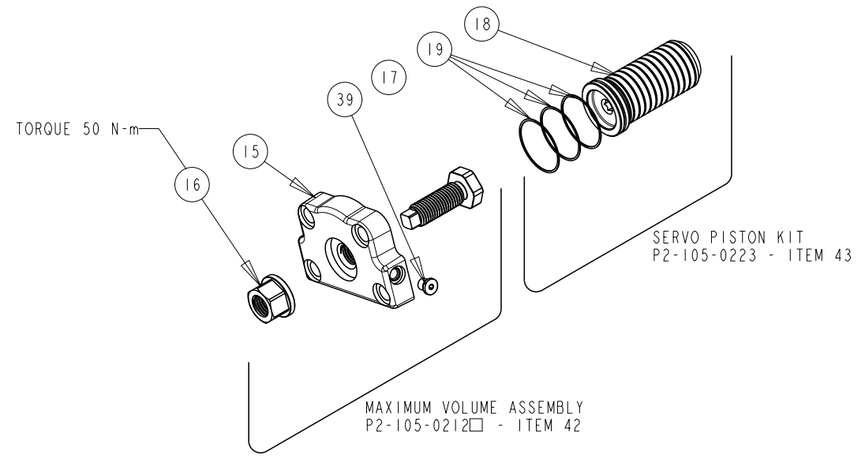
(71) SAE A
P2-105-0215-01□

(72) SAE B
P2-105-0216-01□ FOR UNC
P2-105-0216-02□ FOR METRIC

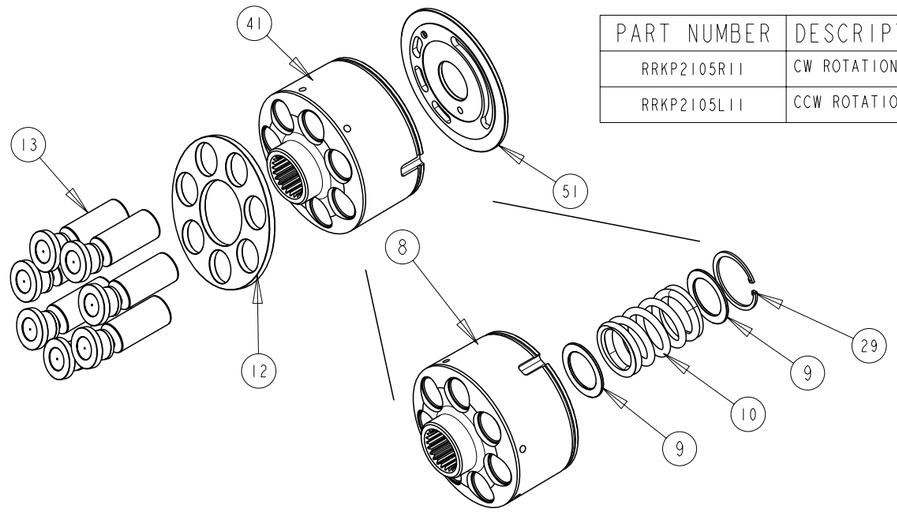
SAE BB
P2-105-0217-01□ FOR UNC
P2-105-0217-02□ FOR METRIC

(73) SAE C
P2-105-0218-01□ FOR UNC
P2-105-0218-02□ FOR METRIC

MAX VOLUME ASSEMBLY AND SERVO PISTON KIT



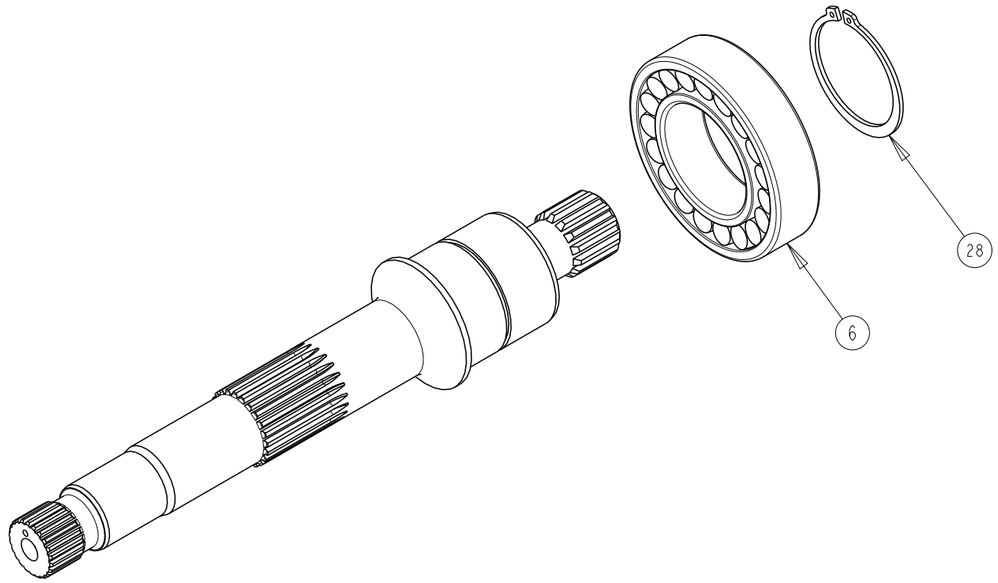
BARREL KIT AND ROTATION GROUP KIT



PART NUMBER	DESCRIPTION	
RRKP2105R11	CW ROTATION GROUP	A
RRKP2105L11	CCW ROTATION GROUP	A

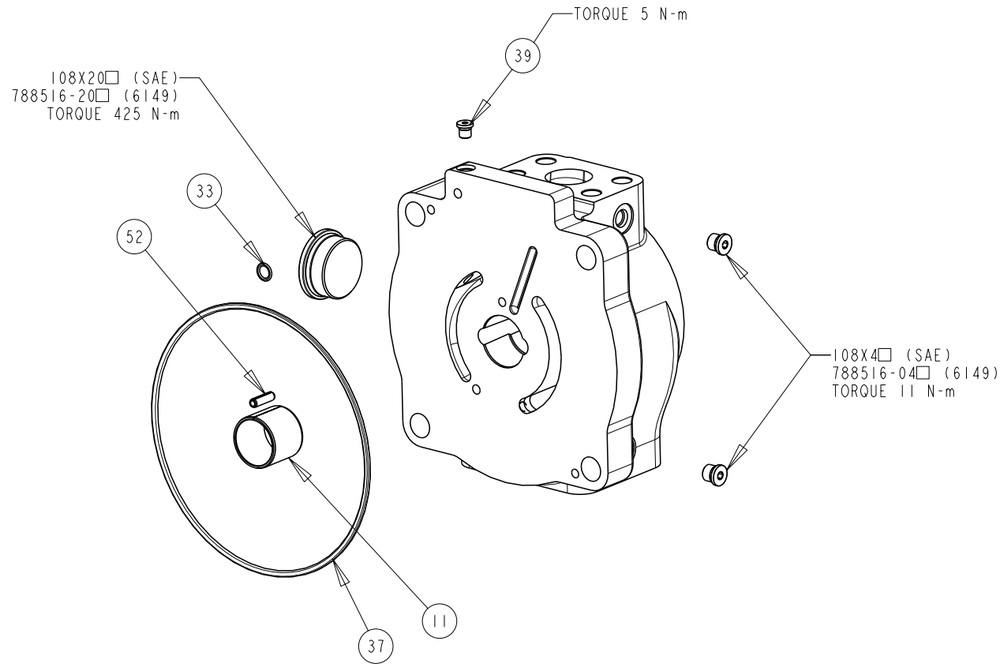
P2-105-0222-01 BARREL KIT

SHAFT ASSEMBLY KITS
ITEM 57



SHAFT ONLY	SHAFT ASSEMBLY	DESCRIPTION
P2-105-3525	P2-105-0225-36	C SPLINE THRU
P2-105-3519	P2-105-0225-40	D SPLINE THRU
P2-105-3533	P2-105-0225-46	C KEY THRU
P2-105-3535	P2-105-0225-48	CC KEY THRU
P2-105-3520	P2-105-0225-56	C SPLINE THRU NO UNDERCUT
P2-105-3546	P2-105-0225-60	D SPLINE THRU NO UNDERCUT

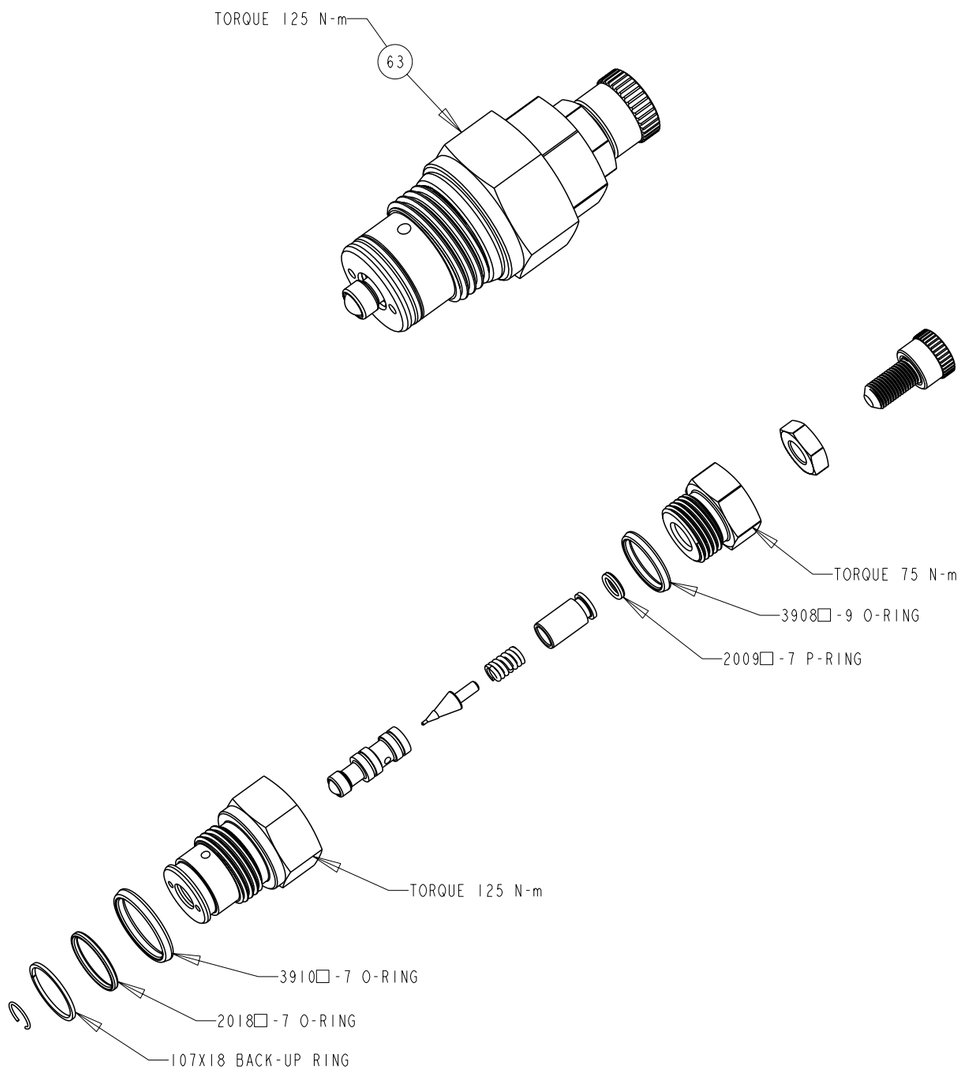
COVER ASSEMBLY KITS
ITEM 55



COVER ONLY	COVER ASSEMBLY	DESCRIPTION
P2-105-1013-01	P2-105-0226-01□	SIDE PORTS, CCW, UNC
P2-105-1013-02	P2-105-0226-02□	SIDE PORTS, CCW, UNC, THRU
P2-105-1013-03	P2-105-0226-03□	SIDE PORTS, CCW, METRIC
P2-105-1013-04	P2-105-0226-04□	SIDE PORTS, CCW, METRIC, THRU
P2-105-1014-01	P2-105-0226-05□	SIDE PORTS, CW, UNC
P2-105-1014-02	P2-105-0226-06□	SIDE PORTS, CW, UNC, THRU
P2-105-1014-03	P2-105-0226-07□	SIDE PORTS, CW, METRIC
P2-105-1014-04	P2-105-0226-08□	SIDE PORTS, CW, METRIC THRU

TORQUE CONTROL CARTRIDGE

P2-000-0803 □ - ITEM 63 (A)



ASSEMBLY, DIS-ASSEMBLY AND REPAIR NOTES

DISASSEMBLY STEPS FOR ENTIRE PUMP

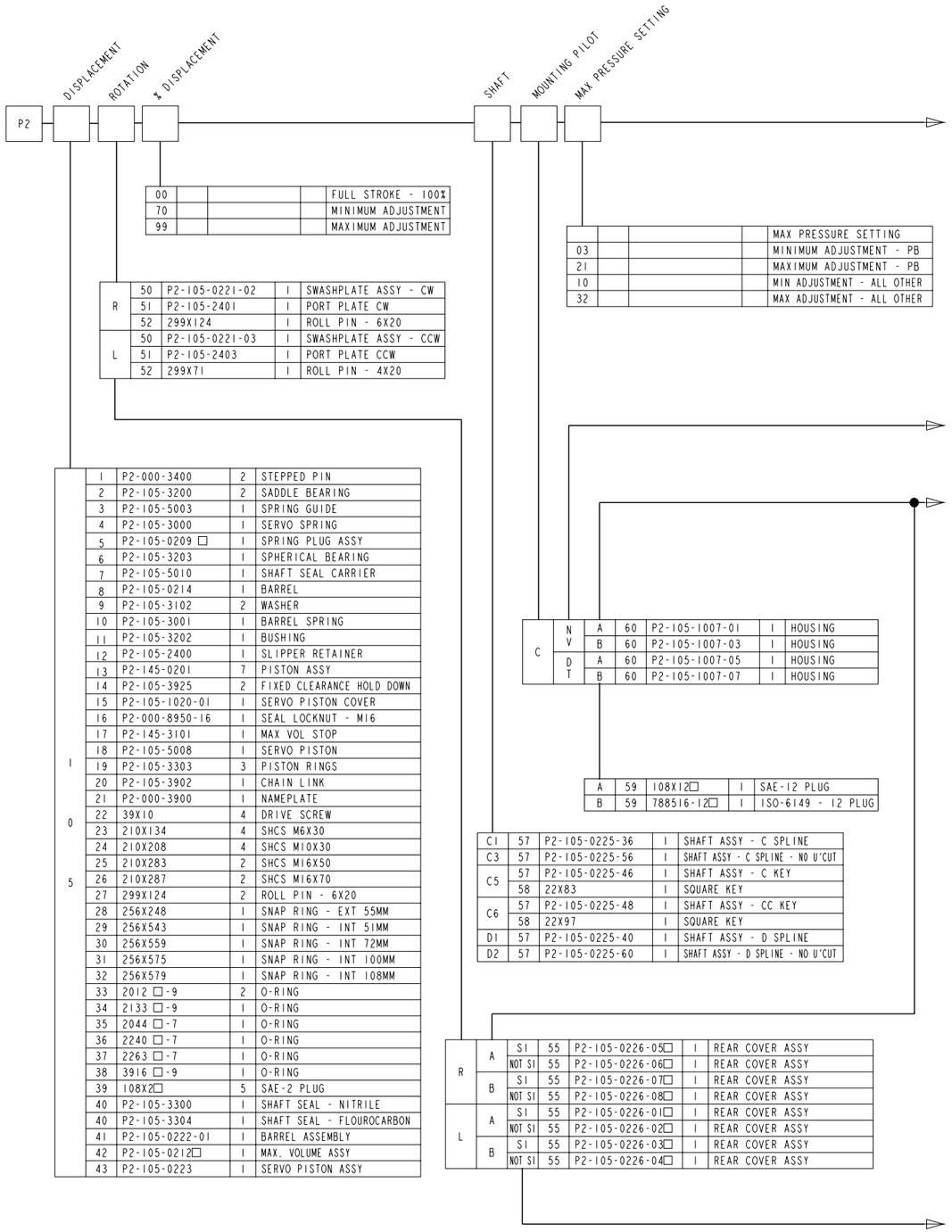
1. REMOVE COVER SCREWS AND COVER
2. DE-STROKE PUMP TO MINIMUM ANGLE WITH MAX VOLUME SCREW
3. REMOVE FIXED CLEARANCE HOLD DOWN SCREWS AND HOLD DOWN PARTS
4. REMOVE ROTATING GROUP (BARREL, SLIPPER RETAINER AND PISTONS)
5. REMOVE SHAFT SEAL CARRIER
6. REMOVE SHAFT
7. REMOVE BIAS SPRING PLUG, SPRING AND RETAINER
8. REMOVE MAX. VOLUME ASSY
9. REMOVE SERVO PISTON ASSY.
10. REMOVE SWASHPLATE ASSEMBLY

SHAFT SEAL REPLACEMENT

1. REMOVE SEAL CARRIER ONLY
2. REMOVE OLD SEAL
3. INSPECT SHAFT
4. IF SHAFT IS WORN INSTALL NEW SEAL IN INNER LOCATION FOR SINGLE SEAL APPLICATIONS (SEE SHEET 1). REPLACE SHAFT FOR DUAL SEAL APPLICATIONS

TITLE	DRAWING NUMBER	REVISION	STATUS	
SERVICE PARTS P2105 DESIGN SERIES II	P2-105-0403	A	PR	SHEET 7 OF 7

DRAWN BY	DATE	CHANGED BY	DATE	ECN NUMBER
E. BOONE	15APR02	B. LARKIN	23MAY02	133522



00				FULL STROKE - 100%
70				MINIMUM ADJUSTMENT
99				MAXIMUM ADJUSTMENT

					MAX PRESSURE SETTING
03					MINIMUM ADJUSTMENT - PB
21					MAXIMUM ADJUSTMENT - PB
10					MIN ADJUSTMENT - ALL OTHER
32					MAX ADJUSTMENT - ALL OTHER

R	50	P2-105-0221-02	1	SWASHPLATE ASSY - CW
	51	P2-105-2401	1	PORT PLATE CW
	52	299X124	1	ROLL PIN - 6X20
L	50	P2-105-0221-03	1	SWASHPLATE ASSY - CCW
	51	P2-105-2403	1	PORT PLATE CCW
	52	299X71	1	ROLL PIN - 4X20

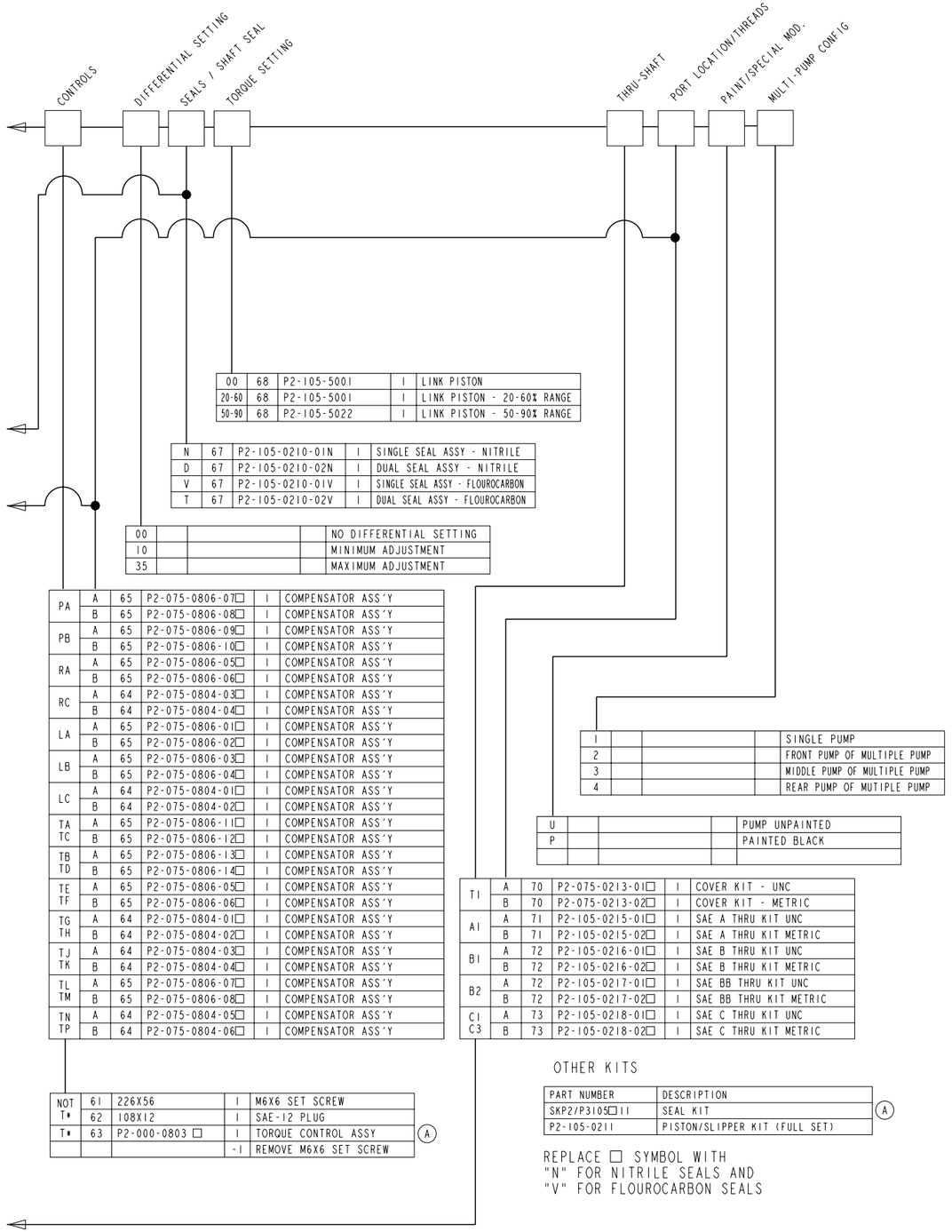
1	P2-000-3400	2	STEPPED PIN
2	P2-105-3200	2	SADDLE BEARING
3	P2-105-5003	1	SPRING GUIDE
4	P2-105-3000	1	SERVO SPRING
5	P2-105-0209 □	1	SPRING PLUG ASSY
6	P2-105-3203	1	SPHERICAL BEARING
7	P2-105-5010	1	SHAFT SEAL CARRIER
8	P2-105-0214	1	BARREL
9	P2-105-3102	2	WASHER
10	P2-105-3001	1	BARREL SPRING
11	P2-105-3202	1	BUSHING
12	P2-105-2400	1	SLIPPER RETAINER
13	P2-145-0201	7	PISTON ASSY
14	P2-105-3925	2	FIXED CLEARANCE HOLD DOWN
15	P2-105-1020-01	1	SERVO PISTON COVER
16	P2-000-8950-16	1	SEAL LOCKNUT - M16
17	P2-145-3101	1	MAX VOL STOP
18	P2-105-5008	1	SERVO PISTON
19	P2-105-3303	3	PISTON RINGS
20	P2-105-3902	1	CHAIN LINK
21	P2-000-3900	1	NAMEPLATE
22	39X10	4	DRIVE SCREW
23	210X134	4	SHCS M6X30
24	210X208	4	SHCS M10X30
25	210X283	2	SHCS M16X50
26	210X287	2	SHCS M16X70
27	299X124	2	ROLL PIN - 6X20
28	256X248	1	SNAP RING - EXT 55MM
29	256X543	1	SNAP RING - INT 51MM
30	256X559	1	SNAP RING - INT 72MM
31	256X575	1	SNAP RING - INT 100MM
32	256X579	1	SNAP RING - INT 108MM
33	2012 □-9	2	O-RING
34	2133 □-9	1	O-RING
35	2044 □-7	1	O-RING
36	2240 □-7	1	O-RING
37	2263 □-7	1	O-RING
38	3916 □-9	1	O-RING
39	108X2□	5	SAE-2 PLUG
40	P2-105-3300	1	SHAFT SEAL - NITRILE
40	P2-105-3304	1	SHAFT SEAL - FLOUROCARBON
41	P2-105-0222-01	1	BARREL ASSEMBLY
42	P2-105-0212□	1	MAX. VOLUME ASSY
43	P2-105-0223	1	SERVO PISTON ASSY

C	NV	A	60	P2-105-1007-01	1	HOUSING
		B	60	P2-105-1007-03	1	HOUSING
	DT	A	60	P2-105-1007-05	1	HOUSING
		B	60	P2-105-1007-07	1	HOUSING

A	59	108X12□	1	SAE-12 PLUG
B	59	788516-12□	1	ISO-6149 - 12 PLUG

C1	57	P2-105-0225-36	1	SHAFT ASSY - C SPLINE
C3	57	P2-105-0225-56	1	SHAFT ASSY - C SPLINE - NO U'CUT
C5	57	P2-105-0225-46	1	SHAFT ASSY - C KEY
	58	22X83	1	SQUARE KEY
C6	57	P2-105-0225-48	1	SHAFT ASSY - CC KEY
	58	22X97	1	SQUARE KEY
D1	57	P2-105-0225-40	1	SHAFT ASSY - D SPLINE
D2	57	P2-105-0225-60	1	SHAFT ASSY - D SPLINE - NO U'CUT

R	A	SI	55	P2-105-0226-05□	1	REAR COVER ASSY
		NOT SI	55	P2-105-0226-06□	1	REAR COVER ASSY
	B	SI	55	P2-105-0226-07□	1	REAR COVER ASSY
		NOT SI	55	P2-105-0226-08□	1	REAR COVER ASSY
L	A	SI	55	P2-105-0226-01□	1	REAR COVER ASSY
		NOT SI	55	P2-105-0226-02□	1	REAR COVER ASSY
	B	SI	55	P2-105-0226-03□	1	REAR COVER ASSY
		NOT SI	55	P2-105-0226-04□	1	REAR COVER ASSY



00	68	P2-105-5001	1	LINK PISTON
20-60	68	P2-105-5001	1	LINK PISTON - 20-60% RANGE
50-90	68	P2-105-5022	1	LINK PISTON - 50-90% RANGE

N	67	P2-105-0210-01N	1	SINGLE SEAL ASSY - NITRILE
D	67	P2-105-0210-02N	1	DUAL SEAL ASSY - NITRILE
V	67	P2-105-0210-01V	1	SINGLE SEAL ASSY - FLOUROCARBON
T	67	P2-105-0210-02V	1	DUAL SEAL ASSY - FLOUROCARBON

00				NO DIFFERENTIAL SETTING
10				MINIMUM ADJUSTMENT
35				MAXIMUM ADJUSTMENT

PA	A	65	P2-075-0806-07□	1	COMPENSATOR ASS'Y
	B	65	P2-075-0806-08□	1	COMPENSATOR ASS'Y
PB	A	65	P2-075-0806-09□	1	COMPENSATOR ASS'Y
	B	65	P2-075-0806-10□	1	COMPENSATOR ASS'Y
RA	A	65	P2-075-0806-05□	1	COMPENSATOR ASS'Y
	B	65	P2-075-0806-06□	1	COMPENSATOR ASS'Y
RC	A	64	P2-075-0804-03□	1	COMPENSATOR ASS'Y
	B	64	P2-075-0804-04□	1	COMPENSATOR ASS'Y
LA	A	65	P2-075-0806-01□	1	COMPENSATOR ASS'Y
	B	65	P2-075-0806-02□	1	COMPENSATOR ASS'Y
LB	A	65	P2-075-0806-03□	1	COMPENSATOR ASS'Y
	B	65	P2-075-0806-04□	1	COMPENSATOR ASS'Y
LC	A	64	P2-075-0804-01□	1	COMPENSATOR ASS'Y
	B	64	P2-075-0804-02□	1	COMPENSATOR ASS'Y
TA TC	A	65	P2-075-0806-11□	1	COMPENSATOR ASS'Y
	B	65	P2-075-0806-12□	1	COMPENSATOR ASS'Y
TB TD	A	65	P2-075-0806-13□	1	COMPENSATOR ASS'Y
	B	65	P2-075-0806-14□	1	COMPENSATOR ASS'Y
TE TF	A	65	P2-075-0806-05□	1	COMPENSATOR ASS'Y
	B	65	P2-075-0806-06□	1	COMPENSATOR ASS'Y
TG TH	A	64	P2-075-0804-01□	1	COMPENSATOR ASS'Y
	B	64	P2-075-0804-02□	1	COMPENSATOR ASS'Y
TJ TK	A	64	P2-075-0804-03□	1	COMPENSATOR ASS'Y
	B	64	P2-075-0804-04□	1	COMPENSATOR ASS'Y
TL TM	A	65	P2-075-0806-07□	1	COMPENSATOR ASS'Y
	B	65	P2-075-0806-08□	1	COMPENSATOR ASS'Y
TN TP	A	64	P2-075-0804-05□	1	COMPENSATOR ASS'Y
	B	64	P2-075-0804-06□	1	COMPENSATOR ASS'Y

NOT T*	61	226X56	1	M6X6 SET SCREW	
	62	108X12	1	SAE-12 PLUG	
T*	63	P2-000-0803 □	1	TORQUE CONTROL ASSY	(A)
			-1	REMOVE M6X6 SET SCREW	

1				SINGLE PUMP
2				FRONT PUMP OF MULTIPLE PUMP
3				MIDDLE PUMP OF MULTIPLE PUMP
4				REAR PUMP OF MUTIPLE PUMP

U				PUMP UNPAINTED
P				PAINTED BLACK

T1	A	70	P2-075-0213-01□	1	COVER KIT - UNC	
	B	70	P2-075-0213-02□	1	COVER KIT - METRIC	
A1	A	71	P2-105-0215-01□	1	SAE A THRU KIT UNC	
	B	71	P2-105-0215-02□	1	SAE A THRU KIT METRIC	
B1	A	72	P2-105-0216-01□	1	SAE B THRU KIT UNC	
	B	72	P2-105-0216-02□	1	SAE B THRU KIT METRIC	
B2	A	72	P2-105-0217-01□	1	SAE BB THRU KIT UNC	
	B	72	P2-105-0217-02□	1	SAE BB THRU KIT METRIC	
C1 C3	A	73	P2-105-0218-01□	1	SAE C THRU KIT UNC	
	B	73	P2-105-0218-02□	1	SAE C THRU KIT METRIC	

OTHER KITS

PART NUMBER	DESCRIPTION	
SKP2/P3105□11	SEAL KIT	(A)
P2-105-0211	PISTON/SLIPPER KIT (FULL SET)	

REPLACE □ SYMBOL WITH
"N" FOR NITRILE SEALS AND
"V" FOR FLOUROCARBON SEALS

Parker Hannifin GmbH
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Hydraulic Pump/Motor Division
Greeneville, Tennessee