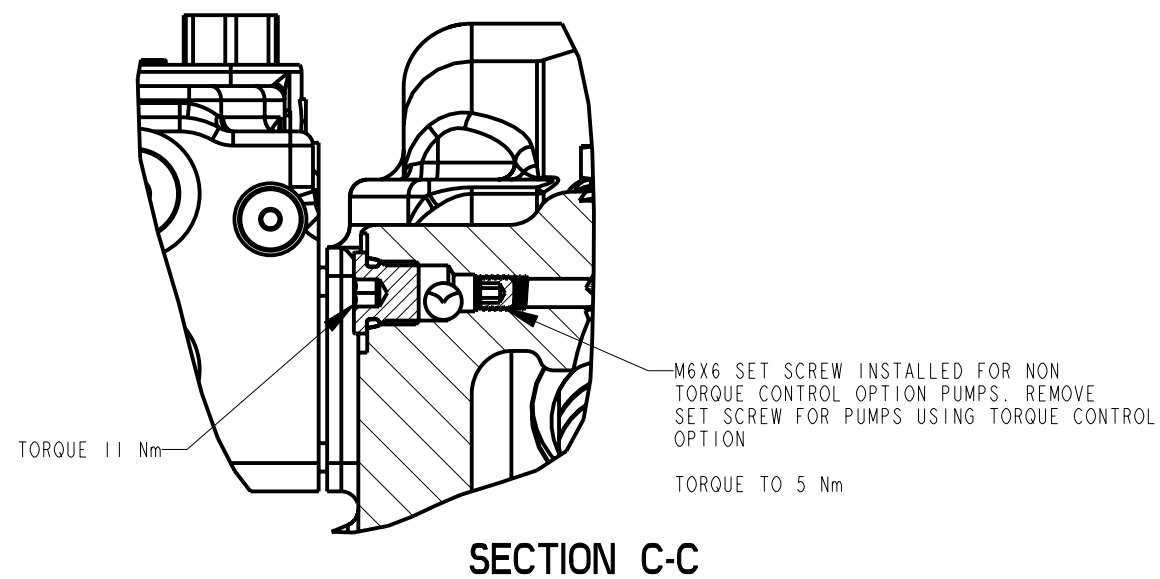
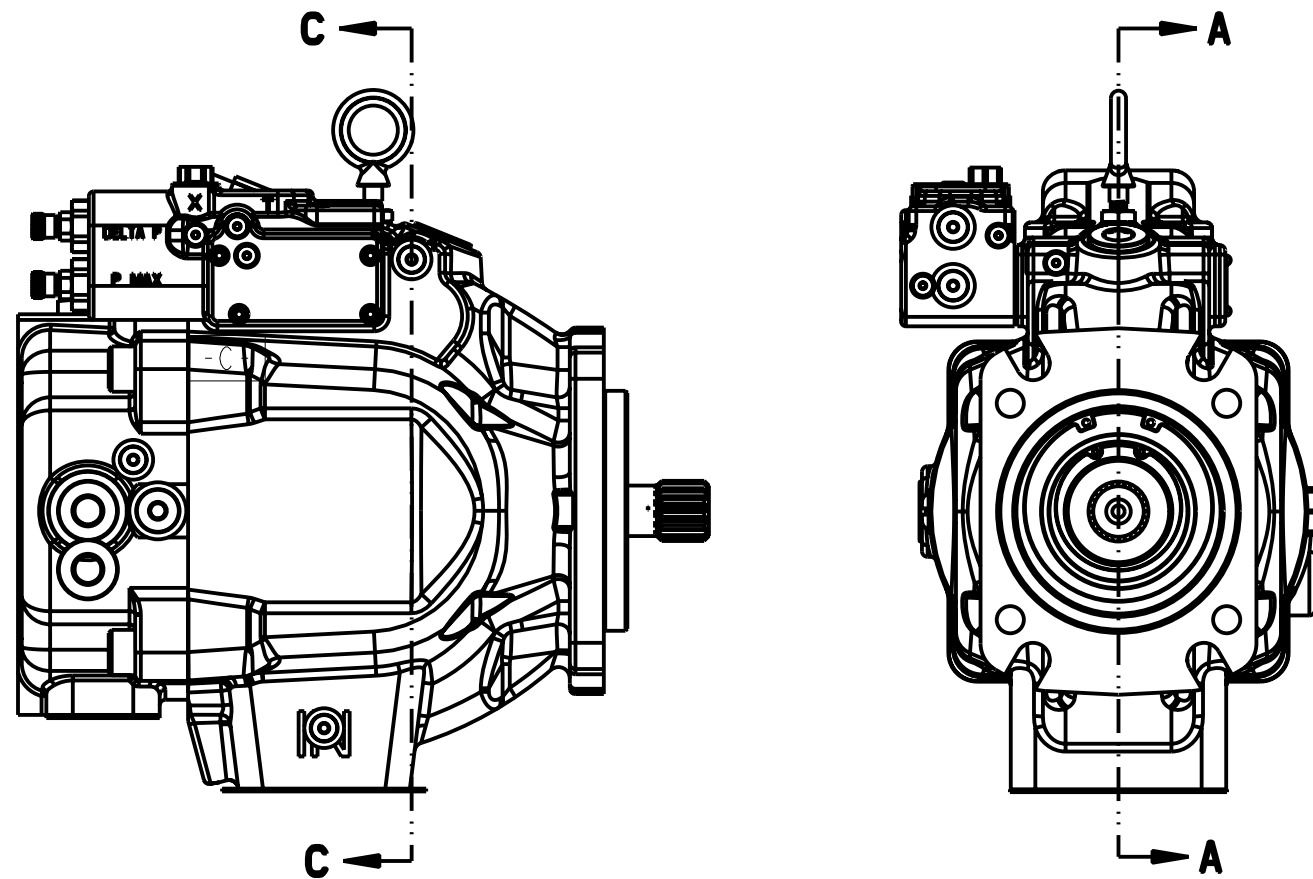
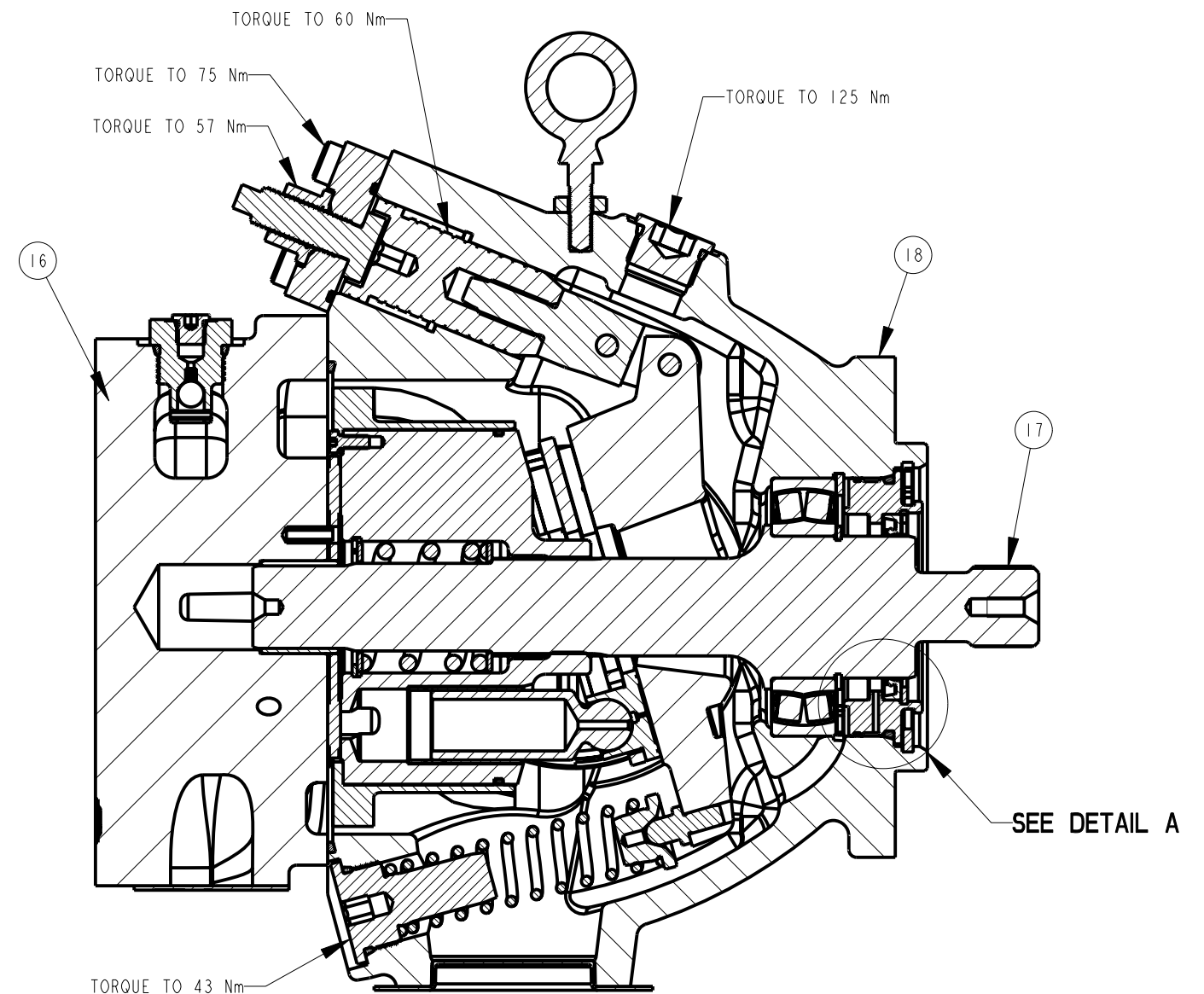


TITLE	SERVICE PARTS P3105 DESIGN SERIES 15	DRAWING NUMBER	P2-105-0412	REVISION	NONE	STATUS	PR	SHEET 1 OF 8
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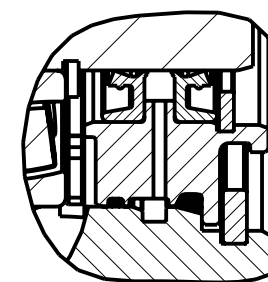


- NOTES:
1. PUMP SHOWN IS A RIGHT HAND (CW) ROTATION PUMP. LEFT HAND (CCW) ROTATION PUMPS HAVE OUTLET GAUGE PORT REVERSED.
 2. D & E OPTION SHOWN

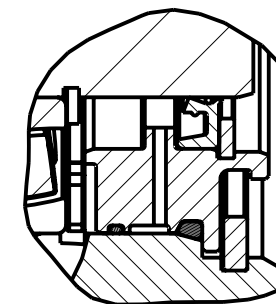
DRAWN BY	L. NAGEL	DATE	10JUL09	CHANGED BY	-	DATE	-	ECN NUMBER	710509
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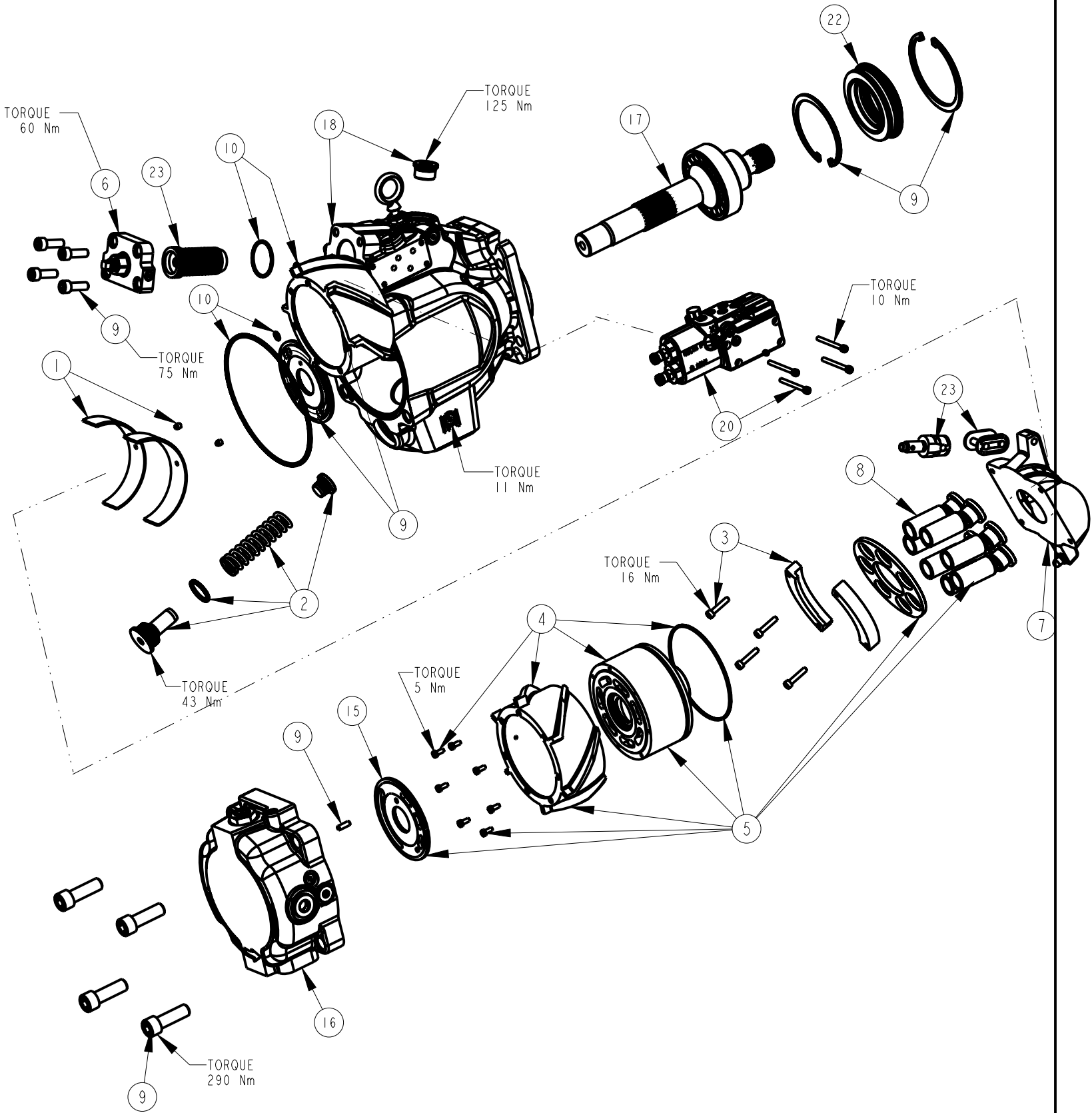
SECTION A-A



DETAIL A
DUAL SHAFT SEAL ASSEMBLY
P2-105-0210-02□

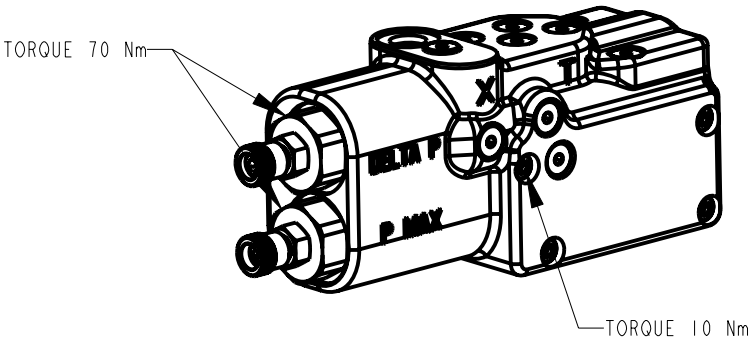


DETAIL A
SINGLE SHAFT SEAL ASSEMBLY
P2-105-0210-01□



COMPENSATOR KITS
ITEM 20

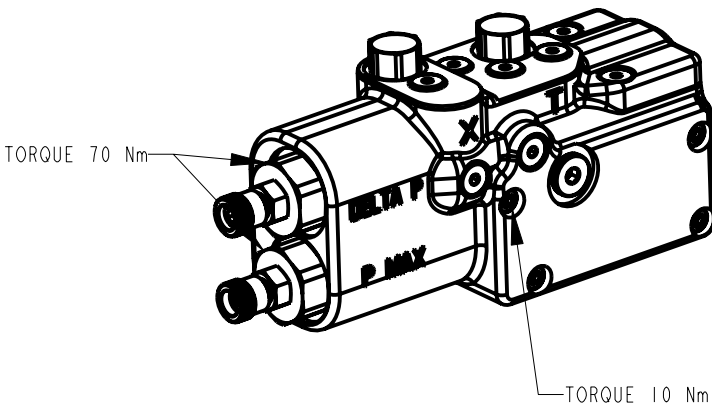
P2-075-0806-XX SPOOL OPTIONS - ITEM 20
(MODIFACATION D&E)



D & E	PA	A	65	P2-075-0806-07	1	COMPENSATOR ASS'Y
		B	65	P2-075-0806-08	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
	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
	TA	A	65	P2-075-0806-11	1	COMPENSATOR ASS'Y
		B	65	P2-075-0806-12	1	COMPENSATOR ASS'Y
	TB	A	65	P2-075-0806-13	1	COMPENSATOR ASS'Y
		B	65	P2-075-0806-14	1	COMPENSATOR ASS'Y

WHEN ORDERING SPARE PART COMPENSATOR
PLEASE SPECIFY MAX. PRESSURE AS WELL AS
DELTA P PRESSURE IN YOUR ORDER

P2-145-0807-XX SPOOL OPTIONS - ITEM 20
(MODIFICATION U&P)



NOT D & E	PA	A	65	P2-145-0807-07	1	COMPENSATOR ASS'Y
		B	65	P2-145-0807-08	1	COMPENSATOR ASS'Y
	RA	A	65	P2-145-0807-05	1	COMPENSATOR ASS'Y
		B	65	P2-145-0807-06	1	COMPENSATOR ASS'Y
	LA	A	65	P2-145-0807-01	1	COMPENSATOR ASS'Y
		B	65	P2-145-0807-02	1	COMPENSATOR ASS'Y
	LB	A	65	P2-145-0807-03	1	COMPENSATOR ASS'Y
		B	65	P2-145-0807-04	1	COMPENSATOR ASS'Y
	TA	A	65	P2-145-0807-11	1	COMPENSATOR ASS'Y
		B	65	P2-145-0807-12	1	COMPENSATOR ASS'Y
	TB	A	65	P2-145-0807-13	1	COMPENSATOR ASS'Y
		B	65	P2-145-0807-14	1	COMPENSATOR ASS'Y

WHEN ORDERING SPARE PART COMPENSATOR
PLEASE SPECIFY MAX. PRESSURE AS WELL AS
DELTA P PRESSURE IN YOUR ORDER

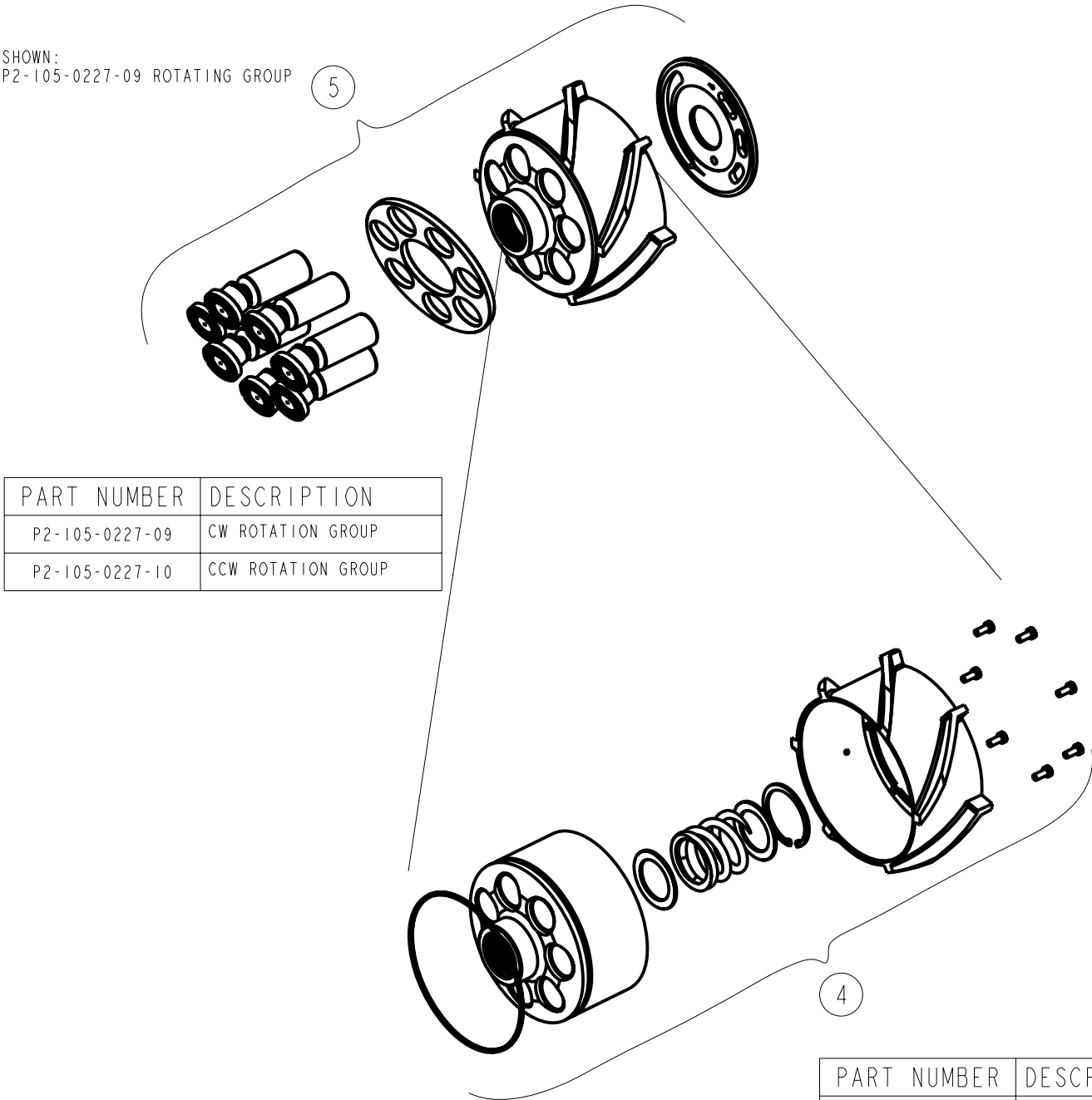


TITLE	SERVICE PARTS P3105 DESIGN SERIES 15	DRAWING NUMBER	P2-105-0412	REVISION	NONE	STATUS	PR	SHEET	3 OF 8
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ROTATING GROUP
ITEM 5

BARREL KIT
ITEM 4

SHOWN:
P2-105-0227-09 ROTATING GROUP



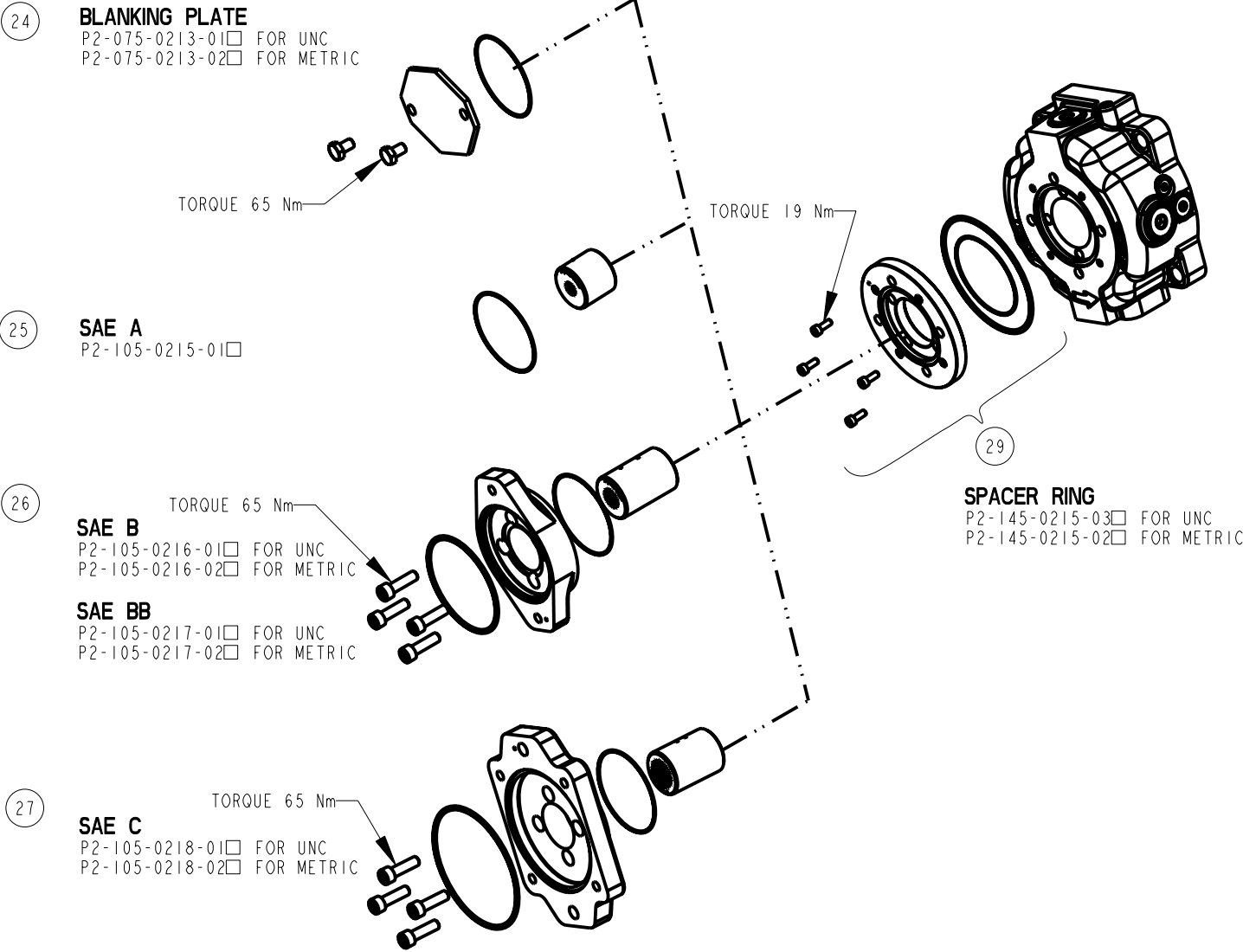
PART NUMBER	DESCRIPTION
P2-105-0227-09	CW ROTATION GROUP
P2-105-0227-10	CCW ROTATION GROUP

PART NUMBER	DESCRIPTION
P2-105-0222-10	CW BARREL KIT
P2-105-0222-11	CCW BARREL KIT



DRAWN BY	DATE	CHANGED BY	DATE	ECN NUMBER
L. NAGEL	10JUL09	-	-	710509

THRU DRIVE KITS



24 **BLANKING PLATE**
P2-075-0213-01 ☐ FOR UNC
P2-075-0213-02 ☐ FOR METRIC

25 **SAE A**
P2-105-0215-01 ☐

26 **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

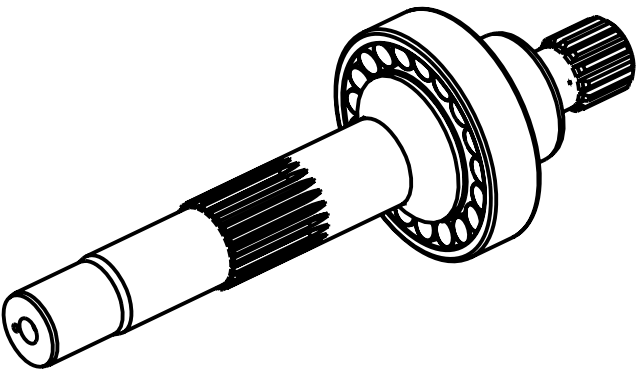
27 **SAE C**
P2-105-0218-01 ☐ FOR UNC
P2-105-0218-02 ☐ FOR METRIC

29 **SPACER RING**
P2-145-0215-03 ☐ FOR UNC
P2-145-0215-02 ☐ FOR METRIC



SHAFT ASSEMBLY KITS

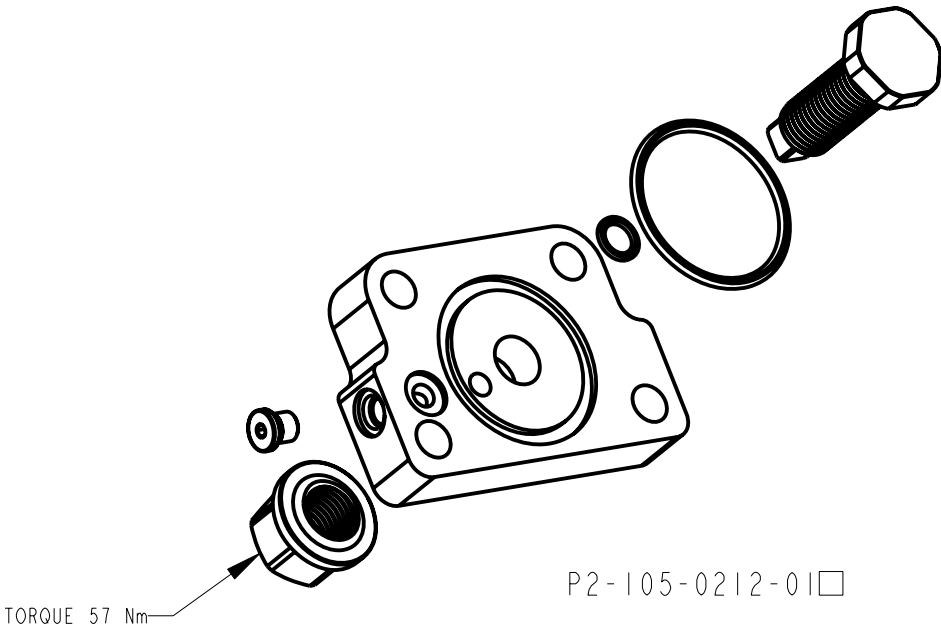
ITEM 17



SHAFT ASSEMBLY	DESCRIPTION
P2-105-0225-36	C SPLINE THRU
P2-105-0225-05	C SPLINE NOT THRU
P2-105-0225-40	D SPLINE THRU
P2-105-0225-09	D SPLINE NOT THRU
P2-105-0225-46	C KEY THRU
P2-105-0225-15	C KEY NOT THRU
P2-105-0225-48	CC KEY THRU
P2-105-0225-17	CC KEY NOT THRU
P2-105-0225-38	CC SPLINE THRU
P2-105-0225-07	CC SPLINE NOT THRU
P2-105-0225-56	C SPLINE THRU NO UNDERCUT
P2-105-0225-25	C SPLINE NOT THRU NO UNDERCUT
P2-105-0225-60	D SPLINE THRU NO UNDERCUT

MAX. VOLUME ASSEMBLY

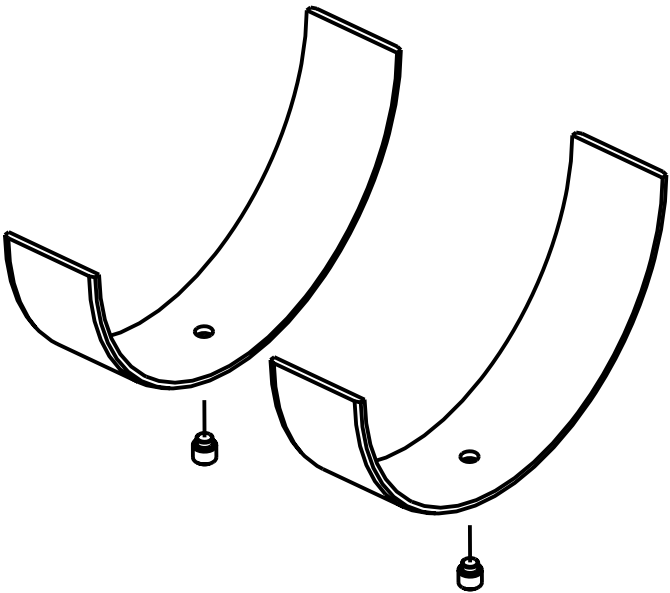
ITEM 6



P2-105-0212-01□

KIT SADDLE BEARING

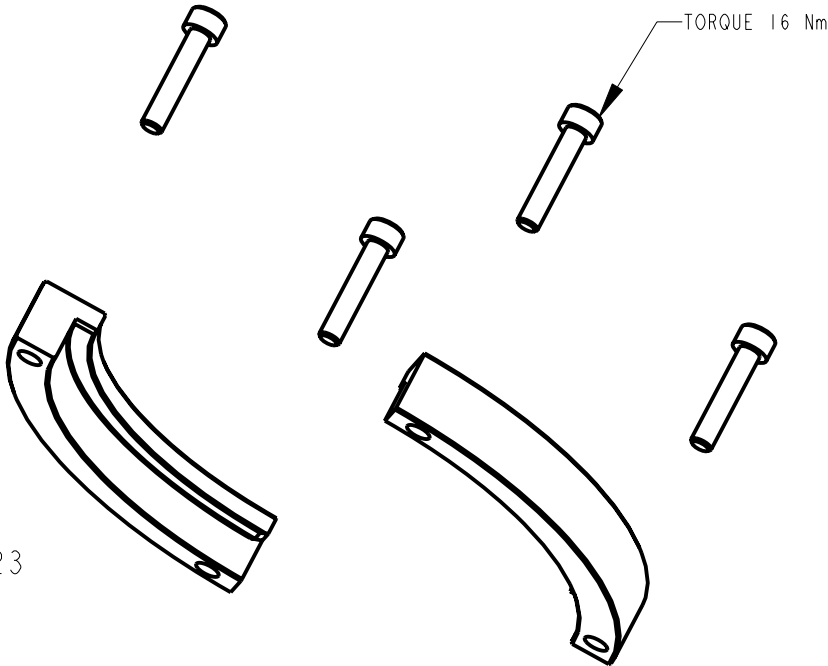
ITEM 1



P2-105-0229-21

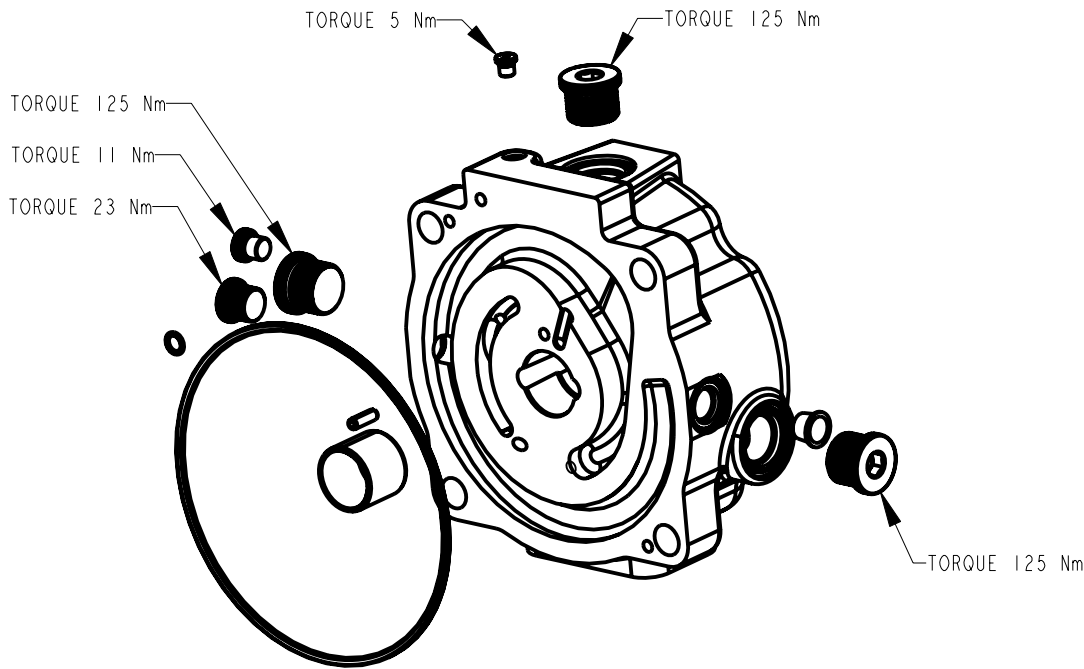
KIT FIXED CLEARANCE HOLD DOWN

ITEM 3



P2-105-0229-23

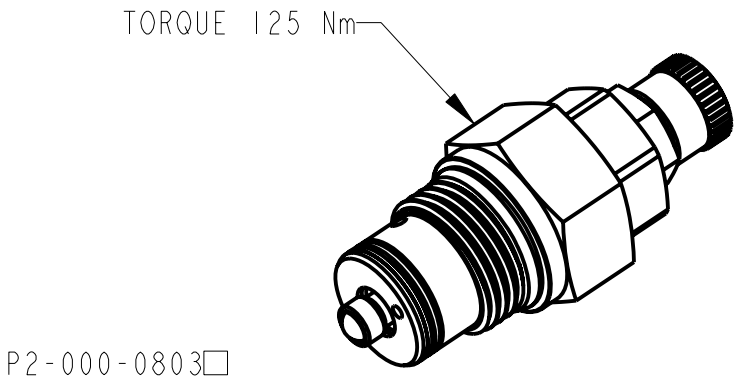
COVER ASSEMBLY KITS
ITEM 16



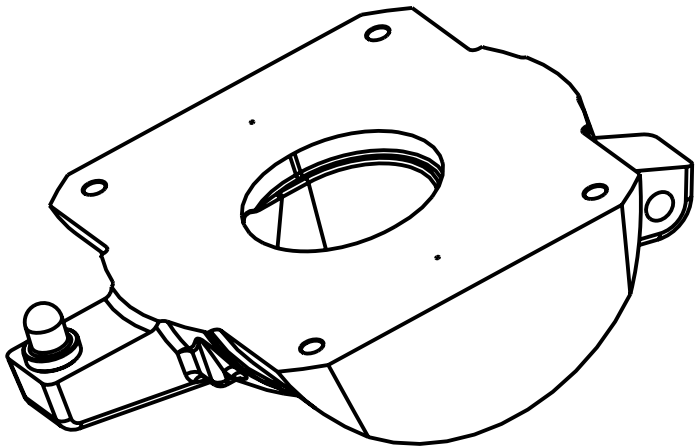
COVER ASSEMBLY	DESCRIPTION	CODE
P2-105-0226-09□	SIDE PORT, CCW, UNC	U & P
P2-105-0226-10□	SIDE PORT, CCW, UNC, THRU	U & P
P2-105-0226-11□	SIDE PORT, CCW, METRIC	U & P
P2-105-0226-12□	SIDE PORT, CCW, METRIC, THRU	U & P
P2-105-0226-37□	SIDE PORT, CCW, UNC, DRAINS	D & E
P2-105-0226-38□	SIDE PORT, CCW, UNC, THRU, DRAINS	D & E
P2-105-0226-39□	SIDE PORT, CCW, METRIC, DRAINS	D & E
P2-105-0226-40□	SIDE PORT, CCW, METRIC, THRU, DRAINS	D & E
P2-105-0226-13□	SIDE PORT, CW, UNC	U & P
P2-105-0226-14□	SIDE PORT, CW, UNC, THRU	U & P
P2-105-0226-15□	SIDE PORT, CW, METRIC	U & P
P2-105-0226-16□	SIDE PORT, CW, METRIC, THRU	U & P
P2-105-0226-41□	SIDE PORT, CW, UNC, DRAINS	D & E
P2-105-0226-42□	SIDE PORT, CW, UNC, THRU, DRAINS	D & E
P2-105-0226-43□	SIDE PORT, CW, METRIC, DRAINS	D & E
P2-105-0226-44□	SIDE PORT, CW, METRIC, THRU, DRAINS	D & E



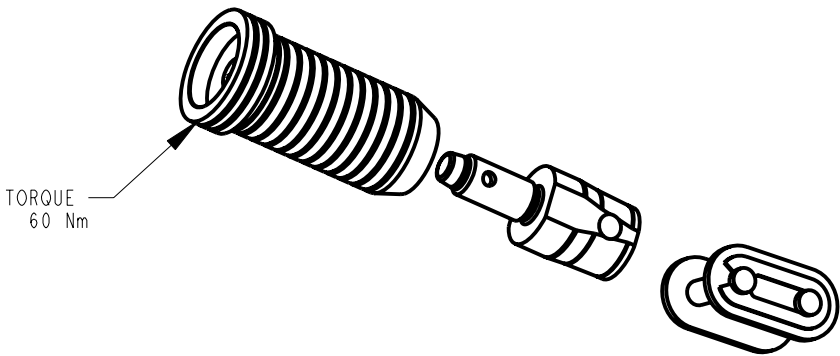
TORQUE CONTROL CARTRIDGE
ITEM 19



KIT SWASH PLATE
ITEM 7

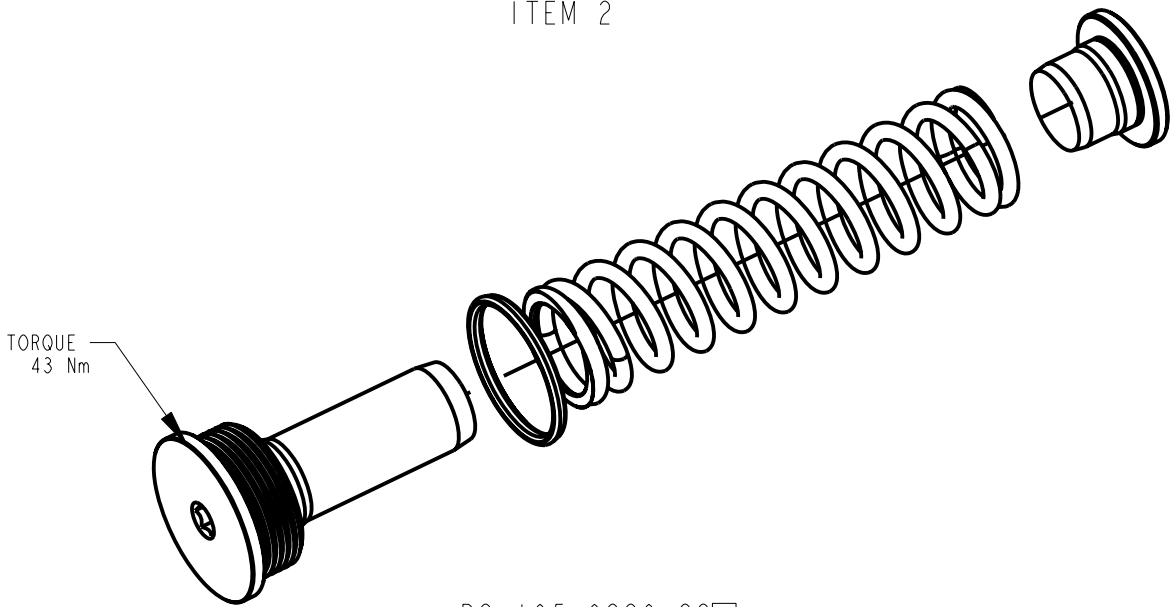


KIT SERVO PISTON
ITEM 23



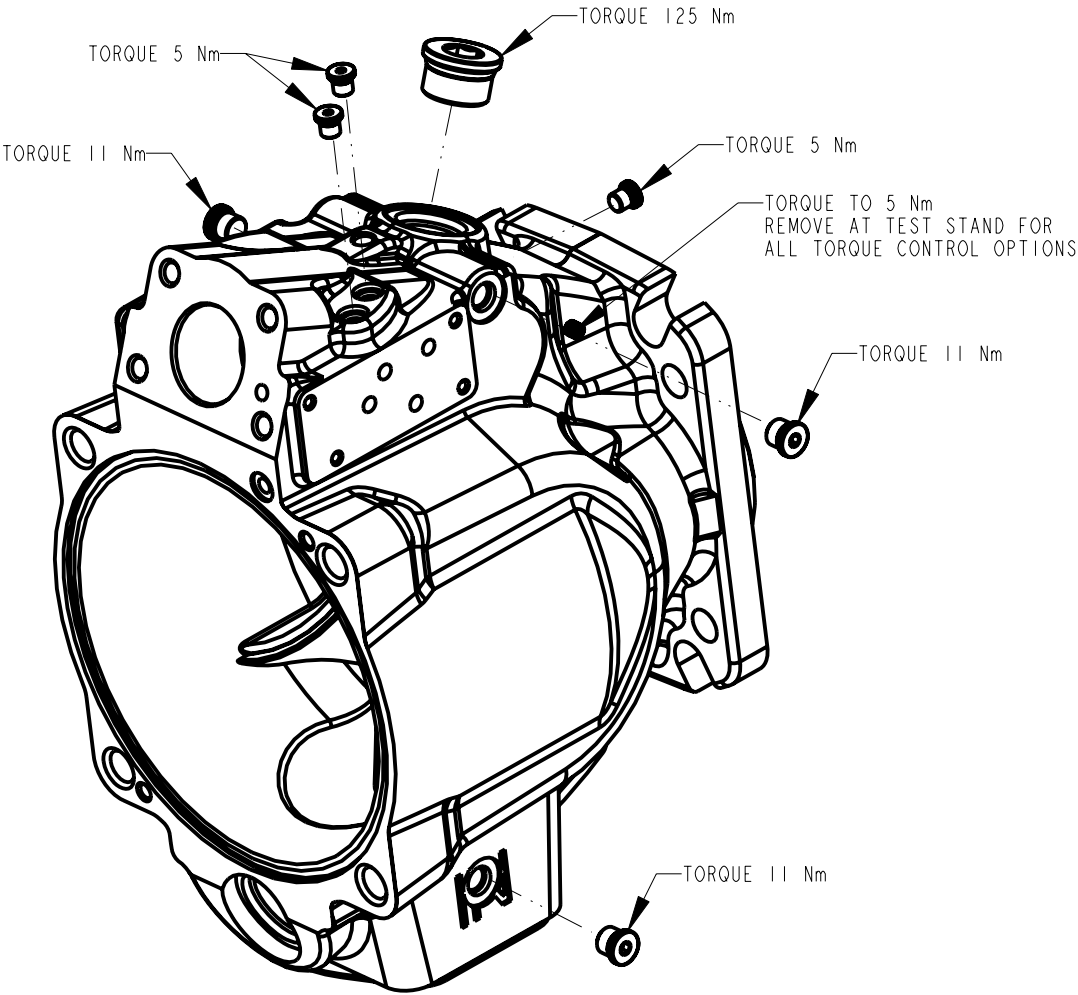
PART NUMBER	DESCRIPTION	
P2-105-0229-19	KIT SERVO PISTON 40%	USED EXEPT WITH TC & TD OPTION
P2-105-0229-20	KIT SERVO PISTON 70%	USED WITH TC & TD OPTION

KIT SERVO SPRING
ITEM 2



P2-105-0229-22□

KIT HOUSING
ITEM 18



PART NUMBER	DESCRIPTION
P2-105-0221-50□	MACHINING C-PILOT 1 SEAL METRIC HOUSING
P2-105-0221-51□	MACHINING C-PILOT 2 SEAL METRIC HOUSING
P2-105-0221-54□	MACHINING C-PILOT 1 SEAL UNC HOUSING
P2-105-0221-55□	MACHINING C-PILOT 2 SEAL UNC HOUSING

TITLE	DRAWING NUMBER	REVISION	STATUS	
SERVICE PARTS P3105 DESIGN SERIES 15	P2-105-0412	NONE	PR	SHEET 7 OF 8

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
 - 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



DRAWN BY	DATE	CHANGED BY	DATE	ECN NUMBER
L. NAGEL	10JUL09	-	-	710509

NOTES:



