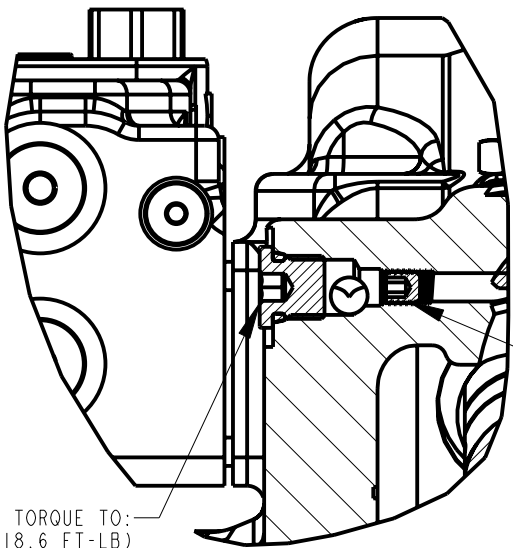
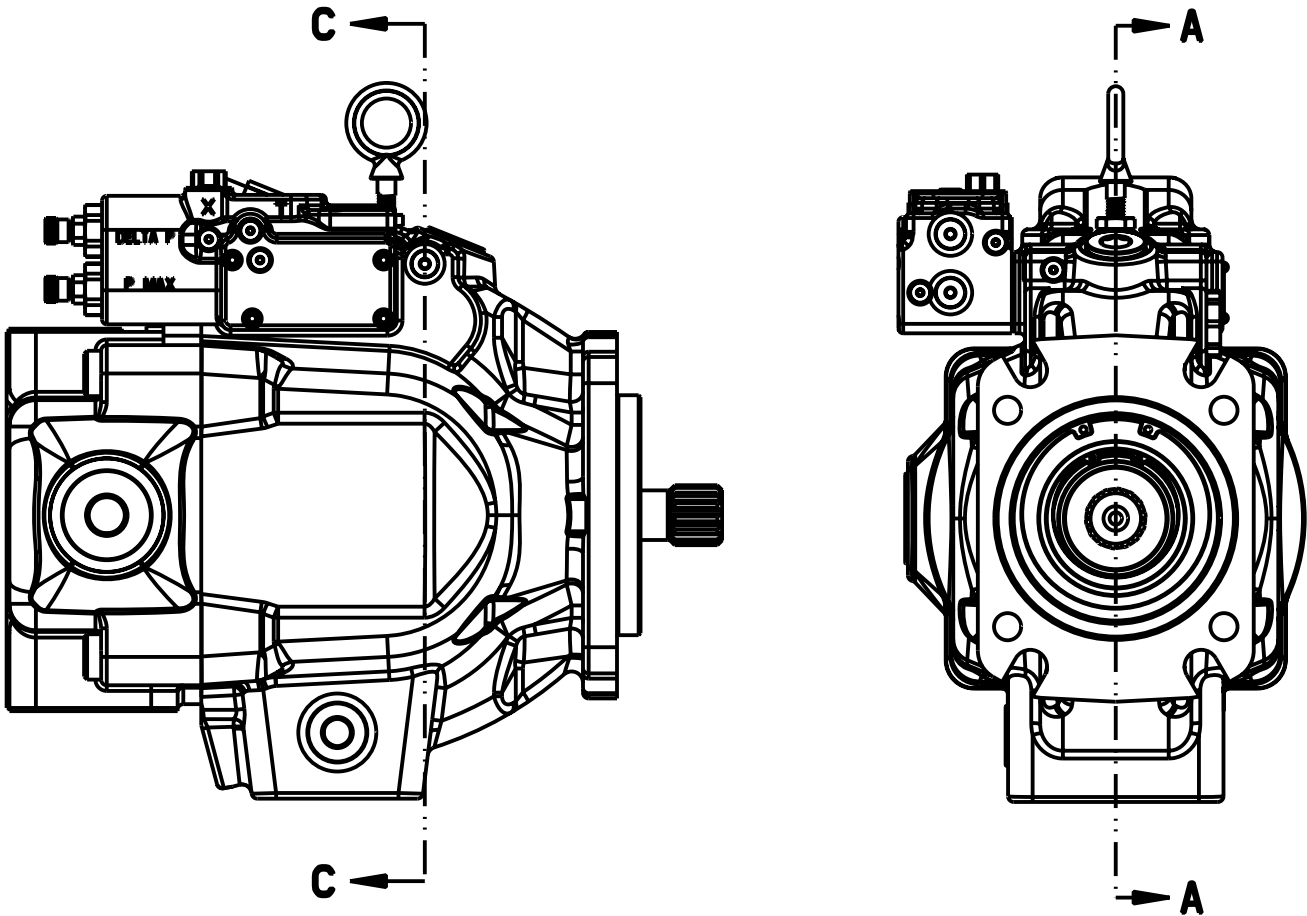


TITLE	SERVICE PARTS P2105 DESIGN SERIES 16	DRAWING NUMBER	P2-105-0413	REVISION	NONE	STATUS	PR	SHEET 1 OF 8
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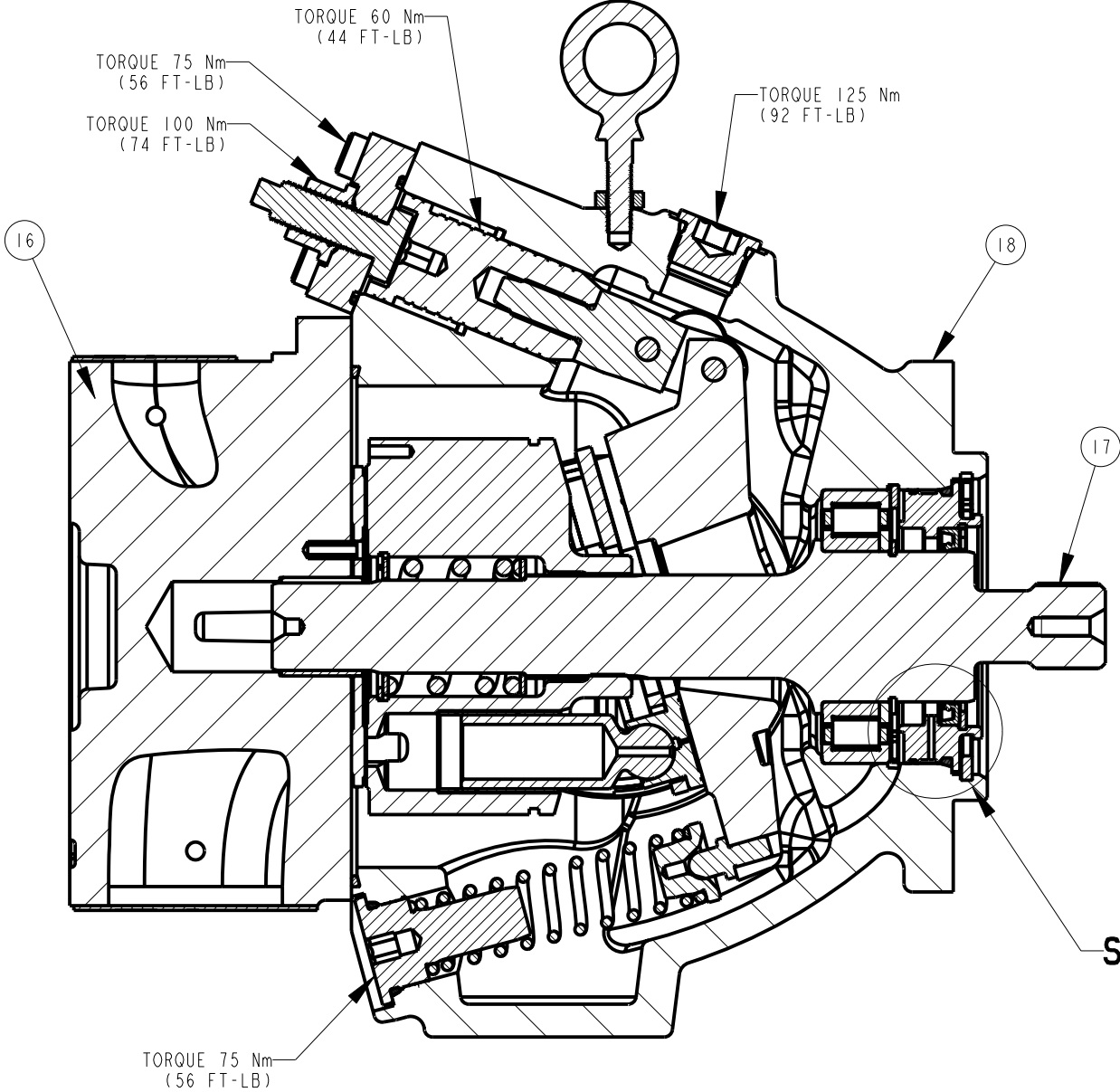


TORQUE TO:
25 Nm (18.6 FT-LB)
ISO PLUG P2-000-8964-04□;
15 Nm (11 FT-LB)
SAE PLUG P2-000-8960-04□

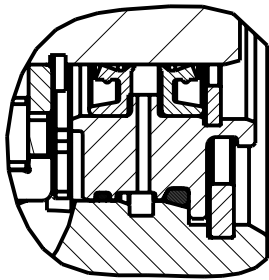
SECTION C-C

TORQUE TO 5 Nm
(45 IN-LB)

DRAWN BY	L. NAGEL	DATE	12FEB13	CHANGED BY	-	DATE	-	ECN NUMBER	709912
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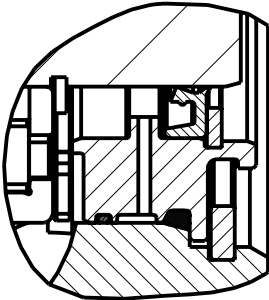


SECTION A-A



DETAIL A

DUAL SHAFT SEAL ASSEMBLY (D/T/Q OPTION)
P2-105-0210-02□

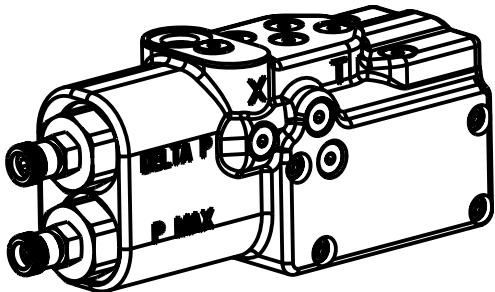


DETAIL A

SINGLE SHAFT SEAL ASSEMBLY (N/V/B OPTION)
P2-105-0210-01□



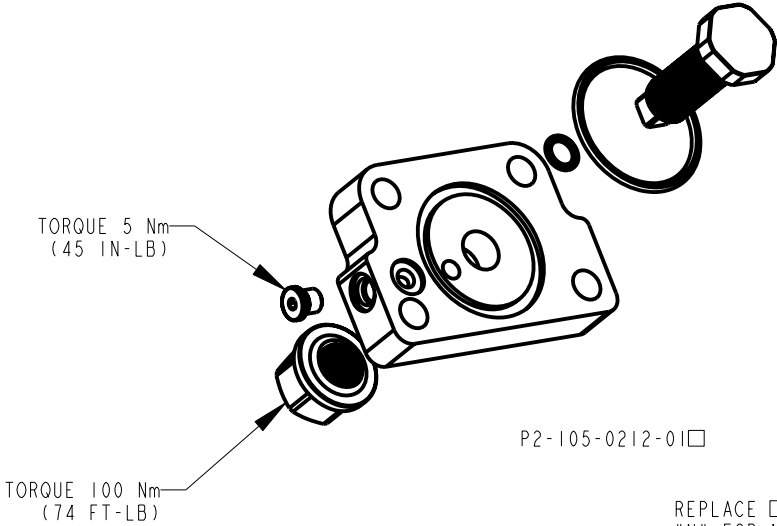
COMPENSATOR KIT ITEM 20



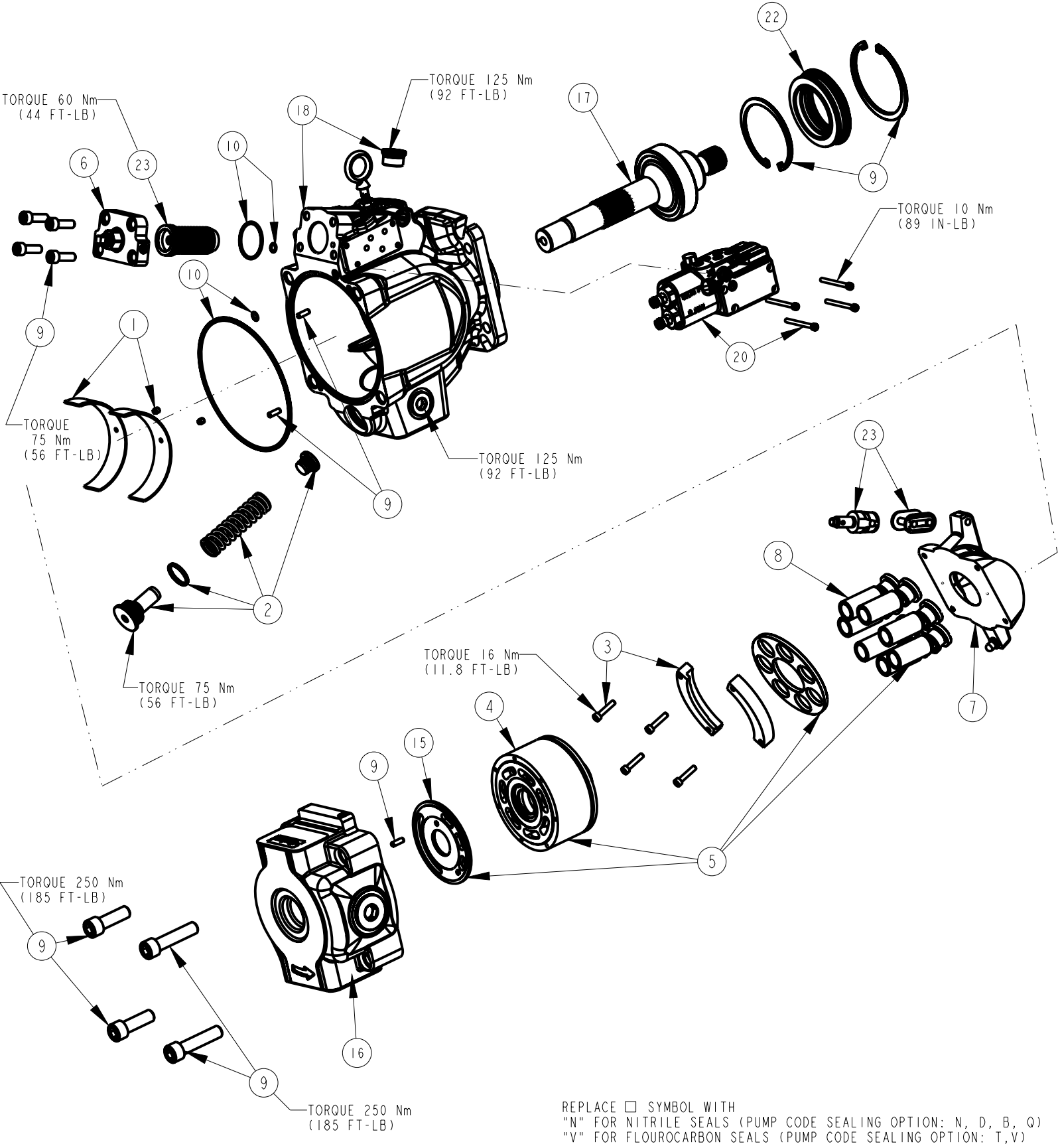
PA	A	20	P2-075-0806-07□	1	COMPENSATOR ASSY
	B	20	P2-075-0806-08□	1	COMPENSATOR ASSY
PB	A	20	P2-075-0806-09□	1	COMPENSATOR ASSY
	B	20	P2-075-0806-10□	1	COMPENSATOR ASSY
RA	A	20	P2-075-0806-05□	1	COMPENSATOR ASSY
	B	20	P2-075-0806-06□	1	COMPENSATOR ASSY
LA	A	20	P2-075-0806-01□	1	COMPENSATOR ASSY
	B	20	P2-075-0806-02□	1	COMPENSATOR ASSY
LB	A	20	P2-075-0806-03□	1	COMPENSATOR ASSY
	B	20	P2-075-0806-04□	1	COMPENSATOR ASSY
TA	A	20	P2-075-0806-11□	1	COMPENSATOR ASSY
	B	20	P2-075-0806-12□	1	COMPENSATOR ASSY
TB	A	20	P2-075-0806-13□	1	COMPENSATOR ASSY
	B	20	P2-075-0806-14□	1	COMPENSATOR ASSY

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

MAX. VOLUME ASSEMBLY ITEM 6



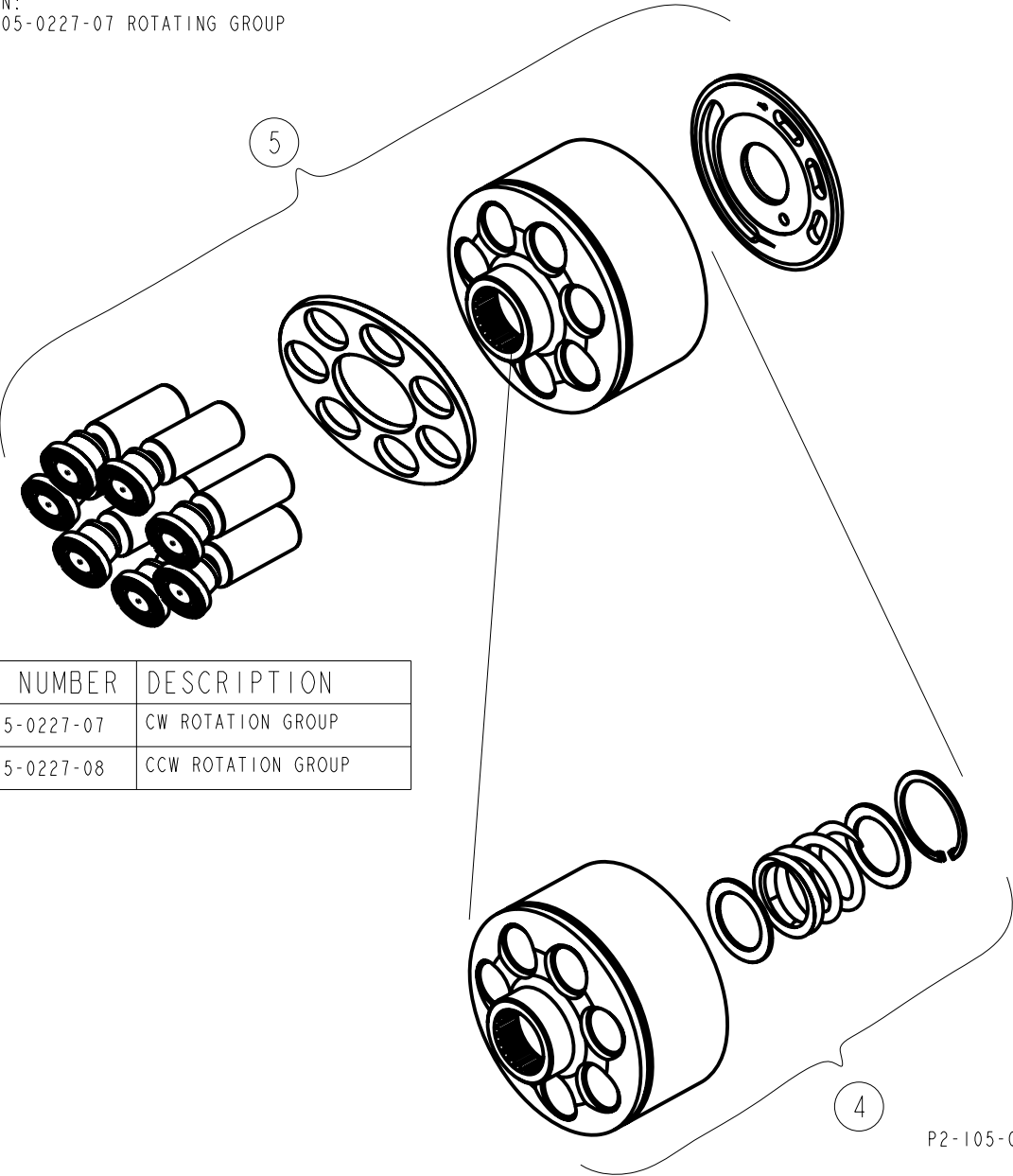
REPLACE □ SYMBOL WITH
"N" FOR NITRILE SEALS (PUMP CODE SEALING OPTION: N, D, B, Q)
"V" FOR FLOUROCARBON SEALS (PUMP CODE SEALING OPTION: T,V)



TITLE	SERVICE PARTS P2105 DESIGN SERIES 16	DRAWING NUMBER	P2-105-0413	REVISION	NONE	STATUS	PR	SHEET	3 OF 8
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ROTATING GROUP / BARREL KIT
ITEM 5
ITEM 4

SHOWN:
P2-105-0227-07 ROTATING GROUP

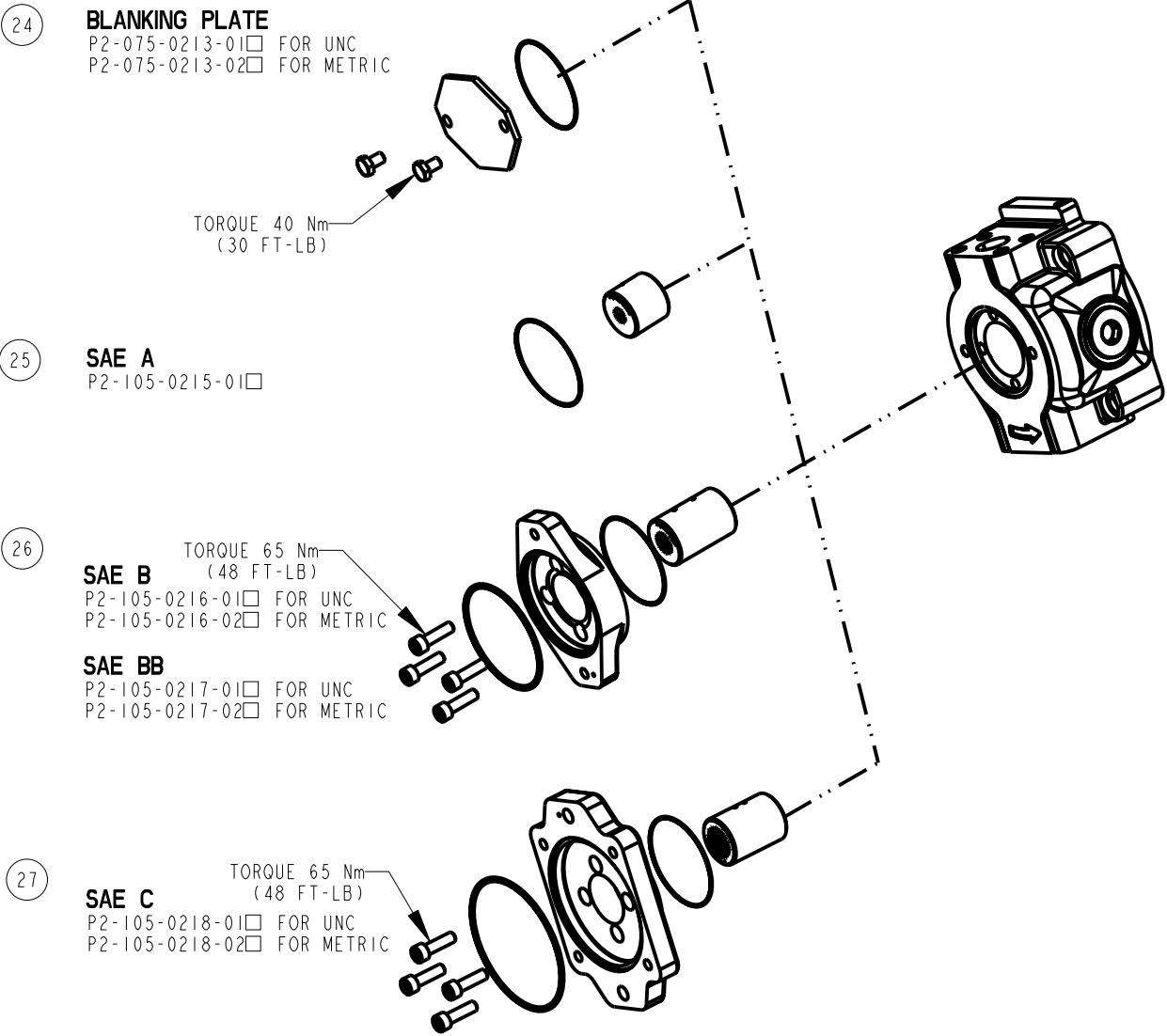


PART NUMBER	DESCRIPTION
P2-105-0227-07	CW ROTATION GROUP
P2-105-0227-08	CCW ROTATION GROUP

P2-105-0222-09 BARREL KIT

DRAWN BY	DATE	CHANGED BY	DATE	ECN NUMBER
L. NAGEL	12FEB13	-	-	709912

THRU DRIVE KIT

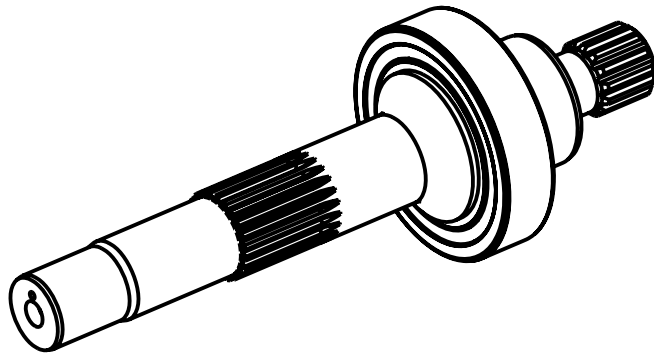


REPLACE ☐ SYMBOL WITH
"N" FOR NITRILE SEALS (PUMP CODE SEALING OPTION: N, D, B, Q)
"V" FOR FLOUROCARBON SEALS (PUMP CODE SEALING OPTION: T,V)



TITLE	SERVICE PARTS P2105 DESIGN SERIES 16	DRAWING NUMBER	P2-105-0413	REVISION	NONE	STATUS	PR	SHEET 4 OF 8
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SHAFT ASSEMBLY KIT
ITEM 17

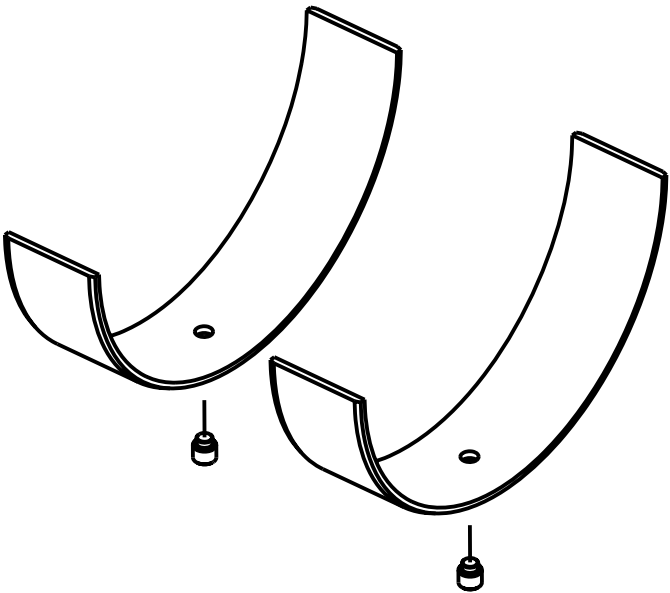


	OPTION	PART NUMBER		DESCRIPTION
C1	NOT SI	P2-105-0225-136	I	SHAFT ASSY - C SPLINE
	SI	P2-105-0225-135	I	SHAFT ASSY - C SPLINE
C2	NOT SI	P2-105-0225-138	I	SHAFT ASSY - CC SPLINE
	SI	P2-105-0225-137	I	SHAFT ASSY - CC SPLINE
C3	NOT SI	P2-105-0225-156	I	SHAFT ASSY - C SPLINE - NO U'CUT
	SI	P2-105-0225-155	I	SHAFT ASSY - C SPLINE - NO U'CUT
C5	NOT SI	P2-105-0225-146	I	SHAFT ASSY - C KEY
	SI	P2-105-0225-145	I	SHAFT ASSY - C KEY
C6	NOT SI	P2-105-0225-148	I	SHAFT ASSY - CC KEY
	SI	P2-105-0225-147	I	SHAFT ASSY - CC KEY
D1	NOT SI	P2-105-0225-140	I	SHAFT ASSY - D SPLINE
	SI	P2-105-0225-139	I	SHAFT ASSY - D SPLINE
D2	NOT SI	P2-105-0225-160	I	SHAFT ASSY - D SPLINE NO U'CUT
	SI	P2-105-0225-167	I	SHAFT ASSY - METRIC SPLINE W40x2x30
M4	NOT SI	P2-105-0225-171	I	SHAFT ASSY - METRIC SPLINE W40x2x30



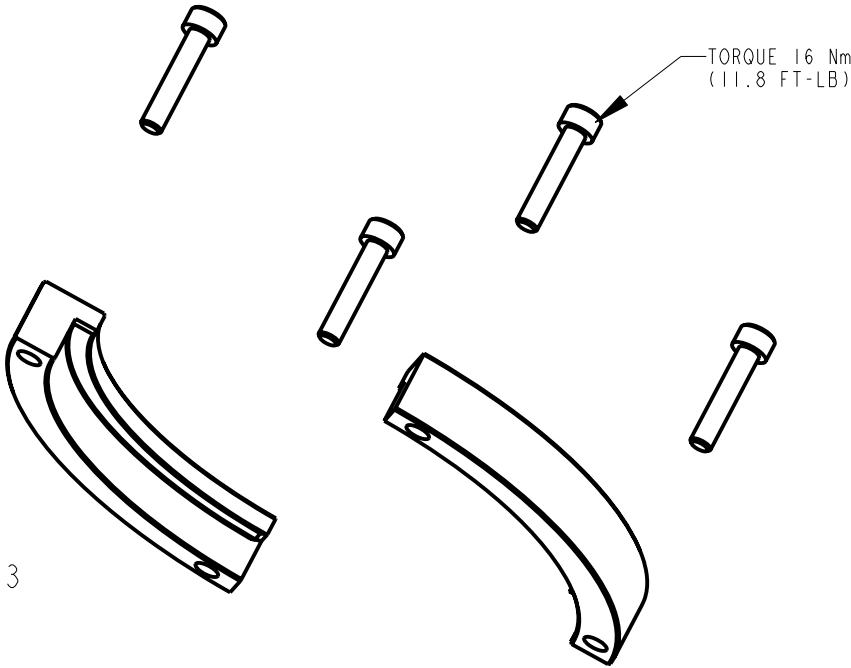
DRAWN BY	DATE	CHANGED BY	DATE	ECN NUMBER
L. NAGEL	12FEB13	-	-	709912

SADDLE BEARING KIT
ITEM 1



P2-105-0229-21

FIXED CLEARANCE HOLD DOWN KIT
ITEM 3

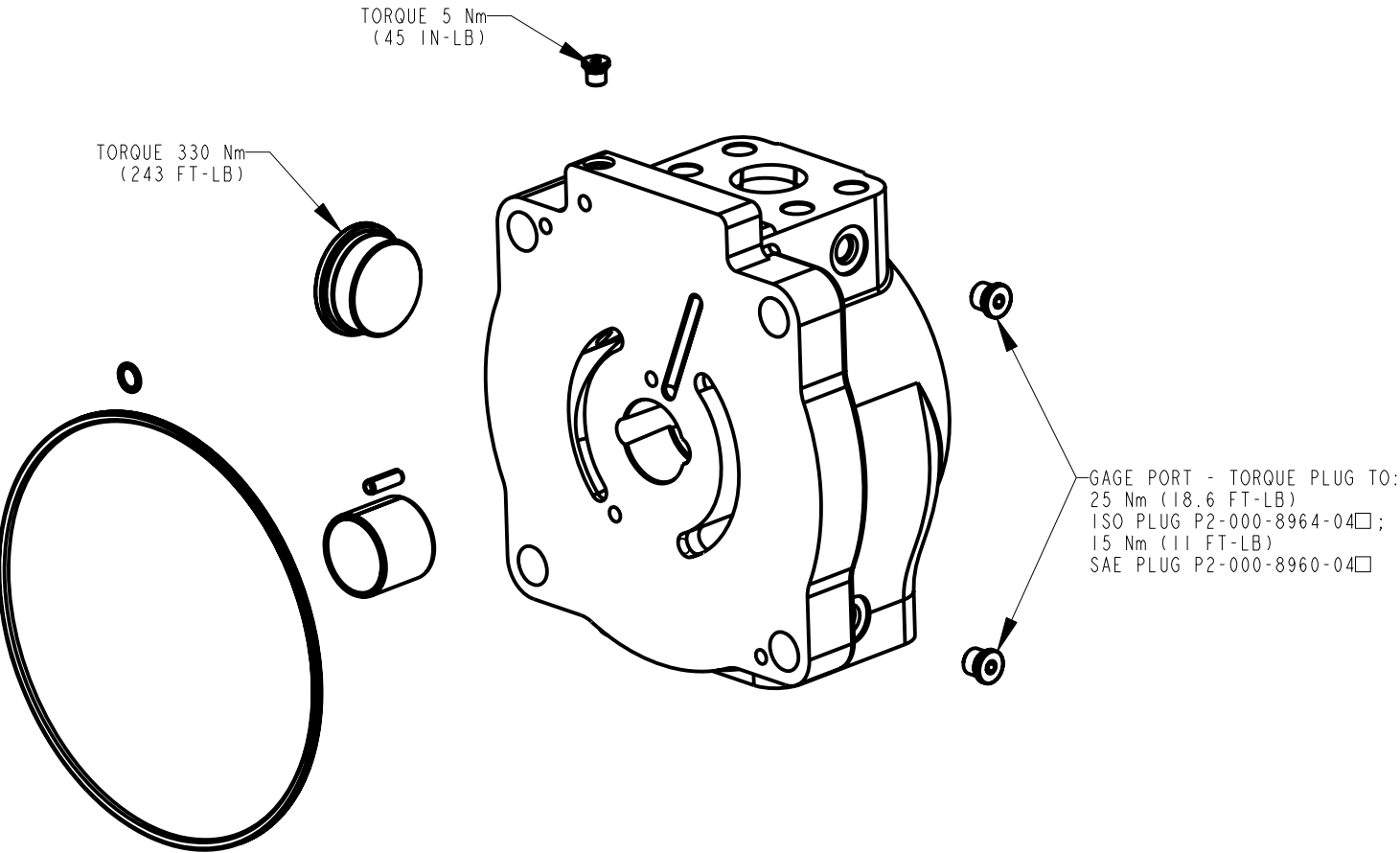


P2-105-0229-23



TITLE	SERVICE PARTS P2105 DESIGN SERIES 16	DRAWING NUMBER	P2-105-0413	REVISION	NONE	STATUS	PR	SHEET	5 OF 8
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COVER ASSEMBLY KIT
ITEM 16



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

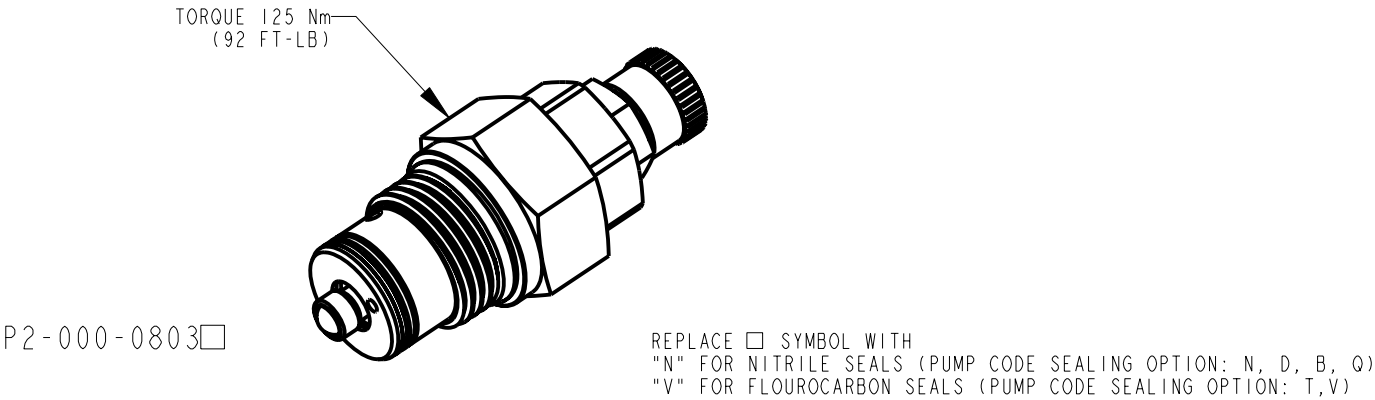
NOTES:
REAR COVER SHOWN IS A RIGHT HAND (CW) ROTATION PUMP. LEFT HAND (CCW) ROTATION REAR COVERS HAVE OUTLET GAUGE PORT REVERSED.

REPLACE □ SYMBOL WITH
"N" FOR NITRILE SEALS (PUMP CODE SEALING OPTION: N, D, B, Q)
"V" FOR FLOUROCARBON SEALS (PUMP CODE SEALING OPTION: T,V)

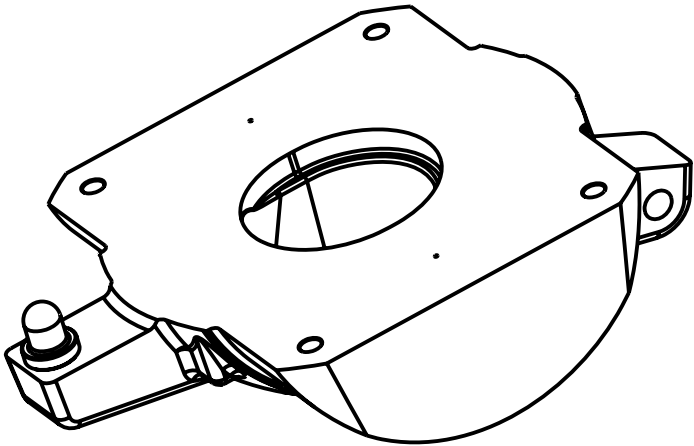


DRAWN BY	DATE	CHANGED BY	DATE	ECN NUMBER
L. NAGEL	12FEB13	-	-	709912

TORQUE CONTROL CARTRIDGE
ITEM 19



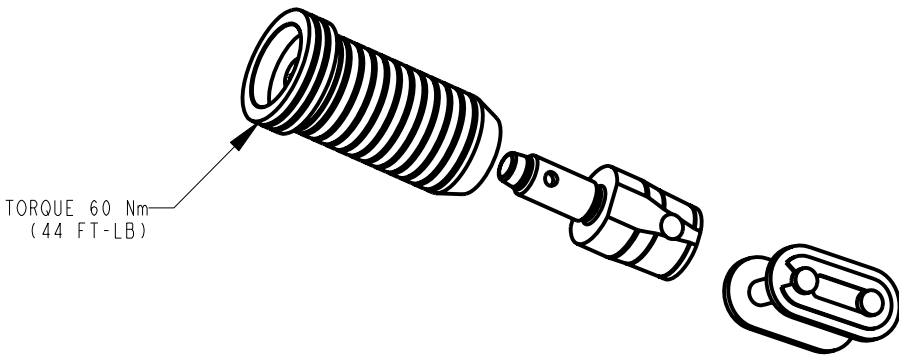
SWASHPLATE KIT
ITEM 7



P2-105-0221-04

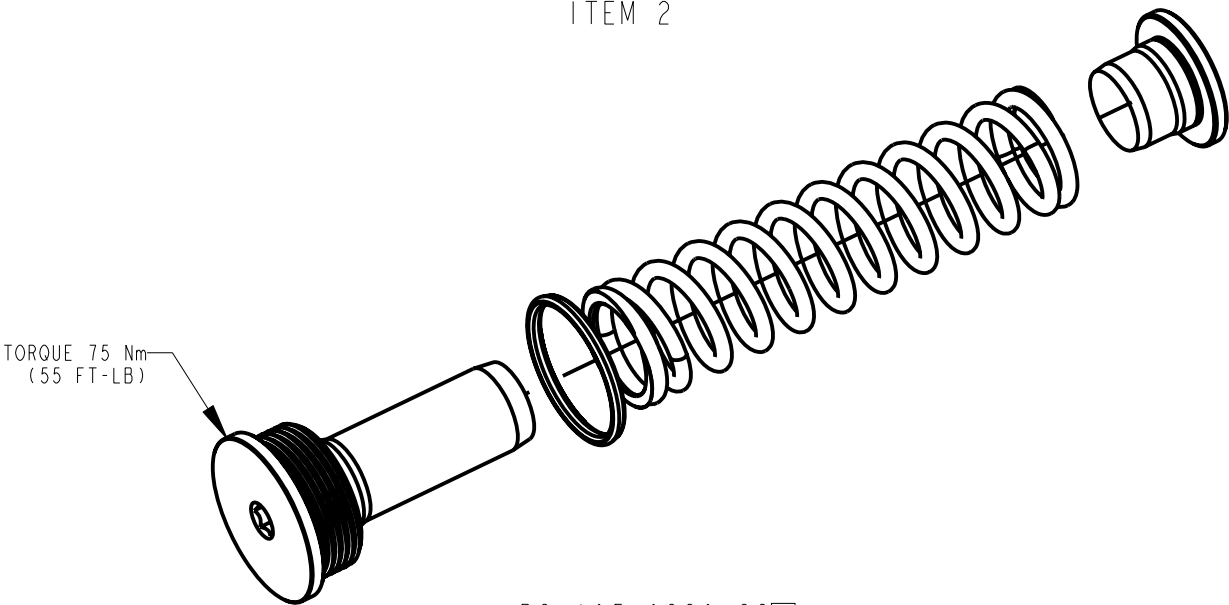


SERVO PISTON KIT
ITEM 23



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

BIAS SPRING KIT
ITEM 2

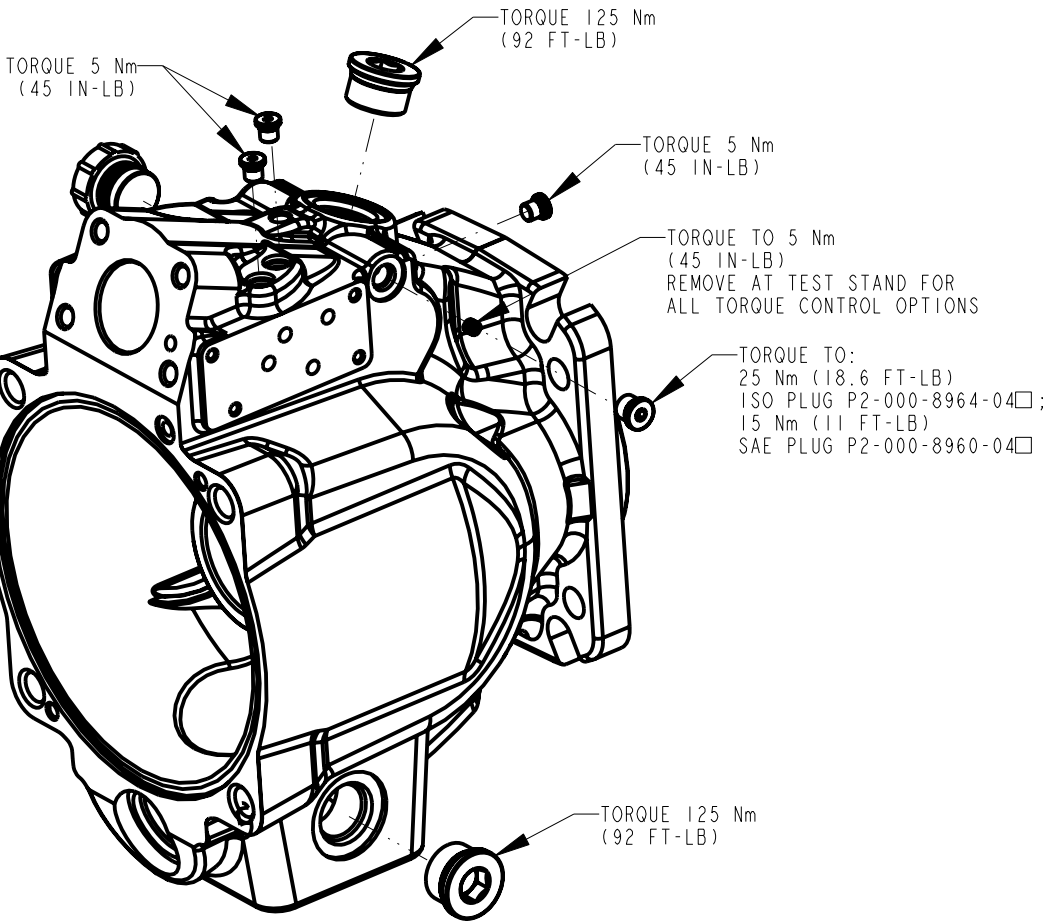


P2-105-0229-22□

REPLACE □ SYMBOL WITH
"N" FOR NITRILE SEALS (PUMP CODE SEALING OPTION: N, D, B, Q)
"V" FOR FLOUROCARBON SEALS (PUMP CODE SEALING OPTION: T,V)



HOUSING KIT
ITEM 18



SEAL OPTION	THRDS	PART NUMBER	DESCRIPTION
N/V/B	B	P2-105-0221-40□	MACHINING C-PILOT 1 SEAL METRIC HOUSING
D/T/Q	B	P2-105-0221-41□	MACHINING C-PILOT 2 SEAL METRIC HOUSING
N/V/B	A	P2-105-0221-44□	MACHINING C-PILOT 1 SEAL UNC HOUSING
D/T/Q	A	P2-105-0221-45□	MACHINING C-PILOT 2 SEAL UNC HOUSING

REPLACE □ SYMBOL WITH
"N" FOR NITRILE SEALS (PUMP CODE SEALING OPTION: N, D, B, Q)
"V" FOR FLOUROCARBON SEALS (PUMP CODE SEALING OPTION: T,V)



TITLE	SERVICE PARTS P2105 DESIGN SERIES 16	DRAWING NUMBER	P2-105-0413	REVISION	NONE	STATUS	PR	SHEET 7 OF 8
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ASSEMBLY, DIS-ASSEMBLY AND REPAIR NOTES

DISASSEMBLY STEPS FOR ENTIRE PUMP

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

ASSEMBLY STEPS FOR ENTIRE PUMP

- 1. PUT IN SWASHPLATE ASSEMBLY
- 2. INSTALL SHAFT ASSEMBLY
- 3. INSTALL SHAFT SEAL CARRIER
- 4. PLACE ROTATING GROUP (BARREL, SLIPPER RETAINER AND PISTONS)
- 5. FIX HOLD DOWN PARTS AND SCREW IN FIXED CLEARANCE HOLD DOWN SCREWS
- 6. SCREW IN BIAS SPRING PLUG INCL. SPRING AND RETAINER
- 7. SCREW IN SERVO PISTON (NEW LINK PISTON REQUIRED!)
- 8. MOUNT MAX. VOLUME ASSY
- 9. FIX COVER AND SCREW IN COVER SCREWS

ATTENTION: * STEP 4 AND 5 REQUIRES SPECIAL TOOL FOR INSTALLATION THE HOLD DOWN PARTS
=> PLEASE ASK YOUR RESPONSIBLE TECHNICAL SUPPORT

SHAFT SEAL REPLACEMENT

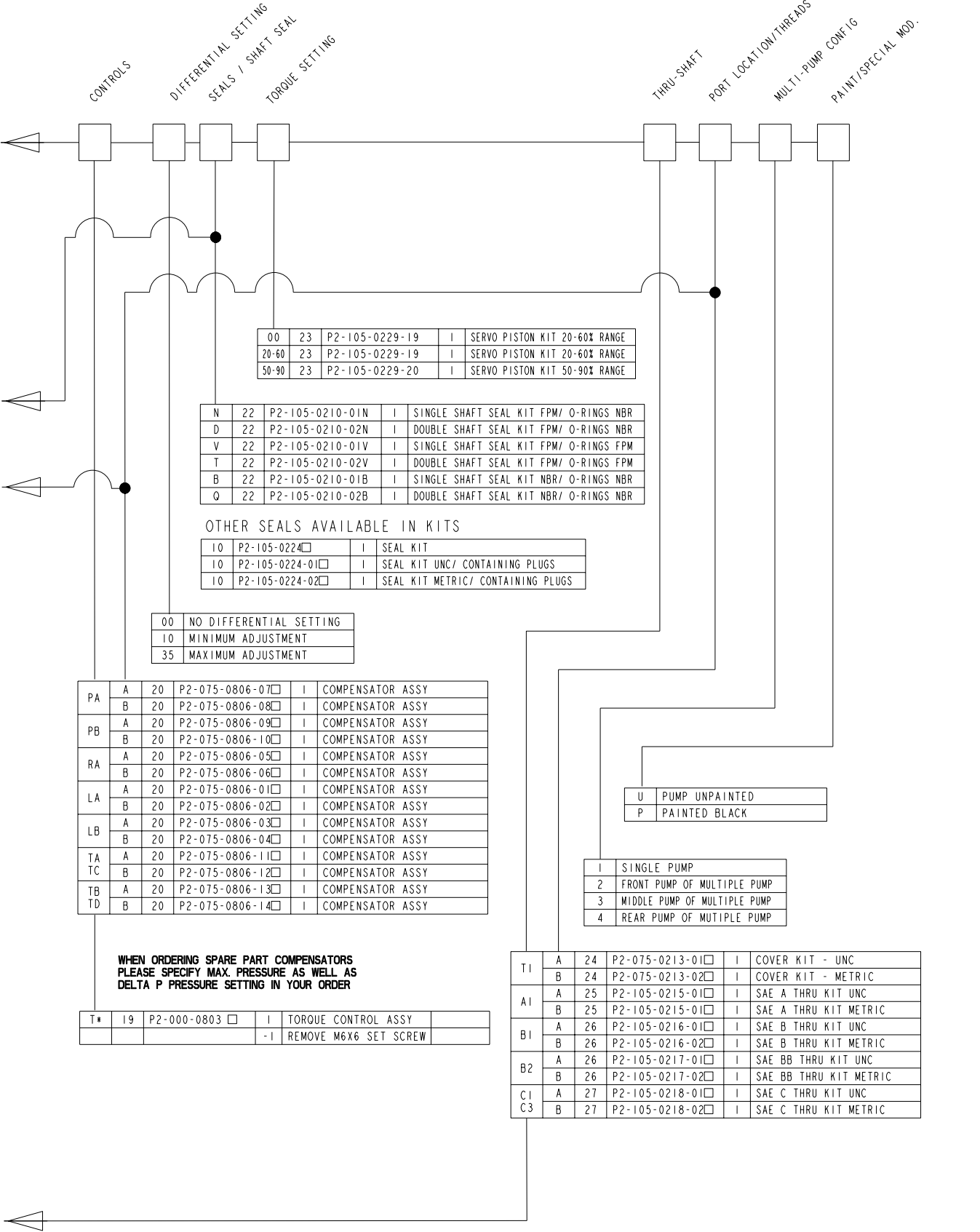
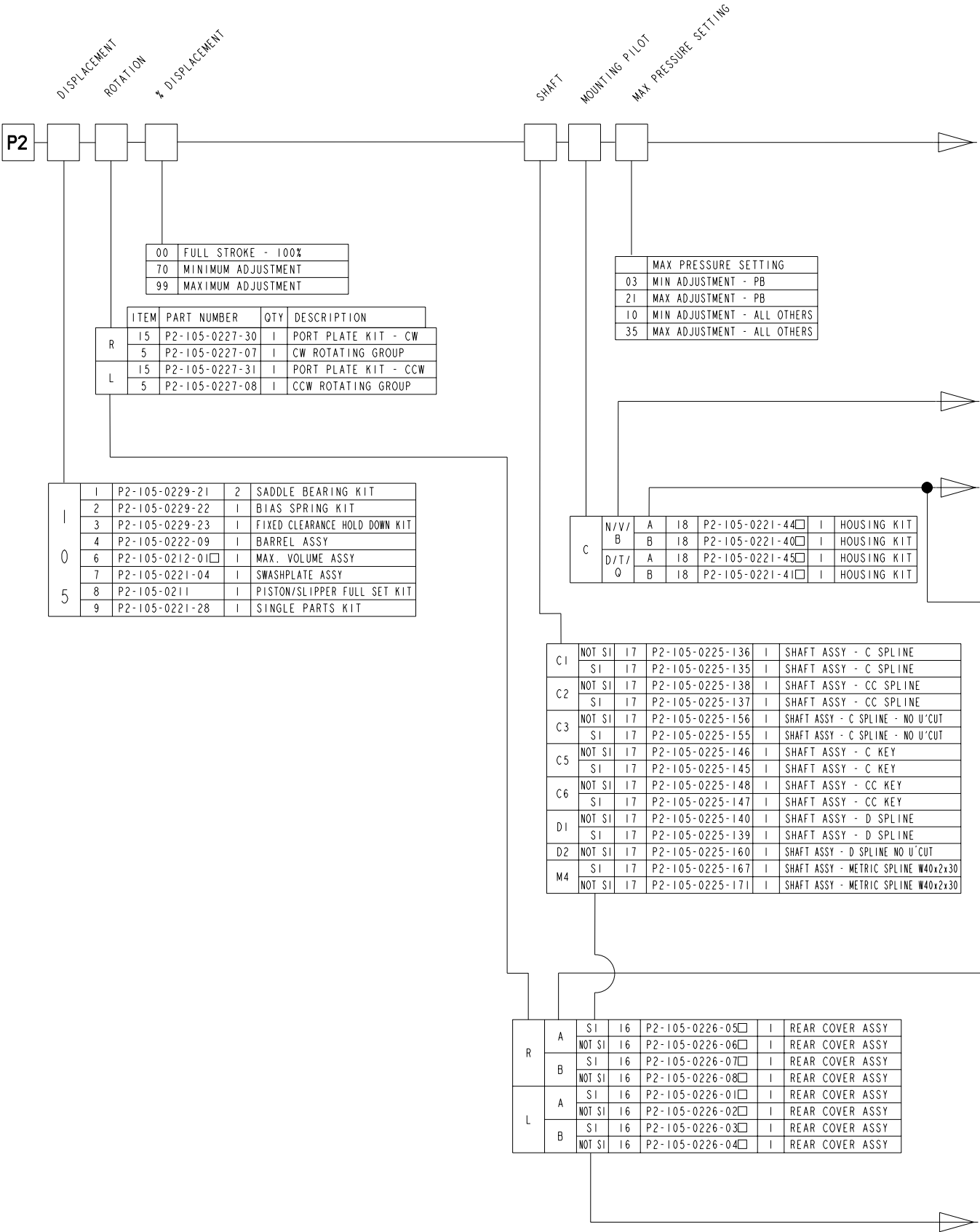
- 1. REMOVE SEAL CARRIER ONLY
- 2. REMOVE OLD SEAL
- 3. INSPECT SHAFT
- 4. IF SHAFT IS WORN INSTALL NEW SEAL
IN INNER LOCATION FOR SINGLE SEAL
APPLICATIONS (SEE SHEET 1).
REPLACE SHAFT FOR DUAL SEAL APPLICATIONS



DRAWN BY	DATE	CHANGED BY	DATE	ECN NUMBER
L. NAGEL	12FEB13	-	-	709912

NOTES:





REPLACE ☐ SYMBOL WITH
"N" FOR NITRILE SEALS (PUMP CODE SEALING OPTION: N, D, B, Q)
"V" FOR FLOUROCARBON SEALS (PUMP CODE SEALING OPTION: T,V)

