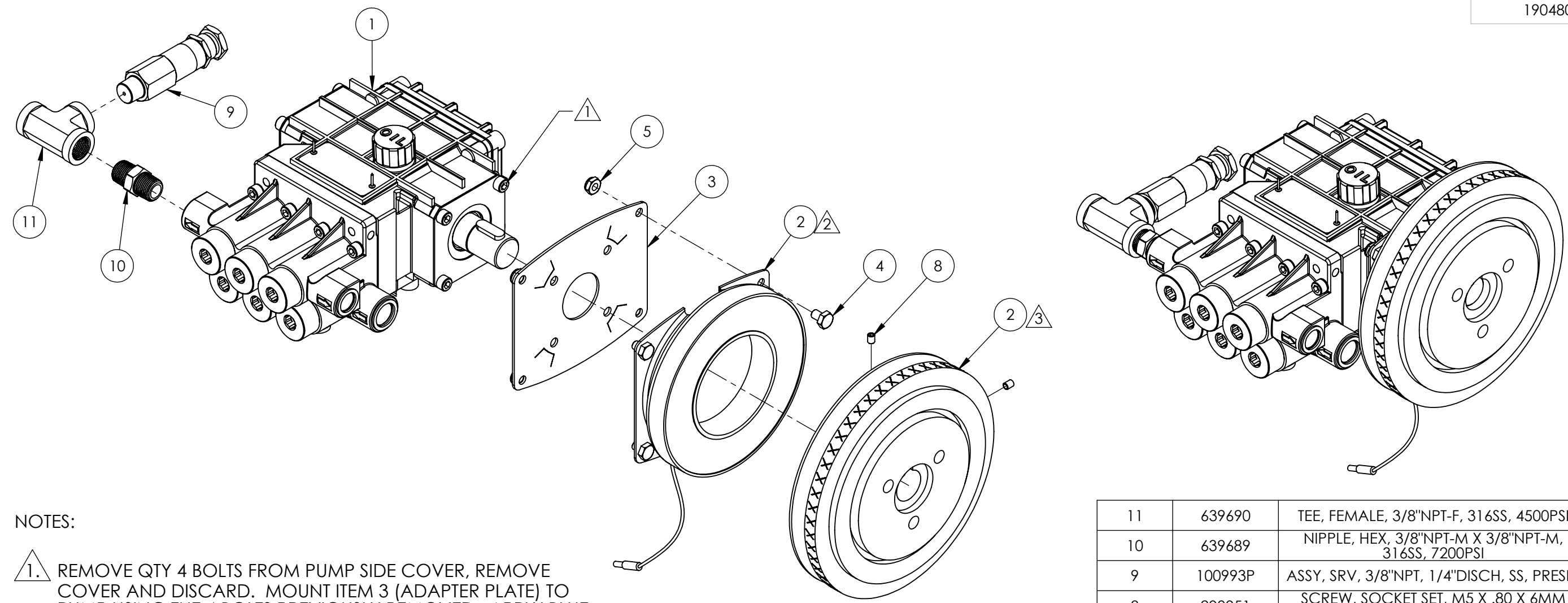


PART NUMBER:  
190480



NOTES:

- 1. REMOVE QTY 4 BOLTS FROM PUMP SIDE COVER, REMOVE COVER AND DISCARD. MOUNT ITEM 3 (ADAPTER PLATE) TO PUMP USING THE 4 BOLTS PREVIOUSLY REMOVED. APPLY BLUE LOCTITE 243 OR EQUIVALENT TO THE THREADS OF OF THE 4 BOLTS AND TORQUE TO 10 FT/LBS MIN (REF.)
- 2. MOUNT CLUTCH COIL PORTION OF ITEM 2 (CLUTCH ASSEMBLY) TO ITEM 3 (ADAPTER PLATE) WITH ITEM 4 (1/4-28 SCREWS) AND ITEM 5 (NYLOCK NUTS). USE ALIGNMENT TOOL (GP P/N: 100163) TO ENSURE COIL IS CONCENTRIC TO PUMP SHAFT. TIGHTEN MOUNTING BOLTS UNTIL SECURED. NOTE: CLUTCH WIRE TO BE ORIENTED TO THE BOTTOM OF THE PUMP
- 3. MOUNT CLUTCH PULLEY TO PUMP SHAFT USING SET SCREWS (ITEM 8). APPLY LOCTITE 243 OR EQUIVALENT, TORQUE TO 50 IN/LBS (REF.)
- 4. ITEMS 6 (SPEC SHEET) AND 7 (LABEL) ARE NOT SHOWN IN DRAWING- APPLY ITEM 7 (LABEL) AS NEEDED AND INCLUDE ITEM 6 (SPEC SHEET) WITH FINAL ASSEMBLY
- 5. INCLUDE PUMP RAILS WITH FINAL ASSEMBLY FOR SHIPMENT- DO NOT INSTALL
- 6. PRESET SRV (ITEM 9) TO POP-OFF AT 950 PSI

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	U/M
11	639690	TEE, FEMALE, 3/8"NPT-F, 316SS, 4500PSI	1	EA
10	639689	NIPPLE, HEX, 3/8"NPT-M X 3/8"NPT-M, 316SS, 7200PSI	1	EA
9	100993P	ASSY, SRV, 3/8"NPT, 1/4"DISCH, SS, PRESET	1	EA
8	200051	SCREW, SOCKET SET, M5 X .80 X 6MM KNURLED CUP POINT	2	EA
7	604000	LABEL, 1X3 THERMAL, TRANSFER	1	AR
6	300189	SPEC SHT, CLUTCH FOR 24MM SOLID SHAFT	1	AR
5	203201	NYLON INSERT JAM NUT, 1/4-28 UNF	4	EA
4	201004	HHCS, 1/4-28 X 3/8	4	EA
3	540048	ADAPTER PLATE, 50 SERIES	1	EA
2	103048	CLUTCH, SINGLE GROOVE, 7", 12V, 24mm	1	EA
1	WM4215S	PUMP, WM SERIES, 4.2 GPM, SOLID SHAFT	1	EA

REV	ECR #	DESCRIPTION	INITIALS	DATE
C	14-044	REPLACED 100993 WITH 100993P; CHANGE NOTE 6, SRV WAS PRESET TO 1,000 PSI	SWJ	3/13/2014
B	13-161	ADD ITEMS 9 - 11 (SRV, TEE, NIPPLE); ADD PRESET NOTE 6	SWJ	9/16/2013
A	12-154	RELEASED FOR PRODUCTION	SWJ	11/27/2012
REVISIONS				

**GP COMPANIES INC.**  
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**UNLESS OTHERWISE SPECIFIED:**  
DIMENSIONS ARE IN INCHES  
(DUAL DIMENSIONS ARE IN MILLIMETERS)

SURFACE FINISH: 125 ✓  
FRACTIONAL: ± 1/64  
ANGULAR: ± 1°  
ONE PLACE DECIMAL: ± 0.05  
TWO PLACE DECIMAL: ± 0.01  
THREE PLACE DECIMAL: ± 0.005  
REMOVE ALL BURRS AND BREAK SHARP EDGES .010 MAX

REPLACES PART NUMBER: N/A  
REV: N/A

DRAWN BY: SWJ DATE: 11/27/12  
CHK'D BY: DATE:  
APP'D BY: DATE:

**PROPRIETARY AND CONFIDENTIAL**  
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INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.5-2009

SURFACE TREATMENT: N/A

HEAT TREATMENT: N/A

MATERIAL: SEE BOM

DESCRIPTION: ASSY, WM4215S, SNGL GRV CLUTCH, 12V

SHEET NUMBER: 1:1

SCALE: 1:3

WEIGHT: 20.96 #

DO NOT SCALE DRAWING

DRAWING SIZE: **B** PART NUMBER: 190480  
REV: **C**