# MODEL F – HY–PAK
## SINGLE STATION
## PRE–CONFIGURED HYDRAULIC POWER UNIT

ALL UNITS INCLUDE THE FOLLOWING STANDARD FEATURES:

–HEAVY DUTY DESIGN FOR 24/7 INDUSTRIAL APPLICATIONS

–PAINTED AND PRE–TESTED BEFORE SHIPMENT

–RESERVOIR W/ INTERNAL BAFFLE; CLEAN–OUT COVERS; SIGHT–GLASS W/ THERMOMETER; AND FILLER BREATHER ASSEMBLY

–LIQUID FILLED PRESSURE GAUGE W/ SHUT–OFF

–WELDED RISERS ON TANK SUCTION, RETURN FILTER, TEMP/LEVEL SWITCH; AND FILLER–BREATHER TANK PENETRATION POINTS

–SAFETY RELIEF VALVE (PRESET)

–PUMP PRESSURE COMPENSATOR CAN BE ADJUSTED TO THE MAXIMUM OPERATING PRESSURE NOTED IN THE CHART. (UNITS SHIPPED WITH COMPENSATOR SET @ 1500 PSI [103 BAR])

–DUCTILE MANIFOLD

–TEMP/LEVEL SWITCH; SPDT

–REAR MOUNTED PUMP CASE DRAIN COOLER

–TANK MOUNTED RETURN FILTER

–SPARE RETURN FILTER REPLACEMENT ELEMENT (SHIPPED LOOSE)

–SPARE RETURN W/ DOWN–PIPE (SAE –12 – PLUGGED)

**ORDER BY HYSPECO ASSEMBLY NUNBER

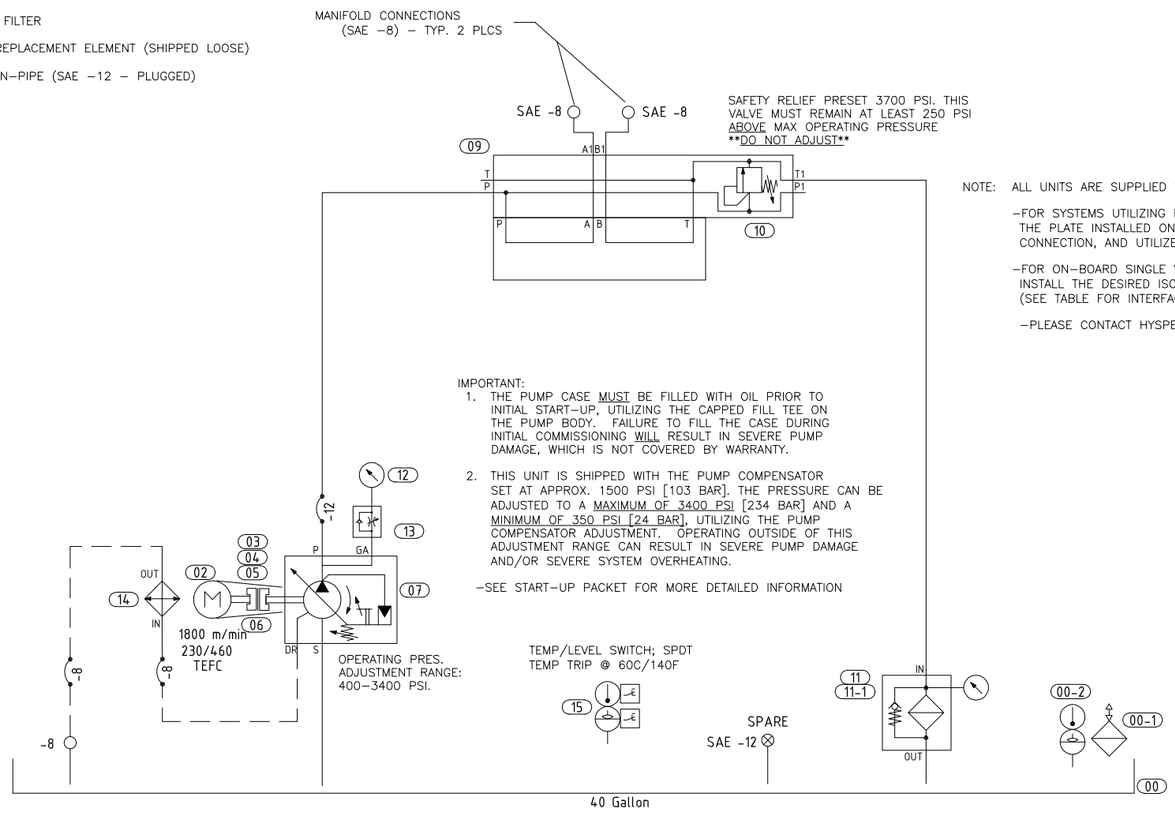
| HYSPECO MODEL F – HY–PAK HYDRAULIC POWER UNITS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **HYSPECO ASSEMBLY NUMBER | HYSPECO PART NUMBER | SERIES | RESERVOIR CAPACITY GAL [LITERS] | ELECTRIC MOTOR HP | MAX FLOW GPM [LPM] (@1800 RPM) | MAX CONTINUOUS OPERATING PRESSURE PSI [BAR] | DIRECTIONAL VALVE MOUNTING INTERFACE | VALVE MTG. THD |
| B30F0003 | B30–D–E–F | B | 40 [152] | 30 | 13.2 [50.2] | 3400 [234.5] | D05/NG10 | 1/4"–20 UNC |
| | | | | | | | | |

–CONTACT HYSPECO ENGINEERING FOR FLOW AND/OR OPERATING PRESSURE CAPABILITIES OUTSIDE OF THE NOTED VALUES IN THE ABOVE TABLE.

–THESE SYSTEMS ARE DESIGNED FOR OPERATION WITH STANDARD PETROLEUM/MINERAL BASE HYDRAULIC FLUIDS (SEE NOTE BELOW)

–THE SYSTEMS ARE NOT DESIGNED OR RATED FOR USE WITH WATER–GLYCOL OR HIGH WATER CONTENT FLUIDS

–MINIMUM OPERATING PRESSURE: 350 PSI [24 BAR] TO PREVENT PUMP DAMAGE, DO NOT DIVERT PUMP FLOW TO TANK (0 PSI) FOR EXTENDED PERIODS OF TIME. IF THE PUMP MUST OPERATE FOR EXTENDED PERIODS OF TIME IN A "STAND–BY" MODE, CONTACT HYSPECO ENGINEERING FOR CIRCUIT MODIFICATION REQUIREMENTS.




IMPORTANT:
1. THE PUMP CASE MUST BE FILLED WITH OIL PRIOR TO INITIAL START–UP, UTILIZING THE CAPPED FILL TEE ON THE PUMP BODY. FAILURE TO FILL THE CASE DURING INITIAL COMMISSIONING WILL RESULT IN SEVERE PUMP DAMAGE, WHICH IS NOT COVERED BY WARRANTY.
2. THIS UNIT IS SHIPPED WITH THE PUMP COMPENSATOR SET AT APPROX. 1500 PSI [103 BAR]. THE PRESSURE CAN BE ADJUSTED TO A MAXIMUM OF 3400 PSI [234 BAR] AND A MINIMUM OF 350 PSI [24 BAR], UTILIZING THE PUMP COMPENSATOR ADJUSTMENT. OPERATING OUTSIDE OF THIS ADJUSTMENT RANGE CAN RESULT IN SEVERE PUMP DAMAGE AND/OR SEVERE SYSTEM OVERHEATING.

–SEE START–UP PACKET FOR MORE DETAILED INFORMATION

NOTE: ALL UNITS ARE SUPPLIED WITH A P–A/B–T CROSS–OVER PLATE INSTALLED ON THE MANIFOLD.

–FOR SYSTEMS UTILIZING REMOTELY MOUNTED CONTROL VALVES, SIMPLY LEAVE THE PLATE INSTALLED ON THE MANIFOLD AND UTILIZE THE "A" PORT FOR THE SYSTEM SUPPLY (P) CONNECTION, AND UTILIZE THE "B" PORT FOR THE RETURN (T) CONNECTION.

–FOR ON–BOARD SINGLE VALVE CONTROL, REMOVE THE COVER–PLATE FROM THE MANIFOLD AND INSTALL THE DESIRED ISO INTERFACE VALVE CONFIGURATION (VALVES SOLD SEPARATELY). (SEE TABLE FOR INTERFACE AND BOLT THREAD INFORMATION.)

–PLEASE CONTACT HYSPECO FOR CONTROL VALVE OPTIONS THAT WILL BOLT DIRECTLY ON THE MANIFOLD.

+RS – DESIGNATES RECOMMENDED SPARE PART

(NOTE: IF THE UNIT IS BEING UTILIZED IN A "PROCESS–CRITICAL" APPLICATION, IT IS ALSO RECOMMENDED THAT A REPLACEMENT PUMP BE CONSIDERED AS A CRITICAL SPARE PART.)

| ITEM | QTY | PART # | DESCRIPTION | MANU |
|---|---|---|---|---|
| 00 | 1 | | 40 GAL RESERVOIR W/ SIGHT–GLASS & BREATHER | |
| 00–1 | 1 | FB–H008W | REPLACEMENT FILLER/BREATHER | |
| 00–2 | 1 | SLLG–05T–C | REPLACEMENT SIGHT–GLASS ASSY. | |
| 02 | 1 | | 30HP 1800RPM 230/460//380VAC 3PH 60/50HZ IC411 TEFC 286TC ELECTRIC MOTOR | WEG |
| 03 | 1 | M40012816DSS | MOTOR COUPLING; 1–7/8" X 1/2"KW | MAGNALOY |
| 04 | 1 | M40010008DSS | PUMP COUPLING; 1" X 1/4"KW | MAGNALOY |
| +RS | 05 | 1 | M470H5 | COUPLING INSERT; (HYTREL) | MAGNALOY |
| | 06 | 1 | | MOTOR/PUMP ADAPTER | |
| +RS (OPTIONAL) | 07 | 1 | PD028PS02SRS5BAM0R1200000 (05E–01931–5) | PISTON PUMP; (1.71 CIR) | PARKER |
| | 09 | 1 | | D05 SINGLE STATION DUCTILE MANIFOLD W/ C10–2 RELIEF CAVITY | |
| +RS | 10 | 1 | RAH101S50 | RELIEF VALVE CARTRIDGE; 200–5000 PSI; C10–2 | PARKER |
| | 11 | 1 | | TANK MOUNTED RETURN FILTER W/ VISUAL CLOGGING INDICATOR; SAE –16 PORTS | |
| +RS | 11–1 | 1 | 946855Q | REPLACEMENT FILTER ELEMENT | PARKER |
| | 12 | 1 | | 0–5000 PSI/BAR LIQUID FILLED PRESSURE GAUGE | |
| | 13 | 1 | | GAUGE SHUT–OFF W/ INTEGRAL SNUBBER | |
| | 14 | 1 | | REAR MOUNT CASE DRAIN OIL COOLER | |
| | 15 | 1 | | TEMP/LEVEL SWITCH; SPDT; TEMP TRIP @ 60C/140F | |

RECOMMENDED FLUID TYPE: HIGH QUALITY PETROLEUM BASE HYDRAULIC FLUID, WITH A GOOD ANTI–WEAR ADDITIVE PACKAGE (ISO 46 OR ISO 68)

EXAMPLE FLUIDS:
–PARKER DuraClean™
–MOBIL DTE 25 OR DTE 26
–TEXACO RANDO HD46 OR HD68
–SHELL TELLUS 46 OR 68

| SYM | DATE | CHANGE | BY |
|---|---|---|---|
| 4 | | | |
| 3 | | | |
| 2 | | | |
| 1 | 02.16.2024 | ADDED 1800 RPM NOTATION TO FLOW RATING COLUMN | GWM |

REVISIONS

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HYSPECO, INC.
(800) 234–1041

TITLE
MODEL F SINGLE STA. HPU
HYDRAULIC SCHEMATIC

| | |
|---|---|
| DATE | 02.05.2024 |
| DRAWN BY | GWM |
| CHECKED BY | |
| APPROVED BY | |
| SCALE | NONE |
| REVISION | 1 |
| SHEET | 1 OF 1 |
| | B |
| DRAWING No. | B30F0003 |