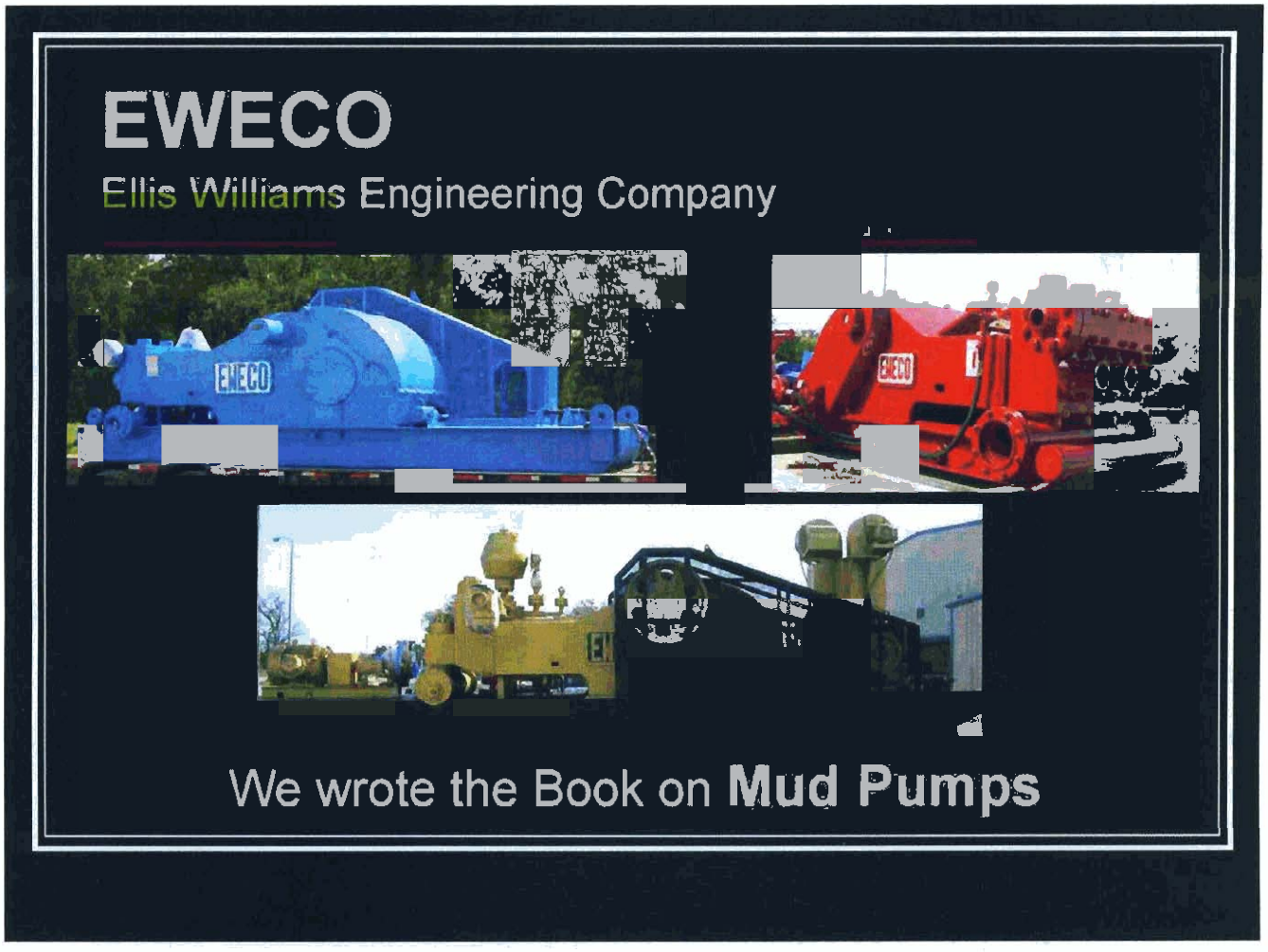
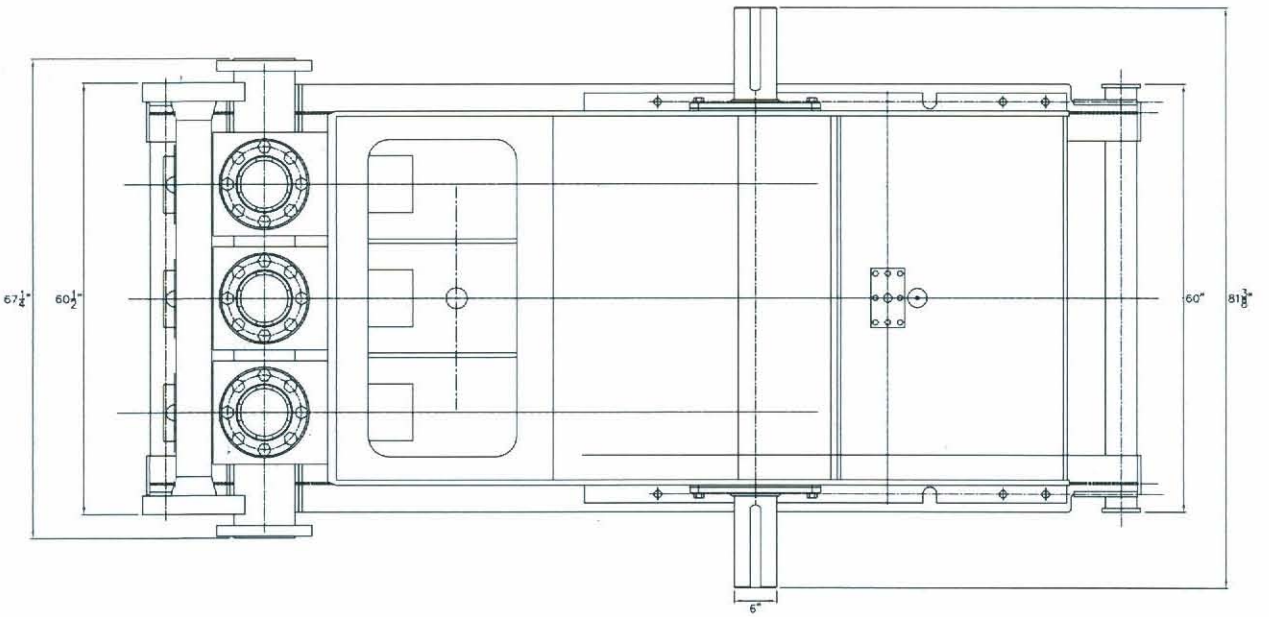
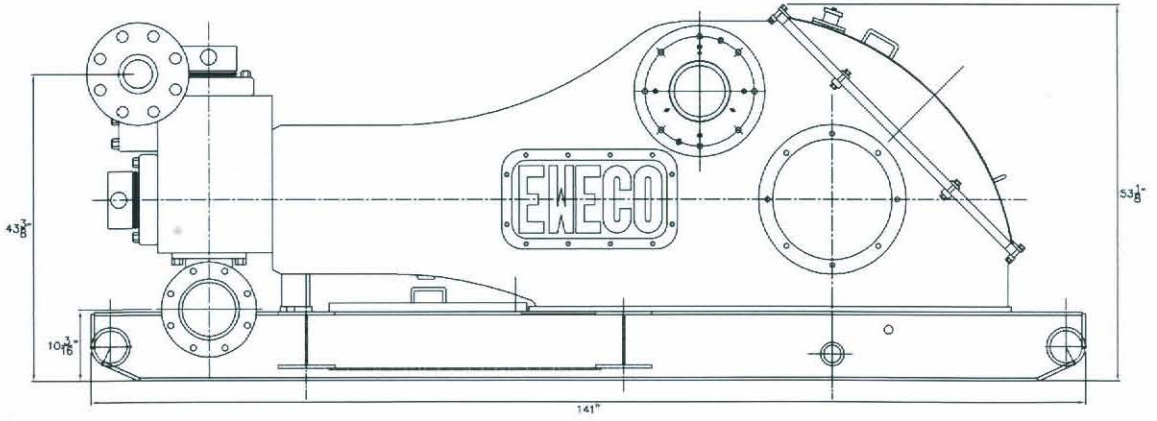


Section 2

Model Specific Information





PROPRIETARY INFORMATION

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APPLICABLE SPECS | UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES
BREAK SHARP CORNERS ~
FILLET RADII ~
CONCENTRICITY ~
SQUARENESS ~
PARALLELISM ~
RMS EXCEPT WHEN ⊗ MODIFIED

DIMENSIONAL TOL.
FRACT. ~ ±1/32
X.XXX ~ ±.005
X.XX ~ ±.01
X.X ~ ±.1
ANGLE ~ ±0 30'
SURFACE RMS 250

SIMILAR TO | SUPERSEDES
NEXT ASSY | SUPERSEDED BY

MATERIAL SPEC

DESIGNED BY | DATE
DRAWN BY | DATE
CHECKED BY | DATE
P.E. APPROVAL | DATE
Q.A. REVIEW | DATE

ELLIS WILLIAMS ENGINEERING CO., INC.
P.O. BOX 1309 TOMBALL, TEXAS 77377 USA
TEL: 281-290-8827 - FAX: 281-290-8157

TITLE: E-800 TRIPLEX WITH PZ STYLE FLUID ENDS

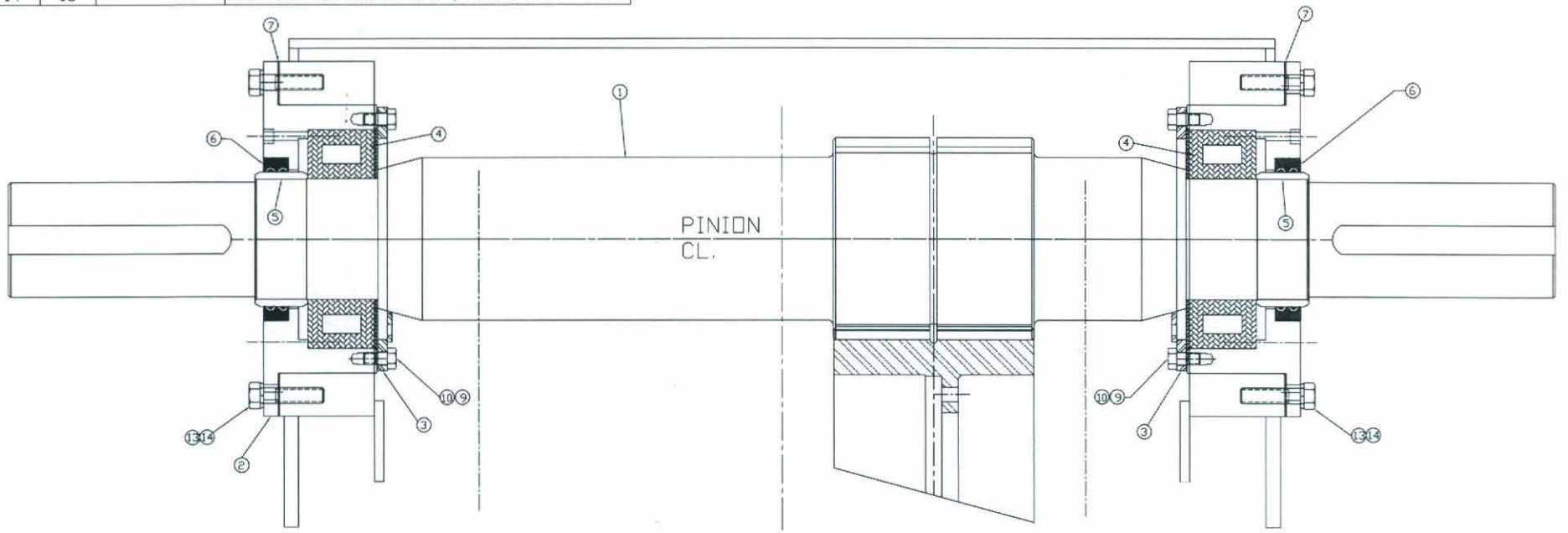
SIZE: E | REFERENCE No. | DRAWING No. 803B608 | REV

SCALE | EST WT | SHEET 1 OF

803B608

ITEM	REQ'D	PART NO.	DESCRIPTION
1	1	801B302	PINION SHAFT
2	2	801B222	PINION BEARING CARRIER
3	2	801B303	PINION BEARING RETAINER
4	2	PB-002	PINION BEARING
5	2	801B225	OIL SEAL RACE
6	4	O-007	OIL SEAL
7	2	801B223	PINION BEARING CARRIER GASKET
8			
9	8		DRILLED HEX HD. CAPSCREW, 5/8"x1 1/4" LG.
10	1		1/16" DIA. TIE WIRE
11			
12			
13	16		LOCKWASHER, 3/4"
14	16		HEX HD. CAPSCREW BOLT, 3/4"x2 1/4" LG.

NOTE:
SUPPLIMENTAL FOR 4.04-1 GEAR RATIO PUMPS



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APPLICABLE SPECS. UNLESS OTHERWISE SPECIFIED

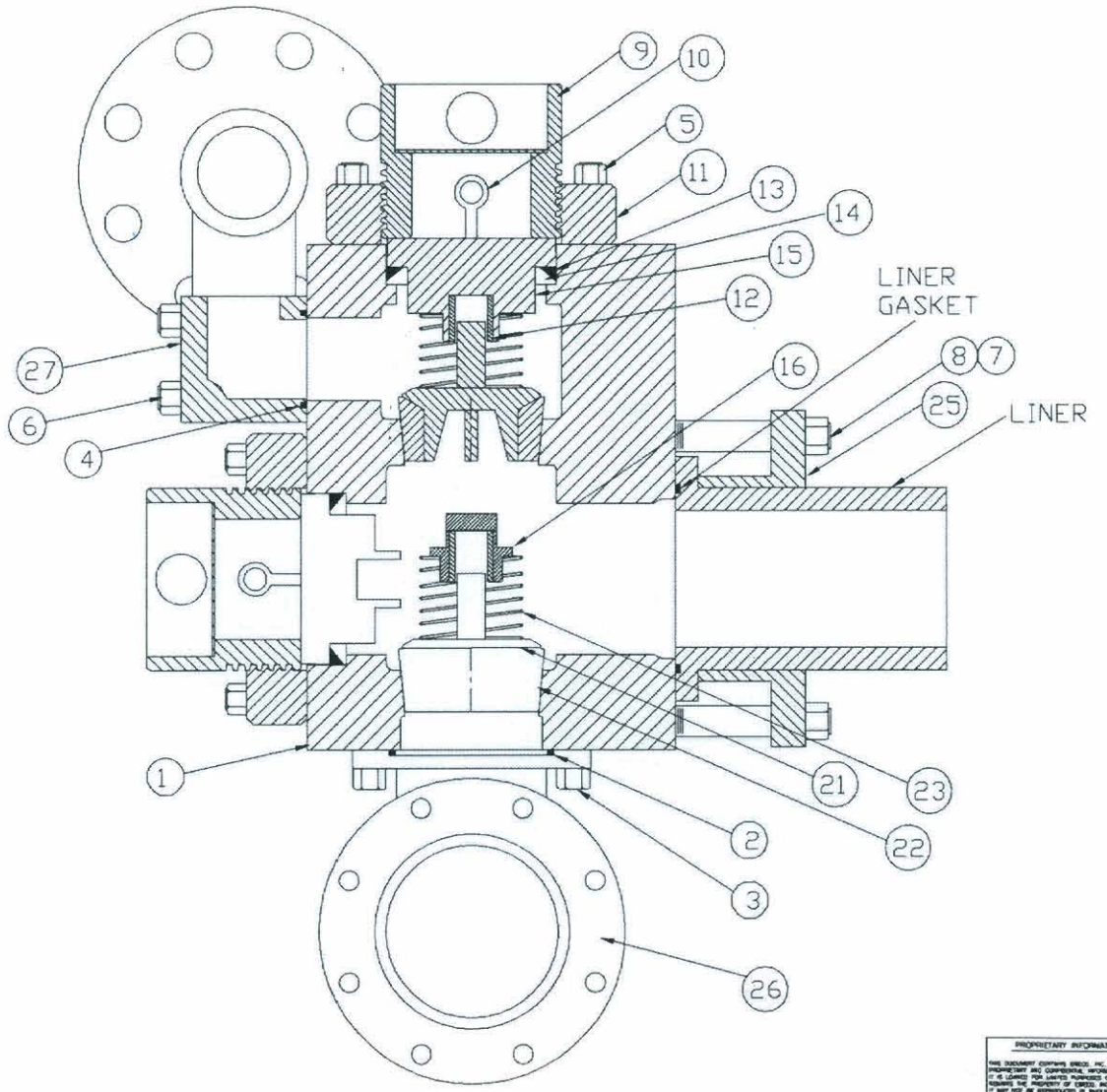
DESIGNED BY
DRAWN BY JCW 12/11/05
CHECKED BY
P.E. APPROVAL
Q.A. REVIEW

ELLIS WILLIAMS ENGINEERING CO., INC.
P.O. BOX 1329 TOMBALL, TEXAS 77377 USA
TEL: 281-290-4837 - FAX: 281-290-4157

TITLE
E-800 4.04/1
PINION SHAFT ASSEMBLY

SIZE E | REFERENCE No. | DRAWING No. 801B304 | REV
SCALE | EST WT | SHEET 1 OF

801B304



FLUID END ASSEMBLY PARTS LIST

Item #	Qty/pump	OEM PART #	EMECO PART#	Description
1	3	206PZL009D	600A502	Module PZ-8/9
2	3	25G41	600A503	Suction Gasket
3	24	75A74N	600A504	Suction capscrew
4	3	25A135	600A505	Discharge Gasket
5	96	79AL6	600A506	valve cover and cylinder head stud
6	12	202PZL110	600A507	discharge man stud
7	12	79L73	600A508	cradle stud (short)
8	24	79L188	600A509	cradle stud 2 nuts/stud (long)
9	6	2011857	600A510	valve cover and cylinder head plug
10	6	N/A	600A511	eye bolt
11	6	2011699	600A512	valve cover and cylinder head flange
12	6	2007674	600A513	insert
13	6	2011862	600A514	valve cover gasket
14	6	2011861	600A515	retaining ring
15	6	2011860	600A516	valve cover
16	3	2011700 (valve guide), 2011701 (retainer plate), 95W2 (lock washer) and 668EE06S (screw)	600A517	lower valve guide assembly
17	3			
18	3			
19*	3	PZ9 STYLE	600A518	Piston rod
20*	3	PZ9STYLE	600A519	Rod Clamp
21	6	P7/0U5C-EEF	-	Valve
22	6	07DD3-1	-	Seat API 7
23	6		600A520	Spring
24	3	PZ9-TO MATCH-LINER		Liner Gasket
25	3	-	600A621	Liner Clamp
26	1	-	600A619	Suction Manifold assembly special for EMECO
27	1	-	600A620	Discharge Manifold assembly special for EMECO
28*	1	-	A3833	Strainer cross
30*		-	A5810	Pulsation dampener 10 gallon 5000 psi

* NOT SHOWN ON ASSY DRAWING

PROPRIETARY INFORMATION

APPLICABLE SPECS | UNLESS OTHERWISE SPECIFIED | MATERIAL SPEC

ELLIS WILLIAMS ENGINEERING CO., INC.

DESIGNED BY JCW 5/10/06

DRAWN BY JCW

CHECKED BY

P.E. APPROVAL

Q.A. APPROVAL

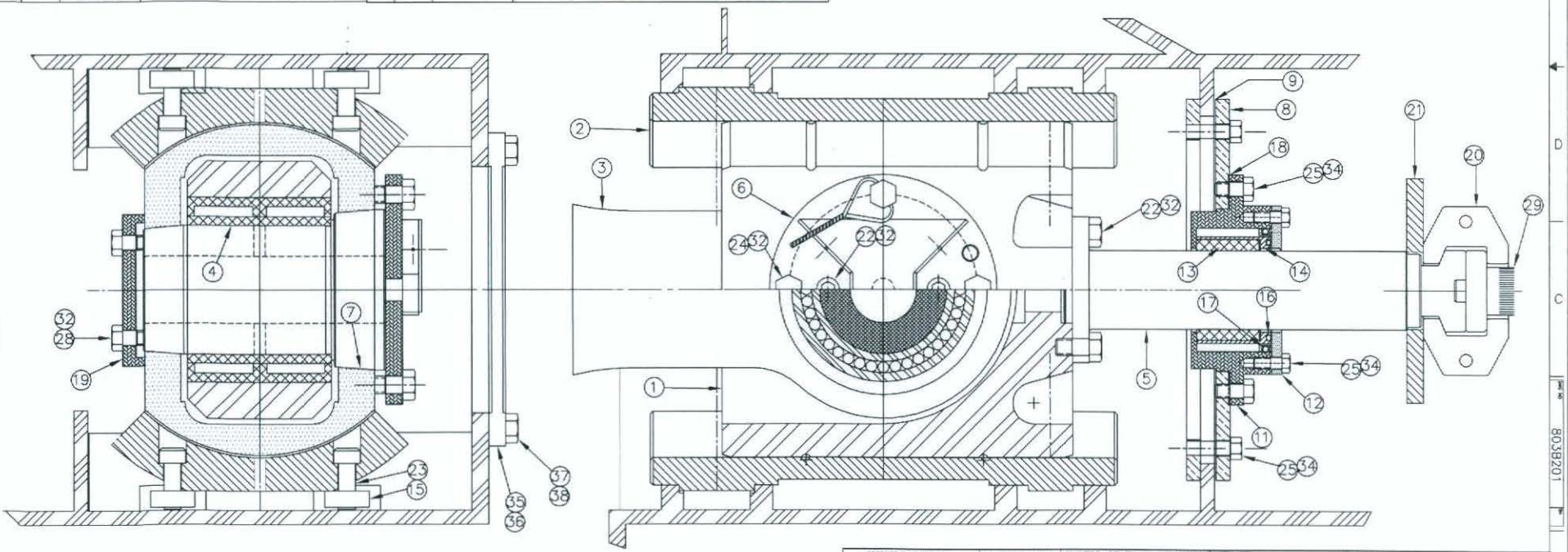
TITLE: E-800 TRIPLEX FLUID END ASSEMBLY

SIZE E | REFERENCE No. | DRAWING No. 8038501 | REV

SCALE | SHEET 1 OF

8038501

ITEM	REQ'D	PART NO.	DESCRIPTION	ITEM	REQ'D	PART NO.	DESCRIPTION
1	3	D-800221	CROSSHEAD	20	3		PZ9 STYLE CLAMP ASSEMBLY
2	6	D-800204	CROSSHEAD GUIDE	21	3	A-800213	BAFFLE DISC.
3	3	802B543	CONNECTING ROD (REF)	22	24		$\frac{3}{4}$" - 10UNC SOCKET HD. CAP. X 2" LG. DRILLED
4	3	PB-003	WRIST PIN BEARING	23	36		$\frac{3}{4}$" - 10UNC SOCKET HD. CAP. X 2" LG.
5	3	803B610	PONY ROD	24	12		$\frac{3}{4}$" - 10UNC HEX HD. CAP. X 2" LG. DRILLED
6	3	B-800206	WRIST PIN RETAINER	25	36		$\frac{5}{8}$" - 11UNC HEX HD. CAP. X 2 $\frac{1}{2}$" LG.
7	3	B-800205	WRIST PIN	26	18		$\frac{5}{8}$" - 11UNC HEX HD. CAP. X 1 $\frac{1}{2}$" LG.
8	3	B-800126	DIAPHRAM PLATE (REF)	27	18		$\frac{1}{2}$" - 13UNC HEX HD. CAP. X 1 $\frac{1}{4}$" LG.
9	3	A-800211	DIAPHRAM PLATE GASKET (REF)	28	12		$\frac{5}{8}$" - 11UNC HEX HD. CAP. X 2" LG. DRILLED
10	3	B-800127	DIAPHRAM CLAMP PLATE (REF)	29	3		PZ9 STYLE PISTON ROD
11	3	C-800207	STUFFING BOX	30			
12	3	B-100412	STUFFING BOX COVER PLATE	31			
13	3	A-100409	PONY ROD PACKING SET	32	1		$\frac{1}{16}$" DIA. TIE WIRE
14	3	A-100410	PACKING CARTRIDGE	33	18		$\frac{1}{2}$" DIA. LOCKWASHER
15	36	A-101233	GUIDE CLAMP BAR	34	54		$\frac{5}{8}$" DIA. PARKER STAT-O-SEAL
16	3	R-002	STUFFING BOX "O"-RING	35	2	B-100403	CROSSHEAD COVER (REF)
17	3	R-003	STUFFING BOX COVER "O"-RING	36	2	B-100404	CROSSHEAD COVER GASKET (REF)
18	3	1001305	STUFFING BOX GASKET	37	24		$\frac{5}{8}$" - 11UNC HEX HD. CAP. X 2" LG. (REF)
19	3	A-800209	WRIST PIN INNER RETAINER	38	24		$\frac{5}{8}$" DIA PARKER STAT-O-SEAL (REF)



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APPLICABLE SPECS UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES
BREAK SHARP CORNERS
FILLET RADII
CONCENTRICITY
SQUARENESS
PARALLELISM
PER EXCEPT WHEN
SIMILAR TO
NEXT ASS'Y
LAYOUT No.

DIMENSIONAL TOL.
FRACT. ± 1/16
X.XXX ± .010
X.XX ± .06
X.X ± .1
ANGLE ± .50 DEGREES
SURFACE FINISH 250
SUPERSEDES
SUPERSEDED BY

MATERIAL SPEC

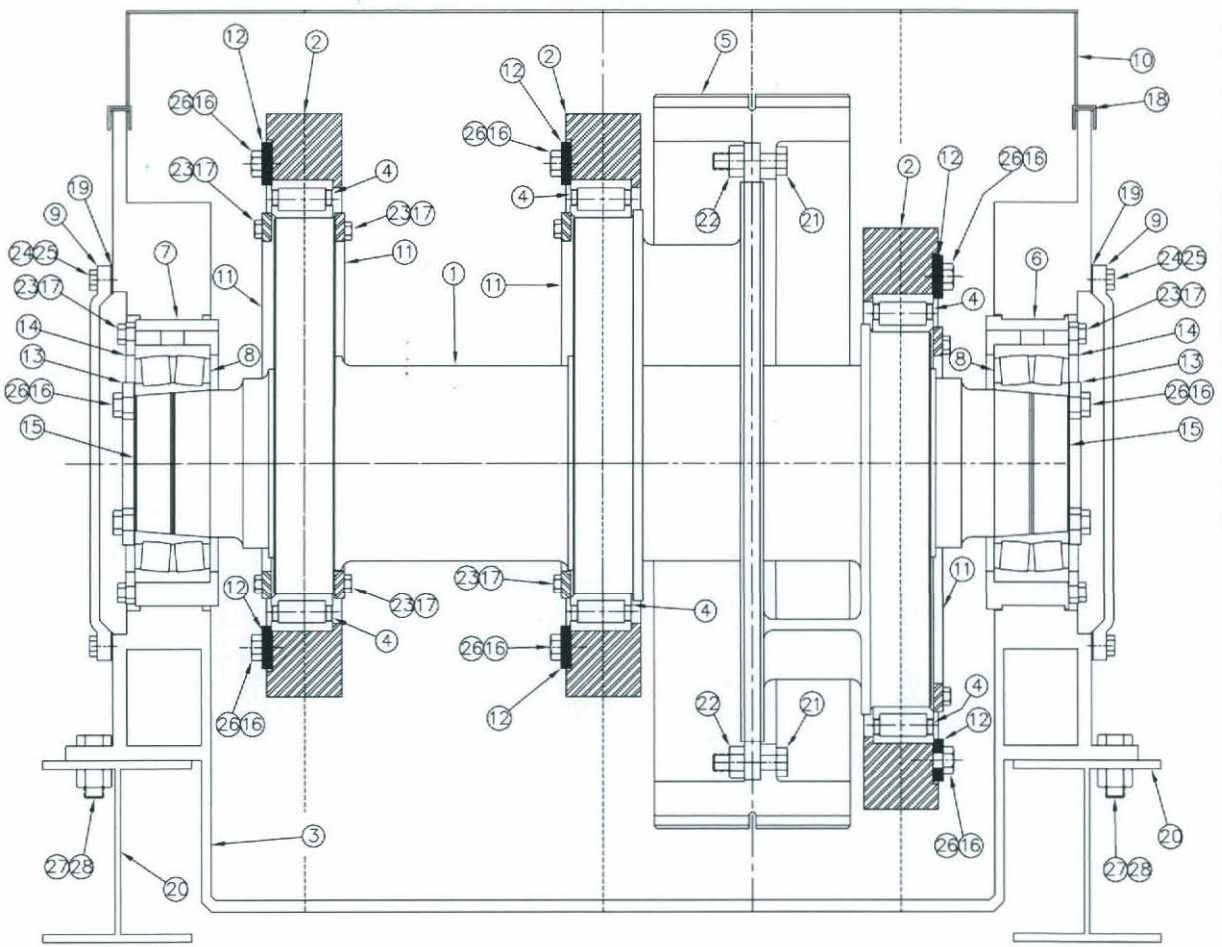
DESIGNED BY JCW DATE 01/13/05
DRAWN BY JCW DATE
CHECKED BY DATE
P.E. APPROVAL DATE
Q.A. REVIEW DATE

ELLIS WILLIAMS ENGINEERING CO., INC.
P.O. BOX 1308 TOMBALL, TEXAS 77377 USA
TEL: 281-290-8577 • FAX: 281-290-8157

TITLE
E-800 TRIPLEX
CROSSHEAD ASSEMBLY

SIZE F | REFERENCE No. | DRAWING No. 803B201 | REV
SCALE | EST WT | SHEET 1 OF

803B201



ITEM	REQ'D	PART #	DESCRIPTION
1	1	802B541	CRANKSHAFT
2	3	802B543	CONNECTING ROD
3	1	803B617(A&B)	FRAME MACHINING (SHORT FRAME REF)
4	3	PB-014	ECCENTRIC BEARING
5	1	801B301	BULL GEAR
6	1	B-101217	MAIN BEARING CARRIER R.H.
7	1	B-101218	MAIN BEARING CARRIER L.H.
8	2	PB-005	MAIN BEARING
9	2	B-101108	MAIN BEARING COVER
10	1	C-800134	CRANKCASE COVER
11	4	802B544	ECC BEARING INNER RACE RETAINER
12	12	A-101219	ECC BEARING OUTER RACE RETAINER
13	2	A-101229	MAIN BEARING INNER RACE RETAINER
14	2	A-101209	MAIN BEARING OUTER RACE RETAINER
15	2	A-101212	MAIN BEARING SHIM SET
16	1		1/4" DIA. NORDLOCK WASHER
17	1		5/8" DIA. NORDLOCK WASHER
18	1	A-100209	CRANKCASE COVER GASKET
19	2	A-101131	MAIN BEARING COVER GASKET
20	1	803B616	PUMP SKID
21	12		7/8" -9UNC HEX HD. CAP X 3 1/2" LG.
22	12		7/8" DIA. ELASTIC STOP NUT
23	44		5/8"-11UNC HEX HD. CAP X 1 3/4" LG. DRILLED
24	16		5/8"-11UNC-2B X 1 1/2" LG HEX HD. CAPS.
25	8		5/8" STATO-SEALS, (SEE NOTE #2)
26	36		3/4"-10UNC HEX HD. CAP X 1 3/4" LG. DRILLED
27	8		1" DIA. X 2 3/4" LG. HEX HD. CAPS
28	8		1" DIA. ELASTIC STOP NUT

INSTRUCTIONS FOR MOUNTING THE MAIN BEARINGS:

1) PUT BEARING ON SHAFT HAND TIGHT (NO PRESS)
2) MEASURE DISTANCE FROM END OF BEARING TO END OF SHAFT
3) SUBTRACT .052" FROM DISTANCE MEASURED & ARRANGE SHIM PACK EQUAL TO RESULT
4) INSTALL SHIM PACK & RETAINER & BLT DOWN TIGHT. RESULTS IN .003" TO .007" FINAL INTERNAL DIAMETRAL CLEARANCE

NOTES:

1) ECCENTRIC BEARING PIECES ARE NOT INTERCHANGEABLE BETWEEN BEARINGS. KEEP ECCENTRIC BEARING PIECES TOGETHER AS FURNISHED BY MANUFACTURER.

2) #24 ARE TO BE PUT ON THE DRILL AND TAPED HOLES THAT FULLY PENETRATE THE CRANKCASE SIDEWALL

3) REPLACES CRANKSHAFT ASSEMBLY DRAWING #C-800401

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APPLICABLE SPECS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
BREAK SHARP CORNERS -
FILLET RADII -
CONCENTRICITY -
SQUARENESS -
PARALLELISM -
DIMENSIONAL TOL.
FRACT. ± 1/32
.XXX ± .005
.XX ± .02
.X ± .1
ANGLE ± .30 DEGREES
SURFACE finish 250

MATERIAL SPEC

DESIGNED BY JDW 5/10/06
DRAWN BY EDS
CHECKED BY
P.E. APPROVAL
Q.A. APPROVAL

ELLIS WILLIAMS ENGINEERING CO., INC.
P.O. BOX 1338 TOMBALL, TEXAS 77377 USA
TEL: 281-290-8637 - FAX: 281-290-8737

TITLE
E-800 TRIPLEX
CRANKSHAFT ASSEMBLY

SIZE E | REFERENCE No. | DRAWING No. 803B402 | REV

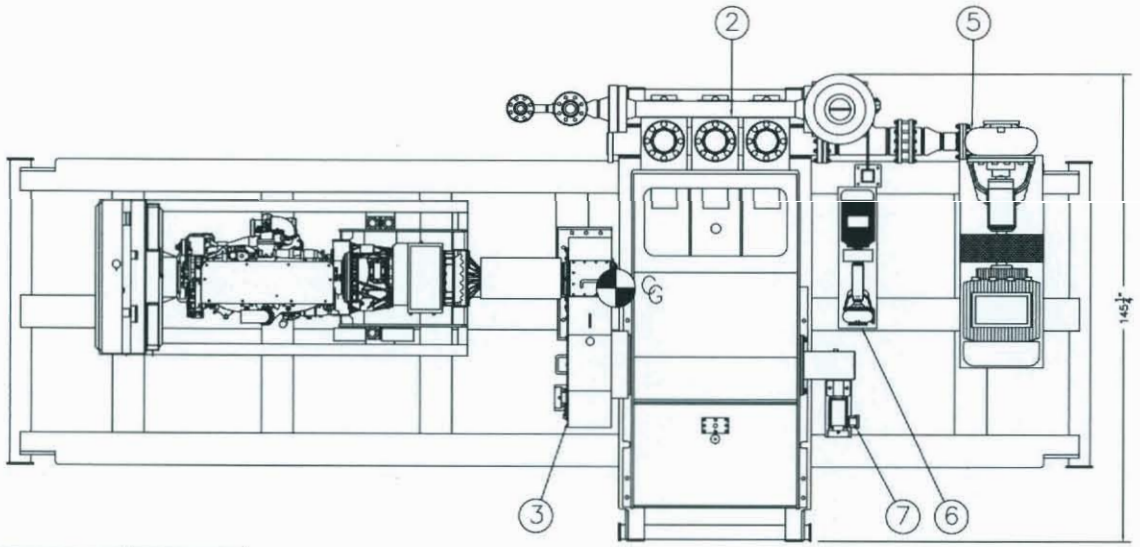
SCALE | CSY NO. | SHEET 1 OF

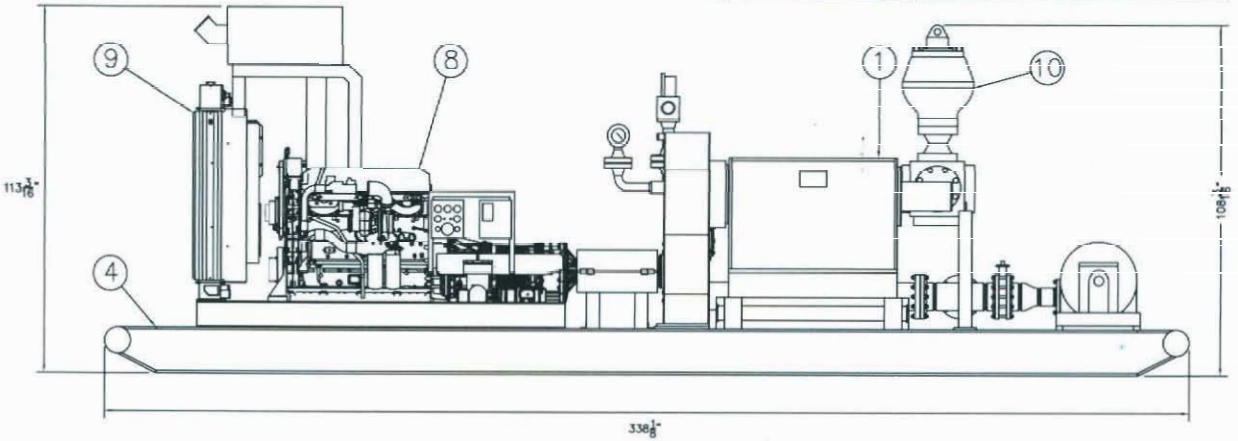
803B402

PARTS QUOTE 2 YEARS OPERATION 1 PUMP

ITEM	QTY	P/N	DESCRIPTION	NET EA.	EXT EA.
1	3	600A518	PISTON ROD	$276.00	$828.00
2	3	803B610	PONY ROD	$1,238.00	$3,714.00
3	9	A100409	PONY ROD PACKING	$355.00	$3,195.00
4	9	R-002	STUFFING BOX O-RING	$5.00	$45.00
5	9	R-003	STUFFING BOX CVR. PLATE O-RING	$5.00	$45.00
6	9	1001305	STUFFING BOX GASKET	$11.70	$105.30
7	3	MA103	PISTON ROD CLAMP	$244.00	$732.00
8	12	600A514	VALVE COVER GASKET	$16.68	$200.16
9	1	600A510	VALVE PLUG	$734.00	$734.00
10	9	600A513	VALVE GUIDE BUSHING	$14.52	$130.68
11	3	600A515	RETAINER RING	$92.50	$277.50
12	1	600A512	FLANGE-VALVE COVER	$648.00	$648.00
13	1	600A516	VALVE COVER	$677.95	$677.95
14	2	C800207	STUFFING BOX	$885.25	$1,770.50
15	3	A100410	PACKING CARTRIDGE	$410.00	$1,230.00
16	9	MA042	VALVE SEAT	$122.80	$1,105.20
17	12	MA041	VALVE	$150.00	$1,800.00
18	24	MA044	VALVE INSERT	$75.00	$1,800.00
19	6	MA043	VALVE SPRING	$14.50	$87.00
20	9	MA045	LINER - 6" W/ GASKET	$695.00	$6,255.00
21	6	MA040	PISTON ASSEMBLY - 6.0"	$146.00	$876.00
22	12	MA171	PISTON RUBBER KIT-6.0"	$75.00	$900.00
23	9	MA183	LINER-6.5, W/GASKET	$710.00	$6,390.00
24	6	MA118	PISTON ASSEMBLY-6.5"	$165.00	$990.00
25	12	MA184	KIT-PISTON RUBBER, 6.5"	$80.00	$960.00
26	12	MA185	GASKET-LINER	$11.75	$141.00
27	1	PA167	1" X 1-1/2" LINER WASH PUMP LESS MOTOR	$1,285.85	$1,285.85
28	1	PA222	GAUGE 0-6K MODEL 8 BIG FACE KPA / PSI	$858.57	$858.57
29	1	PRV1001	SHEAR RELEIF VALVE 0-5K 3"	$1,460.00	$1,460.00
30	2	PA121	20 REPLACEMENT DISCHARGE DAMPENER	$525.00	$1,050.00
31	1	N/A	EXTERNAL LUBE PUMP WITH ADAPTER	988.50	$988.50

ITEM	PART#	DESCRIPTION
1	1255967	PACKAGE, PE, E-600
2	1250877	PACKAGE, FE, E-600, 5K, PZ
3	1244217	PACKAGE, DRIVE, E-600, TYPE 24M, 1.973, DETROIT
4	1254802	PACKAGE, SKID, E-600, TYPE 24M, PZ, DETROIT
5	1244510	PACKAGE, CHARGE PUMP, E-600/E-800, 6X5X11, ELEC
6	1258552	PACKAGE, LWASH, E-600, 1 X 1½", ELEC
7	1258557	PACKAGE, LUBE, E-600, EXT, SINGLE, ELEC, 2HP
8	1256463	PACKAGE, PM, E-600, 24M, DETROIT S60, ALL 4700, AS
9	1258573	PACKAGE, AIR TANK
10	1250901	ASSEMBLY, DISCHARGE ACCESSORIES, TYPE 24, E-600
11	1250206	PISTON, 6", PATROIT
12	1242554	LINER, 6", PATRIOT





NOTE: ENGINE AIR FILTER
DETAILS NOT SHOWN

ITEM #'S 11, 12 NOT SHOWN

EST. WEIGHT: 45,000 LBS.

APPROX. DIMENSIONS:
113¾" TALL X 145¼" WIDE X 338⅛" LONG

REV	DATE	DESCRIPTION
A	5-11-09	UPDATED BOM. CHANGED ITEM #5

PROPRIETARY INFORMATION

APPLICABLE SPECS: UNLESS OTHERWISE SPECIFIED

DESIGNED BY: FDS 11-13-08
DRAWN BY: FDS 11-13-08
CHECKED BY:

ELLIS WILLIAMS ENGINEERING CO., INC.

TITLE: PACKAGE, E-800 TYPE 24M, PZ

SIZE: E | DRAWING No.: D000356759 | REV

SCALE: N/A

1250874