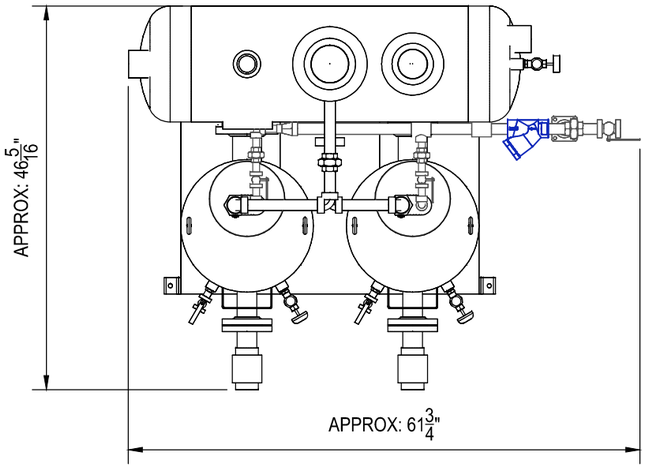
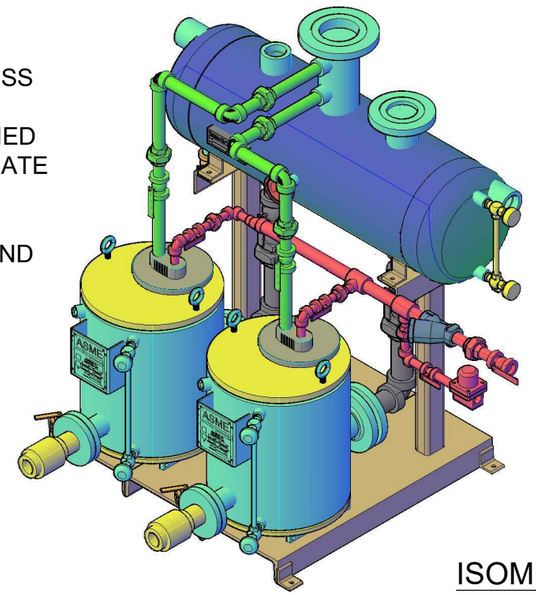


PLAN VIEW

FEATURES AND BENEFITS:
> SINGLE SPRING COMPRESSION MECHANISM
FIVE MILLION CYCLES STANDARD
> INCONEL X SPRING AND STAINLESS STEEL INTERNALS
>ASME CODE SECTION VIII CERTIFIED
>COMPLETE PACKAGED CONDENSATE SYSTEM
>NO SEALS OR CONTROL PANELS
> PUMPS CONDENSATE AT 212°F AND ABOVE STANDARD



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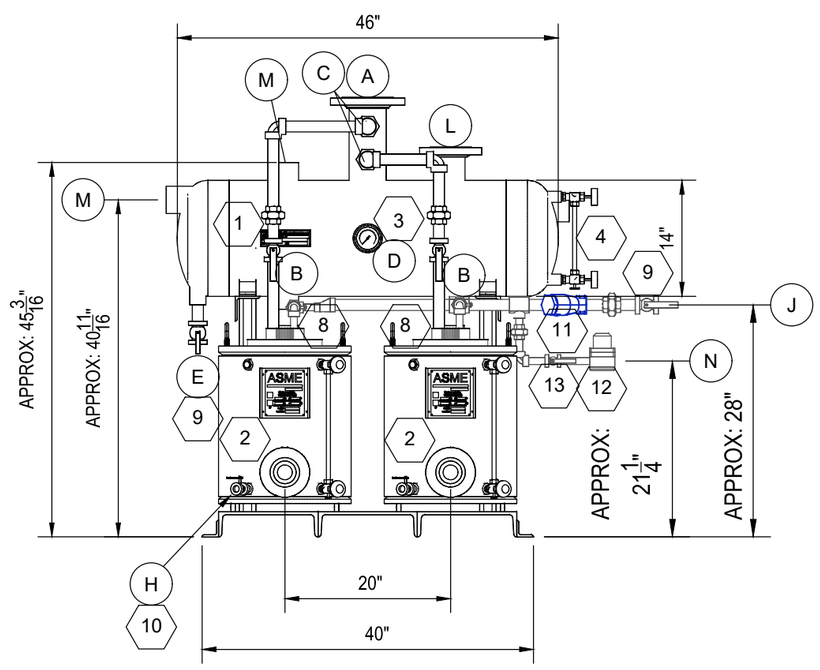
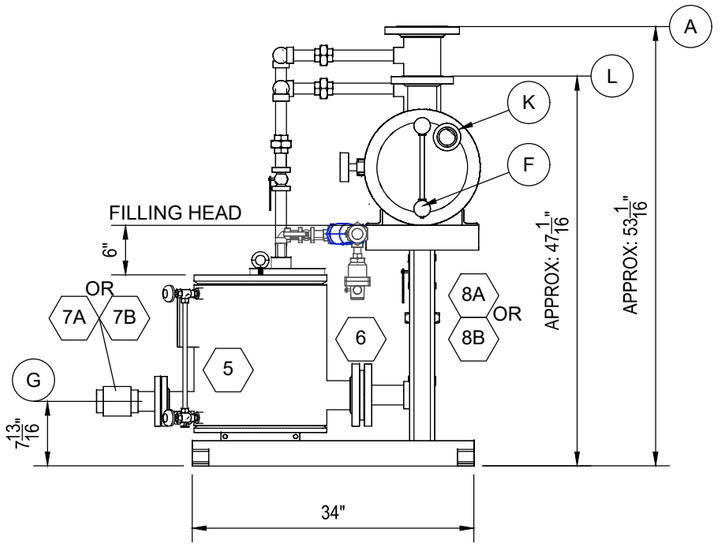


FRONT VIEW



RIGHT SIDE VIEW

NOTE: 150# ASME CONDENSATE RECEIVER AVAILABLE

NOTE: MAX FLASH STEAM TO ATMOSPHERE FOR 4" VENT 600LBS/HR
IF FLASH STEAM EXCEEDS 800LBS/HR CONTACT FACTORY TO AVOID ADVERSE PUMP OPERATION

SHIPPING WEIGHT: 850 LBS

DIM TOL= +/- 1/2"

DESIGN DATA	
CONDENSATE TANK	ATMOSPHERIC - NOT RATED
CONDITION OF SERVICE AND PERFORMANCE DATA	
STEAM MOTIVE PRESSURE	SEE
CONDENSATE BACKPRESSURE	CHART
PUMP CAPACITY EACH	BELOW
MATERIALS of CONSTRUCTION	
TANK SHELL	ASME HEAVY SHELL CARBON STEEL
STAND	CARBON STEEL
PIPING	CARBON STEEL
PUMP	304 STAINLESS STEEL SHELL/SA-516 GR70 HEADS

BILL of MATERIALS

ITEM	*QTY*	*DESCRIPTION*
1	1	THERMAFLO CONDENSATE ASME TANK, 14X46 OAL, 30 GALLON, HEAVY SHELL
2	2	THERMAFLO ENGINEERING MODEL POP-LP ASME CODE PRESSURE OPERATED CONDENSATE PUMP, STAINLESS STEEL INTERNAL MECHANISM
3	1	3" BIMETAL THERMOMETER W/SS WELL, 0-250F
4	1	10" CONBRACO MODEL 24-350 SIGHT LEVEL GAUGE
5	2	14.5" CONBRACO MODEL 24-350 SIGHT LEVEL GAUGE
6	2	3" MODEL CV 12SS, INLET CHECK VALVE, STAINLESS STEEL BODY AND TRIM
7A	2	1-1/2" MODEL 6800, OUTLET CHECK VALVE, STAINLESS STEEL BODY AND TRIM
7B	2	2" MODEL 6800, OUTLET CHECK VALVE, STAINLESS STEEL BODY AND TRIM
8A	2	1-1/2" 3700 DRAIN BALL VALVE, FULL PORT
8B	2	2" 3700 DRAIN BALL VALVE, FULL PORT
9	4	1" 3700 DRAIN BALL VALVE, FULL PORT
10	5	1/2" 3700 DRAIN BALL VALVE, FULL PORT
11	1	1" THERMAFLO YS-12 CAST IRON STRAINER
12	1	1/2" THERMAFLO TT-300 THERMOSTATIC STEAM TRAP

NOZZLES and CONNECTIONS

ITEM	*SIZE (IN)*	*TYPE & RATING*	*SERVICE*
A	4	150# FLG	VENT
B	1-1/2 OR 2	150# FLG	PUMP FEED
C	1	NPT	PUMP EXHAUST
D	3/4	NPT	TEMPERATURE GAUGE
E	1	NPT	DRAIN
F	1/2	NPT	SIGHT LEVEL
G	1-1/2 OR 2	NPT	PUMP OUTLET
H	1/2	NPT	SIGHT LEVEL / DRAIN
J	1	NPT	PUMP MOTIVE
K	2	NPT	OVERFLOW
L	2	150# FLG	CONDENSATE INLET
M	2	NPT	CONDENSATE INLET
N	1/2	NPT	CONDENSATE OUTLET

CAPACITIES STEAM MOTIVE CONDENSATE LBS/HR
LOW PROFILE-DUPLEX-POP-LP

STEAM MOTIVE PRESSURE PSIG	TOTAL BACK PRESSURE PSIG	1.5" x 1.5" 6" FILL HEAD	2" x 2" 6" FILL HEAD
10	5	3,346	5,559
10	2	4,651	9,677
25	15	5,205	7,684
25	10	5,969	9,955
25	5	7,072	11,846
50	40	34,952	5,236
50	25	6,252	10,404
50	10	7,839	11,373
75	40	5,996	9,058
75	15	8,527	12,988
100	60	5,984	8,554
100	40	7,754	10,554
100	25	8,995	12,521
125	115	3,699	5,855
125	80	6,134	8,473
125	60	7,240	10,309
125	40	8,886	11,859
125	25	9,963	12,665
150	100	5,350	6,256
150	80	6,327	7,738
150	60	8,602	9,479
150	40	8,781	11,125
150	25	12,062	12,871

THERMAFLO INC. Since 1986
Manufacturers Of Steam Fired Specialty Equipment
2880 Fair Avenue, Newberry, SC 29108
(704) 940-1228 www.thermafloengineering.com

DESCRIPTION: PRE-PIPED MOTIVE & EXHAUST-LOW PROFILE POP-LP-D-3012-PP-DUPLEX PRESSURE OPERATED PUMP SYSTEM						
CUSTOMER:				JOB #	QTY.	DATE: 07-20-20
SCALE:	DRAWN: RSP	PO #	PLAN #	FILE: POP-LP-D-3012-DUPLEX	REV. # 0	PAGE: 1 OF 1

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