
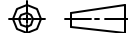


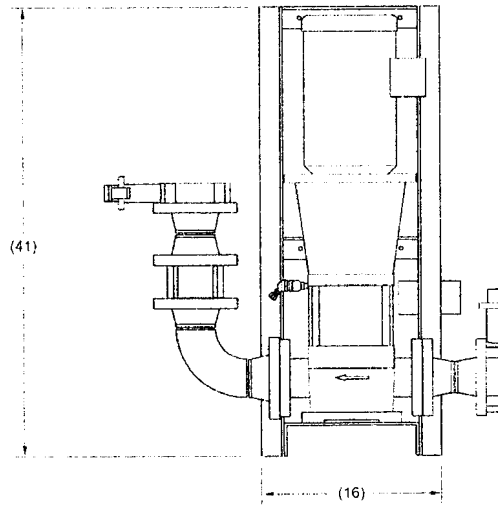
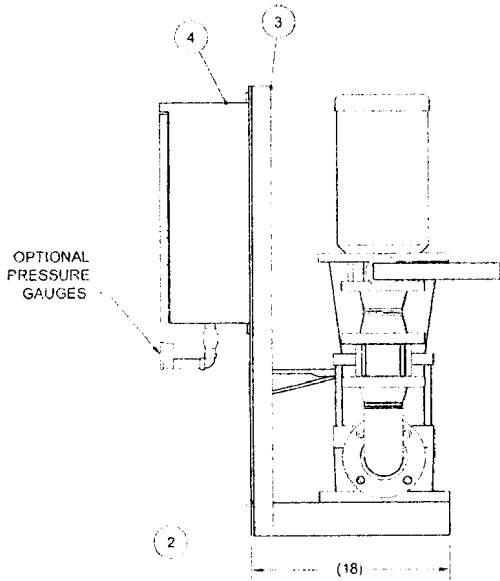
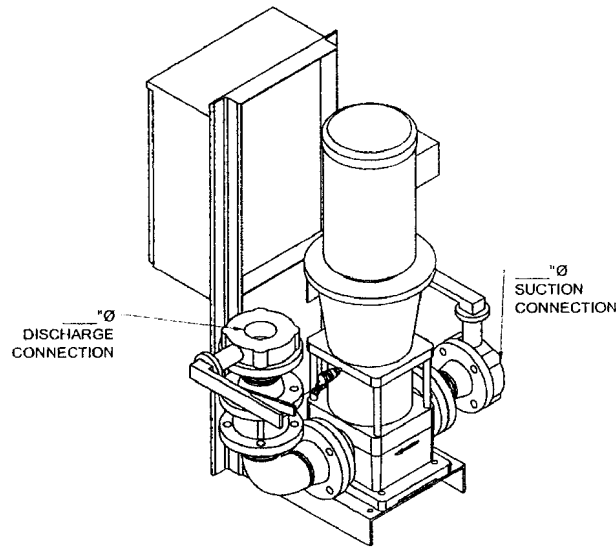
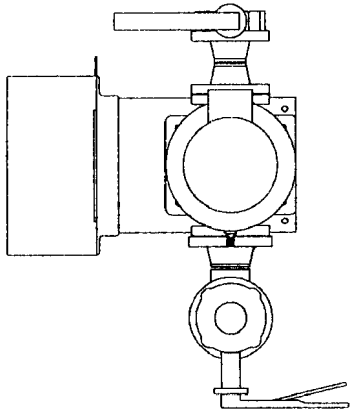
NOTES:

1. FINISH: **ORANGE, ENAMEL PAINT.**
2. CONDITION POINT: \_\_\_\_\_ GPM @ \_\_\_\_\_ PSI  
SUCTION PRESSURE: \_\_\_\_\_ PSI MIN \_\_\_\_\_ PSI MAX.
3. ALL DIMENSIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE: DO NOT USE FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED.

CONT.

4. (XX) INDICATE REFERENCE DIMENSIONS.
5. PIPE SUPPORTS NOT SHOWN FOR CLARITY.
6. ALL WELDING DONE BY ASME CODE SECTION 9 CERTIFIED WELDERS.
7. FILL BASE WITH NON-SHRINKING, NON-FERROUS GROUT: FAILURE TO DO VOIDS TIGERFLOW WARRANTY.

REV	DESCRIPTION	DWN	CHK	DATE
15	1 ASSEMBLY, SPOOL TANK FEED	-	-	-
14	1 FLANGE, GROOVED, CLASS 150, _____"	-	-	-
13	1 COUPLING, C-3 FLEXIBLE, GRVD W/EPDM GSKT, MAX PRES 300# - _____"	-	-	-
12	1 CAP (PLUG), STANDARD GROOVED - _____"	-	-	-
11	2 VALVE, CHECK, WAFER, VAL-MATIC 1403, _____"	-	-	-
10	4 VAL, B/FLY, LEVER HNDL, BF-03, 03-121-15-M2 - _____"	-	-	-
9	2 ASSEMBLY, SPOOL	-	-	-
8	1 ASSEMBLY, SKID	-	-	-
7	2 ASSEMBLY, HEADER, _____"	-	-	-
6	4 ASSEMBLY, ELBOW	-	-	-
5	1 ASSEMBLY, DUPLEX, TEMP PROBE AND PURGE LINE	-	-	-
4	1 ASSEMBLY, PANEL STAND	-	-	-
3	1 CONTROL PANEL	-	-	-
2	2 VFD, _____ HP	-	-	-
1	2 PUMP, _____ / MOTOR, _____ HP, _____ RPM, _____ / _____ / _____	-	-	-
SYM	QTY	PART	P/N	
Parts List				
		DALLAS, TX 75237 PHONE: (800) 783-6756 FAX: (214) 333-2742 E-MAIL: <a href="mailto:engineering@tigerflow.com">engineering@tigerflow.com</a> WEB SITE: <a href="http://www.tigerflow.com">www.tigerflow.com</a>		
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-ALL DIMENSIONS ARE REFERENCE ONLY -DO NOT SCALE DRAWING		CHK	DATE	
		PRODUCTION#		
<input type="checkbox"/> MANUFACTURING DRAWING		PROJECT NAME		
-LINEAR TOLERANCE ±1/8" -ANGULAR TOLERANCE ±5°		NAME		
-DO NOT SCALE DRAWING -DIMENSIONS ARE IN INCHES -DIMENSIONING PER ASME Y14.5-1994		OUTLINE		
THIRD ANGLE PROJECTION		PAGE NUMBER		
		SCALE	DRAWING #	REV
		NTS		1



REV	DESCRIPTION	DWN	CHK	DATE
14	1			11-10-025
13	1			BS-40-029
12	1			BS-42-020
11	2			825-0525567
10	1			827-1425
9	1			
8	1			SPOOL-3-TOL-0
7	1			PAGE
6	1			PAGE
5	1			PAGE
4	1			
3	1			STD-10-030-00
2	1			BSS-1218-A
1	1			-
SYM	QTY	PART		P/N

**TIGERFLOW**  
Engineered Systems to the World

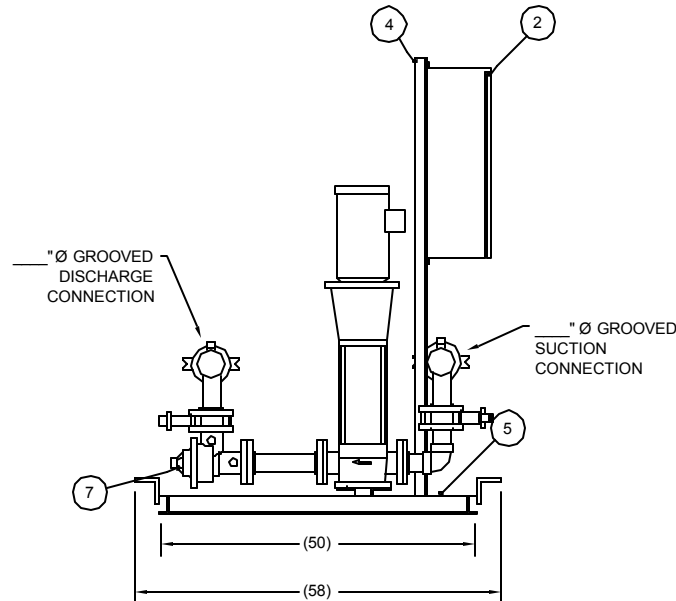
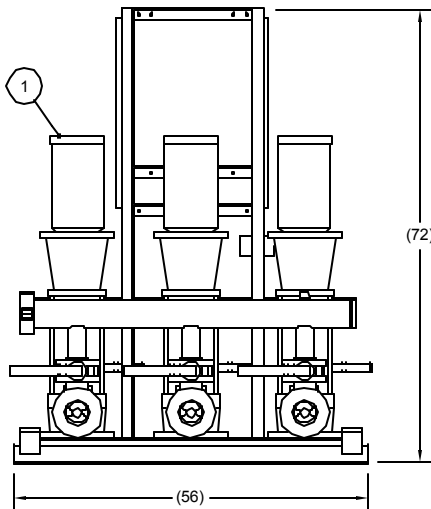
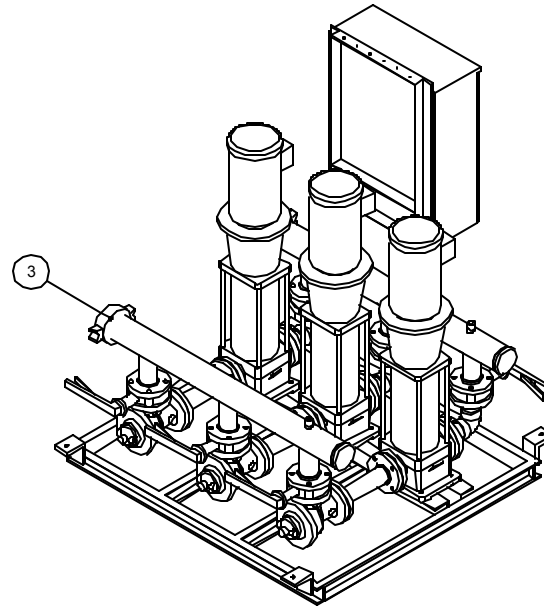
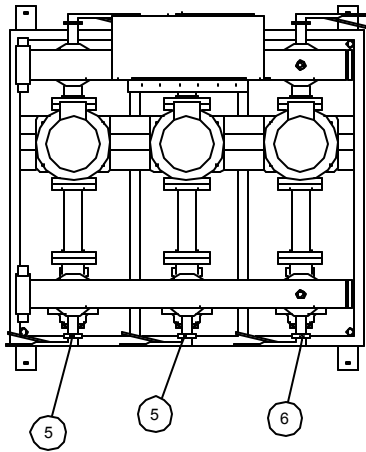
DALLAS, TX 75237  
PHONE: (800) 783-6756  
FAX: (214) 333-2742  
E-MAIL: [engineering@tigerflow.com](mailto:engineering@tigerflow.com)  
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<b>SALES DRAWING</b>		OSN	D. CLARK	DATE	02/16/04
ALL DIMENSIONS ARE REFERENCE ONLY		CHK		DATE	
<b>MANUFACTURING DRAWING</b>		PRECISION #			
		PRECISION NAME			
		NAME			
		ES-3000-MB HORIZONTAL BOOSTER, SIMPLEX. 2-1/2" CHECK VALVE			
		MODEL KEY			
		THIRD ANGLE PROJECTION	SCALE		
			1:18		
		STRAYING #	P-N	REV	

TANK		P/N
AMTROL ST-210V		14-10-050
NONE		
OTHER		
NO PRESSURE GAGES		
PRESSURE GAGES		
QTY	PART	P/N
1	GAGE, LM 2 1/2", 30"-0-160 PSI	13-10-060
1	GAGE -160 PSI	13-10-070
2	VALVE, 1/4"	13-12-030

- NOTES:
1. FINISH: ORANGE, ENAMEL PAINT.
  2. CONDITION POINT: \_\_\_\_\_ GPM @ \_\_\_\_\_ PSI  
SUCTION PRESSURE: \_\_\_\_\_ PSI MIN \_\_\_\_\_ PSI MAX.
  3. ALL DIMENSIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE: DO NOT USE FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED
- CONT.
4. (XX) INDICATE REFERENCE DIMENSIONS
  5. PIPE SUPPORTS NOT SHOWN FOR CLARITY.
  6. ALL WELDING DONE BY ASME CODE SECTION 9 CERTIFIED WELDERS
  7. FILL BASE WITH NON-SHRINKING, NON-FERROUS GROUT: FAILURE TO DO VOIDS TIGERFLOW WARRANTY.
  8. SHIM IF NECESSARY.


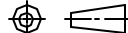


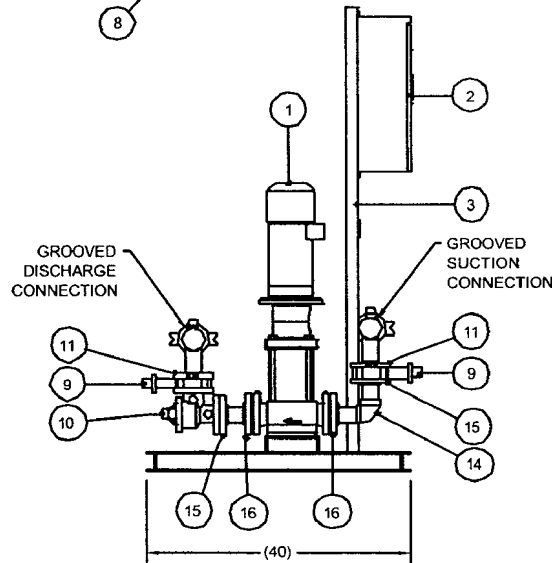
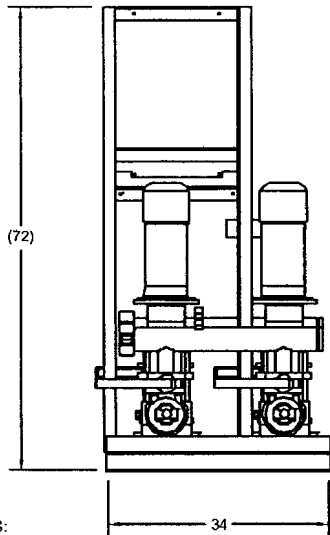
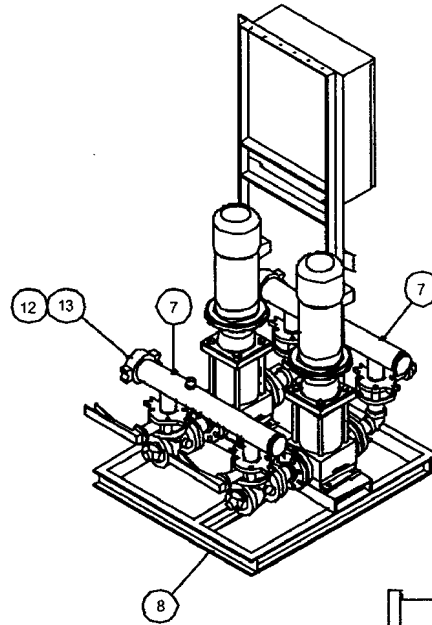
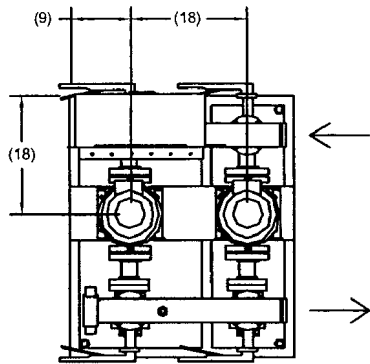
NOTES:

1. FINISH: **ORANGE ENAMEL PAINT.**
2. CONDITION POINT: \_\_\_ GPM @ \_\_\_ PSI  
SUCTION PRESSURE: \_\_\_ PSI MIN \_\_\_ PSI MAX.
3. ALL DIMENSIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE: DO NOT USE FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED.

CONT.

4. (XX) INDICATE REFERENCE DIMENSIONS.
5. PIPE SUPPORTS NOT SHOWN FOR CLARITY.
6. ALL WELDING DONE BY ASME CODE SECTION 9 CERTIFIED WELDERS.
7. FILL BASE WITH NON-SHRINKING, NON-FERROUS GROUT: FAILURE TO DO VOIDS TIGERFLOW WARRANTY.

REV	DESCRIPTION	DWN	CHK	DATE
10	2	PLUG, GROOVED		
9	2	COUPLING, GROOVED		
8	4	ANGLE, 4"x4"x5/8" THK, 3" LONG, SPRING MOUNTING		810-040400625
7	3	VALVE, PRESSURE REDUCING / REGULATING, WATTS 1115-3, ___"		
6	6	VALVE, BUTTERFLY, WATTS BF-03, ___"		
5	1	ASSEMBLY, SKID		
4	1	ASSEMBLY, PANEL STAND		
3	2	ASSEMBLY, HEADER, STAINLES STEEL, ___"		
2	1	CONTROL PANEL		
1	3	PUMP, _____, MOTOR, ___ HP @ ___ RPM, ___ / ___ / ___ Hz., ___.		
SYM	QTY	PART		P/N
Parts List				
		DALLAS, TX 75237 PHONE: (800) 783-6756 FAX: (214) 333-2742 E-MAIL: <a href="mailto:engineering@tigerflow.com">engineering@tigerflow.com</a> WEB SITE: <a href="http://www.tigerflow.com">www.tigerflow.com</a>		
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<input checked="" type="checkbox"/> SUBMITTAL DRAWING		DSN <b>D. CLARK</b>	DATE 08/30/04	
-ALL DIMENSIONS ARE REFERENCE ONLY -DO NOT SCALE DRAWING		CRK	DATE	
<input type="checkbox"/> MANUFACTURING DRAWING		PROJECT NAME		
-LINEAR TOLERANCE ±1/8" -ANGULAR TOLERANCE ±5°  -DO NOT SCALE DRAWING -DIMENSIONS ARE IN INCHES -DIMENSIONING PER ASME Y14.5-1994		NAME  <b>OUTLINE</b>		
THIRD ANGLE PROJECTION		MODEL KEY		
		SCALE <b>1:30</b>	DRAWING #	REV --



NOTES:

1. FINISH: ORANGE, ENAMEL PAINT.
2. CONDITION POINT: GPM @ PSI  
SUCTION PRESSURE: PSI MIN \_\_\_\_ PSI MAX.
3. ALL DIMENSIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE: DO NOT USE FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED.
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6. ALL WELDING DONE BY ASME CODE SECTION 9 CERTIFIED WELDERS.
7. FILL BASE WITH NON-SHRINKING, NON-FERROUS GROUT: FAILURE TO DO VOIDS TIGERFLOW WARRANTY.
8. "▲" IS TO BE A HELD DIMENSION.

18	4	GASKET, RING, NON ABS 1/16"
17	6	NIPPLE, SS S/40 T-304
16	4	FLANGE, RF THRD, SS T-304
15	4	FLANGE, RF THRD, SS T-304
14	2	ELBOW, THRD, 150#, SS T-304
13	2	COUPLING, C-3 FLEX LT WGT, GRVD W/EPDM GSKT, MAX PRES 300#
12	2	CAP (PLUG), STANDARD GROOVED
11	4	ADAPTER, FLANGE, STD, PAINTED, F1
10	2	VAL, PRV/CK, AP, 1115-3, FLANGE 150# DI, STD 20-175 - _____
9	4	VAL, B/FLY, LEVER HNDL, BF-03, 03-121-15-M2 - _____
8	1	ASSEMBLY, SKID
7	2	ASSEMBLY, HEADER
6	1	TUBING ASSEMBLY,-PLASTIC NO-GAUGES
5	1	ASSEMBLY, LOW FLOW BY PASS, DUPLEX
4	1	ASSEMBLY, DUPLEX, TEMP PROBE AND PURGE LINE
3	1	PANEL STAND
2	1	CONTROL PANEL
1	2	PUMP, GRUNDFOS _____ 3600 RPM, _____/_____/60, ODP EFFICIENCY MOTOR


SYM	QTY	PART
-----	-----	------

Parts List



DALLAS, TX 75237  
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 FAX: (214) 333-2742  
 E-MAIL: [engineering@tigerflow.com](mailto:engineering@tigerflow.com)  
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<input checked="" type="checkbox"/> SUBMITTAL DRAWING -ALL DIMENSIONS ARE REFERENCE ONLY -DO NOT SCALE DRAWING	DESIGNED BY _____ DATE _____ CHECKED BY _____ DATE _____
	PROJECT NAME _____ NAME _____ MODEL KEY _____
<input type="checkbox"/> MANUFACTURING DRAWING -LINEAR TOLERANCE ±1/8" -ANGULAR TOLERANCE ±5° -DO NOT SCALE DRAWING -DIMENSIONS ARE IN INCHES -DIMENSIONING PER ASME Y14.5-1994	OUTLINE DRAWING # _____ REV _____
THIRD ANGLE PROJECTION  SCALE _____ NTS	REV _____ A

## **SUBMITTALS & INSURANCE CERTIFICATIONS**

Submittals shall be in accordance with requirements of general specifications. Submit 6 copies to the engineer for approval. All submittals must include the following:

- Complete shop drawings and complete wiring diagrams. All drawings must be AUTOCADD Release 14; complete with full mechanical Desk Top 3-D drawings in both hardcopy and disk format. Complete operating and maintenance instructions.
- Furnish written certification of the manufacturers listing with Underwriters Laboratories as an approved manufacturer of control panels.
- Furnish written certification that the manufacturer is listed by UL/C-UL as an approved manufacturer of factory assembled pumping systems.
- A complete, easily readable functional description of the proposed equipment.
- Upon completion of the installation, the results of the field and acceptance tests as specified under this section of the specification shall be submitted to the engineer.
- Furnished written certification from the manufacturers representative of the proper installation of the station.
- Provide written certification that, a nationally recognized manufacturer of package pump systems, manufactures the pump system. A corporate officer must sign this certification.
- Operation and maintenance manuals:  
Submit complete operations and maintenance information for this specific equipment. The engineer shall review these manuals for completeness. They shall include complete parts list including manufacturers reference and ordering number, the local representative name, address and phone number, the model and serial number of the system.
- The manufacturers shall submit a certificate of product liability insurance for no less than one million dollars (\$1,000,000)

## **QUALITY ASSURANCE**

- All equipment under this section shall be furnished by a single supplier and shall be products that the manufacturer regularly engages in. The supplier shall have sole responsibility for proper functioning of the system and equipment supplied.
- Equipment shall be a manufacturer's standard product presently in commercial production.
- The manufacturer shall have in place a quality assurance program to assure the quality of the material furnished.

## **QUALIFICATIONS**

- The manufacturer shall have a minimum of ten years manufacturing and application experience.
- Upon request from the engineer, the pump station manufacturer shall demonstrate proof of financial responsibility with respect to performance and delivery date.
- Upon request from the engineer, the pump station manufacturer shall provide proof or evidence of facilities, equipment and skills required to produce the equipment specified herein.

**LAG PUMP SEQUENCING**

Each lag pump shall be sequenced by: (Combination Flow & Pressure sequencing with programmable minimum run timers and time delay relays) (Model 220 stainless steel insertion type paddle wheel flow sensor complete with digital flow indication in GPM through operator interface). NOTE: Pressure switches in lieu of pressure transducers will not be allowed.

**TANK LOCATION AND LEAD PUMP SEQUENCING**

The Hydro-Pneumatic tank shall be (skid mounted) (adjacent to system) with feed line between lead pump(s) PRV'(s) and check valve(s), (Remote mounted as shown per drawings) (No tank continuous run operation). Note: Adjacent mounting requires contractor field connection.

**HYDRO-PNEUMATIC TANK**

Provide a Section VIII, ASME CODE, National Board stamped, Hydro-Pneumatic tank. Tank shall be provided complete with a FDA approved replaceable bladder, bottom connection, air fill valve, and gauge. Tank shall be (Model TF132, 132 Gal., 125 PSI) (MODEL TF 185, 185 Gal., 200 PSI).

**FACTORY PREFABRICATION**

Provide each system as a complete package system on a structural steel mounting frame, piped, tubed, mounted and wired. Unit shall be factory primed and painted with machine grade finish coat. All welding shall be performed by ASME Section 9 certified welders.

Suction and discharge headers shall be: (Stainless steel) (Galvanized Steel), (Type "L" Copper).

Note: (1) System manufacturer shall isolate all ferrous from all non-ferrous materials.

**THIRD PARTY TESTING, OSHA REQUIREMENT**

The package shall be UL Listed as a system for its intended use, so meeting OSHA Federal Regulations 29 CFR 1910.303 and 399 as well as NFPA Pamphlet #70 (National Electric Code) Article 90-7, City of Los Angeles Approval Code, CMR248 Massachusetts State Plumbing Code Approval.

**FACTORY TEST**

The package shall be electrically and hydrostatically tested before shipment, in addition, each system shall be factory tested from 0-100% of flow and pressure. (Provide certified x-y test report.)

**STARTUP**

The factory authorized local representative shall provide (2) hours of startup and field training.

**WARRANTY**

Each **TIGERFLOW** system shall be warranted for a period of (18) months from date of shipment or (12) months from date of startup, whichever occurs first.

**RELIEF VALVE**

- (1) 1 1/2" warts 1116-5 (construction same control valves).  
Combination pressure relief and check valve, (2) 1 1/2" stainless steel full port ball valves, 1 1/2" stainless steel piping discharge back to suction.  
(1) Stainless steel low flow bypass assembly.

**GAUGE STAND**

Gauge stand with (5) 4" Dia. stainless steel, liquid filled gauges, stainless steel sensing lines and stainless steel cocks.

**U.L. LISTED POWER AND CONTROL PANEL**

- (1)U.L. Listed, NEMA 4 Tiger's Eye Mark II Solid State, Power and Control Panel  
(\* )U.L./C-U.L. 508 Label  
(\* )Micro Controller:  
-FLASH Main Memory  
-EEPROM Memory For All User Set points  
-Multi Level Security  
(\* )Panel Face Mounted 4-Line Operator Interface with 20 Button Touch Pad  
Functions Included:  
-Comb Flow & Pressure Sequencing with Read Out in PSI & GPM  
-Suction and Discharge Pressure Read Out in PSI  
-Individual Pump Run Indication  
-H-O-A Selectors  
-ETM's  
-Low Suction Alarm with TDR  
-Low System with TDR  
-High Suction Shutdown and TDR  
-High System Alarm with TDR  
-Emergency power contacts  
-PRV station failure shutdown alarm  
-Fire pump shutdown alarm  
-Automatic Alternation of Equal Sized Pumps  
(3)Thru Door Disconnect(s) with Individual Motor Circuit Protection  
(3)FVNR Magnetic Starters with 3-Leg Overload Protection  
(\* ) 12 Volt U.L./C-U.L., CE Approved Switching Power Supply. Unit Must Have Built-In  
Breaker Bar with Over Demand Protection  
(\* ) 120 Volt Fused Control Circuit Transformer  
(1)Power on Light  
(1)Individual Aux Alarm Contacts  
(2)Panel Mounted stainless steel Pressure Transducers [(1) 0-25# Suction, (1) 0-500# Discharge]

**DATE:****PROJECT:****ENGINEER:****REP:**

**SPECIFICATION FOR VERTICAL  
MULTI-STAGE BOOSTER SYSTEM  
SIMPLEX, DUPLEX, TRIPLEX**

Furnish and install a **TIGERFLOW** Series VMS-4000, (Simplex) (Duplex) (Triplex) U.L./C-U.L. Listed Engineered packaged water Booster System. The system shall be rated for a system flow of \_\_\_\_ GPM at a system pressure of \_\_\_\_ PSIG including a suction pressure of \_\_\_\_ PSIG minimum, \_\_\_\_ PSIG maximum.

**PUMP(S) & MOTOR(S)**

Pump(s) shall be \_\_\_\_\_, series \_\_\_\_\_, Cast Iron, Stainless Steel, Mechanical Seal Vertical Multi-Stage type each rigid-coupled to a \_\_\_\_ RPM, \_\_\_\_ Voltage, \_\_\_\_ Phase, \_\_\_\_ Hz, high efficiency motor.

Pump No. 1 shall be **Model** \_\_\_\_\_, \_\_\_\_\_ **GPM at** \_\_\_\_ **TDH**, \_\_\_\_ **HP**

Pump No. 2 shall be **Model** \_\_\_\_\_, \_\_\_\_\_ **GPM at** \_\_\_\_ **TDH**, \_\_\_\_ **HP**

Pump No. 3 shall be **Model** \_\_\_\_\_, \_\_\_\_\_ **GPM at** \_\_\_\_ **TDH**, \_\_\_\_ **HP**

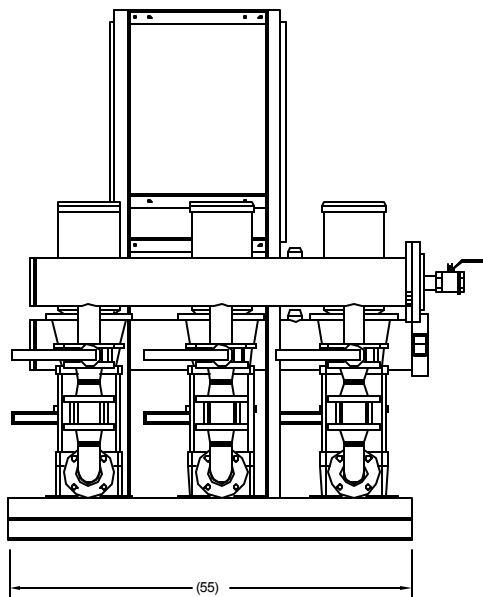
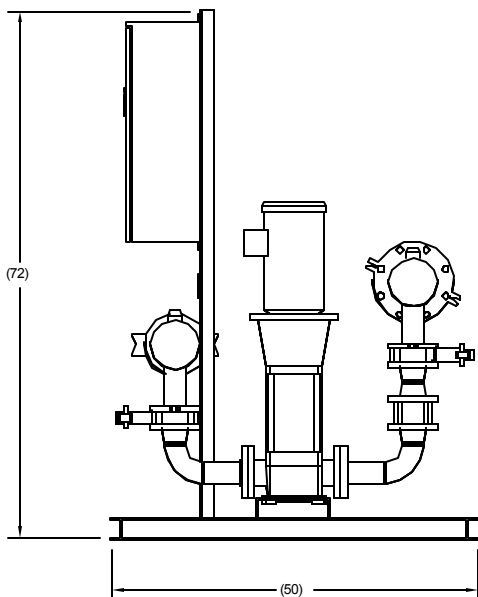
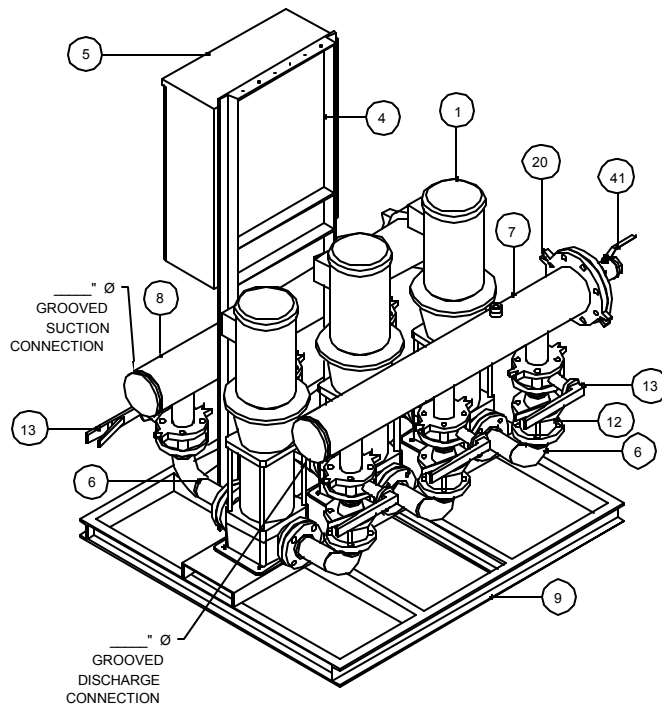
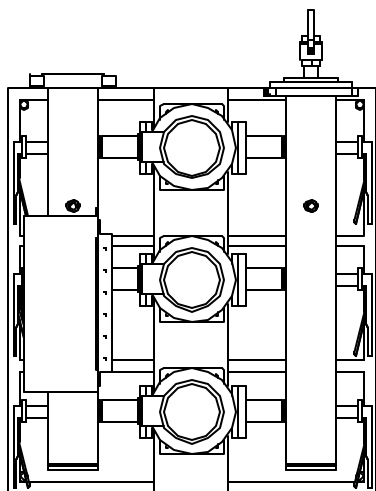
**VALVES**

Isolation Valves: Individual pump suction and discharge valves shall be provided ((1) 2", (2) 2 \_") stainless steel (Discharge Full Port Ball Valve(s)) ((1) 2", (2) 2 \_") (Suction Lug Style Butterfly Valve(s) with Lever handle(s)). (Epoxy coated cast iron, stainless steel disc).

Control Valves: Provide a combination pressure regulating and non-slam check valve on the discharge of each pump. Valve shall be complete with fused epoxy coating inside and out, stainless steel internals, stainless steel braided piloting and stainless steel cover bolting. Stainless steel sensing lines, stainless steel high pressure pilots ((1) 2", (2) 2 \_").

**OVER-TEMPERATURE PROTECTION**

Each pump shall be equipped with an individual stainless steel combination type non-electric temperature probe and purge assembly. Complete with stainless steel PRV on stainless steel purge line.



NOTES:

1. FINISH: **ORANGE, ENAMEL PAINT.**
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SUCTION PRESSURE: \_\_\_\_\_ PSI MIN \_\_\_\_\_ PSI MAX.
3. ALL DIMENSIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. DO NOT USE FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED.

CONT.

4. (XX) INDICATE REFERENCE DIMENSIONS.
5. PIPE SUPPORTS NOT SHOWN FOR CLARITY.
6. ALL WELDING DONE BY ASME CODE SECTION 9 CERTIFIED WELDERS.
7. FILL BASE WITH NON-SHRINKING, NON-FERROUS GROUT: FAILURE TO DO VOIDS TIGERFLOW WARRANTY.

REV	DESCRIPTION	DWN	CHK	DATE
41	1 ASSEMBLY, SPOOL, TANK FEED	-	-	-
26	6 GASKET, RING, NON ABS 1/16" - _____"	-	-	-
20	1 FLANGE, GROOVED, CLASS 150, _____"	-	-	-
19	6 FLANGE, GROOVED, CLASS 150, _____"	-	-	-
18	1 COUPLING, C-3 FLEXIBLE, GRVD W/EPDM GSKT, MAX PRES 300# - _____"	-	-	-
17	1 CAP, STANDARD GROOVED - _____" (NSF COAT)	-	-	-
13	6 VAL., B/FLY, DOMESTIC, LEVER HNDL, BF-03, 03-131-15-M2 - _____"	-	-	-
12	3 VAL., 125# / 250# WAFER SILENT CK, BRONZE TRIM - _____"	-	-	-
11	1 ASSEMBLY, TRIPLEX, TEMP PROBE AND PURGE LINE	-	-	-
10	3 ASSEMBLY, SPOOL	-	-	-
9	1 ASSEMBLY, SKID	-	-	-
8	1 ASSEMBLY, HEADER, SUCTION	-	-	-
7	1 ASSEMBLY, HEADER, DISCHARGE	-	-	-
6	6 ASSEMBLY, ELBOW	-	-	-
5	1 ASSEMBLY, CONTROL PANEL	-	-	-
4	1 ASSEMBLY, PANEL STAND	-	-	-
2	3 VFD, _____ HP	-	-	-
1	3 PUMP, _____ / MOTOR _____ HP, _____ RPM, _____/_____/_____	-	-	-

SYM	QTY	PART	PIN
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Parts List



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<input checked="" type="checkbox"/> SUBMITTAL DRAWING	DSN D. CLARK	DATE 08/27/04
-ALL DIMENSIONS ARE REFERENCE ONLY -DO NOT SCALE DRAWING	CHK	DATE
<input type="checkbox"/> MANUFACTURING DRAWING	PRODUCTION #	PROJECT NAME
-LINEAR TOLERANCE ±1/8" -ANGULAR TOLERANCE ±5°	NAME	OUTLINE
-DO NOT SCALE DRAWING -DIMENSIONS ARE IN INCHES -DIMENSIONING PER ASME Y14.5-1994	PAGE #	PAGE 1
THIRD ANGLE PROJECTION	SCALE	DRAWING #
	NTS	REV 1