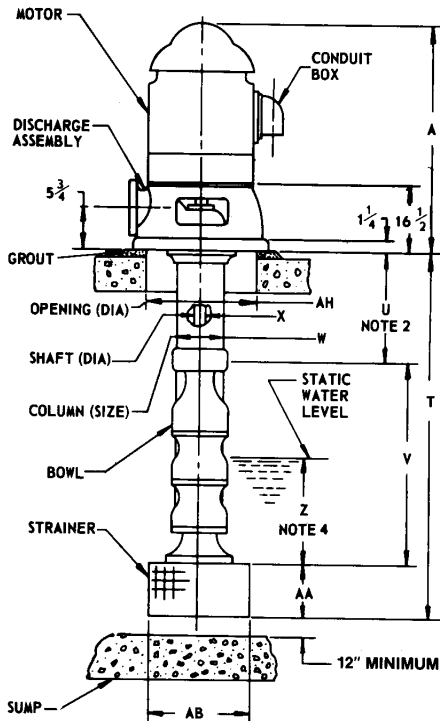
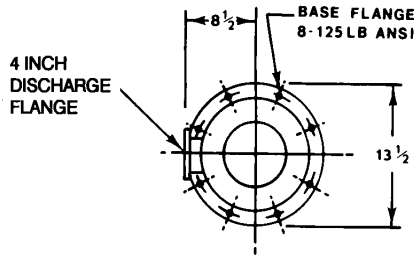




**Pump Unit Outline Dimensions**  
**8MAF 250 GPM**



**Notes:**

- ① This drawing describes sump installation, above ground discharge head with threaded O. L. S. column and driver with bolted down ratchet.
- ② Column length "U" minimum is 10 inches and maximum of 50 feet.
- ③ Dimensions are in inches unless otherwise indicated.
- ④ Submergence "Z" is minimum for proper priming and or operating 150% of design capacity, based on sea level elevation and a maximum water temperature of 85° (NFPA Pamphlet No. 20 requirements)

**Weights:**

Motor..... Lb  
 Pump..... Lb  
 Extra Column... Lb  
 Total..... Lb

✓	Discharge Assembly Size	Lb. ANSI Discharge Flange	A	Motor Wt.	Each Add'l 10 ft of Column Wt. Lbs.
	4 x 4 x 10C	125			142
	4 x 4 x 10CHP	250			142

✓	Pump Bowl Size	T	U	Stage Length-First	Stage Length-Added	V	W	X	Z	AA	AB	AH	4 Stg. Pump Wt. Lb	Ea. Add'l. Stg. Wt. Lb.
	8MAF			9.0	5.75		4		12	6	8	8.50	616	120

Customer \_\_\_\_\_ Job Name \_\_\_\_\_  
 P. O. No. \_\_\_\_\_ Item No \_\_\_\_\_  
 S. O. No. \_\_\_\_\_ Serial No. \_\_\_\_\_  
 Motor Mfr. \_\_\_\_\_ Enclosure \_\_\_\_\_ Frame \_\_\_\_\_ Hp. \_\_\_\_\_ Volts \_\_\_\_\_ Ph. \_\_\_\_\_ Hz. \_\_\_\_\_  
 Pump Model \_\_\_\_\_ No. Of Stages. \_\_\_\_\_ Rpm \_\_\_\_\_ GPM \_\_\_\_\_ Bowl Head Feet \_\_\_\_\_  
 Certified for  Approval  Construction By \_\_\_\_\_ Date \_\_\_\_\_  
 Pump:  UL Listed  ULC Listed  FM Approved

Subject to change unless certified for construction

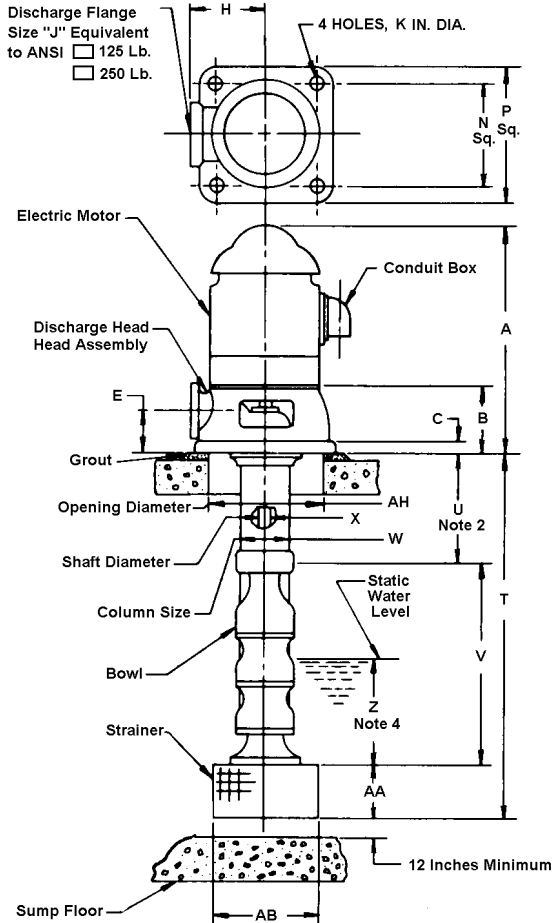
**DT 4846630**

Rev. 12-98

**VERTICAL TURBINE FIRE PUMPS**  
Electric Motor Driven



Peerless Pump Company  
Indianapolis, IN 46207-7026



**Note 1:** This drawing describes a Vertical Turbine Fire Pump with Above Ground Discharge Head Casting, Threaded Open Line Shaft Column, Motor having bolted down ratchet.

**Note 2:** Column length **U** dimension is 10 Inches minimum and 50 feet maximum.

**Note 3:** All dimensions are in inches unless otherwise noted.

**Note 4:** Submergence **Z** is minimum for proper priming and/or operation at 150% of design capacity, based on sea level elevation and a maximum water temperature of 85° F. per NFPA Pamphlet No. 20.

**Weights:**

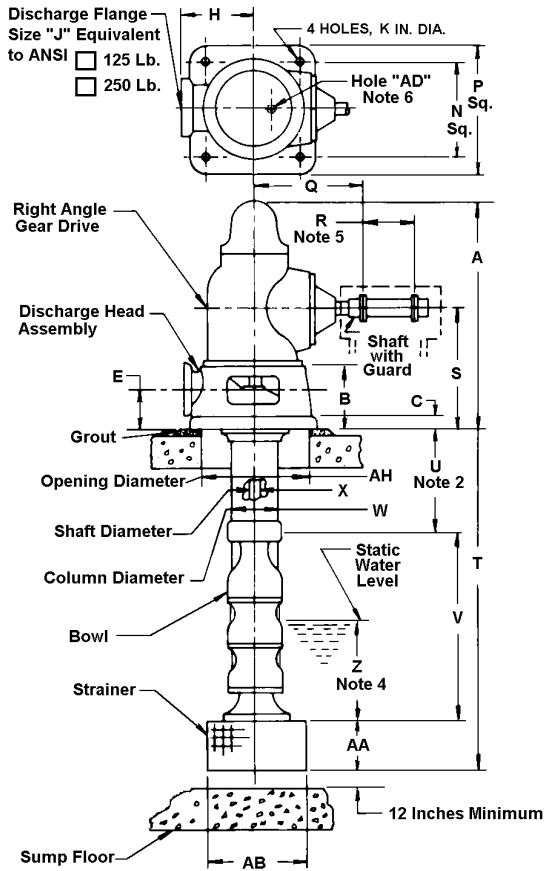
Basic Two Stage Pump \_\_\_\_\_  
 Electric Motor \_\_\_\_\_  
 Additional Stages \_\_\_\_\_  
 Additional Column \_\_\_\_\_  
 \_\_\_\_\_ Feet \_\_\_\_\_  
**Total** \_\_\_\_\_

✓	Discharge Assembly Size	A	B	C	E	H (125 Lb Flg.) (-S Head)	H (250 Lb Flg.) (-SHP Head)	J	K	N	P	Each Additional 10 Feet of Column Weight Lb.		
	6 x 6 x 12		13.69	0.75	6.50	8.00	NA	6	0.75	13.25	1 5	243		
	6 x 8 x 16-1/2		14.75	1.25	7.75	10.25	10.88	6	1.00	18.00	2 0	270		
	8 x 8 x 16-1/2		14.75	1.25	7.75	10.25	10.88	8	1.00	18.00	2 0	355		
	10 x 10 x 16-1/2		18.00	1.50	9.00	10.25	11.12	10	1.00	18.00	2 0	455		
	10 x 10 x 20		18.00	1.50	9.00	10.25	11.12	10	1.00	18.00	2 0	455		
	12 x 12 x 20		21.00	1.75	10.50	12.25	13.12	12	1.00	21.00	2 3	597		
✓	Pump Bowl Size	T	U	Stage Length-First	Stage Length-Added	V	W	X	Z	AA	AB	AH	2 Stg. Pump Wt. Lb.	Ea. Add'l. Stg. Wt. Lb.
	10MAF			16.81	7.50		6		10	8.63	10.25	12	919	75
	12MBF			19.50	9.50		8		19	10.00	12.00	14	1114	106
	14MCF			25.25	12.62		10		25	12.00	14.00	15	1531	160
	14MDF			31.25	13.25		10		25	15.38	15.50	17	1555	200
	16MCF			27.88	14.50		10		25	12.00	16.00	17	1824	275
	16HXBF			25.75	12.12		12		25	12.00	16.00	17	2210	275
	18HXBF			21.75	13.25		12		24	14.00	18.00	19	2655	500

Customer \_\_\_\_\_ Job Name \_\_\_\_\_  
 P. O. No. \_\_\_\_\_ Item No. \_\_\_\_\_  
 Invoice No. \_\_\_\_\_ Serial No. \_\_\_\_\_  
 Motor Mfr. \_\_\_\_\_ Enclosure \_\_\_\_\_ Frame \_\_\_\_\_ Hp \_\_\_\_\_ Volts \_\_\_\_\_ Ph. \_\_\_\_\_ Hz. \_\_\_\_\_  
 Pump Model \_\_\_\_\_ No. Of Stages \_\_\_\_\_ Rpm \_\_\_\_\_ GPM \_\_\_\_\_ Bowl Head Feet \_\_\_\_\_  
 Certified for \_\_\_\_\_ By \_\_\_\_\_ Date \_\_\_\_\_

Pump  UL Listed  ULC Listed  FM Approved  
 Subject to change unless certified for construction by factory

**DT 4853134**  
Rev. 08-02



**Note 1:** This drawing describes a Vertical Turbine Fire Pump with Above Ground Discharge Head Casting, Treaded Open Line Shaft Column, Right angle gear having bolted down ratchet.

**Note 2:** Column length **U** dimension is 10 Inches minimum and 50 feet maximum.

**Note 3:** All dimensions are in inches unless otherwise noted.

**Note 4:** Submergence **Z** is minimum for proper priming and/or operation at 150% of design capacity, based on sea level elevation and a maximum water temperature of 85° F. per NFPA Pamphlet No. 20.

**Note 5:** Length **R** may be adjusted plus or minus 3/8 inch.

**Note 6:** Tapped hole **AD** is to be connected by the customer to opening marked **Raw Water Inlet** on the engine outline drawing.

**Weights:**

Basic Two Stage Pump	_____
Right Angle Gear	_____
Additional Stages	_____
Additional Column	_____
_____ Feet	_____
<b>Total</b>	_____

✓	Discharge Assembly Size	A	B	C	E	H (125 Lb Flg) (-S Head)	H (250 Lb Flg) (-SHP Head)	J	K	N	P	Q	R	S	AD NPT	Each Additional 10 Feet of Column Weight Lb.
	6 x 6 x 12		13.69	0.75	6.50	8.00	NA	6	0.75	13.25	15				3/4	243
	6 x 8 x 16-1/2		14.75	1.25	7.75	10.25	10.88	6	1.00	18.00	20				3/4	270
	8 x 8 x 16-1/2		14.75	1.25	7.75	10.25	10.88	8	1.00	18.00	20				3/4	355
	10 x 10 x 16-1/2		18.00	1.50	9.00	10.25	11.12	10	1.00	18.00	20				3/4	455
	10 x 10 x 20		18.00	1.50	9.00	10.25	11.12	10	1.00	18.00	20				3/4	455
	12 x 12 x 20		21.00	1.75	10.50	12.25	13.12	12	1.00	21.00	23				1	597
✓	Pump Bowl Size	T	U	Stage Length-First	Stage Length-Added	V	W	X	Z	AA	AB	AH	2 Stage Pump Wt. Lb.	Ea. Add'l. Stage Wt. Lb.		
	10MAF			16.81	7.50		6		10	8.63	10.25	12	919	75		
	12MBF			19.50	9.50		8		19	10.00	12.00	14	1114	106		
	14MCF			25.25	12.62		10		25	12.00	14.00	15	1531	160		
	14MDF			31.25	13.25		10		25	15.38	15.50	17	1555	200		
	16MCF			27.88	14.50		10		25	12.00	16.00	17	1824	275		
	16HXBF			25.75	12.12		12		25	12.00	16.00	17	2210	275		
	18HXBF			21.75	13.25		12		24	14.00	18.00	19	2655	500		

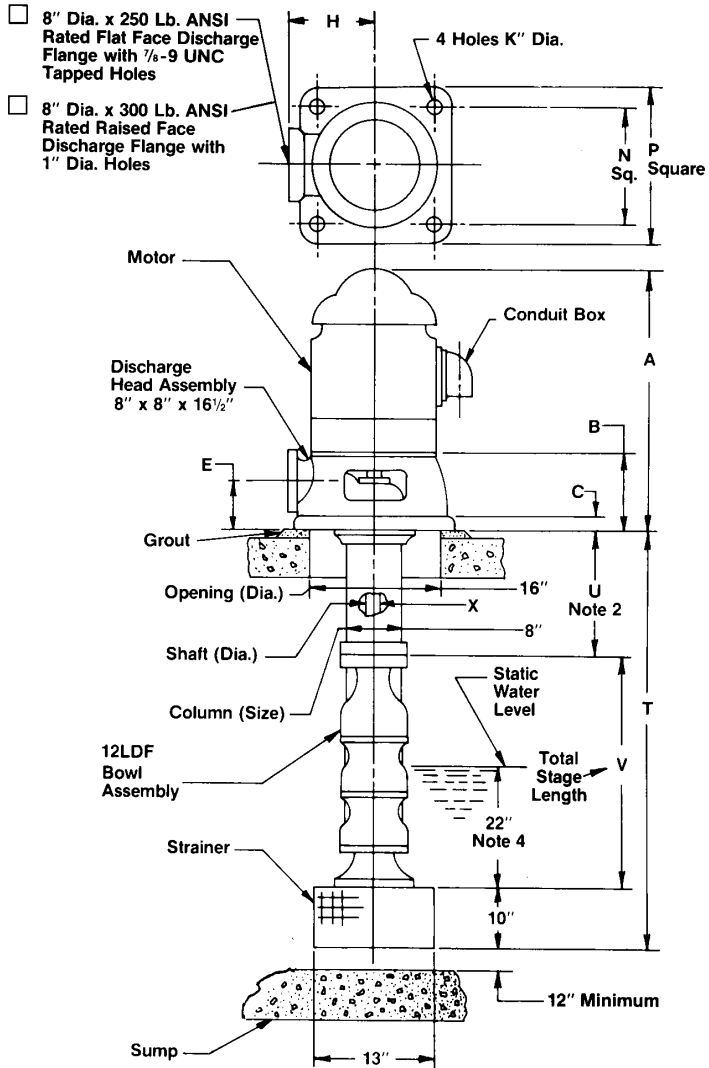
Customer \_\_\_\_\_ Job Name \_\_\_\_\_  
 P. O. No. \_\_\_\_\_ Item No. \_\_\_\_\_  
 Invoice No. \_\_\_\_\_ Serial No. \_\_\_\_\_  
 Gear Mfr. \_\_\_\_\_ Size \_\_\_\_\_ Ratio \_\_\_\_\_  
 Pump Model \_\_\_\_\_ No. Of Stages \_\_\_\_\_ Rpm \_\_\_\_\_ Gpm \_\_\_\_\_ Bowl Head Feet \_\_\_\_\_  
 Certified for  Approval  Construction By \_\_\_\_\_ Date \_\_\_\_\_  
 Pump  UL Listed  ULC Listed  FM Approved Right Angle  FM Approved

Subject to change unless certified for construction by factory

**VERTICAL TURBINE FIRE PUMPS**  
Electric Motor Driven



**Peerless Pump Company**  
Indianapolis, IN 46207-7026



**Note 1:** This drawing describes a Vertical Turbine Fire Pump with Above Ground Discharge Head Casting, Threaded Open Line Shaft Column, Motor having bolted down ratchet.

**Note 2:** Column length **U** dimension is 10 Inches minimum and 50 feet maximum.

**Note 3:** All dimensions are in inches unless otherwise noted.

**Note 4:** Submergence **Z** is minimum for proper priming and/or operation at 150% of design capacity, based on sea level elevation and a maximum water temperature of 85° F. per NFPA Pamphlet No. 20.

**Weights:**

Basic Two Stage Pump	_____
Electric Motor	_____
Additional Stages	_____
Additional Column	_____
_____ Feet	_____
<b>Total</b>	_____

✓	Discharge Assembly Size	Maximum Working Pressure	A	B	C	E	H	N	P	K	T	U	X	V	Each Additional 10 Feet of Column Weight Lb.
	8 x 8 x 16-1/2x 250 Lb ANSI	400		14.75	1.25	7.75	10.88	18.00	20	1.00					375
	8 x 8 x 16-1/2x 300 Lb ANSI	600		31.12	1.75	9.75	15.00	21.00	24	1.12					375

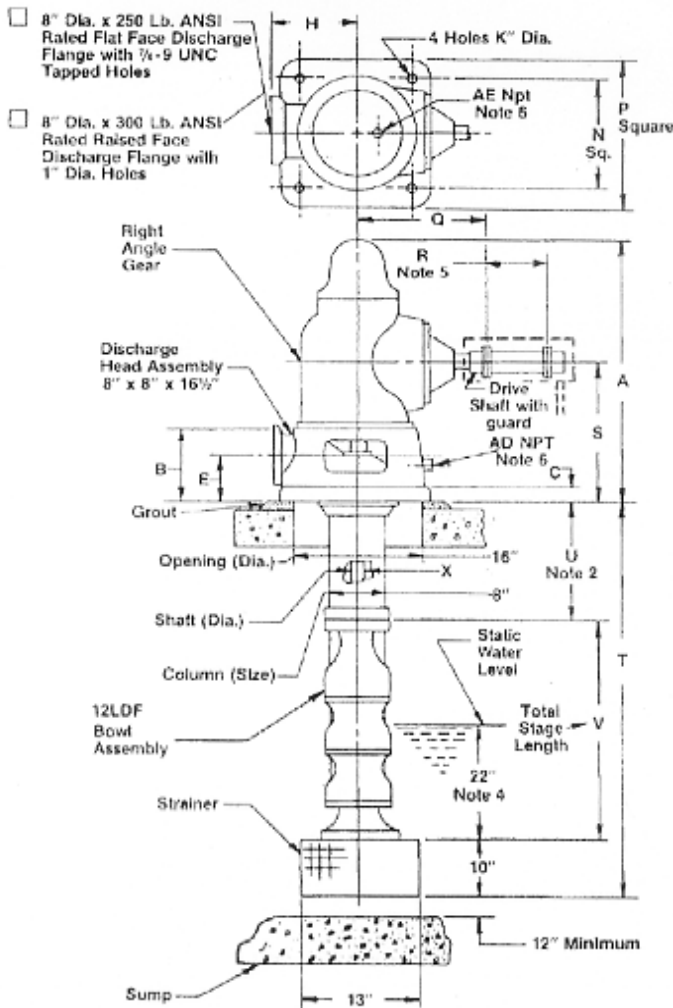
No. of Stages	8	9	10	11	12	13	14
Dimension "V"	100.25	111.75	123.25	134.75	146.25	157.75	169.25
Weight Pump Less Driver 10' OLS Column	1542	1648	1754	2131	2237	2343	2449

Customer \_\_\_\_\_ Job Name \_\_\_\_\_  
 P. O. No. \_\_\_\_\_ Item No. \_\_\_\_\_  
 Invoice No. \_\_\_\_\_ Serial No. \_\_\_\_\_  
 Motor Mfr. \_\_\_\_\_ Enclosure \_\_\_\_\_ Frame \_\_\_\_\_ Hp \_\_\_\_\_ Volts \_\_\_\_\_ Ph. \_\_\_\_\_ Hz. \_\_\_\_\_  
 Pump Model \_\_\_\_\_ No. Of Stages \_\_\_\_\_ Rpm \_\_\_\_\_ GPM \_\_\_\_\_ Bowl Head Feet \_\_\_\_\_  
 Certified for  Approval  Construction By \_\_\_\_\_ Date \_\_\_\_\_  
 Pump  UL Listed  ULC Listed  FM Approved  
 Subject to change unless certified for construction by factory

**DT 4851126**  
Rev. 12-98



**VERTICAL TURBINE FIRE PUMPS**  
Diesel Engine Driven  
Type 12LDF with Right Angle Gear Drive  
Dimensional Outline



**Note 1:** This drawing describes a Vertical Turbine Fire Pump with Above Ground Discharge Head Casting, Flanged Open Line Shaft Column, Right Angle Hollow Shaft Gear having bolted down ratchet.

**Note 2:** Column length *U* dimension is 10 Inches minimum and 50 feet maximum.

**Note 3:** All dimensions are in inches unless otherwise noted.

**Note 4:** Submergence is minimum for proper priming and/or operation at 150% of design capacity, based on sea level elevation and a maximum water temperature of 85° F. per NFPA Pamphlet No. 20.

**Note 5:** Length *R* may be adjusted plus or minus 3/8 inch.

**Note 6:** Tapped hole is to be connected by the customer to opening marked *Raw Water Inlet* on the engine outline drawing.

**Weights:**

Basic 8 Stage Pump	1542 Lb.
Add for Each Additional Stage Add 106 Lb	Lb.
Right Angle Gear	Lb.
Additional Column	Lb.
_____ Feet _____ Lb	Lb.
<b>Total</b>	<b>Lb.</b>

Pump Model	Discharge Head Size & Discharge Flange ANSI Rating Lb	Discharge Head Maximum Working Pressure PSI	A	B	C	E	H	N	P	K	Q	R	S	T	U	V	X	AD	AE
12LDF	250	400	14.75	1.25	7.75	10.88	18	20	1.00									3/4	-
12LDF	300	600	31.12	1.75	9.75	15.00	21	24	1.12									-	1

No of Stages	8	9	10	11	12	13	14
Dimension V	100.25	111.75	123.25	134.75	146.25	157.75	169.25

Customer \_\_\_\_\_ Job Name \_\_\_\_\_  
 P. O. No. \_\_\_\_\_ Item No. \_\_\_\_\_  
 Invoice No. \_\_\_\_\_ Serial No \_\_\_\_\_  
 Gear Mfr. \_\_\_\_\_ Size \_\_\_\_\_ Ratio \_\_\_\_\_

Pump Model \_\_\_\_\_ No. Of Stages \_\_\_\_\_ Rpm 1760 GPM \_\_\_\_\_ Bowl Head Feet \_\_\_\_\_

Certified for  Approval  Construction By \_\_\_\_\_ Date \_\_\_\_\_

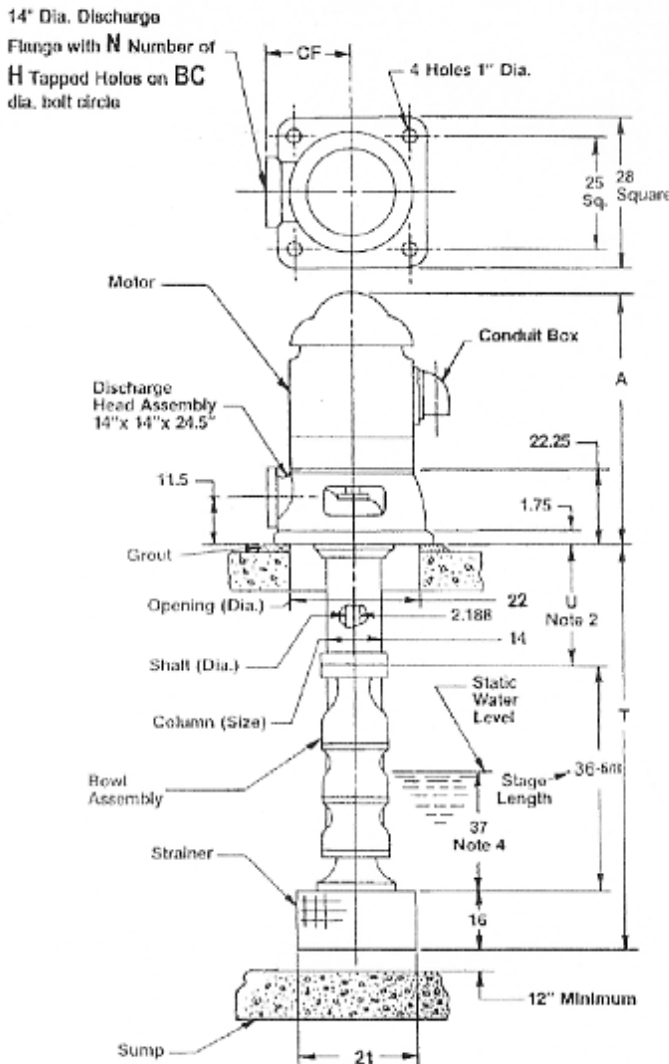
Pump  UL Listed  ULC Listed  FM Approved Right Angle Gear  FM Approved DT 4851127

Subject to change unless certified for construction by factory

**VERTICAL TURBINE FIRE PUMPS**  
**Electric Motor Driven**  
**Type 20HXBF**  
**Dimensional Outline**



Peerless Pump Company  
Indianapolis, IN 46207-7026



**Note 1:** This drawing describes a Vertical Turbine Fire Pump with Above Ground Discharge Head Casting, Flanged Open Line Shaft Column, Electric Vertical Hollow Shaft Motor having bolted down ratchet.

**Note 2:** Column length *U* dimension is 10 inches minimum and 50 feet maximum.

**Note 3:** All dimensions are in inches unless otherwise noted.

**Note 4:** Submergence is minimum for proper priming and/or operation at 150% of design capacity, based on sea level elevation and a maximum water temperature of 85° F, per NFPA Pamphlet No. 20.

**Weights:**

Basic Two Stage Pump	3570 Lb.
Electric VHS Motor	Lb.
Additional Column	Lb.
_____ Feet _____	Lb.
<b>Total</b>	<b>Lb.</b>

Pump Model	Discharge Flange ANSI Rating Lb	Discharge Head Maximum Working Pressure PSI	Variable Dimensions				Discharge Flange Holes		
			A	T	U	CF	N	BC	H
20HXBF	125	150				14.75	12	18.75	1-8 UNC
20HXBF	250	250				15.62	20	20.25	1-1/8-7 UNC

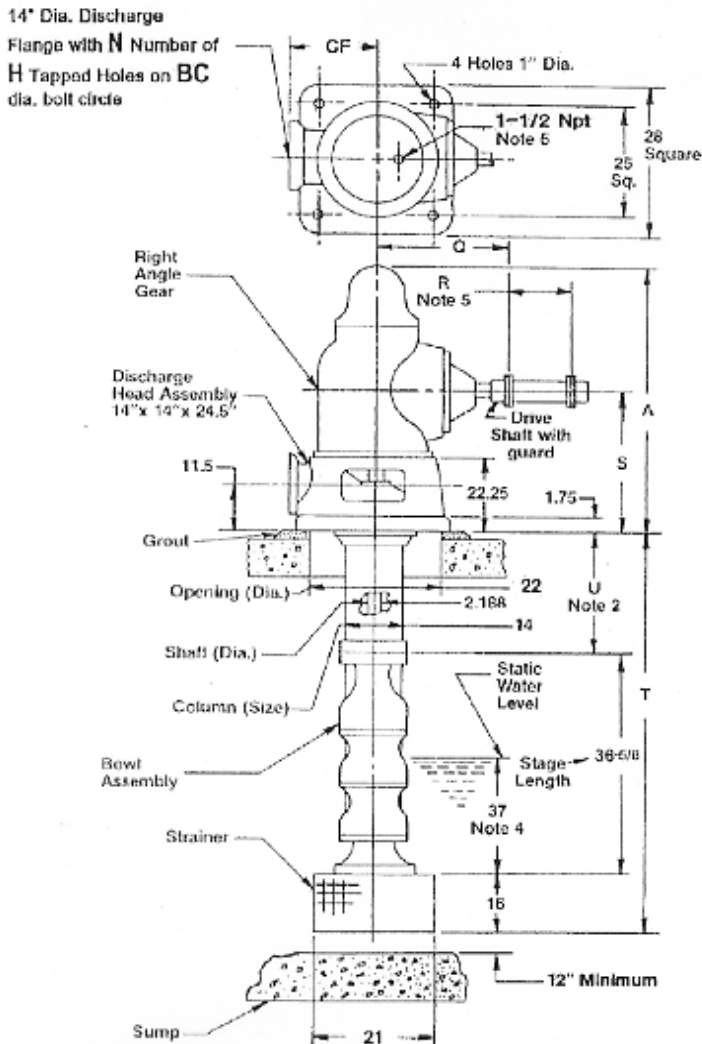
Customer \_\_\_\_\_ Job Name \_\_\_\_\_  
P. O. No. \_\_\_\_\_ Item No. \_\_\_\_\_  
Invoice No. \_\_\_\_\_ Serial No. \_\_\_\_\_  
Motor Mfg. \_\_\_\_\_ Hp \_\_\_\_\_ Volts \_\_\_\_\_ Ph \_\_\_\_\_ Hz \_\_\_\_\_ Frame \_\_\_\_\_  
Pump Model \_\_\_\_\_ No. Of Stages 2 Rpm 1760 GPM \_\_\_\_\_ Bowl Head Feet \_\_\_\_\_  
Certified for  Approval  Construction By \_\_\_\_\_ Date \_\_\_\_\_  
Pump  UL Listed  ULC Listed  FM Approved Electric Motor  UL Listed

Subject to change unless certified for construction by factory

DT 4849200  
Rev. 8-00



**VERTICAL TURBINE FIRE PUMPS**  
Diesel Engine Driven  
Type 20HXBF with Right Angle Gear Drive  
Dimensional Outline



**Note 1:** This drawing describes a Vertical Turbine Fire Pump with Above Ground Discharge Head Casting, Flanged Open Line Shaft Column, Right Angle Hollow Shaft Gear having bolted down ratchet.

**Note 2:** Column length *U* dimension is 10 inches minimum and 50 feet maximum.

**Note 3:** All dimensions are in inches unless otherwise noted.

**Note 4:** Submergence is minimum for proper priming and/or operation at 150% of design capacity, based on sea level elevation and a maximum water temperature of 85° F. per NFPA Pamphlet No. 20.

**Note 5:** Length *R* may be adjusted plus or minus 3/8 inch.

**Note 6:** Tapped hole is to be connected by the customer to opening marked *Raw Water Inlet* on the engine outline drawing.

**Weights:**

Basic Two Stage Pump	3570 Lb.
Right Angle Gear	_____ Lb.
Additional Column	_____ Lb.
_____ Feet	_____ Lb.
<b>Total</b>	_____ Lb.

✓	Pump Model	Discharge Flange ANSI Rating Lb	Discharge Head Maximum Working Pressure PSI	Variable Dimensions							Discharge Flange Holes		
				A	Q	R	S	T	U	CF	N	BC	H
	20HXBF	125	150							14.75	12	18.75	1-8 UNC
	20HXBF	250	250							15.62	20	20.25	1-1/8-7 UNC

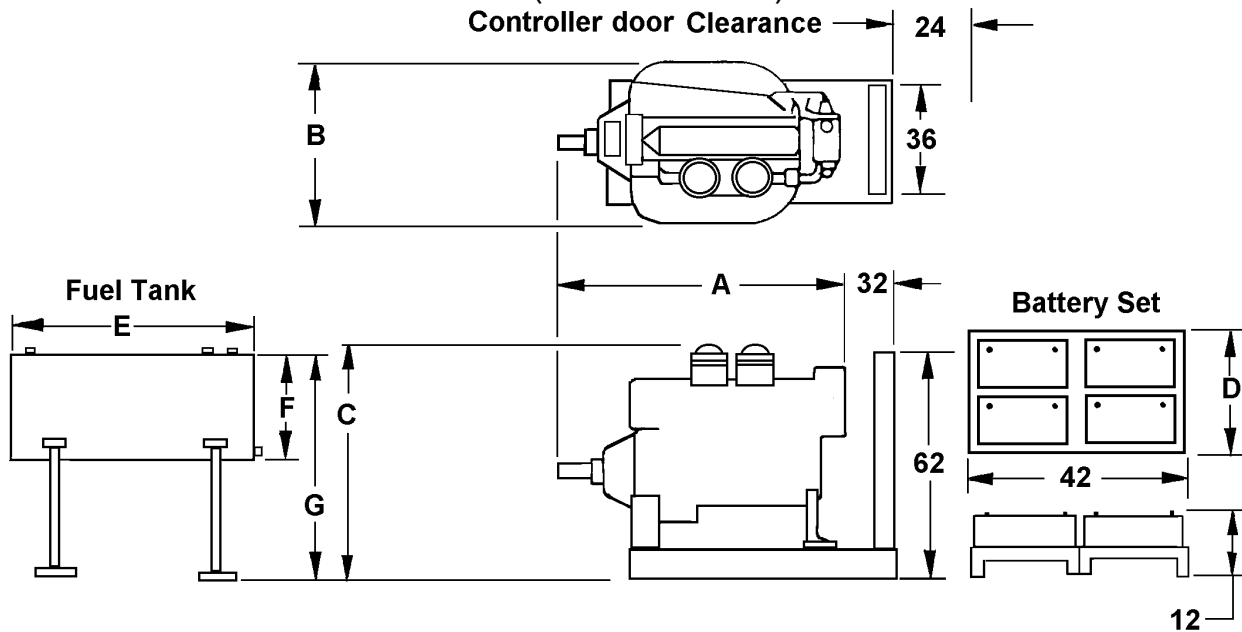
Customer \_\_\_\_\_ Job Name \_\_\_\_\_  
 P. O. No. \_\_\_\_\_ Item No. \_\_\_\_\_  
 Invoice No. \_\_\_\_\_ Serial No \_\_\_\_\_  
 Gear Mfr. \_\_\_\_\_ Size \_\_\_\_\_ Ratio \_\_\_\_\_  
 Pump Model \_\_\_\_\_ No. Of Stages 2 Rpm 1760 GPM \_\_\_\_\_ Bowl Head Feet \_\_\_\_\_  
 Certified for  Approval  Construction By \_\_\_\_\_ Date \_\_\_\_\_  
 Pump  UL Listed  ULC Listed  FM Approved Right Angle Gear  FM Approved DT 4849199  
 Subject to change unless certified for construction by factory Rev. 8-00

**VERTICAL TURBINE FIRE PUMPS  
 Diesel Engine Driven**



Peerless Pump Company  
 Indianapolis, IN 46207-7026

**CUMMINS and CATERPILLAR ENGINE OUTLINE  
 (LAYOUT DIMENSIONS)**



ENGINE MANUFACTURER	ENGINE MODEL	MAXIMUM DIMENSIONS (in Inches)						
		A	B	C	D	E	F	G
CUMMINS	6BTA5.9F1, F2, F4	46	42	65	12	62	32	76
CUMMINS	6CTA8.3F1, F2, F3	56	40	72	12	60	48	101
CATERPILLAR	3208DIT	55	41	71	24	72	38	85
CATERPILLAR	3306BDIT, BDITA	65	44	63	24	72	38	88
CATERPILLAR	3406BDIT, BDITA PA SERIES	75	46	76	24	72	48	101
CATERPILLAR	3408DITA PA SERIES	66	52	81	48	84	48	105
CATERPILLAR	3412DIT, DITA PA SERIES	79	56	82	48	60	64	119

Most controllers may be floor or base mounted.

Base mounted controller, as shown with pump and engine is optional.

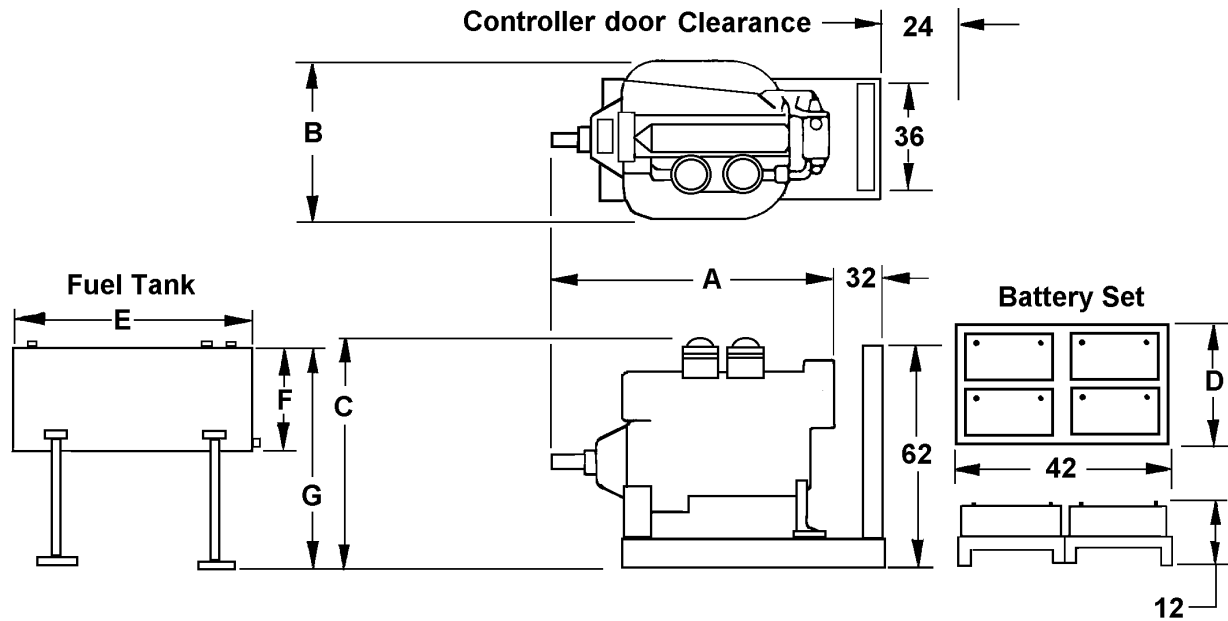
All dimensions are approximate and may be used for general layout purposes only.

Certified dimensional outline drawings will be submitted on job when entered at the factory for approval or construction.





**CLARKE ENGINE OUTLINE  
(LAYOUT DIMENSIONS)**



ENGINE MANUFACTURER	ENGINE MODELS	MAXIMUM DIMENSIONS (in Inches)						
		A	B	C	D	E	F	G
CLARKE	VMFP04HN, HT	57	31	53	12	62	32	74
CLARKE	VMFP06HT	66	30	53	12	62	32	74
CLARKE	DDFP03DN, 03DT, L3DT, T3DT	40	36	70	12	62	32	74
CLARKE	PDFPL4YN, L4YT, 04YT	39	36	58	12	62	32	74
CLARKE	PDFPL6YN, L6YT, L6YN, O6YT, L6YW	49	35	63	12	72	32	74
CLARKE	PDFPJ6YT, K6YT, O6YR	50	35	63	12	72	32	74
CLARKE	DDFPL6FA, T6FA	64	41	81	24	72	38	83
CLARKE	DDFP-06FA, 6FH	43	42	89	24	60	48	108
CLARKE	DDFP08FA, L8FA	49	42	89	24	72	48	108
CLARKE	DDFP08FH	52	54	74	24	60	64	124

Most controllers may be floor or base mounted.

Base mounted controller, as shown with pump and engine is optional.

All dimensions are approximate and may be used for general layout purposes only.

Certified dimensional outline drawings will be submitted on job when entered at the factory for approval or construction.

*Subject to change without notice*

**Blank**

**The below table is a listing of certifiable drawings available from our Customer Service Department for Sales and distributor office stocking purposes that may be used in lieu of the layout drawings when preferable. We reserve the right to limit quantity requests.**

Engine Model Number (For all Vertical Turbine Fire Pumps)	Unit Outline Drawing Number with Fab. Steel Base	Rev. Date		Wiring Diagram without Mantrol Drawing Number	Rev. Date		Wiring Diagram with Mantrol Drawing Number	Rev. Date		Fuel System with UL Label Outline Drawing Number Single Wall	Fuel System with UL Label Outline Drawing Number Dual Wall	Issue Date		Rev. Date	Fuel System without UL Label Outline Drawing Number	Rev. Date		Muffler Outline Drawing Number	Rev. Date	
		Mo	Yr		Mo	Yr		Mo	Yr			Mo	Yr			Mo	Yr		Mo	Yr
3306BDIT PA5904	4851757	10	92 *	4851866	8	89	4851867	8	89	4850075	4850075	9	00 *	4850074	9	00 *	4851204	11	99	
3306BDITA PA5907	4851757	10	92 *	4851866	8	89	4851867	8	89	4850075	4850075	9	00 *	4850074	9	00 *	4851204	11	99	
3406BDIT PA0083	4853677	11	95 *	4851866	8	89	4851867	8	89	4850075	4850075	9	00 *	4850074	9	00 *	4851204	11	99	
3406BDIT PA2519	4853677	11	95 *	4851866	8	89	4851867	8	89	4850075	4850075	9	00 *	4850074	9	00 *	4851204	11	99	
3406BDITA PA0084	4851758	11	95 *	4851866	8	89	4851867	8	89	4850075	4850075	9	00 *	4850074	9	00 *	4851204	11	99	
3406BDITA PA2520	4851758	11	95 *	4851866	8	89	4851867	8	89	4850075	4850075	9	00 *	4850074	9	00 *	4851204	11	99	
3408BDITA PA2521	4851759	11	95 *	4851868	8	89	4851869	5	95	4850075	4850075	9	00 *	4850074	9	00 *	4851204	11	99	
3408BDITA PA3282	4853681	11	95 *	4851868	8	89	4851869	5	95	4850075	4850075	9	00 *	4850074	9	00 *	4851204	11	99	
3412DIT PA2522	4851760	11	95 *	4851868	8	89	4851869	5	95	4850075	4850075	9	00 *	4850074	9	00 *	4851204	11	99	
3412DIT PA3280	4853672	11	95 *	4851868	8	89	4851869	5	95	4850075	4850075	9	00 *	4850074	9	00 *	4851204	11	99	
3412DITA PA2523	4852362	11	95 *	4851868	8	89	4851869	5	95	4850075	4850075	9	00 *	4850074	9	00 *	4851204	11	99	
3412DITA PA3281	4852362	11	95 *	4851868	8	89	4851869	5	95	4850075	4850075	9	00 *	4850074	9	00 *	4851204	11	99	
DDFP06FA	4852794	11	98	4852806	11	98	4852807	11	98	4850320	4850320	9	00 *	4850321	9	00 *	4852669	11	00 *	
DDFP06FH	4852794	11	98	4852806	11	98	4852807	11	98	4850320	4850320	9	00 *	4850321	9	00 *	4852669	11	00 *	
DDFPL8FA	4852795	5	00 *	4852806	11	98	4852807	11	98	4850320	4850320	9	00 *	4850321	9	00 *	4852669	11	00 *	
DDFP08FA	4852795	5	00 *	4852806	11	98	4852807	11	98	4850320	4850320	9	00 *	4850321	9	00 *	4852669	11	00 *	
DDFP08FH	4852862	11	98	4852806	11	98	4852807	11	98	4850320	4850320	9	00 *	4850321	9	00 *	4852669	11	00 *	
DDFP12FH	4853195	9	98	4852806	11	98	4852807	11	98	4850320	4850320	9	00 *	4850321	9	00 *	4852669	11	00 *	
JDFP06WA	4853872	10	98	4852806	11	98	4852807	11	98	4850075	4850075	9	00 *	4850074	9	00 *	4852669	11	00 *	
JDFP06WR	4853873	10	98	4852806	11	98	4852807	11	98	4850075	4850075	9	00 *	4850074	9	00 *	4852669	11	00 *	
PDFPL4YN	4853570	4	98	4853587			4853588			4850075	4850075	9	00 *	4850074	9	00 *	4852669	11	00 *	
PDFP04YT	4853571	3	00 *	4853587			4853588			4850075	4850075	9	00 *	4850074	9	00 *	4852669	11	00 *	
PDFPL6YN	4853590	2	98	4853587			4853588			4850075	4850075	9	00 *	4850074	9	00 *	4852669	11	00 *	
PDFP06YT	4853591	2	98	4853587			4853588			4850075	4850075	9	00 *	4850074	9	00 *	4852669	11	00 *	
PDFP06YT	4853591	8	94	4853587			4853588			4850075	4850075	9	00 *	4850074	9	00 *	4852669	11	00 *	
VMFP04HN	4853762	6	00 *	4853587			4853588			4850075	4850075	9	00 *	4850074	9	00 *	4852669	11	00 *	
VMFP04HT	4853763	6	00 *	4853587			4853588			4850075	4850075	9	00 *	4850074	9	00 *	4852669	11	00 *	
VMFP06HT	4853764	6	00 *	4853587			4853588			4850075	4850075	9	00 *	4850074	9	00 *	4852669	11	00 *	
VMFPT6HT	4853944	6	00 *	4853587			4853588			4850075	4850075	9	00 *	4850074	9	00 *	4852669	11	00 *	
VMFPL6HR	4853945	6	00 *	4853587			4853588			4850075	4850075	9	00 *	4850074	9	00 *	4852669	11	00 *	
VMFPT6HR	4853946	6	00 *	4853587			4853588			4850075	4850075	9	00 *	4850074	9	00 *	4852669	11	00 *	
6BTA5.9F1,F2,F4	4852520	1	98	4852484	2	92	4852485	2	92	4852267	4852267	9	00 *	4852266	9	00 *	4852505	3	98	
6CTA8.3F1,F2,F3	4852908	9	97 *	4853063	2	92	4853064	2	92	4850075	4850075	9	00 *	4850074	9	00 *	4852505	3	98	

Engine Model Number	Lead-Acid Battery Outline Drawing Number	Rev. Date		Nickel-Cadimium Battery Outline Drawing Number	Rev. Date		Engine Pre-Heater Outline Drawing Number	Rev. Date	
		Mo	Yr		Mo	Yr		Mo	Yr
ALL	4849503	11	99 *	4852109	12	00 *	4849505	11	99 *

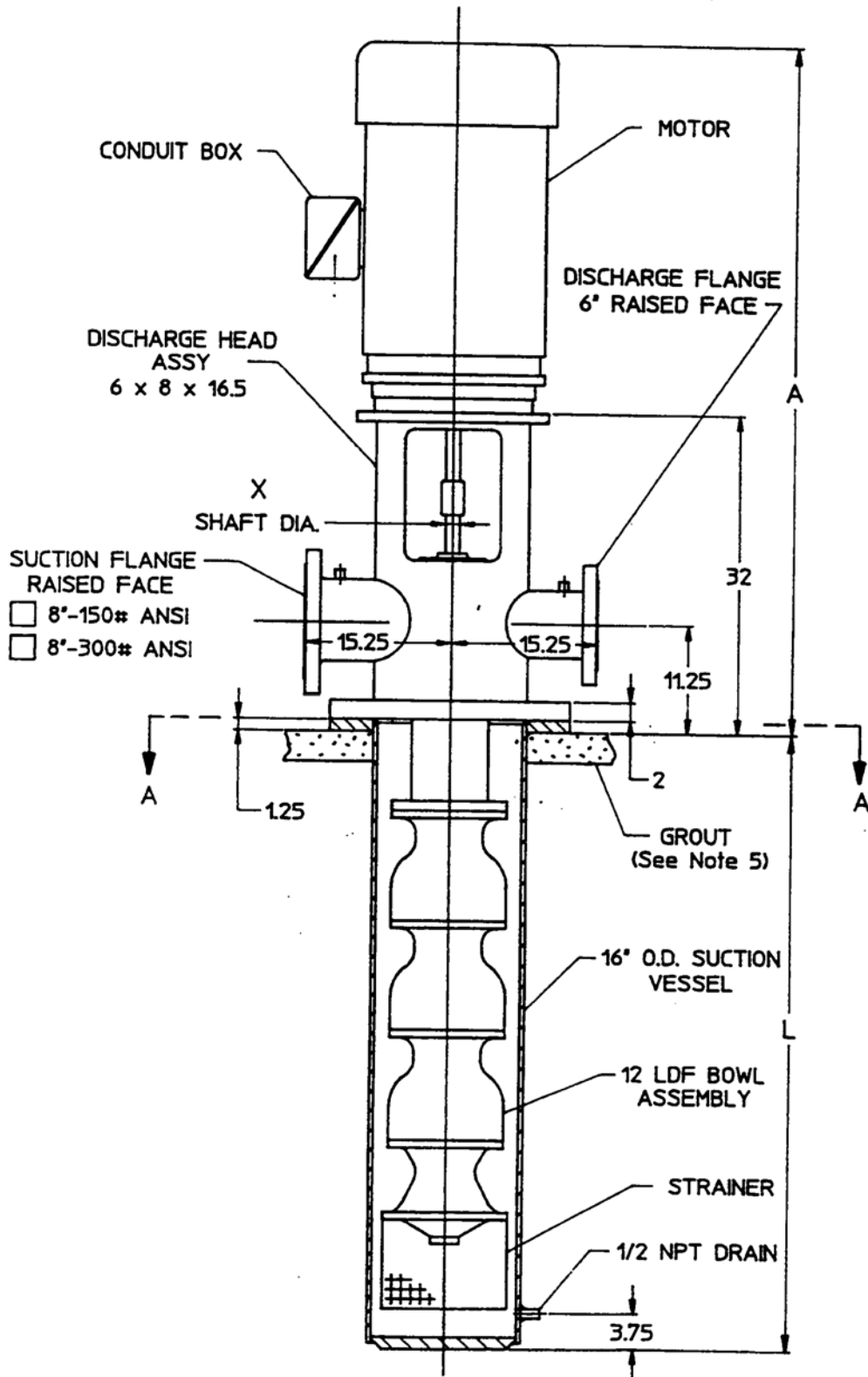
\*Revised or Added this issue, destroy superseded copies.

Subject to change without notice

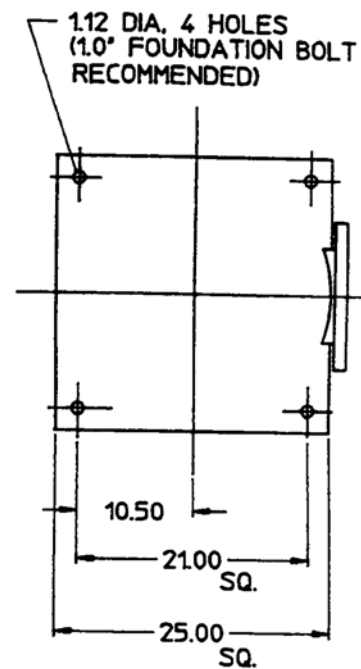




VERTICAL TURBINE FIRE PUMPS  
Motor Drive Outline  
12LDF with Suction Vessel  
Mounting Arrangement at  
Discharge Head Assembly



VIEW A-A



VERTICAL TURBINE FIRE PUMPS  
Motor Drive Outline  
12LDF with Suction Vessel  
Mounting Arrangement at  
Discharge Head Assembly



Peerless Pump Company  
Indianapolis, IN 46207-7026

Note 1: This drawing describes:  
suction vessel installation,  
discharge head assembly and  
VHS electric motor with bolted  
down ratchet.

Note 2: Maximum suction  
pressure 100 PSI.

Note 3: Dimensions are in  
inches unless otherwise  
indicated.

Note 4: Weights for basic 3  
stage pump unit are for entire  
pumping unit less driver and  
weight of water contained in  
suction vessel. Weight of water  
is estimated at a specific gravity  
of 1.0.

Note 5: Customer to allow for  
grout between top of foundation  
and bottom of base. Grout  
thickness to be determined by  
customer.

WEIGHTS IN LBS. (See Note 4)

Basic 3 Stage Pump Unit 1595 Lbs.  
Add for each additional stage  
170 Lbs. x \_\_\_\_\_ Stgs. \_\_\_\_\_ Lbs.  
Weight of water in suction vessel  
for basic 3 stage unit 430 Lbs.  
Add for each additional stage  
77 Lbs. x \_\_\_\_\_ Stgs. \_\_\_\_\_ Lbs.  
Weight of driver \_\_\_\_\_ Lbs.  
Total Weight for \_\_\_\_\_ Stage Unit \_\_\_\_\_ Lbs.

✓	Maximum Working Pressure PSI	Discharge Assembly Size and Rating	A	Weight Lbs.
	200	8 x 8 x 16.5 C x 125 LB. ANSI		445
	400	8 x 8 x 16.5 CHP x 250 LB. ANSI		445
	640	8 x 8 x 16.5 CHP x 300 LB. ANSI *		445

\*Ductile Iron Casting

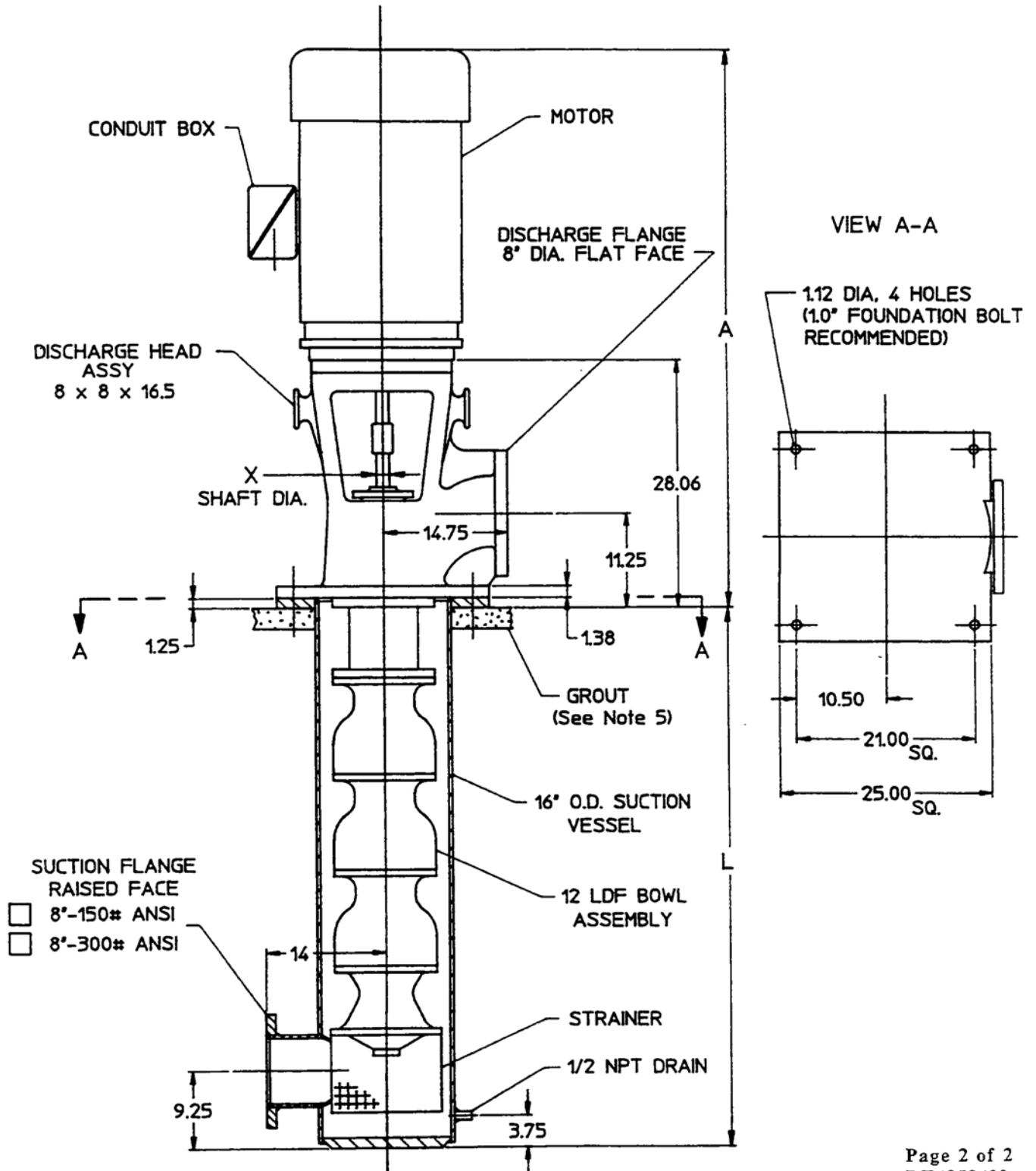
✓												
No. of Stages	3	4	5	6	7	8	9	10	11	12	13	14
Dimension "L"	66.0	77.5	89.0	100.5	112.0	123.5	135.0	146.5	158.0	169.5	181.0	192.5
Dimension "X"	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.69	1.69	1.69	1.69

CUSTOMER \_\_\_\_\_ JOB NAME \_\_\_\_\_  
P.O. NO. \_\_\_\_\_ ITEM NO. \_\_\_\_\_  
S.O. NO. \_\_\_\_\_ SERIAL NO. \_\_\_\_\_  
MOTOR MFG. \_\_\_\_\_ ENCL. \_\_\_\_\_ FRAME \_\_\_\_\_ H.P. \_\_\_\_\_ VOLTS \_\_\_\_\_ PH. \_\_\_\_\_ HZ. \_\_\_\_\_  
PUMP TYPE & STAGE 12LDF- \_\_\_\_\_ STG. RPM \_\_\_\_\_ G.P.M. \_\_\_\_\_ LAB. HEAD, FEET \_\_\_\_\_  
SUCTION PRESSURE \_\_\_\_\_ PSI CERTIFIED FOR  APPROVAL  CONSTRUCTION  
 ULI LISTED BY \_\_\_\_\_ DATE \_\_\_\_\_

Subject to change unless certified for construction.



VERTICAL TURBINE FIRE PUMPS  
Motor Drive Outline  
12LDF with Suction Vessel  
Mounting Arrangement at  
Discharge Head Assembly



**VERTICAL TURBINE FIRE PUMPS**  
**Motor Drive Outline**  
**12LDF with Suction Vessel (3-10 Stages)**  
**Mounting Arrangement at**  
**Bottom of Suction Vessel**



Peerless Pump Company  
 Indianapolis, IN 46207-7026

**Note 1:** This drawing describes:  
 suction vessel installation,  
 discharge head assembly and  
 VHS electric motor with bolted  
 down ratchet.

**Note 2:** Maximum suction  
 pressure 100 PSI.

**Note 3:** Dimensions are in  
 inches unless otherwise  
 indicated.

**Note 4:** Weights for basic 3  
 stage pump unit are for entire  
 pumping unit less driver and  
 weight of water contained in  
 suction vessel. Weight of water  
 is estimated at a specific gravity  
 of 1.0.

**Note 5:** Customer to allow for  
 grout between top of foundation  
 and bottom of base. Grout  
 thickness to be determined by  
 customer.

**WEIGHTS IN LBS. (See Note 4)**

Basic 3 Stage Pump Unit 1830 Lbs.  
 Add for each additional stage  
 170 Lbs. x \_\_\_\_\_ Stgs. \_\_\_\_\_ Lbs.  
 Weight of water in suction vessel  
 for basic 3 stage unit 430 Lbs.  
 Add for each additional stage  
 77 Lbs. x \_\_\_\_\_ Stgs. \_\_\_\_\_ Lbs.  
 Weight of driver \_\_\_\_\_ Lbs.  
 Total Weight for \_\_\_\_\_ Stg. Unit \_\_\_\_\_ Lbs.

✓	Maximum Working Pressure PSI	Discharge Head Assembly Size and Rating	A	Weight Head Lbs.
	200	8 x 8 x 16.5 C x 125 LB. ANSI		445
	400	8 x 8 x 16.5 CHP x 250 LB. ANSI		445
	640	8 x 8 x 16.5 CHP x 300 LB. ANSI *		445

\*Ductile Iron Casting

✓								
No. of Stages	3	4	5	6	7	8	9	10
Dimension "L"	67.06	78.56	90.06	101.56	113.06	124.56	136.06	147.56
Dimension "K"	1.38	1.38	1.38	1.38	1.38	1.62	1.62	1.62
Recommended Foundation Bolt	1.25	1.25	1.25	1.25	1.25	1.5	1.5	1.5

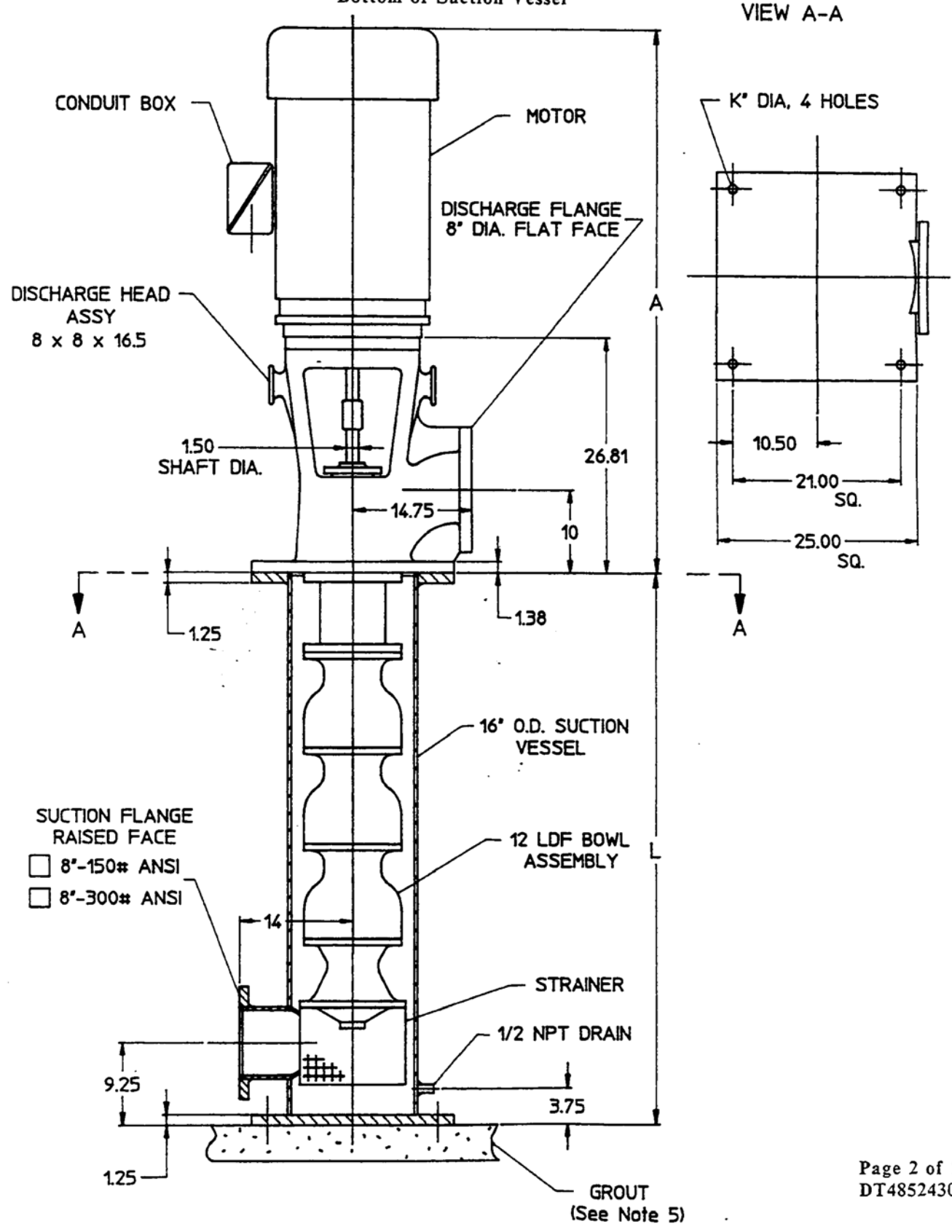
CUSTOMER \_\_\_\_\_ JOB NAME \_\_\_\_\_  
 P.O. NO. \_\_\_\_\_ ITEM NO. \_\_\_\_\_  
 S.O. NO. \_\_\_\_\_ SERIAL NO. \_\_\_\_\_  
 MOTOR MFG. \_\_\_\_\_ ENCL. \_\_\_\_\_ FRAME \_\_\_\_\_ H.P. \_\_\_\_\_ VOLTS \_\_\_\_\_ PH. \_\_\_\_\_ HZ. \_\_\_\_\_  
 PUMP TYPE & STAGE 12LDF- \_\_\_\_\_ STG. RPM \_\_\_\_\_ G.P.M. \_\_\_\_\_ LAB. HEAD, FEET \_\_\_\_\_  
 SUCTION PRESSURE \_\_\_\_\_ PSI CERTIFIED FOR  APPROVAL  CONSTRUCTION  
 ULI LISTED BY \_\_\_\_\_ DATE \_\_\_\_\_

Subject to change unless certified for construction.





**VERTICAL TURBINE FIRE PUMPS**  
Motor Drive Outline  
12LDF with Suction Vessel (3-10 Stages)  
Mounting Arrangement at  
Bottom of Suction Vessel



**VERTICAL TURBINE FIRE PUMPS**  
**Motor Drive Outline**  
12LDF with Suction Vessel (11-14 Stages)  
Mounting Arrangement at  
Bottom of Suction Vessel



Peerless Pump Company  
Indianapolis, IN 46207-7028

**Note 1: This drawing describes:**  
suction vessel installation,  
discharge head assembly and  
VHS electric motor with bolted  
down ratchet.

**Note 2: Maximum suction  
pressure 100 PSI.**

**Note 3: Dimensions are in  
inches unless otherwise  
indicated.**

**Note 4: Weights for basic 3  
stage pump unit are for entire  
pumping unit less driver and  
weight of water contained in  
suction vessel. Weight of water  
is estimated at a specific gravity  
of 1.0.**

**Note 5: Customer to allow for  
grout between top of foundation  
and bottom of base. Grout  
thickness to be determined by  
customer.**

**WEIGHTS IN LBS. (See Note 4)**

Basic 11 Stage Pump Unit                    3265 Lbs.  
Add for each additional stage  
170 Lbs. x \_\_\_\_\_ Stgs.                \_\_\_\_\_ Lbs.  
Weight of water in suction vessel  
for basic 11 stage unit                    1020 Lbs.  
Add for each additional stage  
77 Lbs. x \_\_\_\_\_ Stgs.                \_\_\_\_\_ Lbs.  
Weight of driver                                \_\_\_\_\_ Lbs.  
Total Weight for \_\_\_\_\_ Stg. Unit        \_\_\_\_\_ Lbs.

✓	Maximum Working Pressure PSI	Discharge Head Assembly Size and Rating	A	Weight Head Lbs.
	200	8 x 8 x 16.5 C x 125 LB. ANSI		445
	400	8 x 8 x 16.5 CHP x 250 LB. ANSI		445
	640	8 x 8 x 16.5 CHP x 300 LB. ANSI *		445

\*Ductile Iron Casting

No. of Stages	11	12	13	14
Dimension "L"	159.06	170.56	182.06	193.56

CUSTOMER \_\_\_\_\_ JOB NAME \_\_\_\_\_  
P.O. NO. \_\_\_\_\_ ITEM NO. \_\_\_\_\_  
S.O. NO. \_\_\_\_\_ SERIAL NO. \_\_\_\_\_  
MOTOR MFG. \_\_\_\_\_ ENCL. \_\_\_\_\_ FRAME \_\_\_\_\_ H.P. \_\_\_\_\_ VOLTS \_\_\_\_\_ PH. \_\_\_\_\_ HZ. \_\_\_\_\_  
PUMP TYPE & STAGE 12LDF- \_\_\_\_\_ STG. RPM \_\_\_\_\_ G.P.M. \_\_\_\_\_ LAB. HEAD, FEET \_\_\_\_\_  
SUCTION PRESSURE \_\_\_\_\_ PSI CERTIFIED FOR  APPROVAL  CONSTRUCTION  
 ULI LISTED BY \_\_\_\_\_ DATE \_\_\_\_\_

Subject to change unless certified for construction.



Section 1630  
Page 14  
June 22, 1990

**VERTICAL TURBINE FIRE PUMPS**  
Right Angle Gear Outline  
12LDF with Suction Vessel  
Mounting Arrangement at  
Discharge Head Assembly



Peerless Pump Company  
Indianapolis, IN 46207-7026

Note 1: This drawing describes:  
A. Suction vessel installation  
B. Discharge head assembly  
C. Right angle gear with bolted down ratchet

Note 2: Maximum suction pressure is 400 psig.

Note 3: Dimensions are in inches unless otherwise specified.

Note 4: Weights for basic 3 stage pump unit are for entire pumping unit less right angle gear and weight of water contained in suction vessel. Weight of water is estimated at a specific gravity of 1.0.

Maximum Working Pressure Psig	Discharge Head Assembly Size and Rating	S	A	Wt. Head Lbs.
235	6 x 8 x 16.5 x 150 Lb. ANSI			650
600	6 x 8 x 16.5 x 300 Lb. ANSI			650
825	6 x 8 x 16.5 x 400 Lb. ANSI			650
1000	6 x 8 x 16.5 x 600 Lb. ANSI			650

Note 5: Customer is to allow for grout between top of foundation and bottom of base. Grout thickness to be determined by customer.

Note 6: Length R may be adjusted plus or minus 3/8 inch.

Note 7: This tapped hole is to be connected by customer to the opening marked Raw Water Inlet on the engine outline drawing and inlet of gear.

Note 8: Water cooled gear maximum oil cooler pressure

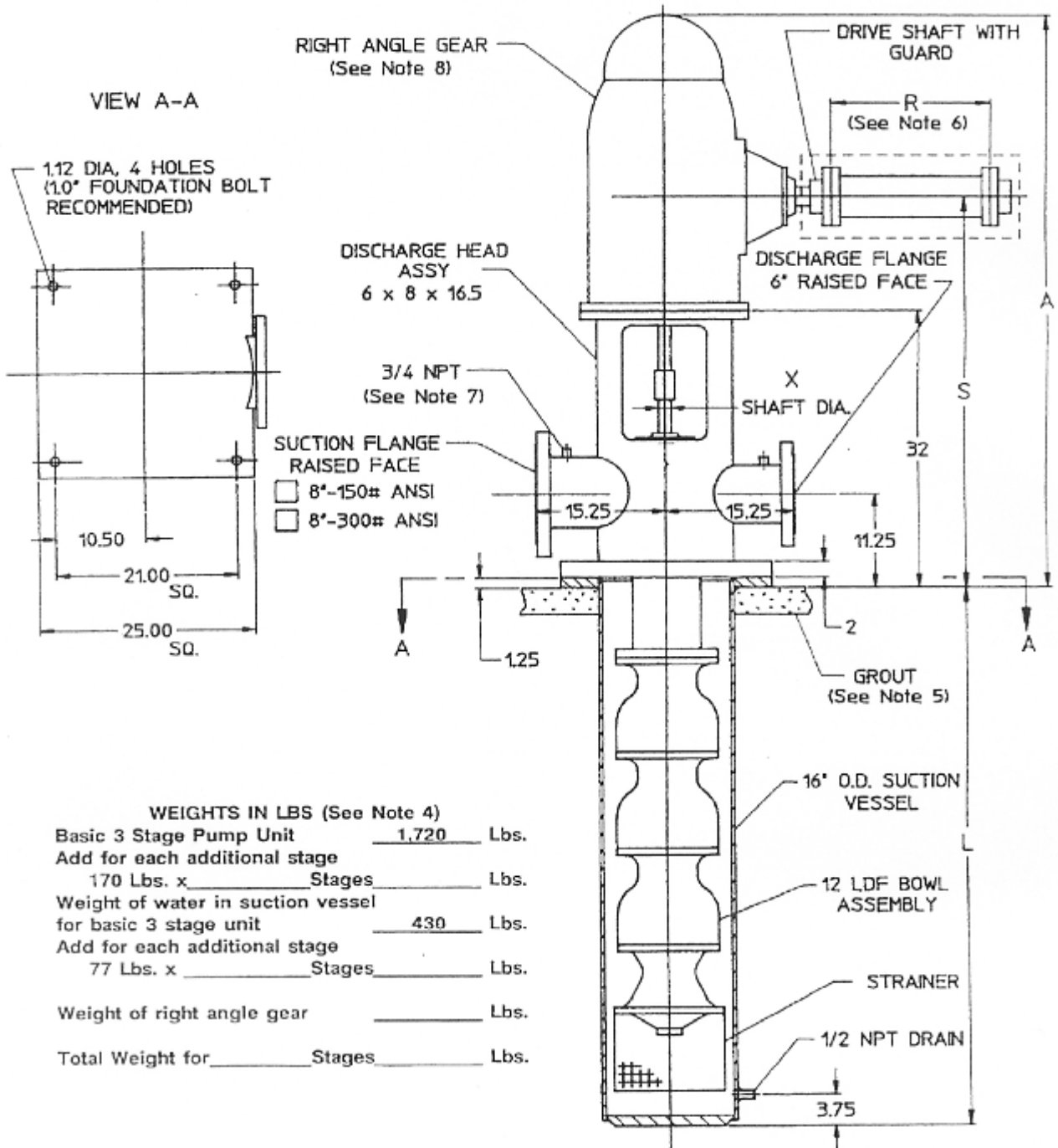
Gear Mfr.	Max. Psig
Johnson	100
Amarillo	75
Randolph	60

No. of Stgs.	3	4	5	6	7	8	9	10	11	12	13	14
Dimension L	66.00	77.50	89.00	100.50	112.00	123.50	135.00	146.50	158.00	169.50	181.00	192.50
Dimension X	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.69	1.69	1.69	1.69

CUSTOMER \_\_\_\_\_ JOB NAME \_\_\_\_\_  
P.O. NO. \_\_\_\_\_ ITEM NO. \_\_\_\_\_  
S.O. NO. \_\_\_\_\_ SERIAL NO. \_\_\_\_\_  
GEAR MFR. \_\_\_\_\_ SIZE \_\_\_\_\_ RATIO \_\_\_\_\_  
PUMP TYPE & NO. STGS 12LDF- RPM \_\_\_\_\_ GPM \_\_\_\_\_ LAB HEAD FT \_\_\_\_\_  
SUCTION PRESSURE \_\_\_\_\_ PSI  
ULI LISTED [ ] CERTIFIED FOR APPROVAL [ ] CONSTRUCTION [ ] BY \_\_\_\_\_  
DATE \_\_\_\_\_



**VERTICAL TURBINE FIRE PUMPS**  
Type 12LDF  
with Suction Vessel Mounting  
Arrangement at Discharge Head  
Assembly and Right Angle Gear Drive



**WEIGHTS IN LBS (See Note 4)**

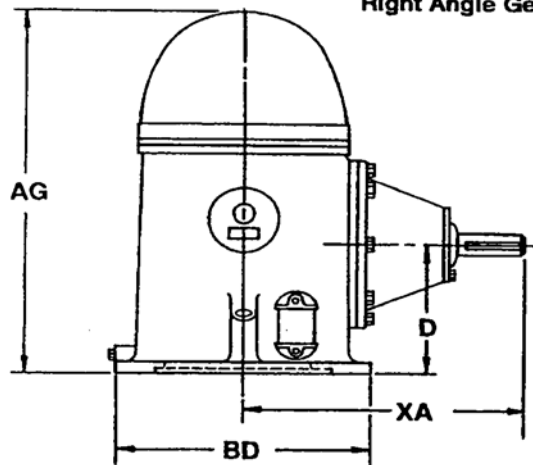
Basic 3 Stage Pump Unit	1,720	Lbs.
Add for each additional stage	170 Lbs. x _____	Stages _____ Lbs.
Weight of water in suction vessel for basic 3 stage unit	430	Lbs.
Add for each additional stage	77 Lbs. x _____	Stages _____ Lbs.
Weight of right angle gear	_____	Lbs.
Total Weight for _____	_____	Stages _____ Lbs.

**VERTICAL TURBINE FIRE PUMPS**  
Electric Motor or Diesel Engine Driven

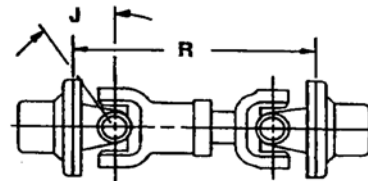


Peerless Pump Company  
Indianapolis, IN 46207-7028

**Right Angle Gear and Universal Joint Shaft Dimensions**



**Right Angle Gear Drive**



**Universal Joint Drive Shaft**

RIGHT ANGLE GEAR DIMENSIONS IN INCHES														
AMARILLO					JOHNSON					DE'РАН				
MODEL	AG	BD	D	XA	MODEL	AG	BD	D	XA	MODEL	AG	BD	D	XA
SL30	16.25	10.00	6.75	10.88	H40(12)	24.75	12.00	9.00	16.00	G40-FM	26.62	16.50	11.43	18.00
SL40A	21.75	12.00	8.50	15.62	H40	24.75	16.50	9.00	16.00	G60-FM	26.62	16.50	11.43	18.00
SL40B	21.75	16.50	8.50	15.62	H60	24.75	16.50	9.00	16.00	G80-FM	26.62	16.50	11.43	18.00
SL60A, SHC60A	28.00	16.50	11.50	16.75	H80, H80HT	24.75	16.50	9.00	16.50	G100A-FM	26.62	16.50	11.43	17.93
SL80A, SHC80A	29.25	16.50	11.50	16.75	H110, H110HT	29.50	16.50	11.38	17.50	G125A-FM	26.62	16.50	11.43	17.93
SL100A, SHC100A	29.25	16.50	11.50	16.75	H125, H125HT	29.50	16.50	11.38	17.50	G150A-FM	33.88	20.00	13.75	20.87
SL125A, SHC125A	29.25	16.50	11.50	16.75	H150, H150HT	34.50	20.00	13.25	20.50	G200B-FM	33.88	20.00	13.75	20.87
SL150A, SHC150A	29.37	16.50	11.50	18.75	H200, H200HT	34.50	20.00	13.25	20.50	G250A-FM	33.88	20.00	13.75	21.75
SL200A, SHC200A	34.68	20.00	13.75	20.75	HG250, HG250HT	46.00	24.50	16.50	29.00	G300A-FM	35.62	20.00	13.75	21.75
S250	34.68	20.00	13.75	22.38	HH350	46.00	24.50	16.50	30.00	G350A-FM	35.62	20.00	13.75	21.75
S300	34.68	20.00	13.75	22.38	HH350HT	46.00	24.50	16.50	30.00	G400A-FM	35.62	20.00	13.75	21.75
S350	34.68	20.00	13.75	22.38	HH425	46.00	24.50	16.50	31.00	G450A-FM	65.62	20.00	13.75	21.75
SL450A, SC450A	43.25	24.50	16.00	25.50 ①	HH425HT	46.00	24.50	16.50	31.00	F500A-FM	45.12	24.50	18.75	28.00
SL500A, SC500A	43.25	24.50	16.00	25.50 ①	HI500	51.00	24.50	16.50	33.00	F590A-FM	45.12	24.50	18.75	28.00
SL600A, SC600A	43.25	24.50	16.00	25.50 ①	HI500HT	51.00	24.50	16.50	33.00	F750A-FM	45.12	24.50	18.75	28.00

① 1:1 Ratio only, refer to the factory for other ratios.

Universal Joint Drive Shaft Dimensions in Inches											
SHAFT SIZE	SC1310	SC1350	SC1410	SC1480	SC1550	SC1610	SC1710	SC1810	SC1880	587.42 ②	587.48 ③
R (LENGTH)	9.50	9.87	9.87	9.00	10.25	11.25	13.00	15.53	16.12	32.25	34.25
LENGTHEN OR SHORTEN	0.62	0.37	0.37	0.50	0.50	0.37	0.37	0.56	0.50	2.16	2.75
J (MINIMUM ANGLE)	1/2°	1/2°	1/2°	1/2°	1/2°	1/2°	1/2°	1/2°	1/2°	1/2°	1/2°
J (MAXIMUM ANGLE)	3°	3°	3°	3°	3°	3°	3°	3°	3°	3°	3°
APPROX. WT. LBS.	34	34	34	40	59	73	102	116	186	142	186

② CLARKE DDFPL8FA ONLY

③ CLARKE DDFP08FA, DDFPO8FH ONLY

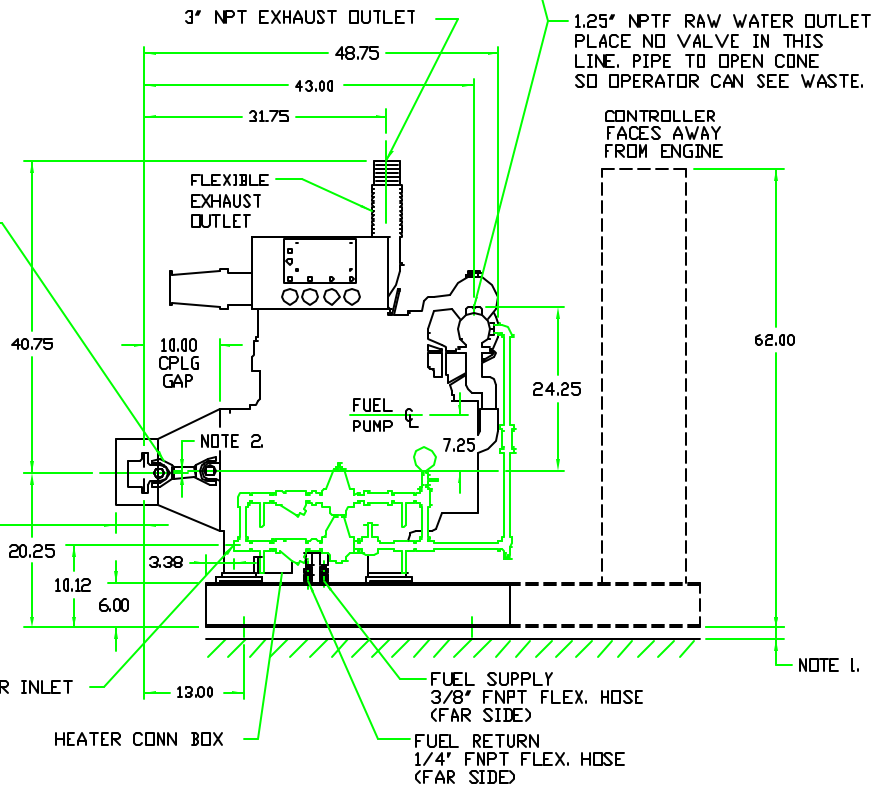
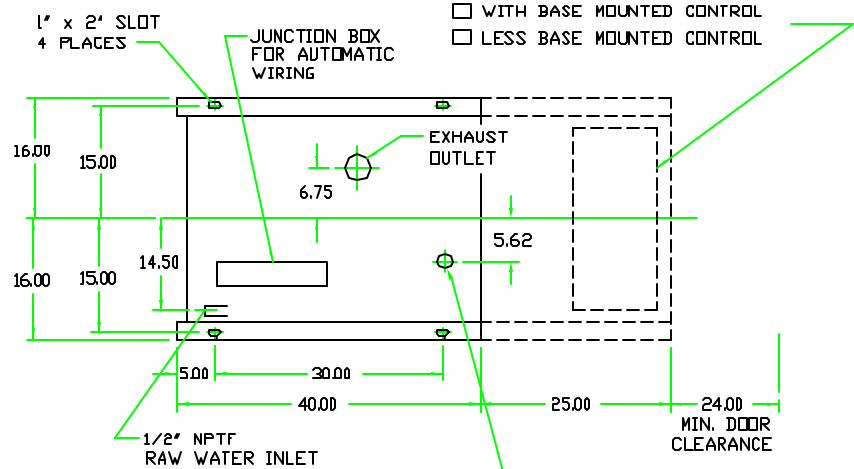
Dimensions are subject to change without notice

REV. 3-98  
DT 4852694

**VERTICAL FIRE PUMPS  
OUTLINE -- ENGINE DRIVEN  
CLARKE DIESEL ENGINE JU4H-UF10, 12, 14, 20, 22 & 24 (UL, FM, & cUL)**

**NOTES:**

1. CUSTOMER MUST FILL BASE WITH GROUT AND ALLOW FROM .75 TO 1.50 INCH GROUT THICKNESS BETWEEN TOP OF FOUNDATION AND BOTTOM OF BASE.
2. UNIT INSTALLATION AND FINAL DRIVESHAFT ALIGNMENT MUST BE DONE BY THE INSTALLING CONTRACTOR.  
**CAUTION**  
THE DRIVESHAFT IS NOT DESIGNED TO OPERATE AT 0° ANGLE. THE ENGINE CRANKSHAFT IS TO BE A PARALLEL OFFSET 0.35 ±0.18 INCH ABOVE THE PUMP SHAFT. THE ENGINE CRANKSHAFT MAY BE PARALLEL OFFSET FROM THE GEAR SHAFT 0.35 INCH RIGHT OR LEFT. REFER TO THE ENGINE MANUAL FOR ALIGNMENT INSTRUCTIONS.
3. UNIT IS PIPED WITH WATER LINES AND BY-PASS, PER NFPA 20. WATER SUPPLY PIPE FROM PUMP TO BE SUPPLIED BY OTHERS.
4. ALL DIMENSIONS ARE IN INCHES.



Approximate Weight (Lbs)				
Base	Engine	Control w/ Base Ext.	Complete Unit Less Control	Complete Unit With Control
200	910	704	1110	1814

Certified for:  Preliminary  Approval  Construction By: \_\_\_\_\_ Date: \_\_\_\_\_

Project:	Capacity:
Customer:	Total Pressure:
Item / P.O. No.:	Pump Speed:
Quote No.:	Pump Serial No.:
Pump Model:	S.D. No.:

Listed  UL  FM



Peerless Pump Company  
P.O. Box 7026 Indianapolis, IN 46207-7026  
Phone : 317-925-9661  
Fax : 317-924-7388

4854019  
REV. 12-04

# VERTICAL FIRE PUMPS OUTLINE -- ENGINE DRIVEN

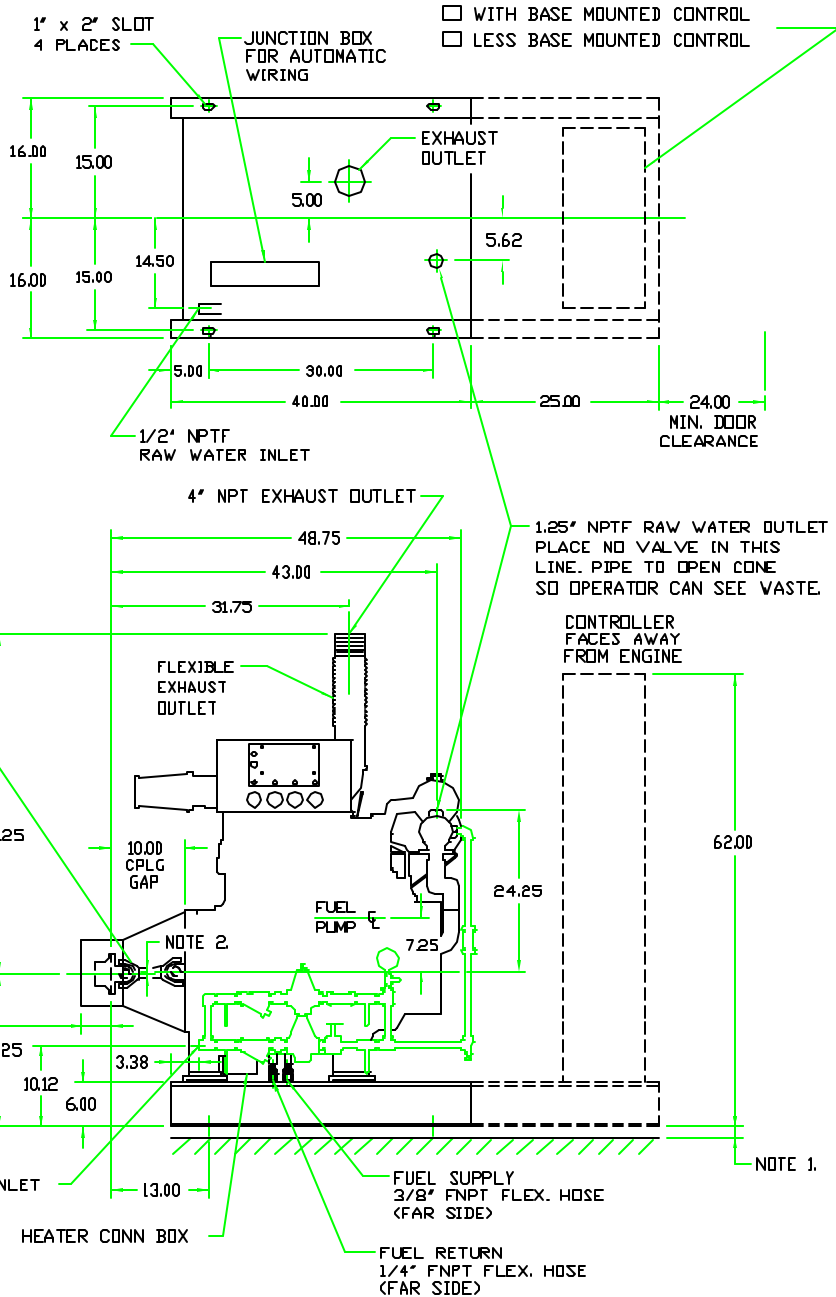
CLARKE DIESEL ENGINE JU4H-UF30, 32, 34, 40, 42, 44, 50, 52 & 54 (UL, FM, & cUL)

**NOTES:**

1. CUSTOMER MUST FILL BASE WITH GROUT AND ALLOW FROM .75 TO 1.50 INCH GROUT THICKNESS BETWEEN TOP OF FOUNDATION AND BOTTOM OF BASE.
2. UNIT INSTALLATION AND FINAL DRIVESHAFT ALIGNMENT MUST BE DONE BY THE INSTALLING CONTRACTOR.

**CAUTION**  
THE DRIVESHAFT IS NOT DESIGNED TO OPERATE AT 0° ANGLE. THE ENGINE CRANKSHAFT IS TO BE A PARALLEL OFFSET 0.35 ±0.18 INCH ABOVE THE PUMP SHAFT. THE ENGINE CRANKSHAFT MAY BE PARALLEL OFFSET FROM THE GEAR SHAFT 0.35 INCH RIGHT OR LEFT. REFER TO THE ENGINE MANUAL FOR ALIGNMENT INSTRUCTIONS.

3. UNIT IS PIPED WITH WATER LINES AND BY-PASS, PER NFPA 20. WATER SUPPLY PIPE FROM PUMP TO BE SUPPLIED BY OTHERS.
4. ALL DIMENSIONS ARE IN INCHES.



Approximate Weight (Lbs.)				
Base	Engine	Control w/ Base Ext.	Complete Unit Less Control	Complete Unit With Control
200	935	704	1135	1839

Certified for:  Preliminary  Approval  Construction By: \_\_\_\_\_ Date: \_\_\_\_\_

Project	Capacity:
Customer:	Total Pressure:
Item / P.D. No.:	Pump Speed:
Quote No.:	Pump Serial No.:
Pump Model:	S.D. No.:

Listed  UL  FM



Peerless Pump Company  
P.O. Box 7026 Indianapolis, IN 46207-7026  
Phone : 317-925-9661  
Fax : 317-924-7388

4854020  
REV. 12-04



# VERTICAL FIRE PUMPS OUTLINE -- ENGINE DRIVEN CLARKE DIESEL ENGINES JU6H-UF30, 32 & 34

- WITH BASE MOUNTED CONTROL
- LESS BASE MOUNTED CONTROL

**NOTES:**

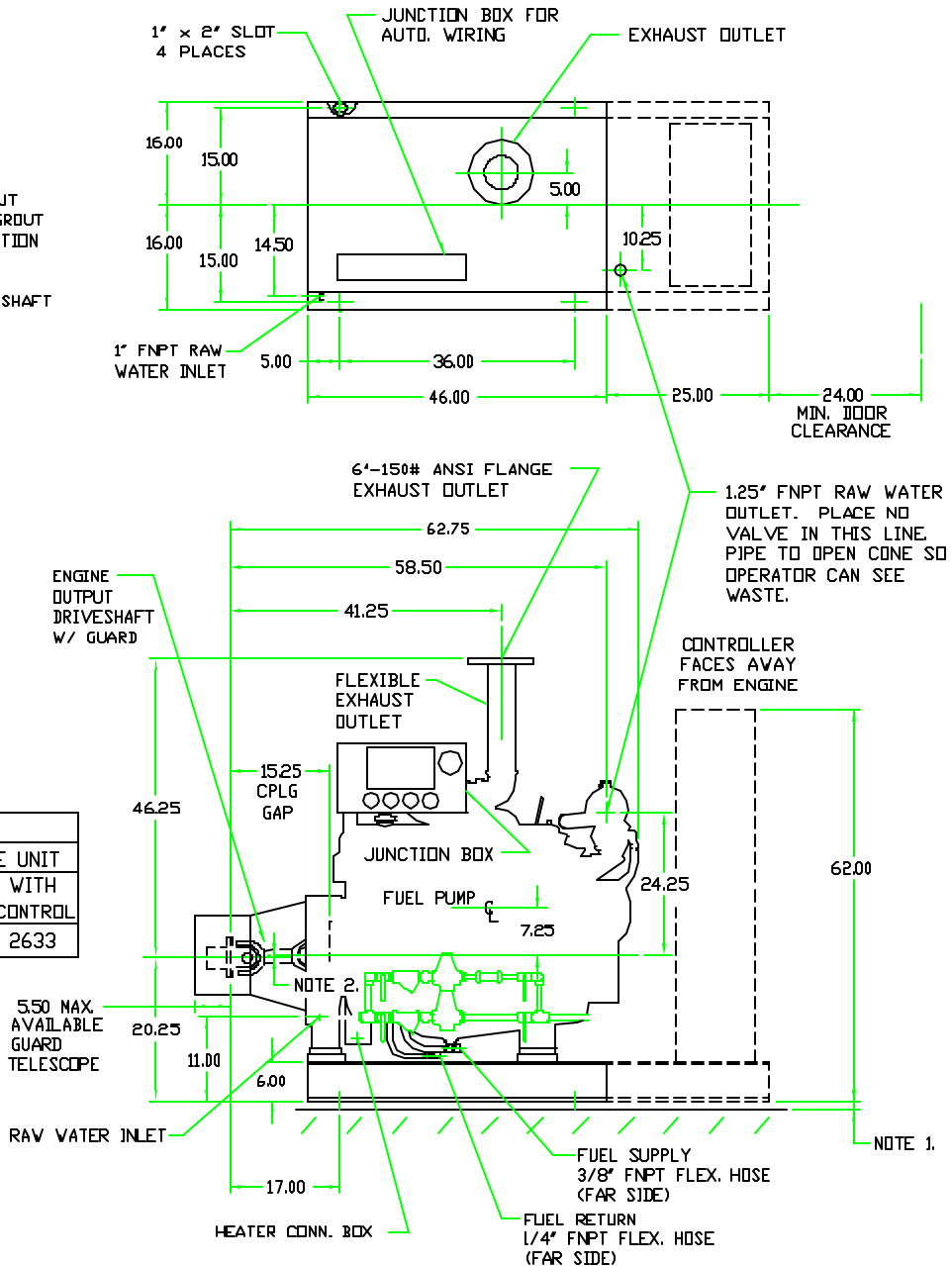
1. CUSTOMER MUST FILL BASE WITH GROUT AND ALLOW FROM .75 TO 1.50 INCH GROUT THICKNESS BETWEEN TOP OF FOUNDATION AND BOTTOM OF BASE.
2. UNIT INSTALLATION AND FINAL DRIVESHAFT ALIGNMENT MUST BE DONE BY THE INSTALLING CONTRACTOR.

**CAUTION**

THE DRIVESHAFT IS NOT DESIGNED TO OPERATE AT 0° ANGLE. THE ENGINE CRANKSHAFT IS TO BE A PARALLEL OFFSET 0.35 ±0.18 INCH ABOVE THE PUMP SHAFT. THE ENGINE CRANKSHAFT MAY BE PARALLEL OFFSET FROM THE GEAR SHAFT 0.35 INCH RIGHT OR LEFT. REFER TO THE ENGINE MANUAL FOR ALIGNMENT INSTRUCTIONS.

3. UNIT IS PIPED WITH WATER LINES AND BY-PASS. PER NFPA 20. WATER SUPPLY PIPE FROM PUMP TO BE SUPPLIED BY OTHERS.
4. ALL DIMENSIONS ARE IN INCHES.

APPROXIMATE WEIGHT (LBS.)				
BASE	ENGINE	CONTROL		
		W/ BASE EXT.	LESS CONTROL	WITH CONTROL
272	1657	704	1929	2633



Certified for:  Preliminary  Approval  Construction By: \_\_\_\_\_ Date: \_\_\_\_\_

Project	Capacity:
Customer	Total Pressure:
Item / P.D. No:	Pump Speed
Quote No:	Pump Serial No:
Pump Model:	S.D. No:

Listed:  UL  FM



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Fax : 317-924-7388

4853961  
REV. 12-04

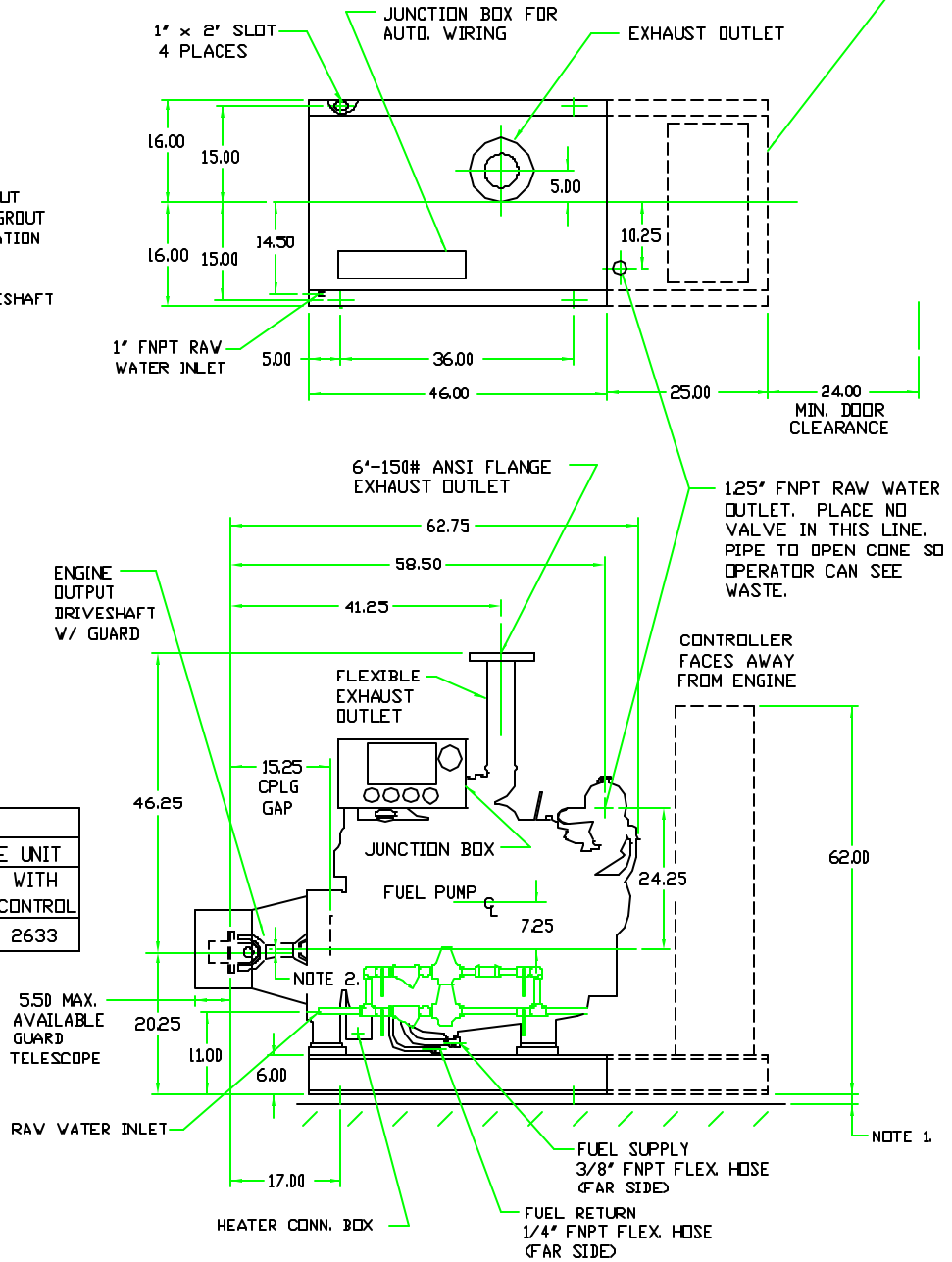
# VERTICAL FIRE PUMPS OUTLINE -- ENGINE DRIVEN CLARKE DIESEL ENGINES JU6H-UF50, 52 & 54

- WITH BASE MOUNTED CONTROL
- LESS BASE MOUNTED CONTROL

**NOTES:**

1. CUSTOMER MUST FILL BASE WITH GROUT AND ALLOW FROM .75 TO 1.50 INCH GROUT THICKNESS BETWEEN TOP OF FOUNDATION AND BOTTOM OF BASE.
2. UNIT INSTALLATION AND FINAL DRIVESHAFT ALIGNMENT MUST BE DONE BY THE INSTALLING CONTRACTOR.  
  
CAUTION  
THE DRIVESHAFT IS NOT DESIGNED TO OPERATE AT 0° ANGLE. THE ENGINE CRANKSHAFT IS TO BE A PARALLEL OFFSET 0.35 ±0.1B INCH ABOVE THE PUMPSHAFT. THE ENGINE CRANKSHAFT MAY BE PARALLEL OFFSET FROM THE GEAR SHAFT 0.35 INCH RIGHT OR LEFT. REFER TO THE ENGINE MANUAL FOR ALIGNMENT INSTRUCTIONS.
3. UNIT IS PIPED WITH WATER LINES AND BY-PASS, PER NFPA 20. WATER SUPPLY PIPE FROM PUMP TO BE SUPPLIED BY OTHERS.
4. ALL DIMENSIONS ARE IN INCHES.

APPROXIMATE WEIGHT (LBS.)				
BASE	ENGINE	COMPLETE UNIT		
		CONTROL W/ BASE EXT.	LESS CONTROL	WITH CONTROL
272	1657	704	1929	2633



Certified for:  Preliminary  Approval  Construction By: \_\_\_\_\_ Date: \_\_\_\_\_

Project:	Capacity:
Customer:	Total Pressure:
Item / P.O. No.:	Pump Speed:
Quote No.:	Pump Serial No.:
Pump Model:	S.D. No.:



Peerless Pump Company  
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Fax : 317-924-7388

4853964  
REV. 12-04

Listed  UL  FM

# VERTICAL FIRE PUMPS OUTLINE -- ENGINE DRIVEN CLARKE DIESEL ENGINES JU6H-UF60, 62 & 84

- WITH BASE MOUNTED CONTROL
- LESS BASE MOUNTED CONTROL

**NOTES:**

1. CUSTOMER MUST FILL BASE WITH GROUT AND ALLOW FROM .75 TO 1.50 INCH GROUT THICKNESS BETWEEN TOP OF FOUNDATION AND BOTTOM OF BASE.

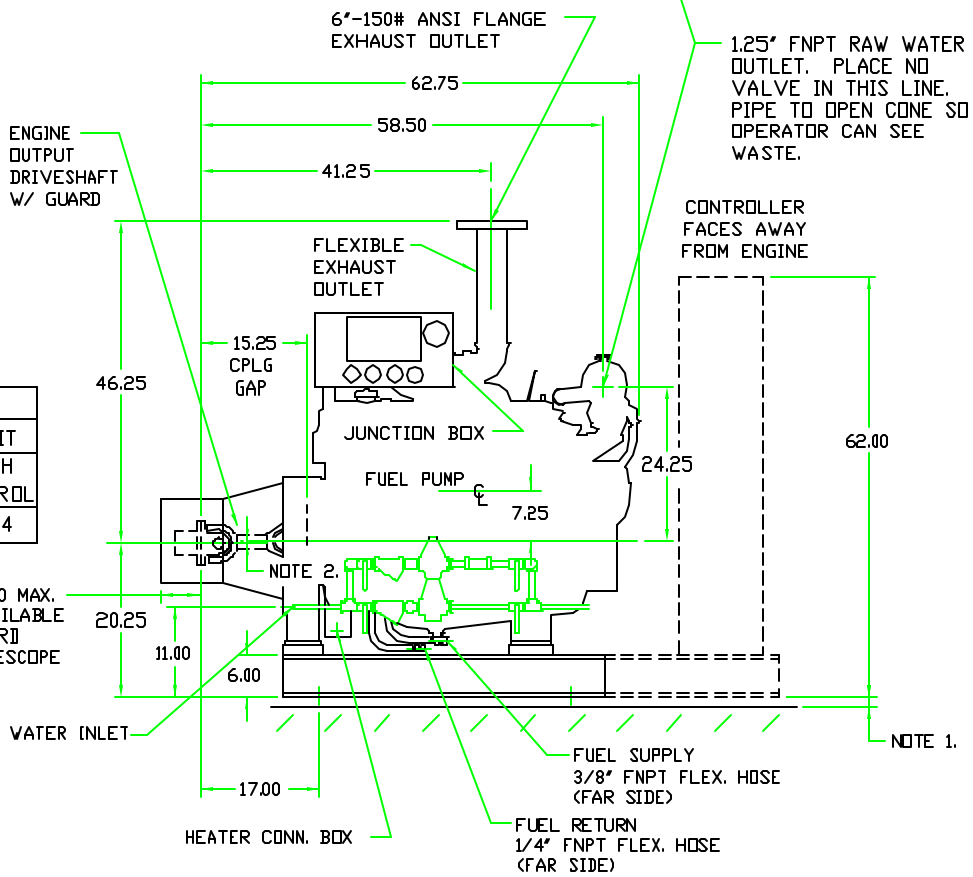
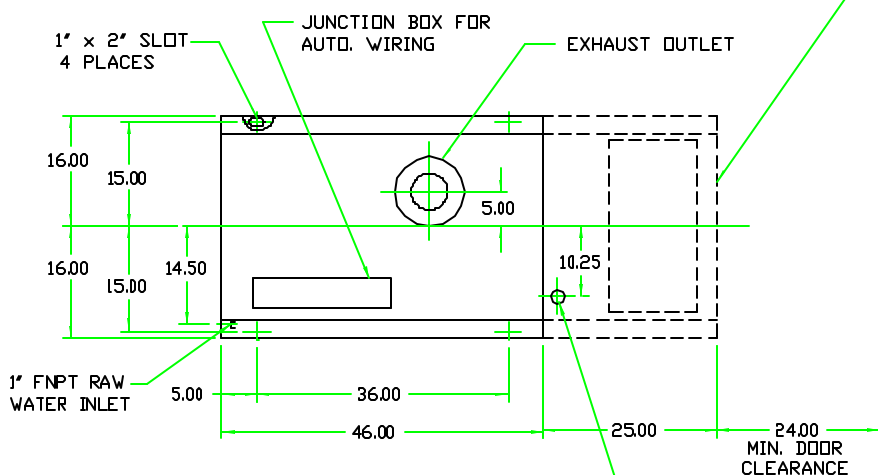
2. UNIT INSTALLATION AND FINAL DRIVESHAFT ALIGNMENT MUST BE DONE BY THE INSTALLING CONTRACTOR.

**CAUTION**

THE DRIVESHAFT IS NOT DESIGNED TO OPERATE AT 0° ANGLE. THE ENGINE CRANKSHAFT IS TO BE A PARALLEL OFFSET 0.35 ±0.18 INCH ABOVE THE PUMP SHAFT. THE ENGINE CRANKSHAFT MAY BE PARALLEL OFFSET FROM THE GEAR SHAFT 0.35 INCH RIGHT OR LEFT. REFER TO THE ENGINE MANUAL FOR ALIGNMENT INSTRUCTIONS.

3. UNIT IS PIPED WITH WATER LINES AND BY-PASS, PER NFPA 20. WATER SUPPLY PIPE FROM PUMP TO BE SUPPLIED BY OTHERS.

4. ALL DIMENSIONS ARE IN INCHES.



APPROXIMATE WEIGHT (LBS.)				
BASE	ENGINE	CONTROL W/ BASE EXT.	COMPLETE UNIT	
			LESS CONTROL	WITH CONTROL
272	1693	704	1965	2674

Certified for:  Approval  Construction By: \_\_\_\_\_ Date: \_\_\_\_\_

Project:	Capacity:
Customer:	Total Pressure:
P.O. No.:	Pump Speed:
Quote No.:	Pump Serial No.:
Pump Model:	S.D. No.:



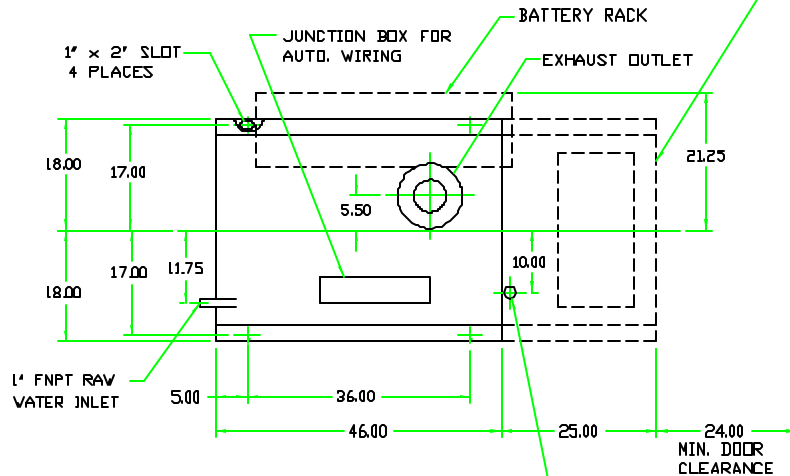
Peerless Pump Company  
Indianapolis, IN 46207-7026  
Phone : 317-925-9661  
Fax : 317-924-7388

4853967  
REV. 12-04

Listed:  UL  FM

VERTICAL FIRE PUMPS  
 OUTLINE -- ENGINE DRIVEN  
 CLARKE DIESEL ENGINE JW6H-UF30  
 (formerly JDFP-06WA)

- WITH BASE MOUNTED CONTROL  
 LESS BASE MOUNTED CONTROL



NOTES:

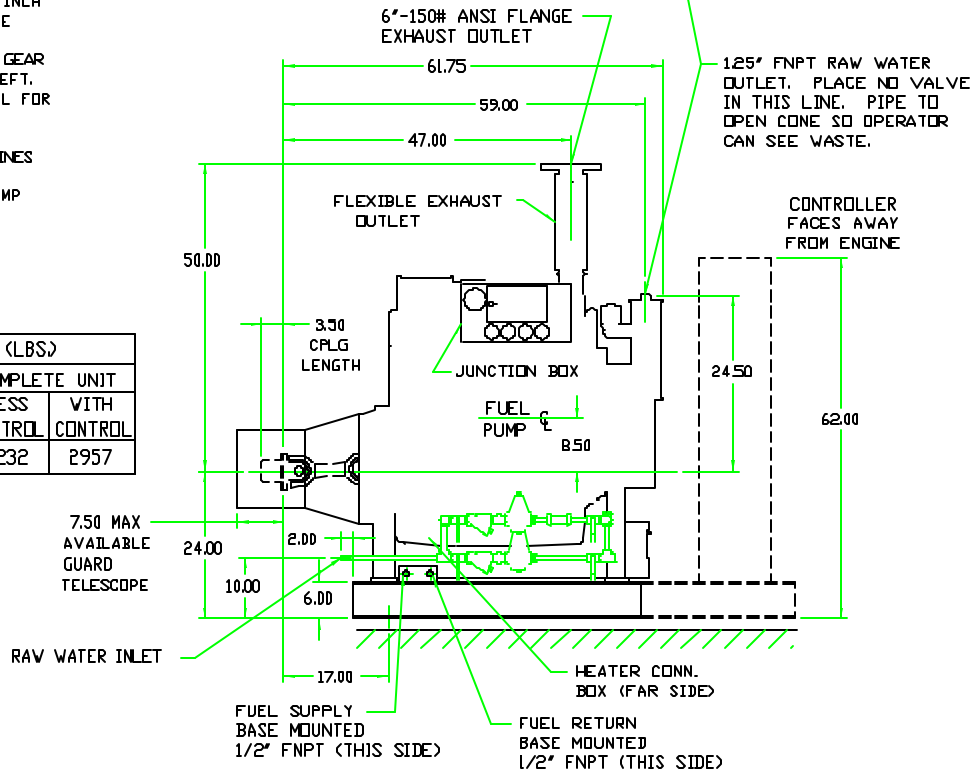
- CUSTOMER MUST FILL BASE WITH GROUT AND ALLOW FROM .75 TO 1.50 INCH GROUT THICKNESS BETWEEN TOP OF FOUNDATION AND BOTTOM OF BASE.
- UNIT INSTALLATION AND FINAL DRIVESHAFT ALIGNMENT MUST BE DONE BY THE INSTALLING CONTRACTOR.

CAUTION

THE DRIVESHAFT IS NOT DESIGNED TO OPERATE AT 0° ANGLE. THE ENGINE CRANKSHAFT IS TO BE A PARALLEL OFFSET 0.35 ±0.18 INCH ABOVE THE PUMP SHAFT. THE ENGINE CRANKSHAFT MAY BE PARALLEL OFFSET FROM THE GEAR SHAFT 0.35 INCH RIGHT OR LEFT. REFER TO THE ENGINE MANUAL FOR ALIGNMENT INSTRUCTIONS.

- UNIT IS PIPED WITH WATER LINES AND BY-PASS, PER NFPA 20. WATER SUPPLY PIPE FROM PUMP TO BE SUPPLIED BY OTHERS.
- ALL DIMENSIONS ARE IN INCHES.

APPROXIMATE WEIGHT (LBS)				
BASE	ENGINE	CONTROL W/ BASE EXT.	COMPLETE UNIT	
			LESS CONTROL	WITH CONTROL
220	2012	725	2232	2957



Certified for:  Preliminary  Approval  Construction By: \_\_\_\_\_ Date: \_\_\_\_\_

Project:	Capacity:
Customer:	Total Pressure:
Item / P.D. No.:	Pump Speed:
Quote No.:	Pump Serial No.:
Pump Model:	S.D. No.:

Listed:  UL  FM



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 Fax : 317-924-7388

4853872  
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**VERTICAL FIRE PUMPS  
OUTLINE -- ENGINE DRIVEN  
CLARKE DIESEL ENGINE JW6H-UF40  
(formerly JDFP-06WR)**

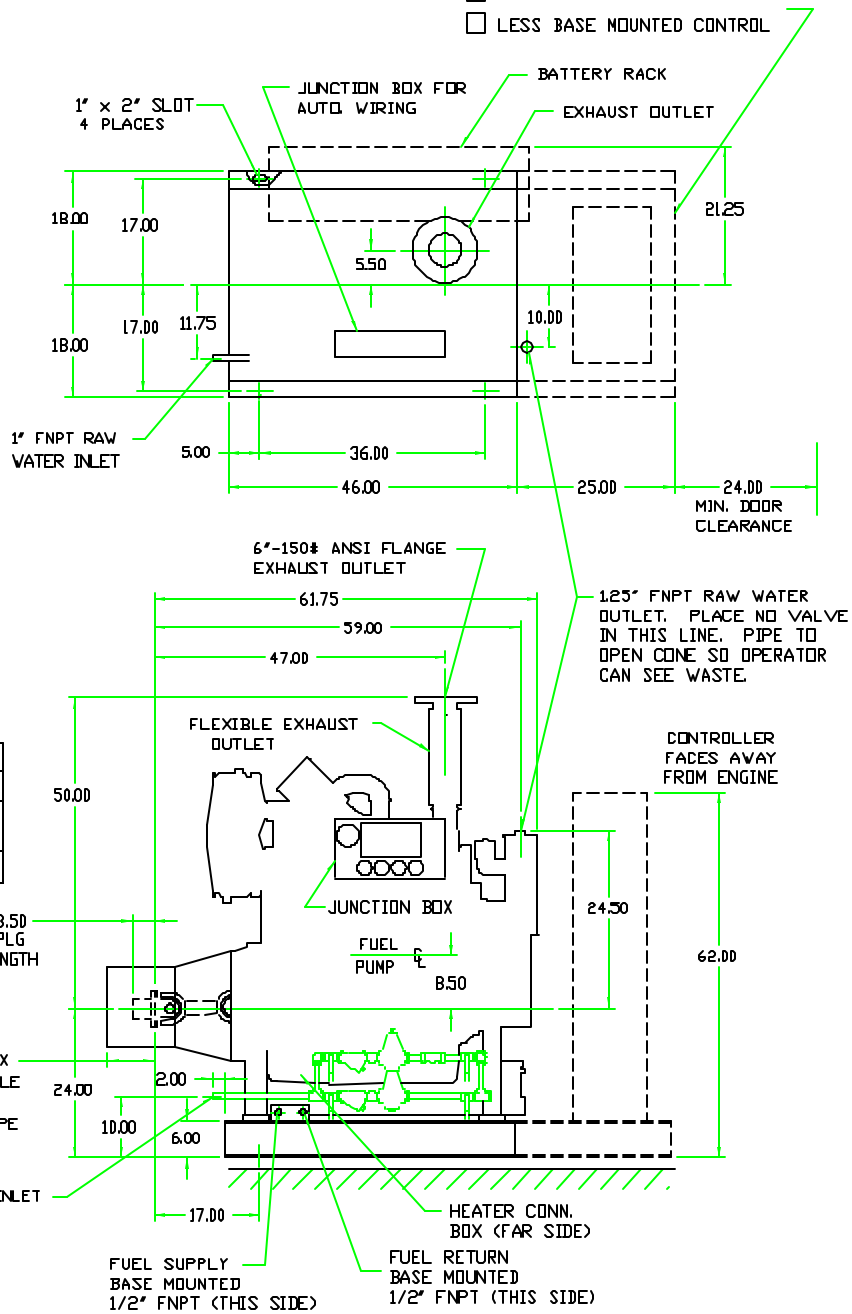
- WITH BASE MOUNTED CONTROL  
 LESS BASE MOUNTED CONTROL

**NOTES:**

- CUSTOMER MUST FILL BASE WITH GROUT AND ALLOW FROM .75 TO 1.50 INCH GROUT THICKNESS BETWEEN TOP OF FOUNDATION AND BOTTOM OF BASE.
- UNIT INSTALLATION AND FINAL DRIVESHAFT ALIGNMENT MUST BE DONE BY THE INSTALLING CONTRACTOR.

**CAUTION**  
THE DRIVESHAFT IS NOT DESIGNED TO OPERATE AT 0° ANGLE. THE ENGINE CRANKSHAFT IS TO BE A PARALLEL OFFSET 0.35 ± 0.18 INCH ABOVE THE PUMP SHAFT. THE ENGINE CRANKSHAFT MAY BE PARALLEL OFFSET FROM THE GEAR SHAFT 0.35 INCH RIGHT OR LEFT. REFER TO THE ENGINE MANUAL FOR ALIGNMENT INSTRUCTIONS.

- UNIT IS PIPED WITH WATER LINES AND BY-PASS, PER NFPA 20. WATER SUPPLY PIPE FROM PUMP TO BE SUPPLIED BY OTHERS.
- ALL DIMENSIONS ARE IN INCHES.



APPROXIMATE WEIGHT (LBS)				
BASE	ENGINE	CONTROL W/ BASE EXT.	COMPLETE UNIT	
			LESS CONTROL	WITH CONTROL
220	2003	725	2223	2948

Certified for:  Preliminary  Approval  Construction By: \_\_\_\_\_ Date: \_\_\_\_\_

Project	Capacity:
Customer:	Total Pressure:
Item / P.O. No.:	Pump Speed:
Quote No.:	Pump Serial No.:
Pump Model:	S.D. No.:

Listed:  UL  FM



Peerless Pump Company  
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4853873  
REV. 12-04

VERTICAL FIRE PUMPS  
OUTLINE -- ENGINE DRIVEN  
CLARKE DIESEL ENGINE JW6H-UF50

- WITH BASE MOUNTED CONTROL
- LESS BASE MOUNTED CONTROL

NOTES:

1. CUSTOMER MUST FILL BASE WITH GROUT AND ALLOW FROM .75 TO 1.50 INCH GROUT THICKNESS BETWEEN TOP OF FOUNDATION AND BOTTOM OF BASE.

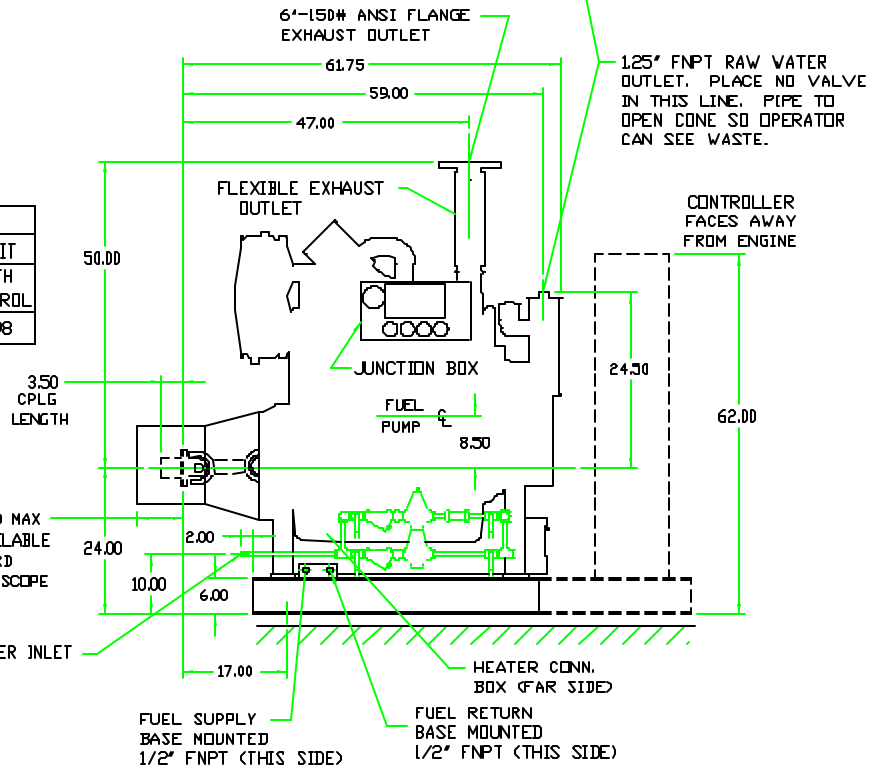
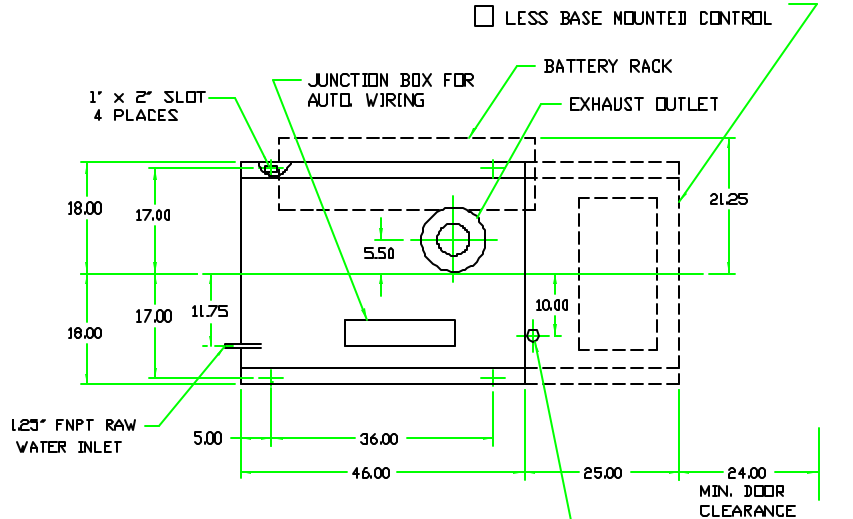
2. UNIT INSTALLATION AND FINAL DRIVESHAFT ALIGNMENT MUST BE DONE BY THE INSTALLING CONTRACTOR.

CAUTION

THE DRIVESHAFT IS NOT DESIGNED TO OPERATE AT 0° ANGLE. THE ENGINE CRANKSHAFT IS TO BE A PARALLEL OFFSET 0.35 ±0.10 INCH ABOVE THE PUMP SHAFT. THE ENGINE CRANKSHAFT MAY BE PARALLEL OFFSET FROM THE GEAR SHAFT 0.33 INCH RIGHT OR LEFT. REFER TO THE ENGINE MANUAL FOR ALIGNMENT INSTRUCTIONS.

3. UNIT IS PIPED WITH WATER LINES AND BY-PASS, PER NFPA 20. WATER SUPPLY PIPE FROM PUMP TO BE SUPPLIED BY OTHERS.

4. ALL DIMENSIONS ARE IN INCHES.



APPROXIMATE WEIGHT (LBS.)				
BASE	ENGINE	CONTROL V/ BASE EXT.	COMPLETE UNIT	
			LESS CONTROL	WITH CONTROL
220	2053	725	2273	2998

Certified for:  Preliminary  Approval  Construction By: \_\_\_\_\_ Date: \_\_\_\_\_

Project:	Capacity:
Customer:	Total Pressure:
Item / P.O. No.:	Pump Speed:
Quote No.:	Pump Serial No.:
Pump Model:	S.D. No.:

Listed:  UL  FM



Peerless Pump Company  
P.O. Box 7026 Indianapolis, IN 46207-7026  
Phone : 317-925-9661  
Fax : 317-924-7388

4854035

REV. 12-04

**VERTICAL FIRE PUMPS  
OUTLINE -- ENGINE DRIVEN  
CLARKE DIESEL ENGINE JW6H-UF60**

- WITH BASE MOUNTED CONTROL
- LESS BASE MOUNTED CONTROL

**NOTES:**

1. CUSTOMER MUST FILL BASE WITH GROUT AND ALLOW FROM .75 TO 1.50 INCH GROUT THICKNESS BETWEEN TOP OF FOUNDATION AND BOTTOM OF BASE.
2. UNIT INSTALLATION AND FINAL DRIVESHAFT ALIGNMENT MUST BE DONE BY THE INSTALLING CONTRACTOR.

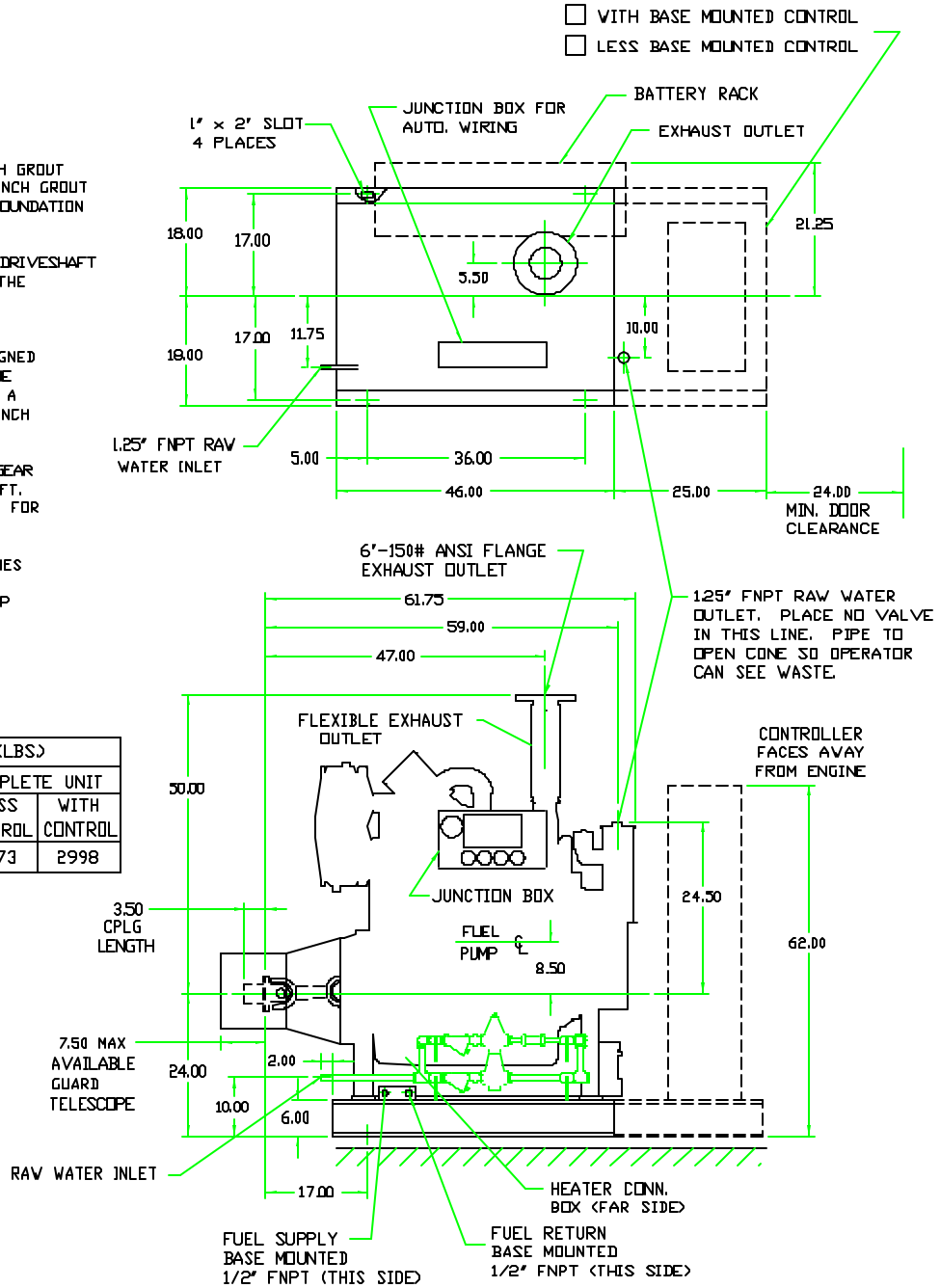
**CAUTION**

THE DRIVESHAFT IS NOT DESIGNED TO OPERATE AT 0° ANGLE. THE ENGINE CRANKSHAFT IS TO BE A PARALLEL OFFSET 0.33 ±0.18 INCH ABOVE THE PUMP SHAFT. THE ENGINE CRANKSHAFT MAY BE PARALLEL OFFSET FROM THE GEAR SHAFT 0.33 INCH RIGHT OR LEFT. REFER TO THE ENGINE MANUAL FOR ALIGNMENT INSTRUCTIONS.

3. UNIT IS PIPED WITH WATER LINES AND BY-PASS, PER NFPA 20. WATER SUPPLY PIPE FROM PUMP TO BE SUPPLIED BY OTHERS.

4. ALL DIMENSIONS ARE IN INCHES.

APPROXIMATE WEIGHT (LBS)				
BASE	ENGINE	CONTROL W/ BASE EXT.	COMPLETE UNIT LESS CONTROL	COMPLETE UNIT WITH CONTROL
220	2053	725	2273	2998



Certified for:  Preliminary  Approval  Construction By: \_\_\_\_\_ Date: \_\_\_\_\_

Project:	Capacity:
Customer:	Total Pressure:
Item / P.O. No.:	Pump Speed:
Quote No.:	Pump Serial No.:
Pump Model:	S.D. No.:



Peerless Pump Company  
P.O. Box 7026 Indianapolis, IN 46207-7026  
Phone : 317-925-9661  
Fax : 317-924-7388

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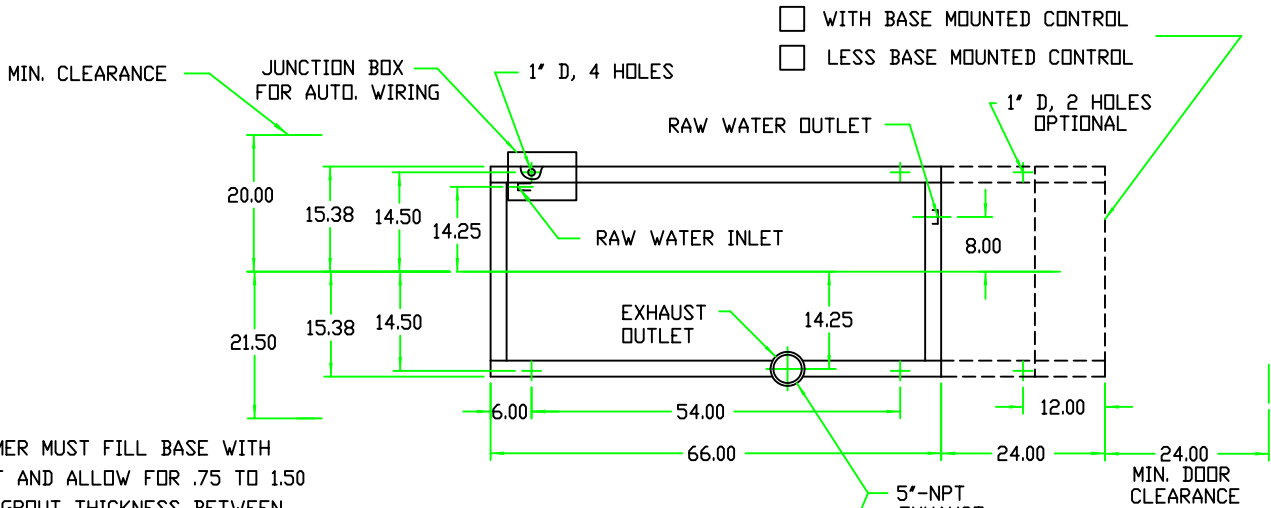
REV. 12-04

Listed:  UL  FM

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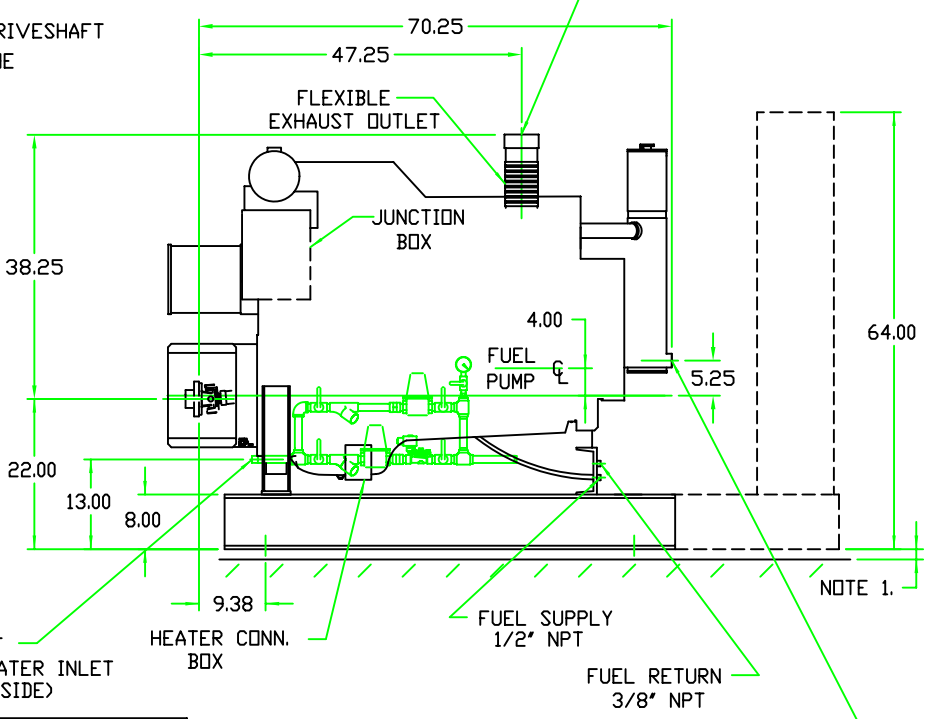
VERTICAL FIRE PUMPS  
 OUTLINE -- ENGINE DRIVEN  
 CUMMINS DIESEL ENGINE CFP11E-F10, F20 (UL, FM & ULC)



- WITH BASE MOUNTED CONTROL
- LESS BASE MOUNTED CONTROL

NOTES:

1. CUSTOMER MUST FILL BASE WITH GROUT AND ALLOW FOR .75 TO 1.50 INCH GROUT THICKNESS BETWEEN TOP OF FOUNDATION AND BOTTOM OF BASE.
2. UNIT INSTALLATION AND FINAL DRIVESHAFT ALIGNMENT MUST BE DONE BY THE INSTALLING CONTRACTOR.  
 CAUTION  
 THE DRIVESHAFT IS NOT DESIGNED TO OPERATE AT 0° ANGLE. THE ENGINE CRANK-SHAFT IS TO BE A PARALLEL OFFSET .35 ±.18 INCH ABOVE THE PUMP OR GEAR SHAFT. IT MAY BE PARALLEL OFFSET .35 RIGHT OR LEFT OF THE ENGINE SHAFT. REFER TO THE ENGINE MANUAL FOR ALIGNMENT INSTR.
3. UNIT IS PIPED WITH WATER LINES AND BY-PASS, PER NFPA 20. WATER SUPPLY PIPE FROM PUMP TO BE SUPPLIED BY OTHERS.
4. ALL DIMENSIONS ARE IN INCHES.



APPROXIMATE WEIGHT (LBS)				
BASE	ENGINE	CONTROL	UNIT	
			LESS CONTROL	WITH CONTROL
300	2343	600	2643	3243

1.25" FNPT RAW WATER OUTLET PLACE NO VALVE IN THIS LINE. PIPE TO OPEN CONE SO OPERATOR CAN SEE WASTE.

Certified for:  Preliminary  Approval  Construction By: \_\_\_\_\_ Date: \_\_\_\_\_

Project:	Capacity:
Customer:	Total Pressure:
Item / P.O. No.:	Pump Speed:
Quote No.:	Pump Serial No.:
Pump Model:	S.D. No.:

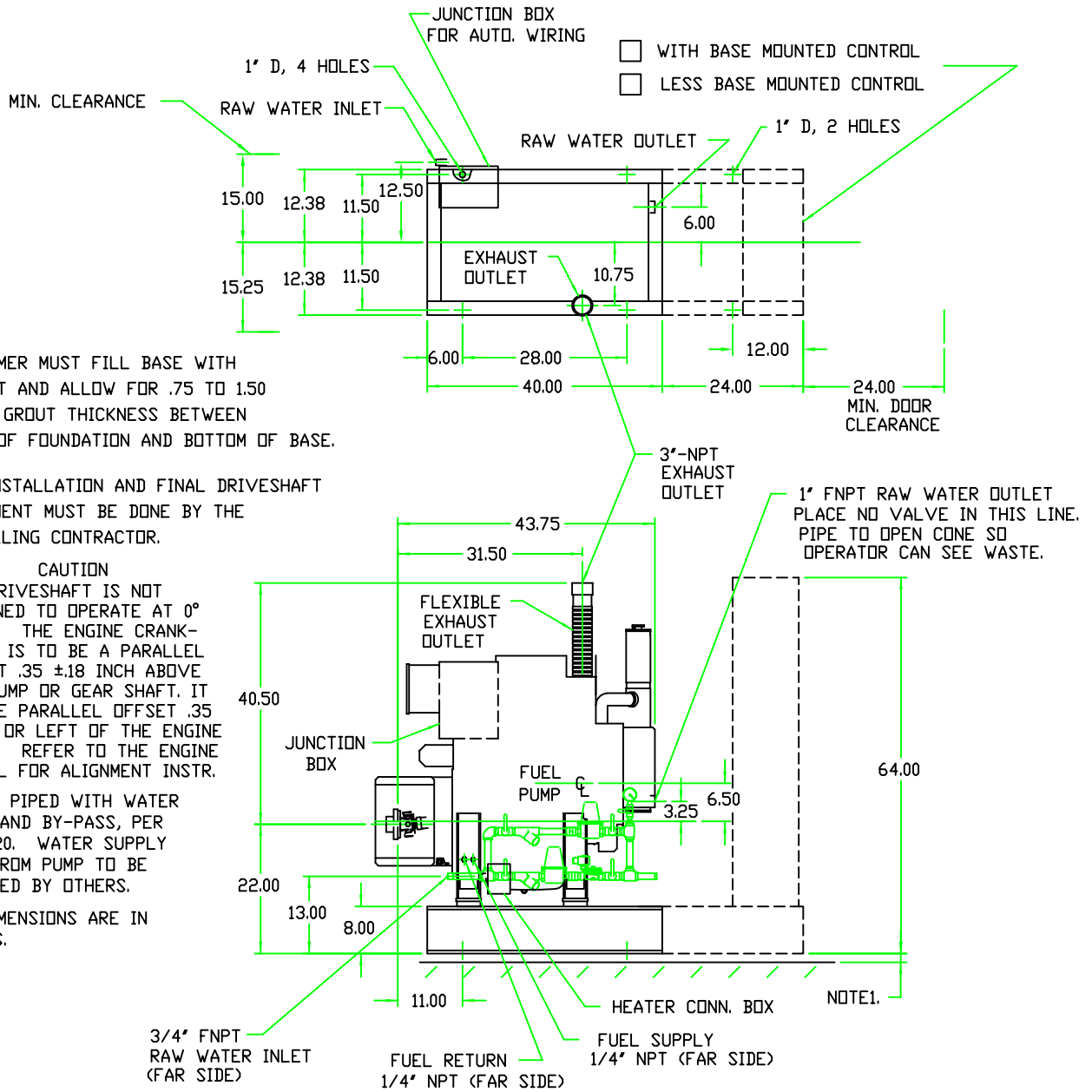


Peerless Pump Company  
 P.O. Box 7026 Indianapolis, IN 46207-7026  
 Phone : 317-925-9661  
 Fax : 317-924-7388

4854307  
 Rev. 1-06

Listed:  UL  FM

**VERTICAL FIRE PUMPS  
OUTLINE -- ENGINE DRIVEN**  
CUMMINS DIESEL ENGINE CFP33-F10, F20, F25, F30, F35 (UL, FM & ULC)



**NOTES:**

1. CUSTOMER MUST FILL BASE WITH GROUT AND ALLOW FOR .75 TO 1.50 INCH GROUT THICKNESS BETWEEN TOP OF FOUNDATION AND BOTTOM OF BASE.

2. UNIT INSTALLATION AND FINAL DRIVESHAFT ALIGNMENT MUST BE DONE BY THE INSTALLING CONTRACTOR.

**CAUTION**  
THE DRIVESHAFT IS NOT DESIGNED TO OPERATE AT 0° ANGLE. THE ENGINE CRANK-SHAFT IS TO BE A PARALLEL OFFSET .35 ±.18 INCH ABOVE THE PUMP OR GEAR SHAFT. IT MAY BE PARALLEL OFFSET .35 RIGHT OR LEFT OF THE ENGINE SHAFT. REFER TO THE ENGINE MANUAL FOR ALIGNMENT INSTR.

3. UNIT IS PIPED WITH WATER LINES AND BY-PASS, PER NFPA 20. WATER SUPPLY PIPE FROM PUMP TO BE SUPPLIED BY OTHERS.

4. ALL DIMENSIONS ARE IN INCHES.

APPROXIMATE WEIGHT (LBS)				
BASE	ENGINE	CONTROL	UNIT	
			LESS CONTROL	WITH CONTROL
250	722	600	972	1572

Certified for:  Preliminary  Approval  Construction By: \_\_\_\_\_ Date: \_\_\_\_\_

Project:	Capacity:
Customer:	Total Pressure:
Item / P.O. No.:	Pump Speed:
Quote No.:	Pump Serial No.:
Pump Model:	S.D. No.:

Listed:  UL  FM

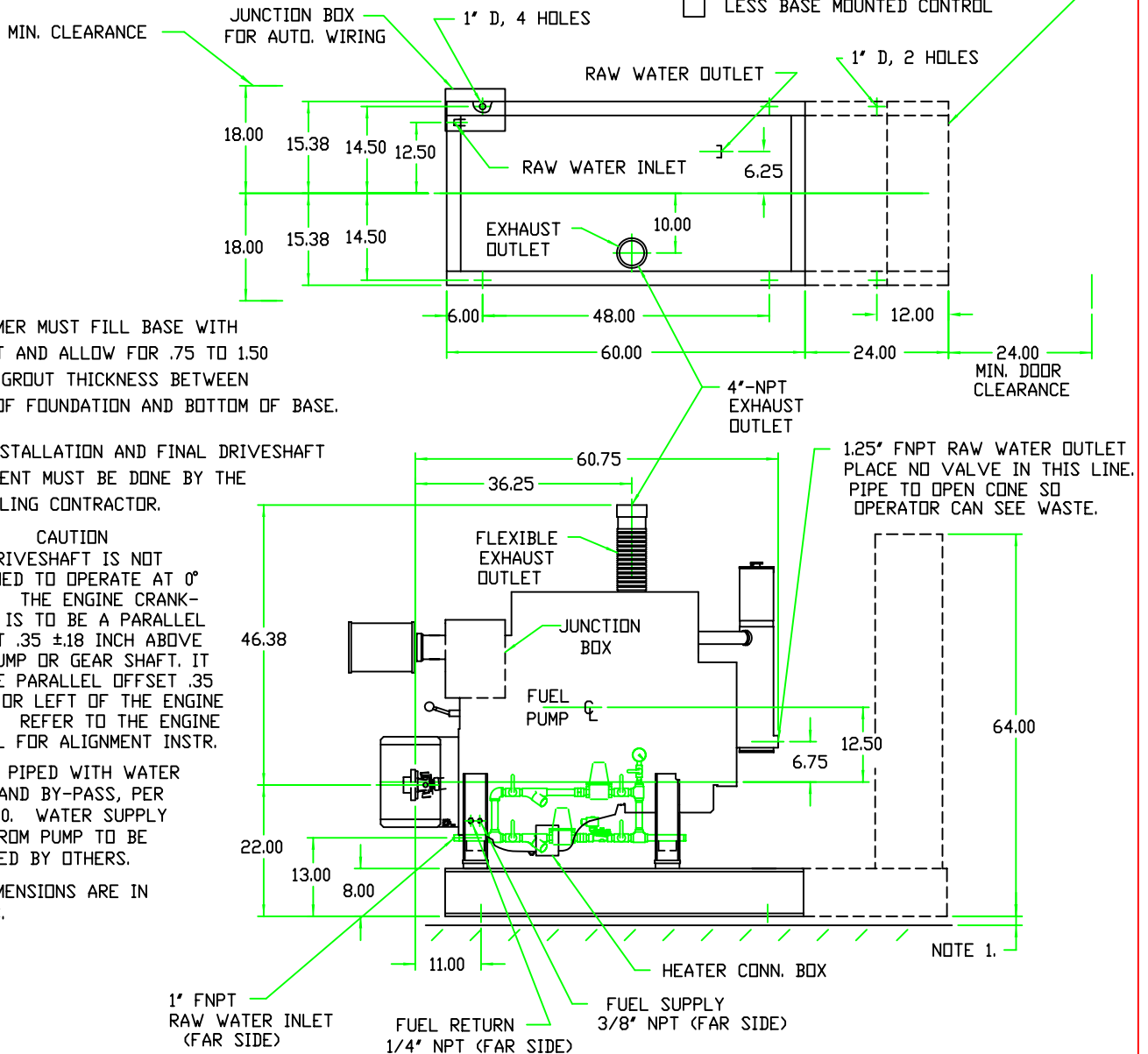


Peerless Pump Company  
P.O. Box 7026 Indianapolis, IN 46207-7026  
Phone : 317-925-9661  
Fax : 317-924-7388

4854299  
Rev. 1-06

**VERTICAL FIRE PUMPS  
OUTLINE -- ENGINE DRIVEN**  
CUMMINS DIESEL ENGINE CFP83-F10, F20, F30, F40 (UL, FM & ULC)

- WITH BASE MOUNTED CONTROL
- LESS BASE MOUNTED CONTROL



**NOTES:**

1. CUSTOMER MUST FILL BASE WITH GROUT AND ALLOW FOR .75 TO 1.50 INCH GROUT THICKNESS BETWEEN TOP OF FOUNDATION AND BOTTOM OF BASE.

2. UNIT INSTALLATION AND FINAL DRIVESHAFT ALIGNMENT MUST BE DONE BY THE INSTALLING CONTRACTOR.

**CAUTION**  
THE DRIVESHAFT IS NOT DESIGNED TO OPERATE AT 0° ANGLE. THE ENGINE CRANK-SHAFT IS TO BE A PARALLEL OFFSET .35 ±.18 INCH ABOVE THE PUMP OR GEAR SHAFT. IT MAY BE PARALLEL OFFSET .35 RIGHT OR LEFT OF THE ENGINE SHAFT. REFER TO THE ENGINE MANUAL FOR ALIGNMENT INSTR.

3. UNIT IS PIPED WITH WATER LINES AND BY-PASS, PER NFPA 20. WATER SUPPLY PIPE FROM PUMP TO BE SUPPLIED BY OTHERS.

4. ALL DIMENSIONS ARE IN INCHES.

APPROXIMATE WEIGHT (LBS)				
BASE	ENGINE	CONTROL	UNIT	
			LESS CONTROL	WITH CONTROL
285	722	600	1007	1607

Certified for:  Preliminary  Approval  Construction By: \_\_\_\_\_ Date: \_\_\_\_\_

Project:	Capacity:
Customer:	Total Pressure:
Item / P.D. No.:	Pump Speed:
Quote No.:	Pump Serial No.:
Pump Model:	S.D. No.:

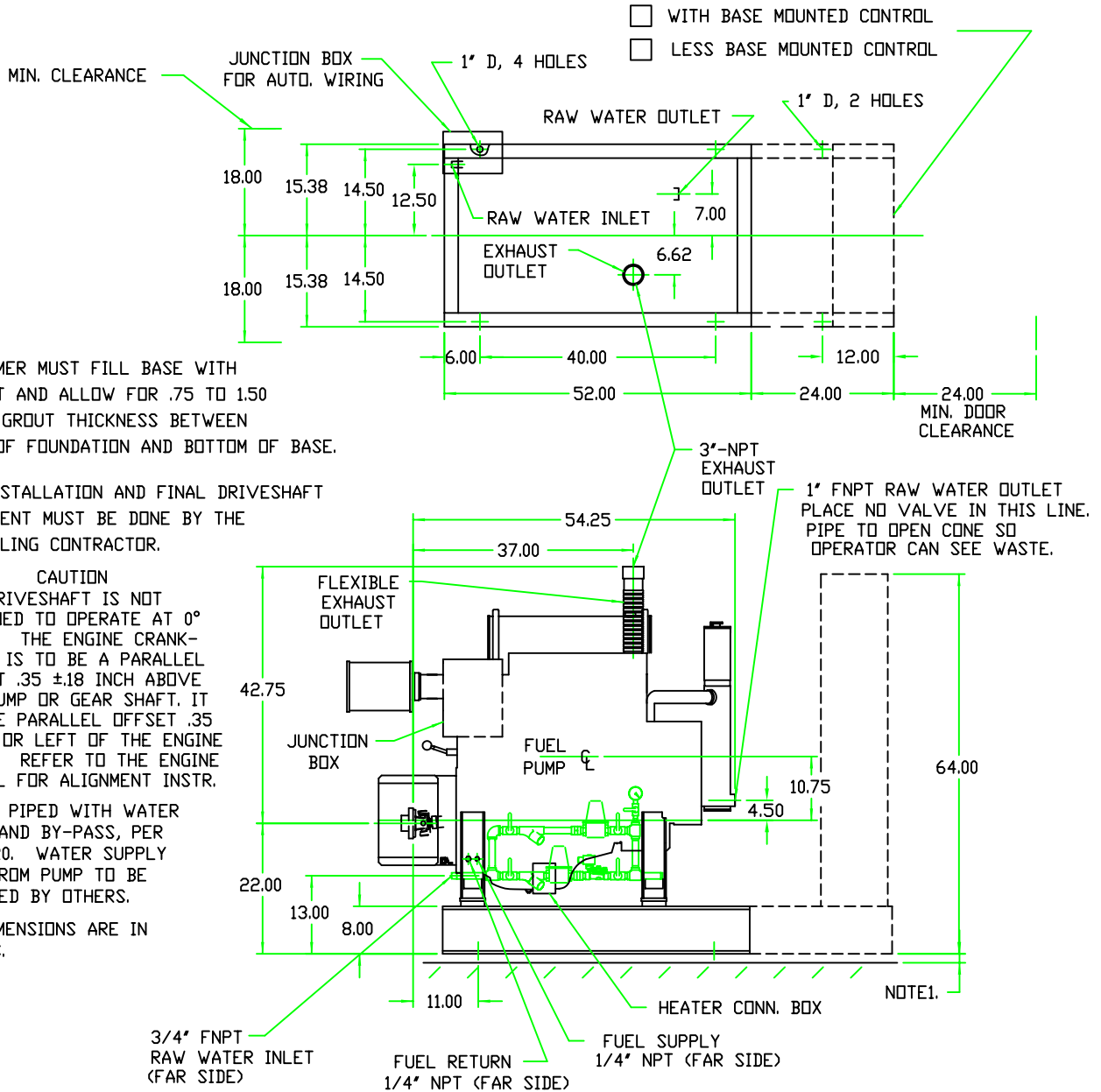
Listed:  UL  FM



Peerless Pump Company  
P.O. Box 7026 Indianapolis, IN 46207-7026  
Phone : 317-925-9661  
Fax : 317-924-7388

4854304  
Rev. 1-06

**VERTICAL FIRE PUMPS  
OUTLINE -- ENGINE DRIVEN  
CUMMINS DIESEL ENGINE CFP6E-F15, F25, F35 (UL, FM & ULC)**



APPROXIMATE WEIGHT (LBS)				
BASE	ENGINE	CONTROL	UNIT	
			LESS CONTROL	WITH CONTROL
275	1257	600	1532	2132

Certified for:  Preliminary  Approval  Construction By: \_\_\_\_\_ Date: \_\_\_\_\_

Project:	Capacity:
Customer:	Total Pressure:
Item / P.D. No.:	Pump Speed:
Quote No.:	Pump Serial No.:
Pump Model:	S.D. No.:

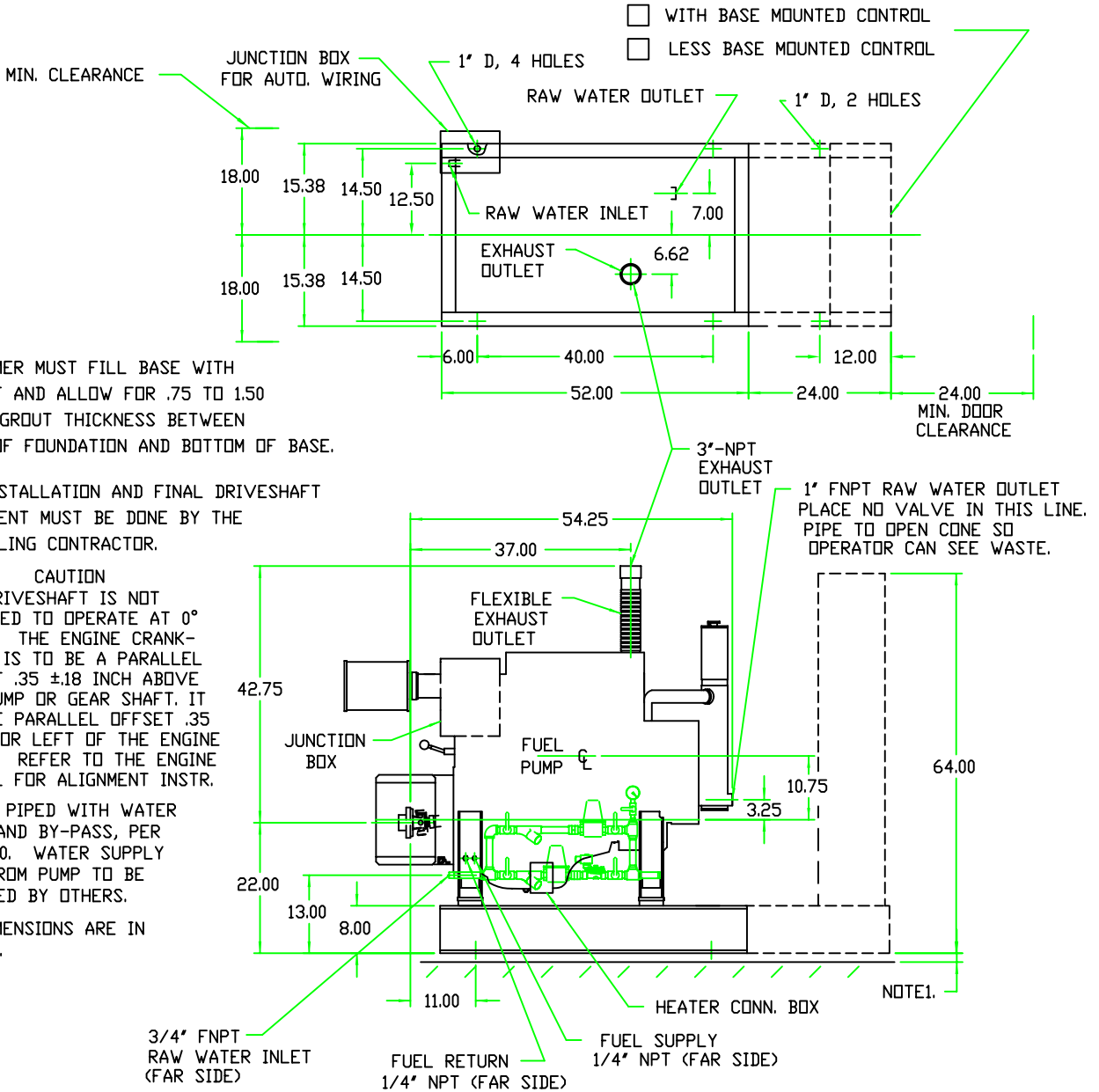
Listed:  UL  FM



Peerless Pump Company  
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Phone : 317-925-9661  
Fax : 317-924-7388

4854303  
Rev. 1-06

**VERTICAL FIRE PUMPS  
OUTLINE -- ENGINE DRIVEN**  
CUMMINS DIESEL ENGINE CFP59-F10, F15, F20, F25, F40, F45, F50, F55 (UL, FM & ULC)



**NOTES:**

1. CUSTOMER MUST FILL BASE WITH GROUT AND ALLOW FOR .75 TO 1.50 INCH GROUT THICKNESS BETWEEN TOP OF FOUNDATION AND BOTTOM OF BASE.

2. UNIT INSTALLATION AND FINAL DRIVESHAFT ALIGNMENT MUST BE DONE BY THE INSTALLING CONTRACTOR.

**CAUTION**

THE DRIVESHAFT IS NOT DESIGNED TO OPERATE AT 0° ANGLE. THE ENGINE CRANK-SHAFT IS TO BE A PARALLEL OFFSET .35 ±.18 INCH ABOVE THE PUMP OR GEAR SHAFT. IT MAY BE PARALLEL OFFSET .35 RIGHT OR LEFT OF THE ENGINE SHAFT. REFER TO THE ENGINE MANUAL FOR ALIGNMENT INSTR.

3. UNIT IS PIPED WITH WATER LINES AND BY-PASS, PER NFPA 20. WATER SUPPLY PIPE FROM PUMP TO BE SUPPLIED BY OTHERS.

4. ALL DIMENSIONS ARE IN INCHES.

1' FNPT RAW WATER OUTLET PIPE TO OPEN CONE SO OPERATOR CAN SEE WASTE.

NOTE 1.

APPROXIMATE WEIGHT (LBS)				
BASE	ENGINE	CONTROL	UNIT	
			LESS CONTROL	WITH CONTROL
275	1138	600	1413	2013

Certified for:  Preliminary  Approval  Construction By: \_\_\_\_\_ Date: \_\_\_\_\_

Project:	Capacity:
Customer:	Total Pressure:
Item / P.D. No.:	Pump Speed:
Quote No.:	Pump Serial No.:
Pump Model:	S.D. No.:

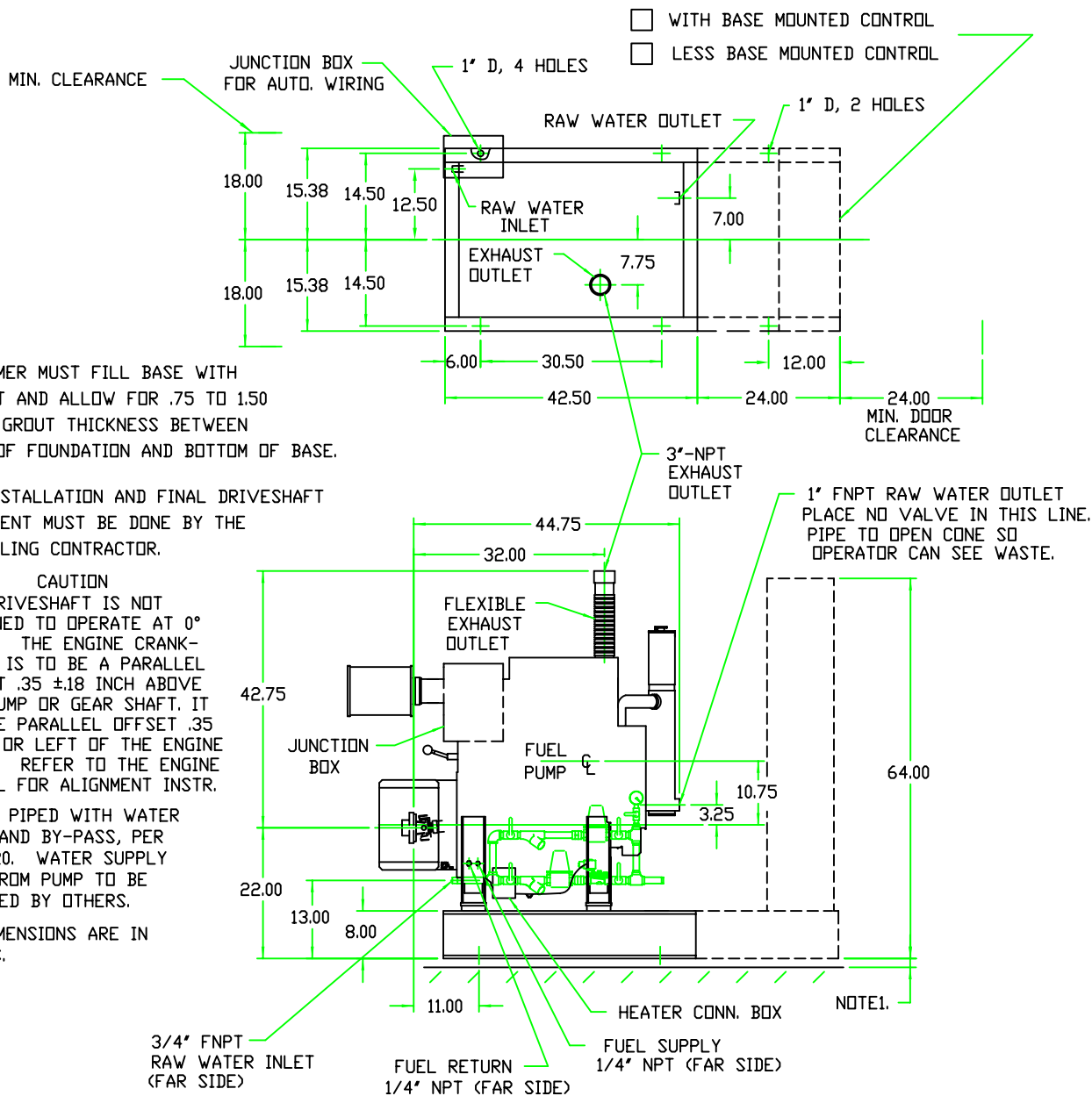
Listed:  UL  FM



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Phone : 317-925-9661  
Fax : 317-924-7388

4854302  
Rev. 1-06

VERTICAL FIRE PUMPS  
 OUTLINE -- ENGINE DRIVEN  
 CUMMINS DIESEL ENGINE CFP39-F15 (UL, FM & ULC)



NOTES:

1. CUSTOMER MUST FILL BASE WITH GROUT AND ALLOW FOR .75 TO 1.50 INCH GROUT THICKNESS BETWEEN TOP OF FOUNDATION AND BOTTOM OF BASE.

2. UNIT INSTALLATION AND FINAL DRIVESHAFT ALIGNMENT MUST BE DONE BY THE INSTALLING CONTRACTOR.

CAUTION  
 THE DRIVESHAFT IS NOT DESIGNED TO OPERATE AT 0° ANGLE. THE ENGINE CRANK-SHAFT IS TO BE A PARALLEL OFFSET .35 ±.18 INCH ABOVE THE PUMP OR GEAR SHAFT. IT MAY BE PARALLEL OFFSET .35 RIGHT OR LEFT OF THE ENGINE SHAFT. REFER TO THE ENGINE MANUAL FOR ALIGNMENT INSTR.

3. UNIT IS PIPED WITH WATER LINES AND BY-PASS, PER NFPA 20. WATER SUPPLY PIPE FROM PUMP TO BE SUPPLIED BY OTHERS.

4. ALL DIMENSIONS ARE IN INCHES.

1" FNPT RAW WATER OUTLET  
 PLACE NO VALVE IN THIS LINE. PIPE TO OPEN CONE SO OPERATOR CAN SEE WASTE.

NOTE 1.

APPROXIMATE WEIGHT (LBS)				
BASE	ENGINE	CONTROL	UNIT	
			LESS CONTROL	WITH CONTROL
250	964	600	1214	1814

Certified for:  Preliminary  Approval  Construction By: \_\_\_\_\_ Date: \_\_\_\_\_

Project:	Capacity:
Customer:	Total Pressure:
Item / P.O. No.:	Pump Speed:
Quote No.:	Pump Serial No.:
Pump Model:	S.D. No.:

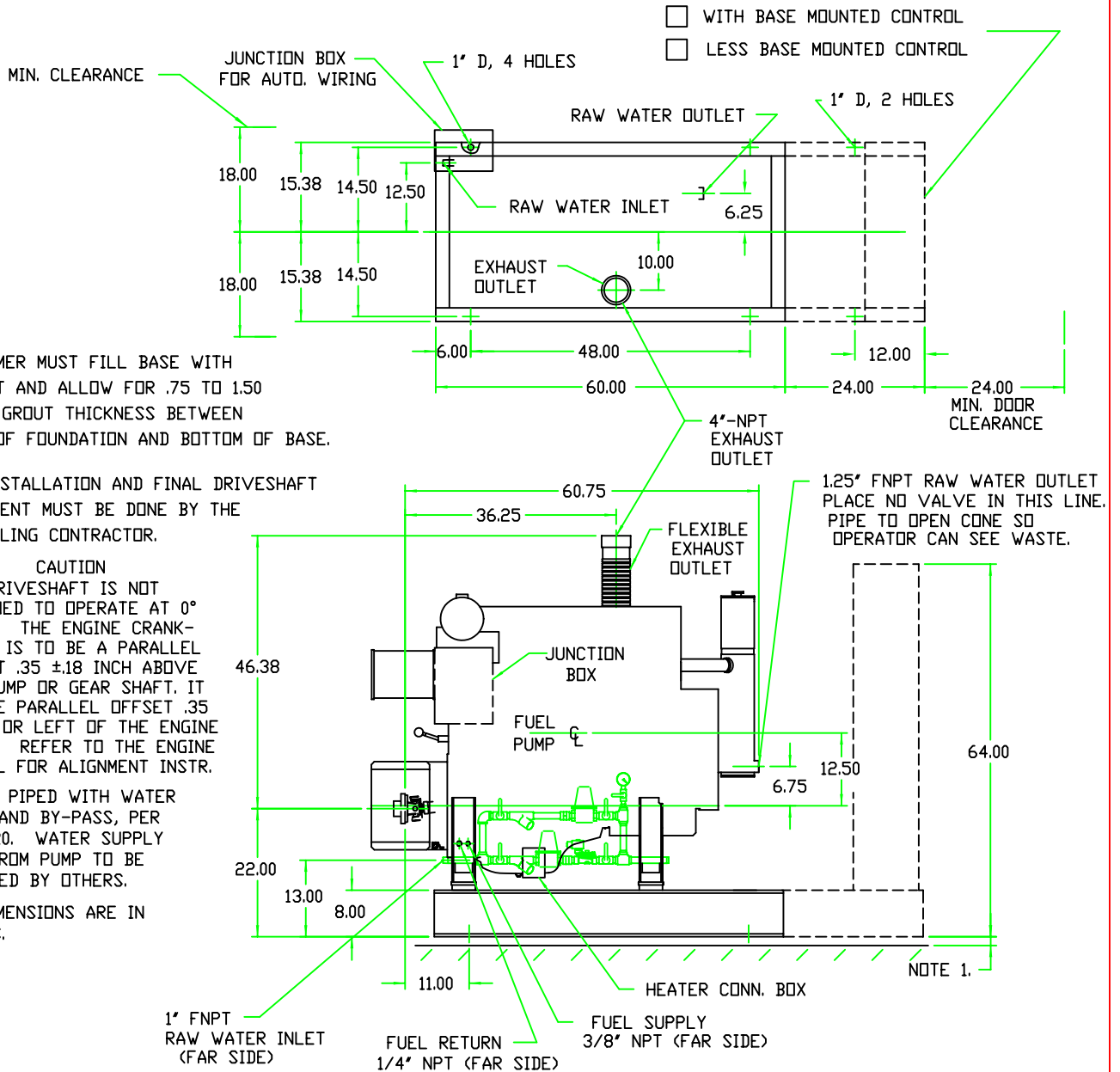
Listed:  UL  FM



Peerless Pump Company  
 P.O. Box 7026 Indianapolis, IN 46207-7026  
 Phone : 317-925-9661  
 Fax : 317-924-7388

4854301  
 Rev. 1-06

VERTICAL FIRE PUMPS  
 OUTLINE -- ENGINE DRIVEN  
 CUMMINS DIESEL ENGINE CFP8E-F10 (UL, FM & ULC)



NOTES:

1. CUSTOMER MUST FILL BASE WITH GROUT AND ALLOW FOR .75 TO 1.50 INCH GROUT THICKNESS BETWEEN TOP OF FOUNDATION AND BOTTOM OF BASE.

2. UNIT INSTALLATION AND FINAL DRIVESHAFT ALIGNMENT MUST BE DONE BY THE INSTALLING CONTRACTOR.

**CAUTION**  
 THE DRIVESHAFT IS NOT DESIGNED TO OPERATE AT 0° ANGLE. THE ENGINE CRANK-SHAFT IS TO BE A PARALLEL OFFSET .35 ±.18 INCH ABOVE THE PUMP OR GEAR SHAFT. IT MAY BE PARALLEL OFFSET .35 RIGHT OR LEFT OF THE ENGINE SHAFT. REFER TO THE ENGINE MANUAL FOR ALIGNMENT INSTR.

3. UNIT IS PIPED WITH WATER LINES AND BY-PASS, PER NFPA 20. WATER SUPPLY PIPE FROM PUMP TO BE SUPPLIED BY OTHERS.

4. ALL DIMENSIONS ARE IN INCHES.

APPROXIMATE WEIGHT (LBS)				
BASE	ENGINE	CONTROL	UNIT	
			LESS CONTROL	WITH CONTROL
285	1792	600	2077	2677

Certified for:  Preliminary  Approval  Construction By: \_\_\_\_\_ Date: \_\_\_\_\_

Project:	Capacity:
Customer:	Total Pressure:
Item / P.D. No.:	Pump Speed:
Quote No.:	Pump Serial No.:
Pump Model:	S.D. No.:

Listed:  UL  FM

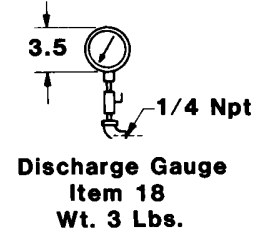
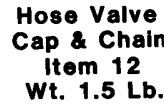
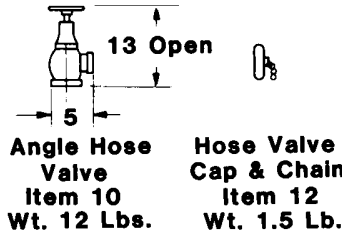
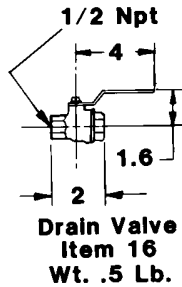
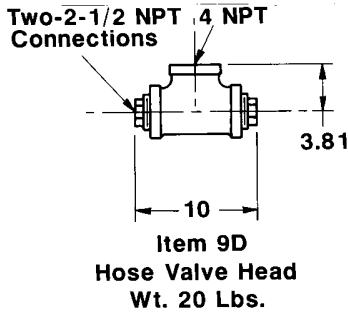
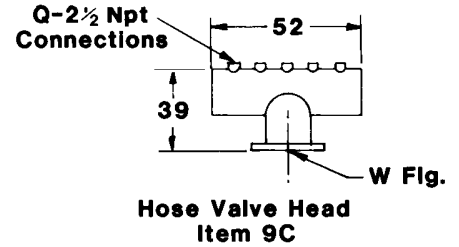
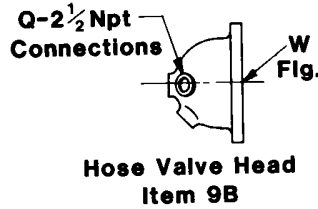
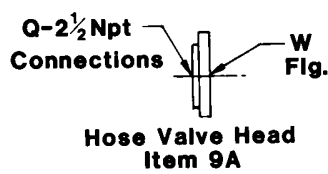


Peerless Pump Company  
 P.O. Box 7026 Indianapolis, IN 46207-7026  
 Phone : 317-925-9661  
 Fax : 317-924-7388

4854305  
 Rev. 1-06



Fire Pump Fittings Outline



- Notes: 1. Only Items Marked  will be furnished  
2. All Dimensions are in inches  
3. Hose Valve Threading \_\_\_\_\_-(Specify)

✓	Item No.	✓	GPM	✓	GPM	✓	GPM	✓	GPM	✓	GPM	Description	✓	Maximum Working Pressure PSIG									
	9A		250	-	-	-	-	-	-	-	-	Hose Valve Head	175	400	-	-	-	-					
	9B		500		750		1000		1250	-	-	Hose Valve Head	175	200		400		600					
	9B		1500		2000		2500	-	-	-	-	Hose Valve Head	175	200		400		600					
	9C		3000		3500		4000		4500		5000	Hose Valve Head	150	175		300		600					
	9D		500	-	-	-	-	-	-	-	-	Hose Valve Head	300	-	-	-	-	-					
	10		Angle Hose Valve			Qty of						Wt. Lbs.	300	-	-	-	-	-					
	12		Cap & Chain			Qty of						Wt. Lbs.	-	-	-	-	-	-					
	16		Drain Valve										400	600	-	-	-	-					
	18		Discharge Gauge Set (Furnished with Gauge Cock)			Gauge Type	Dial Graduations																
							Outer Scale						Inner Scale										
							Discharge						0 PSI to 300 PSI						0 to 20 BAR				
							Discharge						0 to 600 PSI						0 BAR to 41 BAR				

✓	ANSI Std. Dimension Flange	Pump Rating GPM													
		✓	250	500	750	1000	1250	1500	2000	2500	3000	3500	4000	4500	5000
	125	W	3	6	8	8	10	10	10	12	-	-	-	-	-
	150	W	3	4	6	6	8	8	8	10	10	12	12	12	12
	150	W	-	-	-	-	-	-	-	-	12	14	14	14	14
	250	W	3	6	8	8	10	10	10	12	-	-	-	-	-
	300	W	3	4	6	6	8	8	8	10	10	12	12	12	12
	300	W	-	-	-	-	-	-	-	-	12	14	14	14	14
	Quantity	Q	1	2	3	4	6	6	6	8	12	12	16	16	20
	Weight Lbs. (Maximum)		25	50	84	84	150	150	150	255	360	360	360	360	360
	Item No.		9A	9B	9B	9B	9B	9B	9B	9B	9C	9C	9C	9C	9C

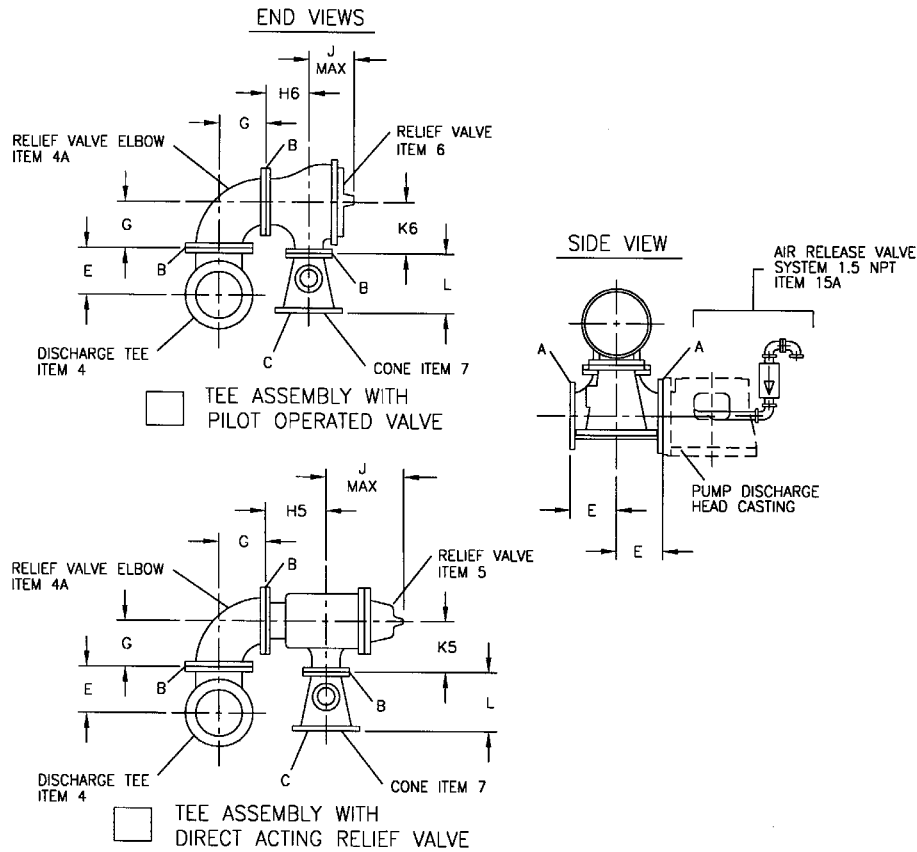


VERTICAL TURBINE FIRE PUMPS  
Electric Motor Driven



Peerless Pump Company  
Indianapolis, IN 46206-7026

Fire Pump Fitting Outline Dimensions  
Standard Pressure



Notes:

1. Only Items marked  will be furnished.
2. All dimensions are In Inches.
3. Pump flanges must not be used to support weight of fittings.
4. All fitting flanges will conform to ANSI Standard B16.1 and will be:
  - a.) 125 Lb. on relief valve Inlet and relief valve elbow.
  - b.) 150 Lb. on OCV, Cla-Val relief valve inlet and outlet.
  - c.) 125 or 150 Lb. on tee.
  - d.) 125 or 150 Lb. cone Inlet and outlet.
5. All gaskets and bolting are to be supplied by others.
6. All direct acting and pilot operated valves are suitable for a back pressure up to 100 psi.

<input checked="" type="checkbox"/>	Item	Description
	4	Discharge Tee
	4A	Relief Valve Elbow
	5	Direct Acting Relief Valve
	6	Pilot Operated Relief Valve
	7	Overflow Cone
	15A	Air Release Valve Assembly

<input checked="" type="checkbox"/>	Manufacturer	Model	Listing /Approval				Pressure Range Psi
			3 In	4 In	6 In	8 In	
	Kunkle	218CS164	UL/FM	UL/FM	UL/FM	Not Available	70 to 170
	Watts	1116FM	UL	UL	UL	UL	20 to 175
	OCV	OCV 108FCA	UL	UL	UL	UL <sup>ⓐ</sup>	20 to 175
	Cla-Val	50BK4KG1	UL/FM	UL/FM	UL/FM	UL/FM	20 to 200

ⓐ Must be mounted with stem in vertical position, interchange elbow and relief valve.

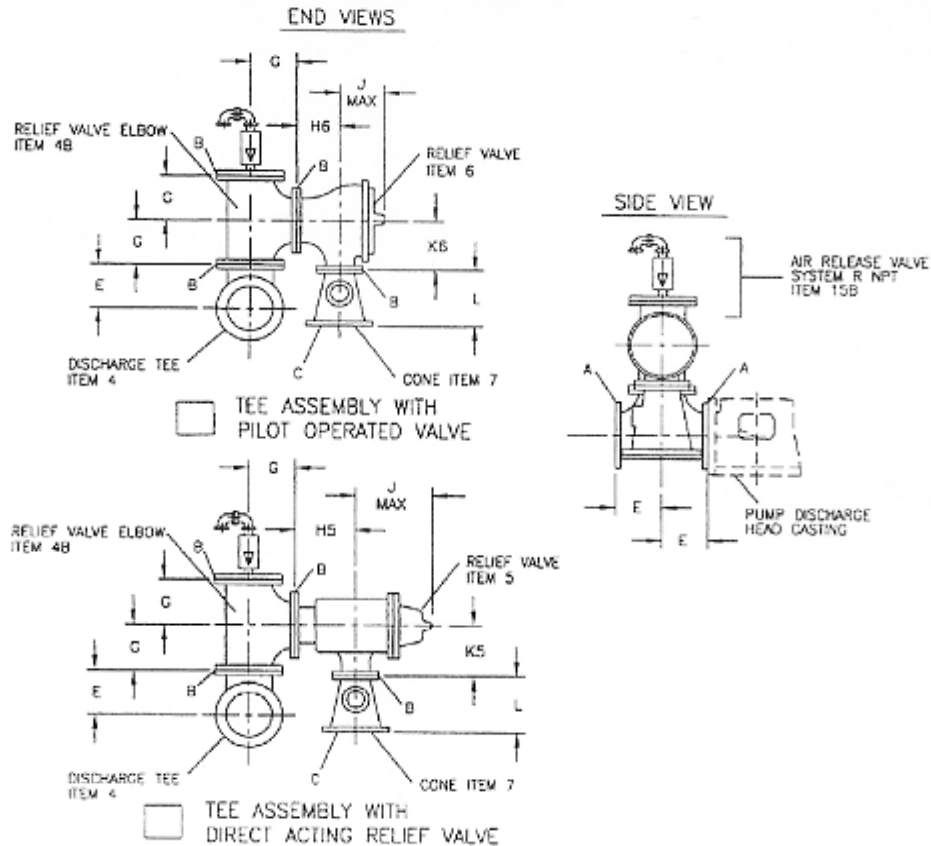
Subject to change without notice

Rev 3-98  
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DT4852885



**VERTICAL TURBINE FIRE PUMPS**  
**Diesel Engine Driven**

**Fire Pump Fitting Outline Dimensions**  
**Standard Pressure**



**Notes:**

1. Only Items marked  will be furnished.
2. All dimensions are in inches.
3. Pump flanges must not be used to support weight of fittings.
4. All fitting flanges will conform to ANSI Standard B16.1 and will be:
  - a.) 125 Lb. on relief valve Inlet and relief valve elbow.
  - b.) 150 Lb. on OCV, Cla-Val relief valve inlet and outlet.
  - c.) 125 or 150 Lb. on tee.
  - d.) 125 or 150 Lb. cone Inlet and outlet.
5. All gaskets and bolting are to be supplied by others.
6. All direct acting and pilot operated valves are suitable for a back pressure up to 100 psi.

<input checked="" type="checkbox"/>	Item	Description
<input type="checkbox"/>	4	Discharge Tee
<input type="checkbox"/>	4A	Relief Valve Elbow
<input type="checkbox"/>	5	Direct Acting Relief Valve
<input type="checkbox"/>	6	Pilot Operated Relief Valve
<input type="checkbox"/>	7	Overflow Cone
<input type="checkbox"/>	15B	Air Release Valve Assembly

<input checked="" type="checkbox"/>	Manufacturer	Model	Listing /Approval				Pressure Range Psi
			3 in	4 in	6 in	8 in	
	Kunkle	218CS164	UL/FM	UL/FM	UL/FM	Not Available	70 to 170
	Watts	1116FM	UL	UL	UL	UL	20 to 175
	OCV	OCV 108FCA	UL	UL	UL	UL <sup>Ⓢ</sup>	20 to 175
	Cla-Val	50BK4KG1	UL/FM	UL/FM	UL/FM	UL/FM	20 to 200

<sup>Ⓢ</sup> Must be mounted with stem in vertical position extra fittings are required refer to factory

Rev 3-98

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**VERTICAL TURBINE FIRE PUMPS**  
Electric Motor or Diesel Engine Driven  
Fire Pump Fitting Outline Dimensions  
Standard Pressure



Peerless Pump Company  
Indianapolis, IN 46207-7026

DISCHARGE TEE ASSEMBLY WITH KUNKLE DIRECT ACTING RELIEF VALVE													
✓	PUMP RATED GPM	MAXIMUM WORKING PRESSURE PSI	A	B	C	E	G	H5	J	K5	L	R	TOTAL ASSEM WT lb
	500	170	6.0	3.0	5.0	8.0	5.5	6.12	12.38	5.88	8.5	1.5	279
	500	170	8.0	3.0	5.0	9.0	5.5	6.12	12.38	5.88	8.5	1.5	333
	750	170	6.0	4.0	8.0	8.0	6.5	6.62	17.00	6.44	10.5	1.5	444
	750	170	8.0	4.0	8.0	9.0	6.5	6.62	17.00	6.44	10.5	1.5	444
	1000	170	6.0	4.0	8.0	8.0	6.5	6.62	17.00	6.44	10.5	1.5	444
	1000	170	8.0	4.0	8.0	9.0	6.5	6.62	17.00	6.44	10.5	1.5	444
	1250	170	10.0	6.0	10.0	11.0	8.0	9.38	17.88	8.50	14.0	1.5	714
	1500	170	10.0	6.0	10.0	11.0	8.0	9.38	17.88	8.50	14.0	1.5	714
	2000	170	10.0	6.0	10.0	11.0	8.0	9.38	17.88	8.50	14.0	1.5	714
	2500	170	12.0	6.0	10.0	12.0	8.0	9.38	17.88	8.50	14.0	1.5	814
	3000 <sup>∅</sup>	175	12.0	8.0	12.0	12.0	9.0	10.62	34.38	10.00	9.0	2.5	1325
	3000*	150	14.0	8.0	12.0	14.0	9.0	10.62	34.38	10.00	9.0	2.5	1325
	3500 <sup>▣</sup>	175	12.0	8.0	12.0	12.0	9.0	10.62	34.38	10.00	9.0	2.5	1207
	4000	150	14.0	8.0	14.0	14.0	9.0	10.62	34.38	10.00	14.0	2.5	1325
	4500	150	14.0	8.0	14.0	14.0	9.0	10.62	34.38	10.00	14.0	2.5	1325

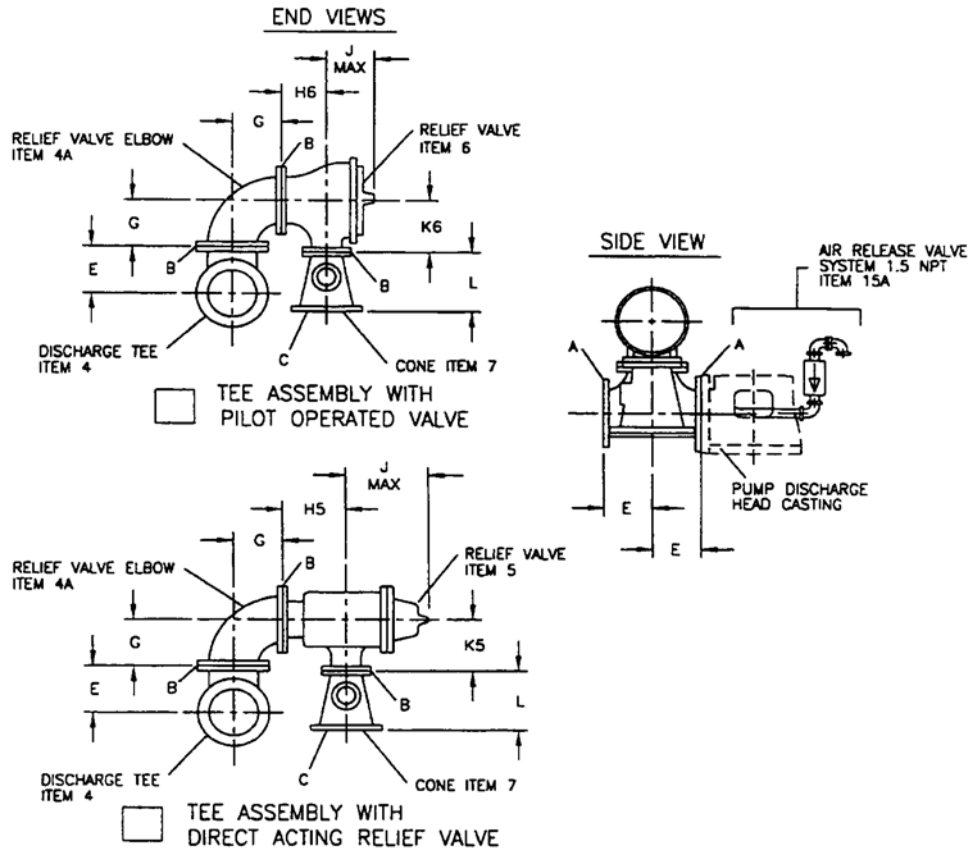
DISCHARGE TEE ASSEMBLY WITH PILOT OPERATED RELIEF VALVE																			
✓	PUMP RATED GPM	MAXIMUM WORKING PRESSURE PSI	A	B	C	E	G	WATTS			OCV			CLA-VAL			L	R	TOTAL ASSEM WT lb
								H6	J	K6	H6	J	K6	H6	J	K6			
	500	175	6.0	3.0	5.0	8.0	5.5	5.75	12.38	5.75	4.00	10.88	6.00	4.00	12.50	6.00	8.5	1.5	266
	500	175	8.0	3.0	5.0	9.0	5.5	5.75	12.38	5.75	4.00	10.88	6.00	4.00	12.50	6.00	8.5	1.5	320
	750	175	6.0	4.0	8.0	8.0	6.5	6.75	17.00	6.75	5.06	11.88	7.62	5.00	13.00	7.50	10.5	1.5	434
	750	175	8.0	4.0	8.0	9.0	6.5	6.75	17.00	6.75	5.06	11.88	7.62	5.00	13.00	7.50	10.5	1.5	434
	1000	175	6.0	4.0	8.0	8.0	6.5	6.75	17.00	6.75	5.06	11.88	7.62	5.00	13.00	7.50	10.5	1.5	434
	1000	175	8.0	4.0	8.0	9.0	6.5	6.75	17.00	6.75	5.06	11.88	7.62	5.00	13.00	7.50	10.5	1.5	434
	1250	175	10.0	6.0	10.0	11.0	8.0	8.50	17.88	8.50	6.00	13.88	10.00	6.00	14.31	10.00	14.0	1.5	739
	1500	175	10.0	6.0	10.0	11.0	8.0	8.50	17.88	8.50	6.00	13.88	10.00	6.00	14.31	10.00	14.0	1.5	739
	2000	175	10.0	6.0	10.0	11.0	8.0	8.50	17.88	8.50	6.00	13.88	10.00	6.00	14.31	10.00	14.0	1.5	739
	2500	175	12.0	6.0	10.0	12.0	8.0	8.50	17.88	8.50	6.00	13.88	10.00	60.00	14.31	10.00	14.0	1.5	839
	3000 <sup>∅</sup>	175	12.0	8.0	12.0	12.0	9.0	11.00	34.38	11.00	8.00	14.88	12.75	8.00	16.31	12.75	9.0	2.5	1232
	3000*	150	14.0	8.0	12.0	14.0	9.0	11.00	34.38	11.00	8.00	14.88	12.75	8.00	16.31	12.75	9.0	2.5	1350
	3500 <sup>▣</sup>	175	12.0	8.0	12.0	12.0	9.0	11.00	34.38	11.00	8.00	14.88	12.75	8.00	16.31	12.75	9.0	2.5	1232
	4000	150	14.0	8.0	14.0	14.0	9.0	11.00	34.38	11.00	8.00	14.88	12.75	8.00	16.31	12.75	14.0	2.5	1350
	4500	150	14.0	8.0	14.0	14.0	9.0	11.00	34.38	11.00	8.00	14.88	12.75	8.00	16.31	12.75	14.0	2.5	1350

∅ APPLIES ONLY TO 16HXBF @ 3000 GPM  
\* APPLIES ONLY TO 20HXBF @ 3000 GPM  
▣ APPLIES ONLY TO 18HXBF @ 3500 GPM

Subject to change without notice



Fire Pumps Fittings Outline Dimensions  
High Pressure



Notes:

1. Only Items marked  will be furnished.
2. All dimensions are in inches.
3. Pump flanges must not be used to support weight of fittings.
4. All fitting flanges will conform to ANSI Standard B16.1 and will be:
  - a. } 250 Lb. on relief valve inlet and relief valve elbow.
  - b. } 300 Lb. on OCV, Cla-Val Valve inlet and outlet.
  - c. } 250 or 300 Lb. on tee.
  - d. } 125 or 150 Lb. cone inlet and outlet.
5. All gaskets and bolting are to be supplied by others.
6. All direct acting and pilot operated valves are suitable for a back pressure up to 100 psi.

<input checked="" type="checkbox"/>	Item	Description
	4	Discharge Tee
	4A	Relief Valve Elbow
	5	Direct Acting Relief Valve
	6	Pilot Operated Relief Valve
	7	Overflow Cone
	15A	Air Release Valve Assembly

<input checked="" type="checkbox"/>	Manufacturer	Model	Listing /Approval				Pressure Range Psi
			3 in	4 in	6 in	8 in	
	Kunkle	218CS164	UL/FM	UL/FM	UL/FM	Not Available	70 to 200
	Watts	1116FM	UL	UL	UL	Not Listed or Approved	100 to 300
	OCV	OCV 108FCA	UL	UL	UL	Not UL Listed ①	100 to 300
	Cla-Val	50BK4KG1	UL	UL	UL	Not UL Listed	100 to 300
	Cla-Val	50BK4KG1	FM	FM	FM	FM	20 to 200

① Must be mounted with stem in vertical position, refer to factory for required fittings to adapt.

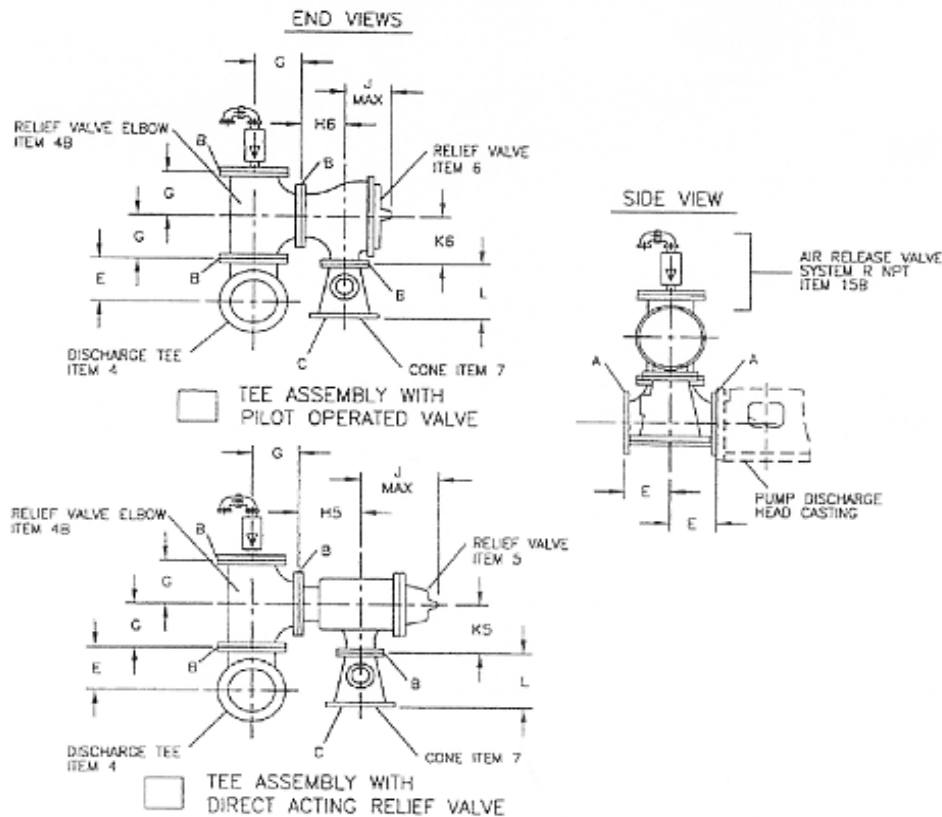
Rev 3-98

**VERTICAL TURBINE FIRE PUMPS  
Diesel Engine Driven**



Peerless Pump Company  
Indianapolis, IN 46207-7026

**Fire Pumps Fittings Outline Dimensions  
High Pressure**



**Notes:**

1. Only Items marked  will be furnished.
2. All dimensions are in inches.
3. Pump flanges must not be used to support weight of fittings.
4. All fitting flanges will conform to ANSI Standard B16.1 and will be:
  - a.) 250 Lb. on relief valve inlet and relief valve elbow.
  - b.) 300 Lb. on OCV, Cla-Val Valve inlet and outlet.
  - c.) 250 or 300 Lb. on tee.
  - d.) 125 or 150 Lb. cone inlet and outlet.
5. All gaskets and bolting are to be supplied by others.
6. All direct acting and pilot operated valves are suitable for a back pressure up to 100 psi.

<input checked="" type="checkbox"/>	Item	Description
	4	Discharge Tee
	4A	Relief Valve Elbow
	5	Direct Acting Relief Valve
	6	Pilot Operated Relief Valve
	7	Overflow Cone
	15B	Air Release Valve Assembly

<input checked="" type="checkbox"/>	Manufacturer	Model	Listing /Approval				Pressure Range Psi
			3 in	4 in	6 in	8 in	
	Kunkle	218CS164	UL/FM	UL/FM	UL/FM	Not Available	70 to 200
	Watts	1116FM	UL	UL	UL	Not Listed or Approved	100 to 300
	OCV	OCV 108FCA	UL	UL	UL	Not UL Listed ①	100 to 300
	Cla-Val	50BK4KG1	UL	UL	UL	Not UL Listed	100 to 300
	Cla-Val	50BK4KG1	FM	FM	FM	FM	20 to 200

① Must be mounted with stem in vertical position extra fittings are required refer to factory

Rev 3-98

Subject to change without notice



**VERTICAL TURBINE FIRE PUMPS**  
Electric Motor or Diesel Engine Driven  
Fire Pump Fitting Outline Dimensions  
High Pressure

DISCHARGE TEE ASSEMBLY WITH KUNKLE DIRECT ACTING RELIEF VALVE													
✓	PUMP RATED GPM	MAXIMUM WORKING PRESSURE PSI	A	B	C	E	G	H5	J	K5	L	R	TOTAL ASSEM WT lb
	500	200	6.0	3.0	5.0	8.5	6.0	6.12	12.38	5.88	8.5	1.5	360
	500	200	8.0	3.0	5.0	10.0	6.0	6.12	12.38	5.88	8.5	1.5	422
	750	200	6.0	4.0	8.0	8.5	7.0	6.62	17.00	6.44	10.5	1.5	564
	750	200	8.0	4.0	8.0	10.0	7.0	6.62	17.00	6.44	10.5	1.5	564
	1000	200	6.0	4.0	8.0	8.5	7.0	6.62	17.00	6.44	10.5	1.5	564
	1000	200	8.0	4.0	8.0	10.0	7.0	6.62	17.00	6.44	10.5	1.5	564
	1250	200	10.0	6.0	10.0	11.5	8.5	9.38	17.88	8.50	14.0	1.5	924
	1500	200	10.0	6.0	10.0	11.5	8.5	9.38	17.88	8.50	14.0	1.5	924
	2000	200	10.0	6.0	10.0	11.5	8.5	9.38	17.88	8.50	14.0	1.5	924
	2500	200	12.0	6.0	10.0	13.0	8.5	9.38	17.88	8.50	14.0	1.5	1024

DISCHARGE TEE ASSEMBLY WITH PILOT OPERATED RELIEF VALVE																			
✓	PUMP RATED GPM	MAXIMUM WORKING PRESSURE PSI	A	B	C	E	G	Watts			OCV			CLA-VAL			L	R	TOTAL ASSEM WT lb
								H6	J	K6	H6	J	K6	H6	J	K6			
	500	400	6.0	3.0	5.0	8.5	6.0	6.12	13.00	5.75	4.38	10.88	6.00	4.38	12.50	6.00	8.5	1.5	347
	500	400	8.0	3.0	5.0	10.0	6.0	6.12	13.00	5.75	4.38	10.88	6.00	4.38	12.50	6.00	8.5	1.5	409
	750	400	6.0	4.0	8.0	8.5	7.0	7.12	17.00	6.75	5.38	11.88	7.94	5.31	13.00	7.50	10.5	1.5	554
	750	400	8.0	4.0	8.0	10.0	7.0	7.12	17.00	6.75	5.38	11.88	7.94	5.31	13.00	7.50	10.5	1.5	554
	1000	400	6.0	4.0	8.0	8.5	7.0	7.12	17.00	6.75	5.38	11.88	7.94	5.31	13.00	7.50	10.5	1.5	554
	1000	400	8.0	4.0	8.0	10.0	7.0	7.12	17.00	6.75	5.38	11.88	7.94	5.31	13.00	7.50	10.5	1.5	554
	1250	300	10.0	6.0	10.0	11.5	8.5	9.00	18.00	8.50	6.50	13.88	10.00	6.50	14.31	10.00	14.0	1.5	944
	1500	300	10.0	6.0	10.0	11.5	8.5	9.00	18.00	8.50	6.50	13.88	10.00	6.50	14.31	10.00	14.0	1.5	944
	2000	300	10.0	6.0	10.0	11.5	8.5	9.00	18.00	8.50	6.50	13.88	10.00	6.50	14.31	10.00	14.0	1.5	944
	2500	300	12.0	6.0	10.0	13.0	8.5	9.00	18.00	8.50	6.50	13.88	10.00	6.50	14.31	10.00	14.0	1.5	1044
	3000 <sup>ø</sup>	300	12.0	8.0	12.0	13.0	10.0	11.50	20.00	11.00	8.50	14.88	12.75	8.50	16.31	12.75	9.0	2.5	1499
	3000*	300	14.0	8.0	12.0	15.0	10.0	11.50	20.00	11.00	8.50	14.88	12.75	8.50	16.31	12.75	9.0	2.5	1540
	3500 <sup>≠</sup>	300	12.0	8.0	12.0	13.0	10.0	11.50	20.00	11.00	8.50	14.88	12.75	8.50	16.31	12.75	9.0	2.5	1499
	4000	300	14.0	8.0	14.0	15.0	10.0	11.50	20.00	11.00	8.50	14.88	12.75	8.50	16.31	12.75	14.0	2.5	1540
	4500	300	14.0	8.0	14.0	15.0	10.0	11.50	20.00	11.00	8.50	14.88	12.75	8.50	16.31	12.75	14.0	2.5	1540

**ø APPLIES ONLY TO 16HXBFB @ 3000 gpm**  
**\* APPLIES ONLY TO 20HXBFB @ 3000 gpm**  
**≠ APPLIES ONLY TO 18HXBFB @ 3500 gpm**

Subject to change without notice

**Blank**