

Duplex Fuel Oil Transfer Pump Sets



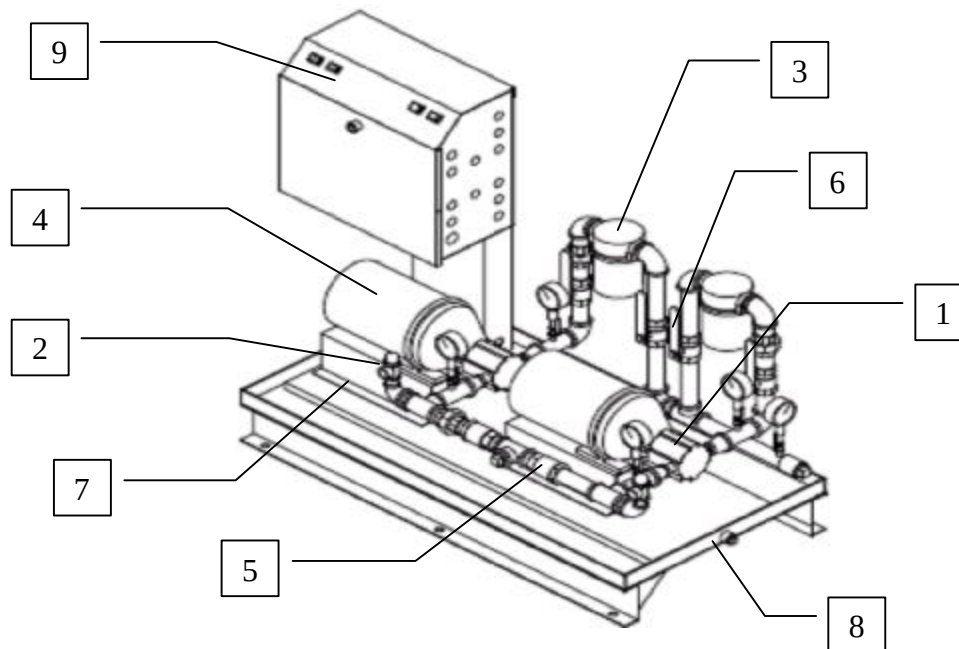
Power Flame offers a full line of Duplex Fuel Oil Transfer Pumpsets ranging in delivery from 75 gallons per hour up to 1,300 gallons per hour of light oil, in both 25 psig and 100 psig discharge pressures. Each duplex pump set comes standard with a variety of features including:

- (2) Oil transfer pumps fitted with Viton seals (mechanical)
- 1725 RPM direct-drive motors
- Relief valves on each pump
- Fuel oil strainer
- Discharge check valve for each pump

- Suction and strainer isolation valves
- A structural steel pump base with drain plug, primer and finish painted
- Integrally mounted control panel box that includes motor starters, a step-down transformer for 3-phase Voltage, HOA switch, pump selector switch, and pump operation indicator lights.

Pumpset options include: pressure gages, flow and pressure switches duplex and cross-over strainers, fusible link with inlet check valve, leak detection, and more options to suit your boiler room requirements.

STANDARD COMPONENTS



Each duplex pumpset package consists of the following components as standard equipment:

<u>Item</u>	<u>Qty</u>	<u>Description</u>
1	(2)	Transfer Oil pumps (models noted in Table 1) with Viton seals
2	(2)	Pressure relief valves, one on each pump (Cash Co. external)
3	(2)	Fuel oil strainers, one for each pump (Combu)
4	(2)	1725 or 1750 RPM motors, one for each pump (direct drive)
5	(2)	Discharge check valves, one for each pump
6	(4)	Suction and strainer isolation valves (ball type)
7	(2)	Pump & motor bases, one for each pump, primed and painted
8	(1)	Structural steel base with drain plug, 5-3/4"H X 42"L X 22"W (DPS-1 thru DPS-5), 5-3/4"H X 50"L X 22"W (DPS-6 and DPS-7). 5-3/4"H X 50"L X 22"W (DPS-8). 5-3/4"H X 59"L X 22"W (DPS-9). 5-3/4"H X 44"L X 22"W (DPS-1V thru DPS-3V). 5-3/4"H X 59"L X 22"W (DPS-4V)
9	(1)	Integrally mounted electrical control panel box, 15-1/2" X 17" for 3 ϕ or 1 ϕ that includes:

3 ϕ Voltage

Motor starter
Stepdown transformer
HOA Switch
Pump Selector Switch
Two (2) Pump Op. Indicator Lights

1 ϕ Voltage

Motor contactors
HOA Switch
Pump Selector Switch
Two (2) Pump Op. Indicator Lights

Table 1. Duplex Oil Pump Set Selection Guide

25 PSIG

PUMP MODEL	AVAILABLE GPH	PUMP PRESSURE	PUMP DESCRIPTION MANUFACTURE	PUMP MOTOR HP	GENERAL ARRANGEMENT DRAWING-SCHEMATIC				
					115/1Ø	230/1Ø	208/3Ø	230/3Ø	460/3Ø
DPS -1-25	84	25 PSIG	18B-R-SG-0535 WEBSTER	1/4	90G373C 90X151C	90G373C 90X151C	90G373C 90X151C	90G373C 90X151C	90G373C 90X151C
DPS-2-25	162	25 PSIG	37B-R-SG-0570 WEBSTER	1/4	90G373C 90X151C	90G373C 90X151C	90G373C 90X151C	90G373C 90X151C	90G373C 90X151C
DPS-3-25	222	25 PSIG	47B-R-SG-0510 WEBSTER	1/4	90G373C 90X151C	90G373C 90X151C	90G373C 90X151C	90G373C 90X151C	90G373C 90X151C
DPS-4-25	306	25 PSIG	59B-R-SG-0514 WEBSTER	1/4	90G373C 90X151C	90G373C 90X151C	90G373C 90X151C	90G373C 90X151C	90G373C 90X151C
DPS-5-25	594	25 PSIG	SG-0528 VIKING	1/4	90G373C 90X151C	90G373C 90X151C	90G373C 90X151C	90G373C 90X151C	90G373C 90X151C
DPS-6-25	940	25 PSIG	SG-0716 VIKING	3/4	90X154C 90X151C	90X154C 90X151C	90X154C 90X151C	90X154C 90X151C	90X154C 90X151C
DPS-7-25	1,290	25 PSIG	SG-0722 VIKING	1.00	90X155C 90X151C	90X155C 90X151C	90X155C 90X151C	90X155C 90X151C	90X155C 90X151C

100 PSIG

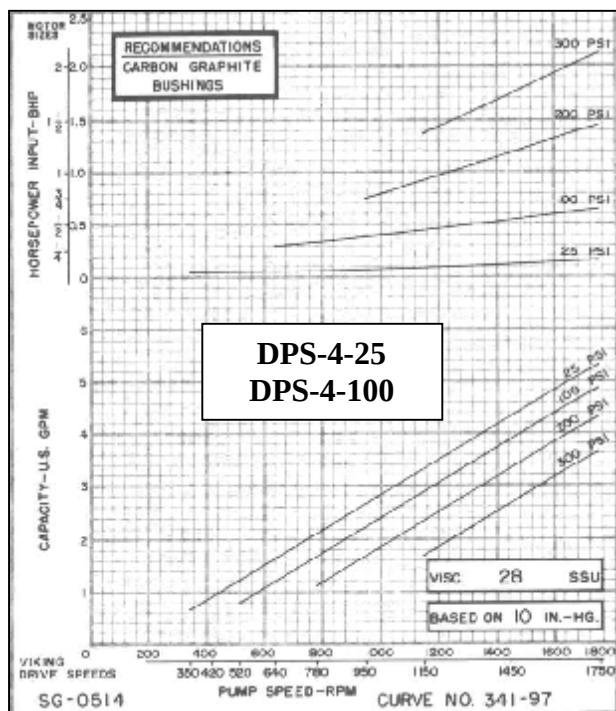
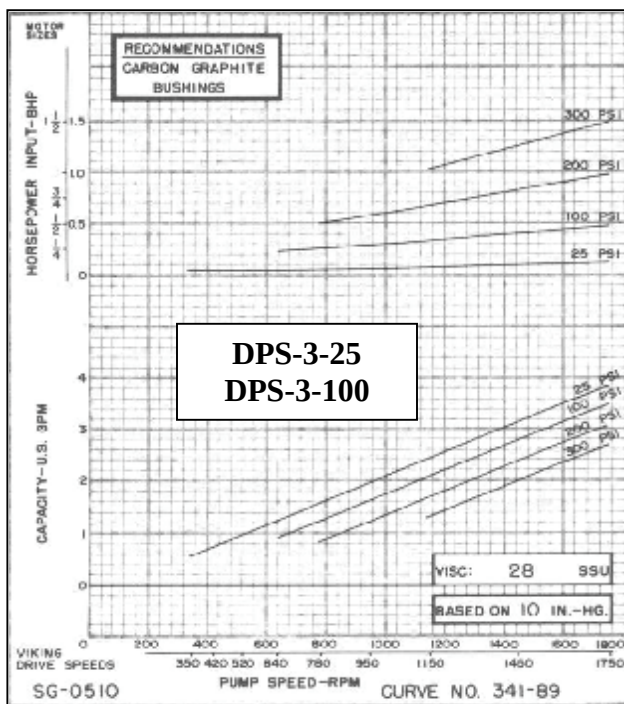
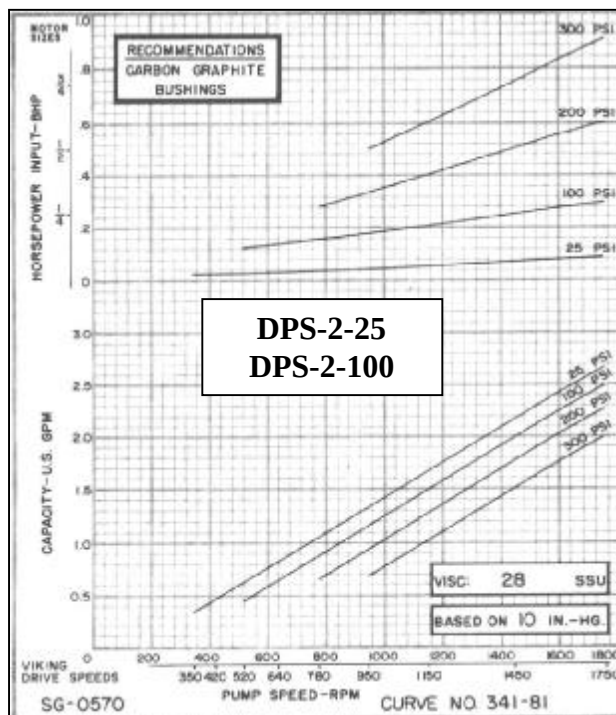
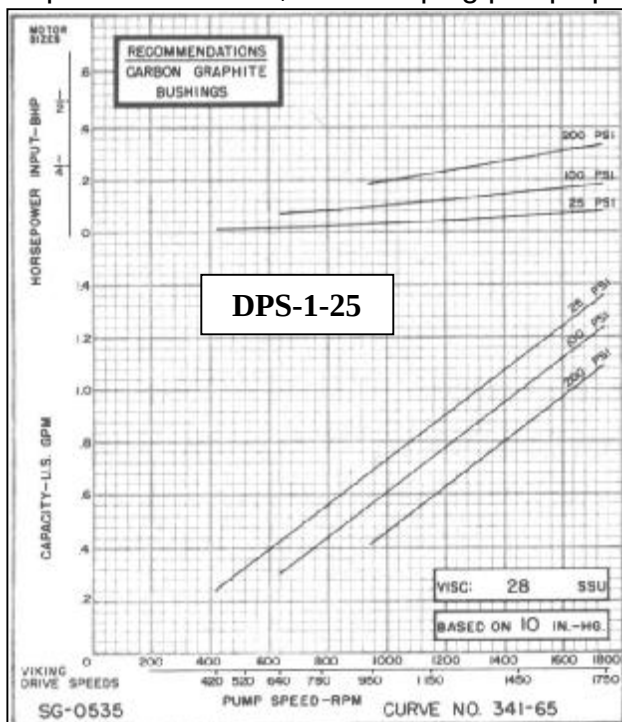
DPS -1-100	75	100 PSIG	18B1H2FX WEBSTER	1/3	90X144C 90X151C	90X144C 90X151C	90X144C 90X151C	90X144C 90X151C	90X144C 90X151C
DPS-1V-100	90	100 PSIG	F432D VIKING	1/3	90X149C 90X151C	90X149C 90X151C	90X149C 90X151C	90X149C 90X151C	90X149C 90X151C
DPS-2-100	150	100 PSIG	37B-R-SG-0570 WEBSTER	1/3	90X144C 90X151C	90X144C 90X151C	90X144C 90X151C	90X144C 90X151C	90X144C 90X151C
DPS-2/3V-100	180	100 PSIG	FH32D VIKING	1/3	90X149C 90X151C	90X149C 90X151C	90X149C 90X151C	90X149C 90X151C	90X149C 90X151C
DPS-3-100	200	100 PSIG	47B-R-SG-0510 WEBSTER	1/3	90X144C 90X151C	90X144C 90X151C	90X144C 90X151C	90X144C 90X151C	90X144C 90X151C
DPS-4-100	235	100 PSIG	59B-R-SG-0514 WEBSTER	3/4	90X144C 90X151C	90X144C 90X151C	90X144C 90X151C	90X144C 90X151C	90X144C 90X151C
DPS-4V-100	330	100 PSIG	G432D VIKING	3/4	90X150C 90X151C	90X150C 90X151C	90X150C 90X151C	90X150C 90X151C	90X150C 90X151C
DPS-5-100	330	100 PSIG	SG-0758 VIKING	3/4	90X152C 90X151C	90X152C 90X151C	90X152C 90X151C	90X152C 90X151C	90X152C 90X151C
DPS-6-100	470	100 PSIG	SG-0782 VIKING	1.00	90X143C 90X151C	90X143C 90X151C	90X143C 90X151C	90X143C 90X151C	90X143C 90X151C
DPS-7-100	660	100 PSIG	SG-0711 VIKING	2.00	90X153C 90X151C	90X153C 90X151C	90X153C 90X151C	90X153C 90X151C	90X153C 90X151C
DPS-8-100	940	100 PSIG	SG-0716 VIKING	2.00	90X154C 90X151C	90X154C 90X151C	90X154C 90X151C	90X154C 90X151C	90X154C 90X151C
DPS-9-100	1,300	100 PSIG	SG-0722 VIKING	3.00	90X155C 90X151C	90X155C 90X151C	90X155C 90X151C	90X155C 90X151C	90X155C 90X151C

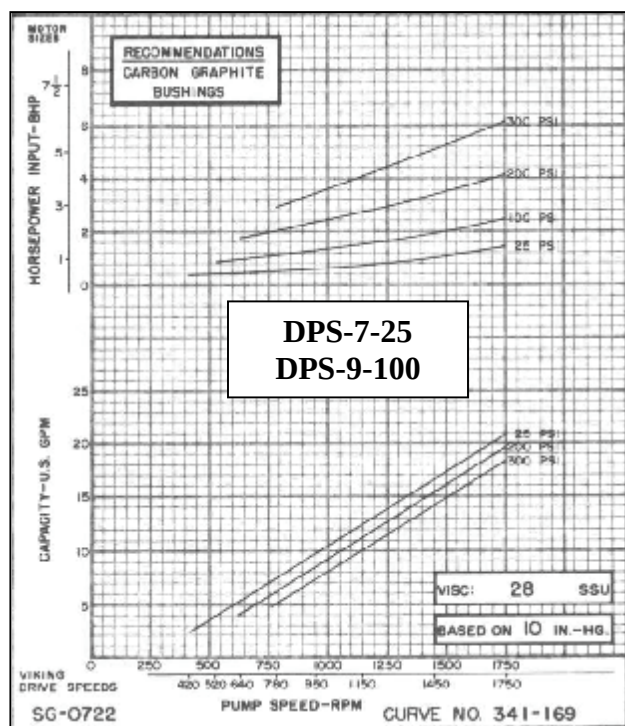
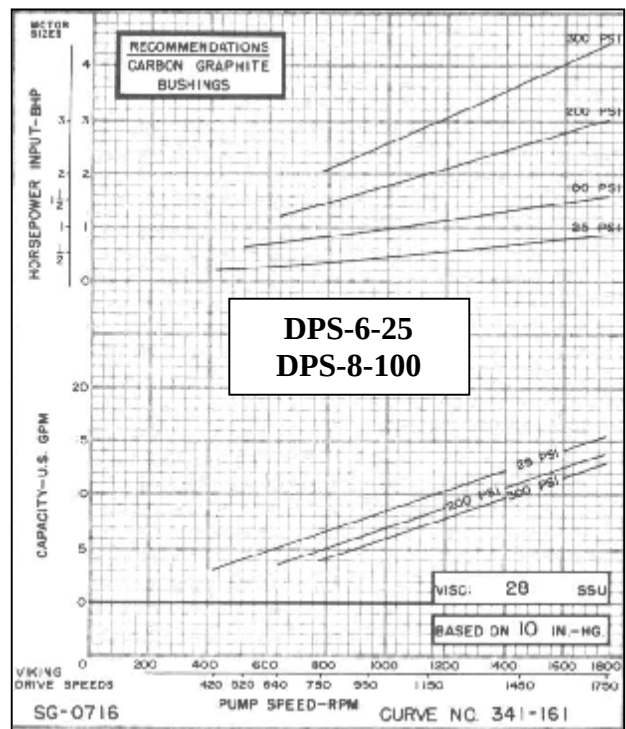
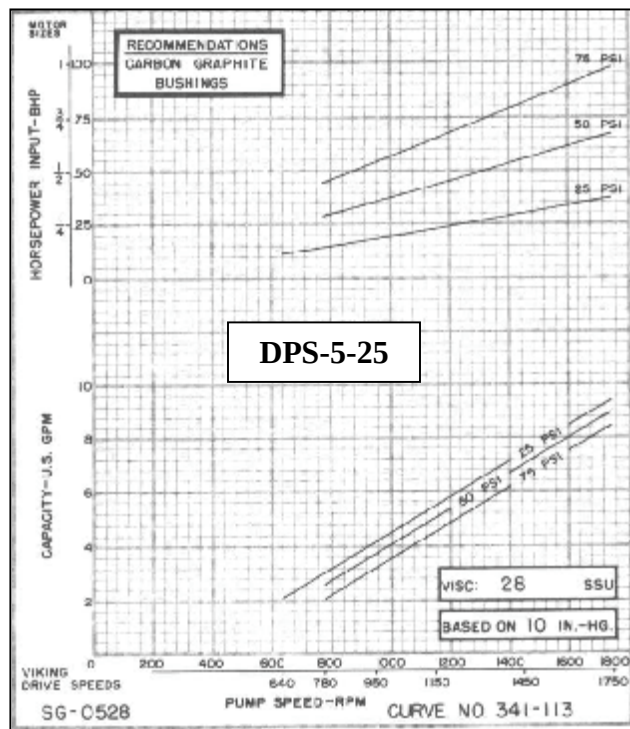
Duplex Pumpset Optional Equipment

- Fusible Link with Inlet Check
- Low Oil Flow Switch
- Low Oil Pressure Switch w/Delay on Make Timer
- Kraissl Simplex Strainers ILO Combu
- Cross-over Isolation Piping for Combu and Kraissl Simplex strainer systems
- Backpressure Regulating Valve
- Flooded Basin Float Switch
- 2-1/2" liquid filled Dial Pressure Gages
- 2-1/2" liquid filled Dial Cmpd. Pressure Gages
- SS Braided flexible hose
- Alarm Pkg, including lights, alarm buzzer, relays and push-button reset/silencer
- Vibration Isolation Pads for pump base

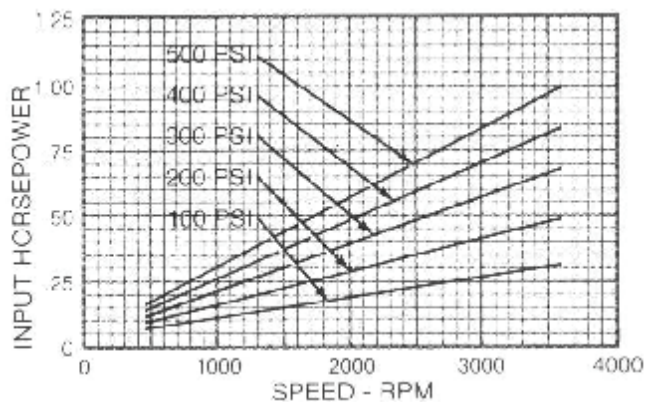
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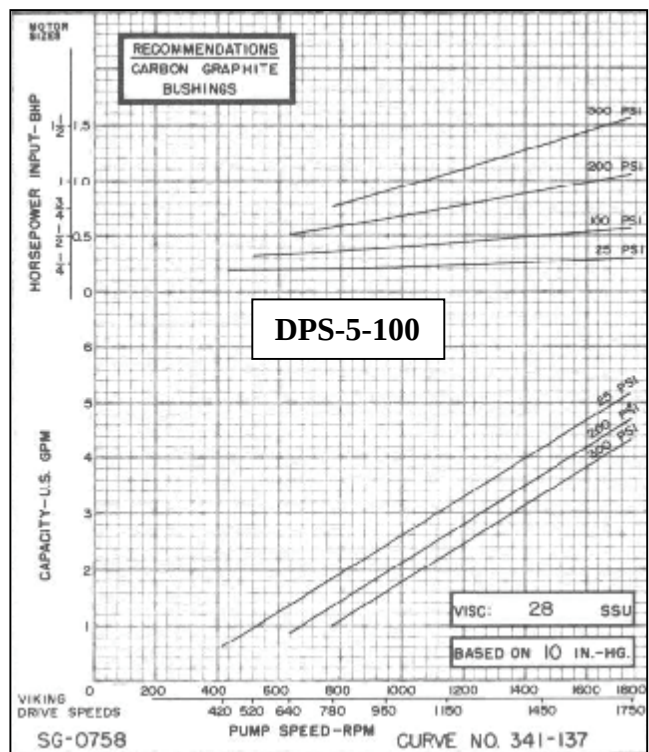
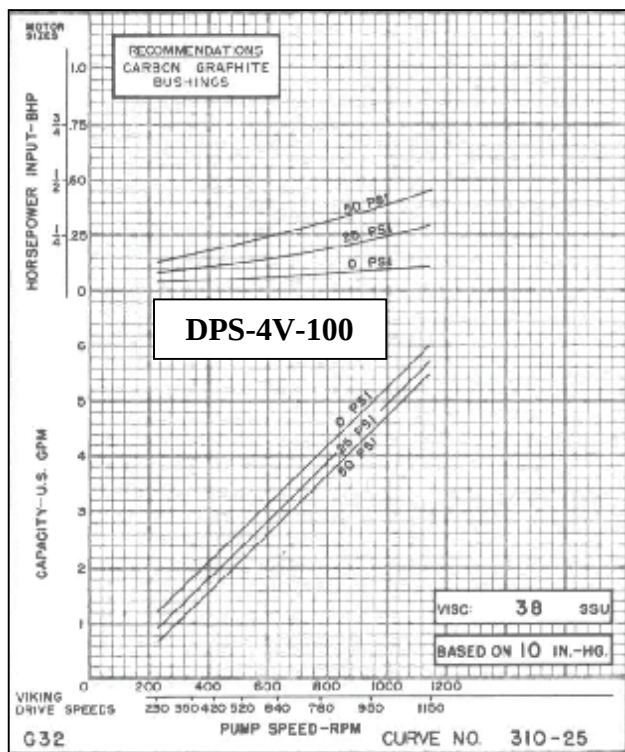
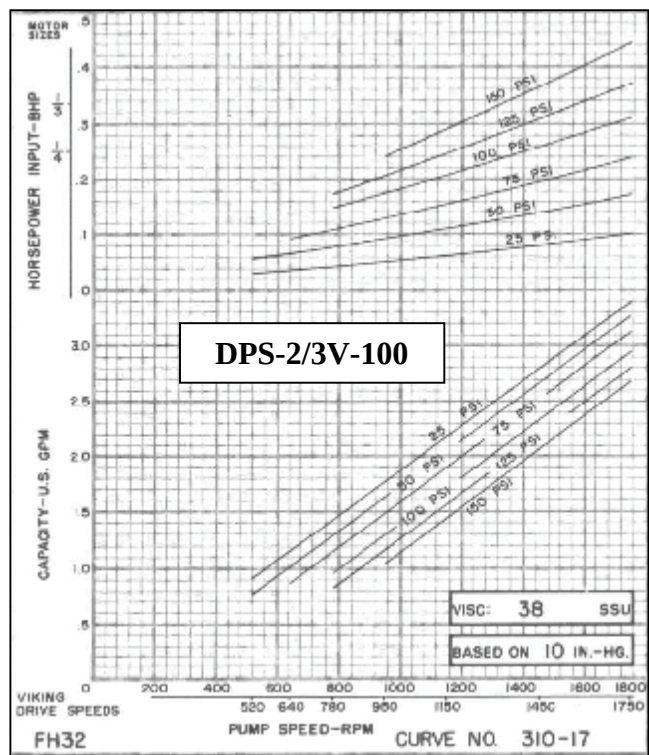
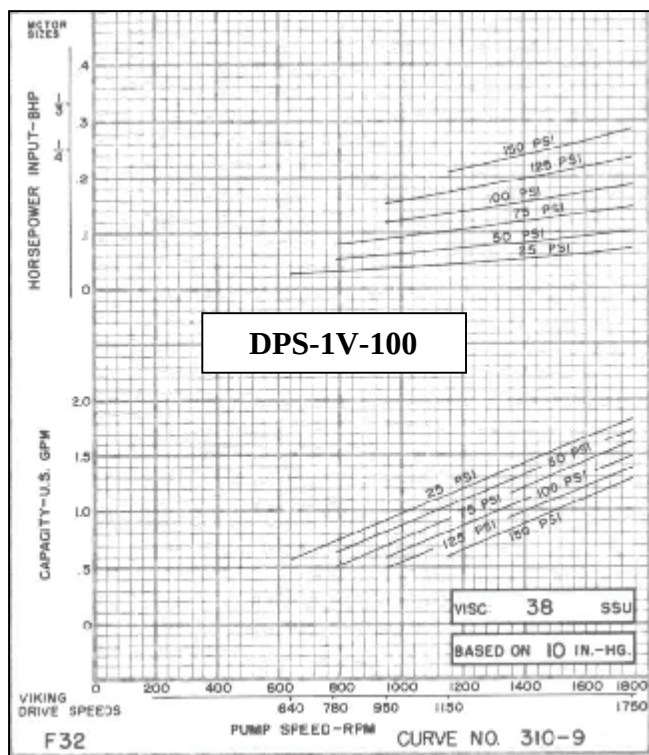
Pump Curves - Refer to Table 1 Pump Selection Guide for pump model horsepower. 25 psig pump are 1750 RPM, and 100 psig pump speeds are 1725 RPM.

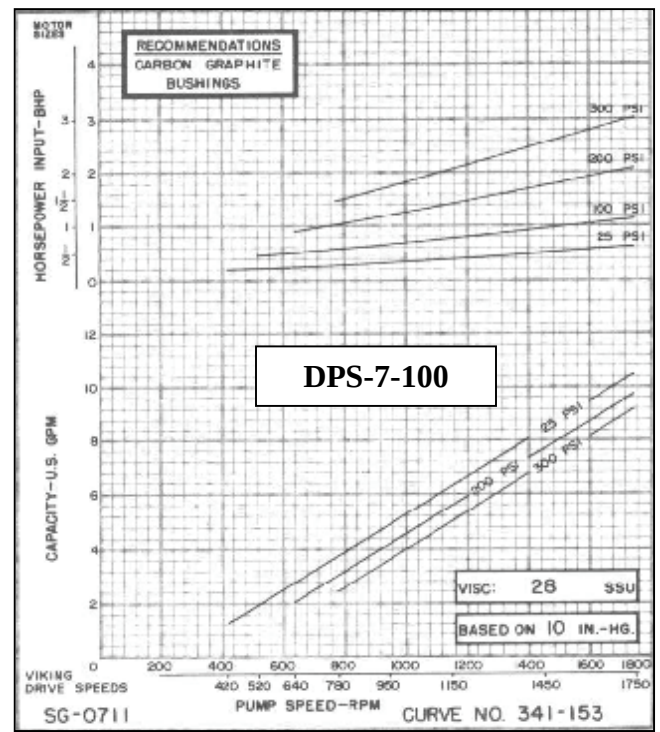
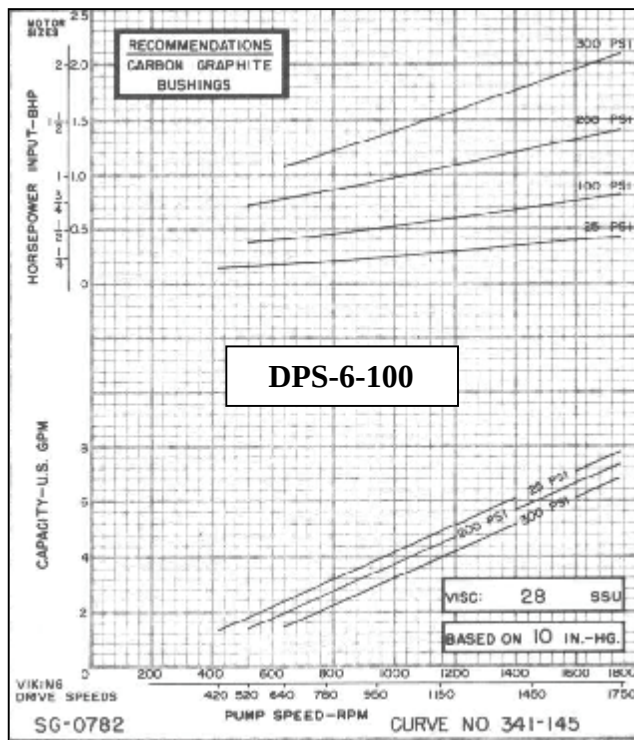




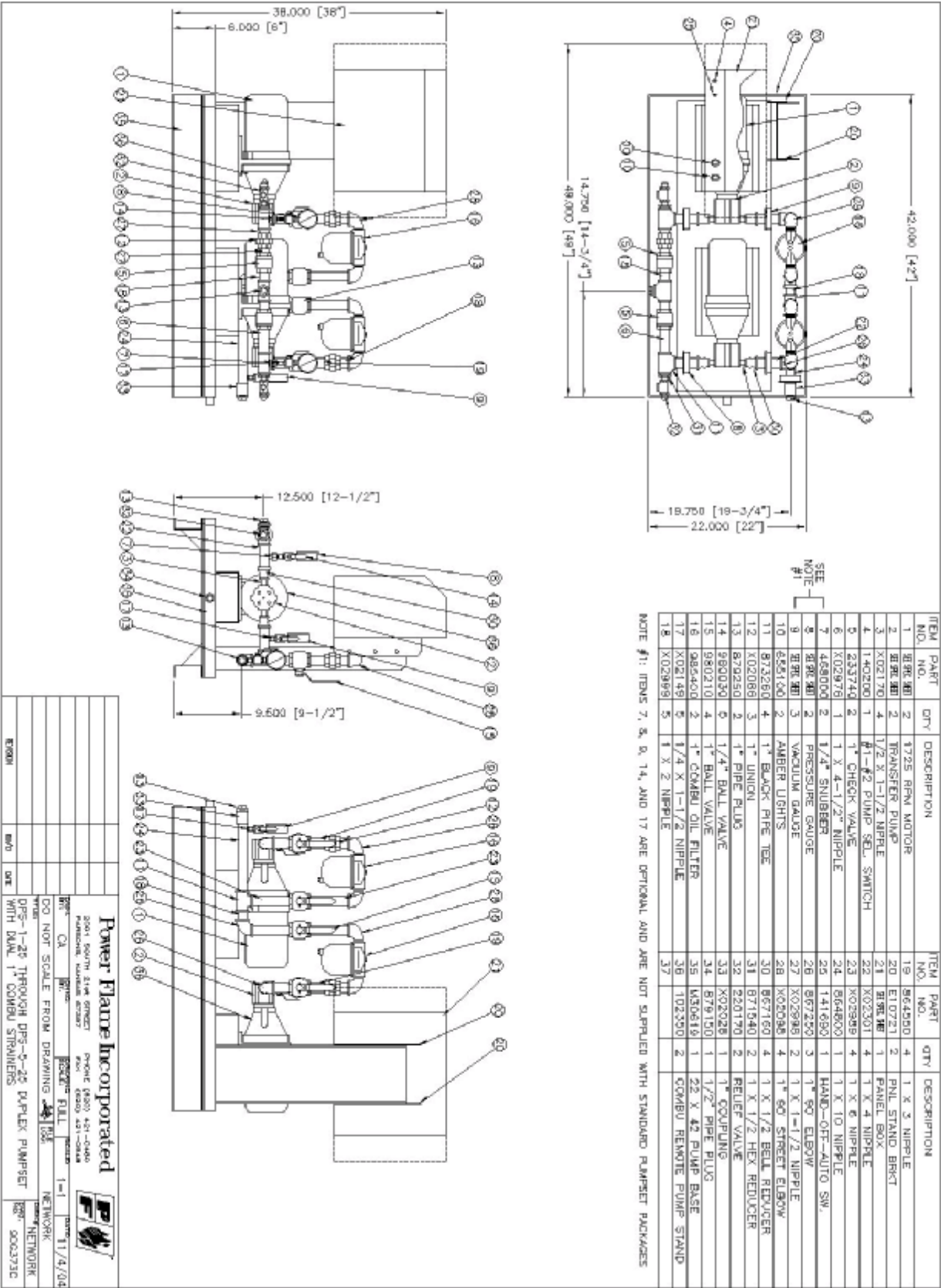
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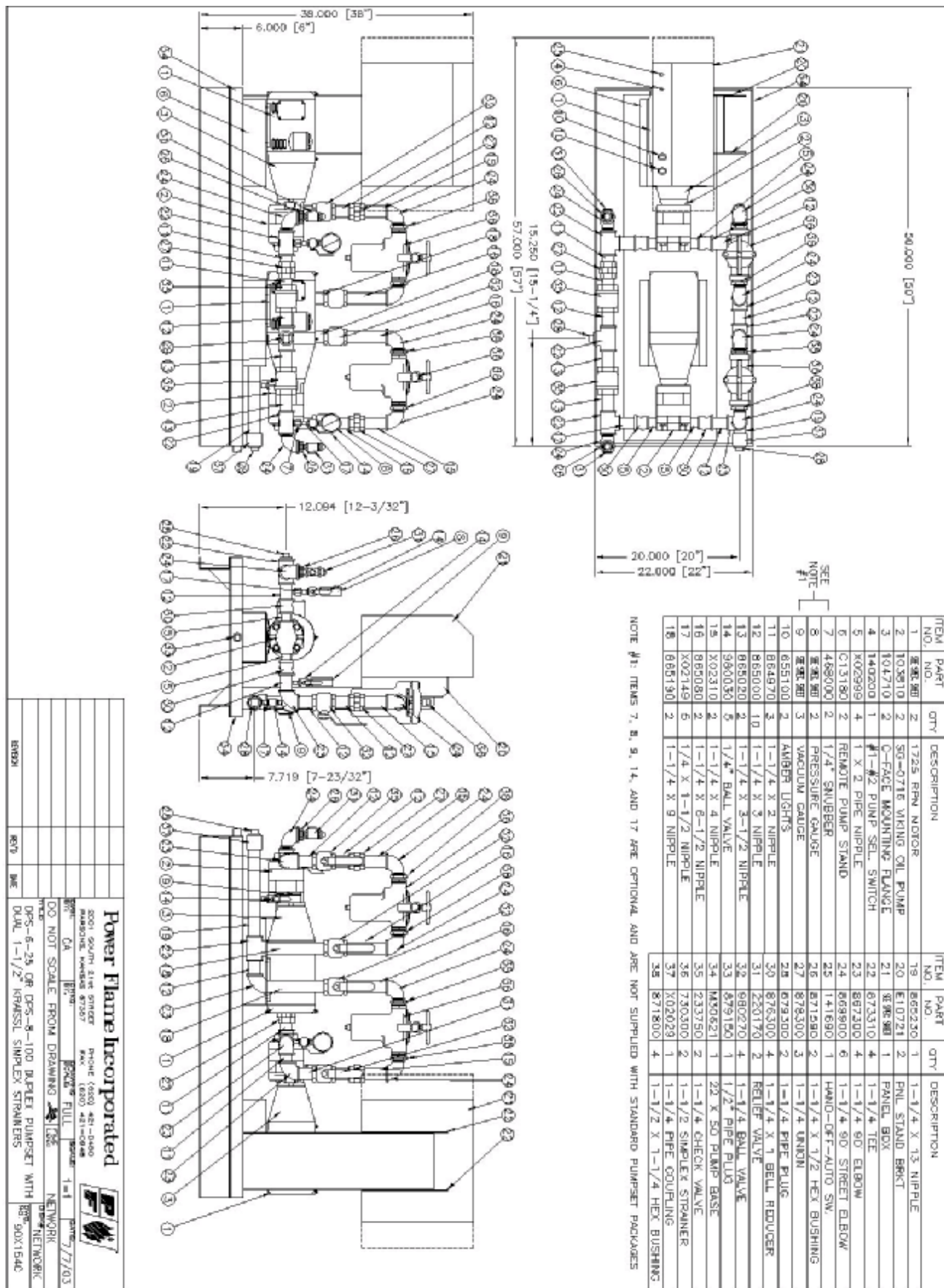


Duplex Oil Pumpsets - General Arrangement Drawings & Schematic



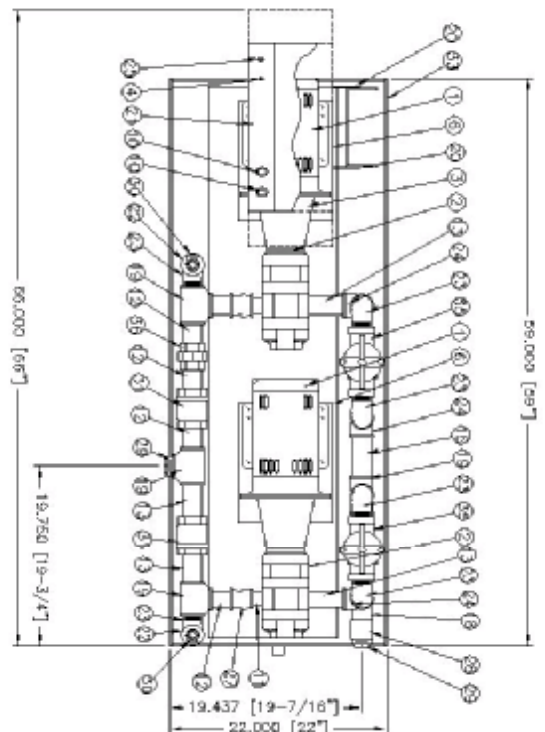
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2001 S. 21st Street
Parsons, KS 67357

(620) 421-0480 TEL. (620) 421-0948 FAX
<http://www.powerflame.com>
csd@powerflame.com



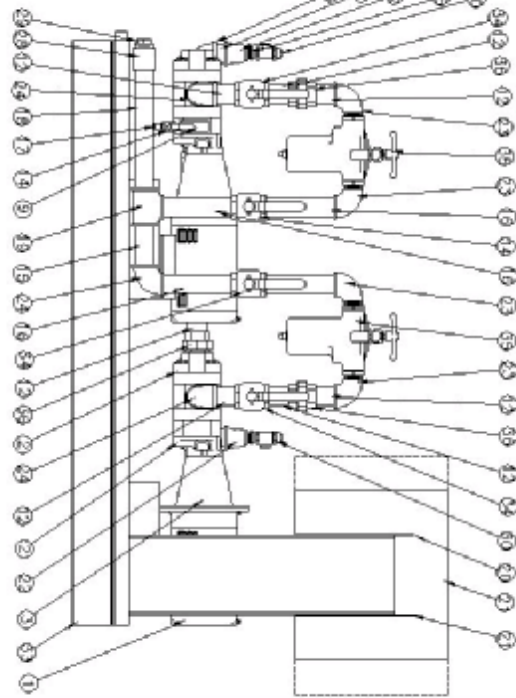
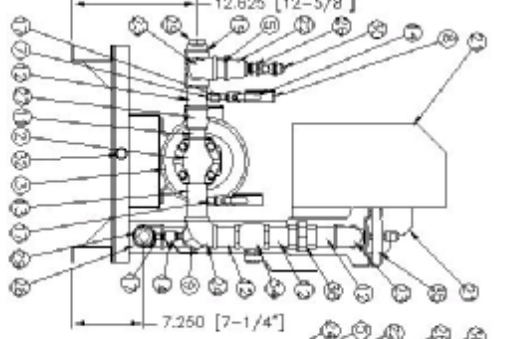
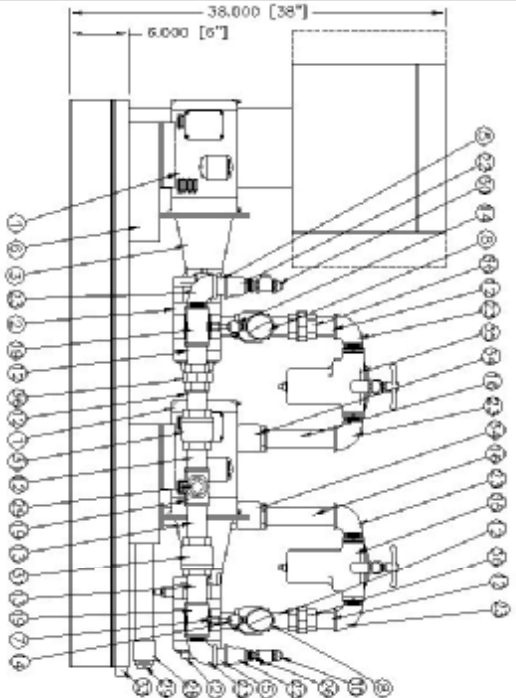
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 Parsons, KS 67357

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ITEM NO.	PART NO.	QTY	DESCRIPTION	ITEM NO.	PART NO.	QTY	DESCRIPTION
1	1725	2	RPM MOTOR	19	873360	4	1-1/2 TEE
2	50-0722	2	WINDING OIL PUMP	20	E10721	2	PANEL STAND BRKT
3	104720	2	C-FACE MOUNTING FLANGE	21	898100	1	PANEL BOX
4	140200	1	#1-#2 PUMP SEL. SWITCH	22	876350	2	1-1/2 X 3/4 REDUCER
5	X02330	2	1-1/2 X 2 NIPPLE	23	868950	6	1-1/2 90° STREET ELBOW
6	C13179	2	REMOTE PUMP STAND	24	867350	3	1-1/2 90° ELBOW
7	468000	2	1/4" SNUBBER	25	141690	1	HAND-OFF-AUTO SW.
8	876400	2	PRESSURE GAUGE	26	871450	2	3/4 X 1/2 HEX BUSHING
9	876400	3	VACUUM GAUGE	27	876400	2	1-1/2 X 1-1/4 BELL REDUCER
10	B55100	2	ALBER LIGHTS	28	X02030	1	1-1/2 COUPLING
11	B64870	2	1-1/4 X 2 NIPPLE	29	876350	2	1-1/2 PIPE PLUG
12	X02335	11	1-1/2 X 3 NIPPLE	30	E20170	2	RELIEF VALVE
13	B65410	4	1-1/2 X 4-1/2 NIPPLE	31	E23760	2	1-1/2 CHECK VALVE
14	590030	6	1/4" BALL VALVE	32	876100	1	1/2" PIPE PLUG
15	B65430	1	1-1/2 X 6 NIPPLE	33	M30620	1	22 X 59 PUMP BASE
16	X02332	4	1-1/2 X 6 NIPPLE	34	860320	4	1-1/2 BALL VALVE
17	X02149	5	1/4 X 1-1/2 NIPPLE	35	170300	2	1-1/2 SIMPLEX STRAINER
18	B65600	1	1-1/2 X 13 NIPPLE	36	X02088	3	1-1/2 UNION

NOTE #1: ITEMS 7, 8, 9, 14, AND 17 ARE OPTIONAL AND ARE NOT SUPPLIED WITH STANDARD PUMPSET PACKAGES



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PARSONS, KANSAS 67357

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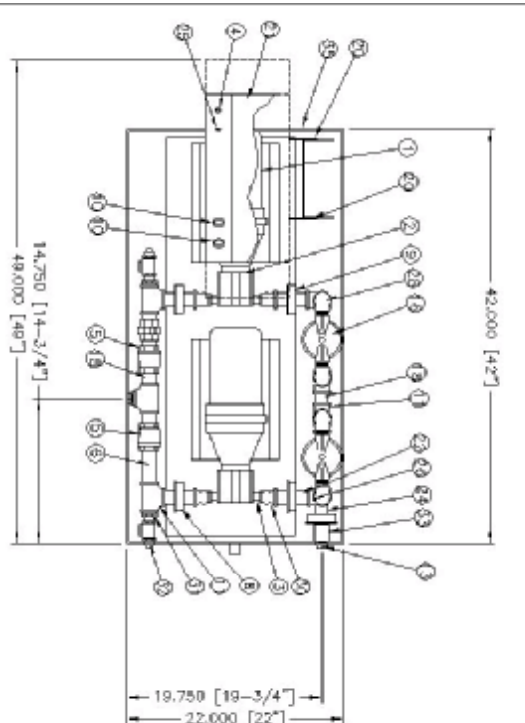
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TITLE: DPS-7-25 OR DPS-9-100 DUPLEX PUMPSET WITH DUAL 1-1/2" KPM650L SIMPLEX STRAINERS

90X1550

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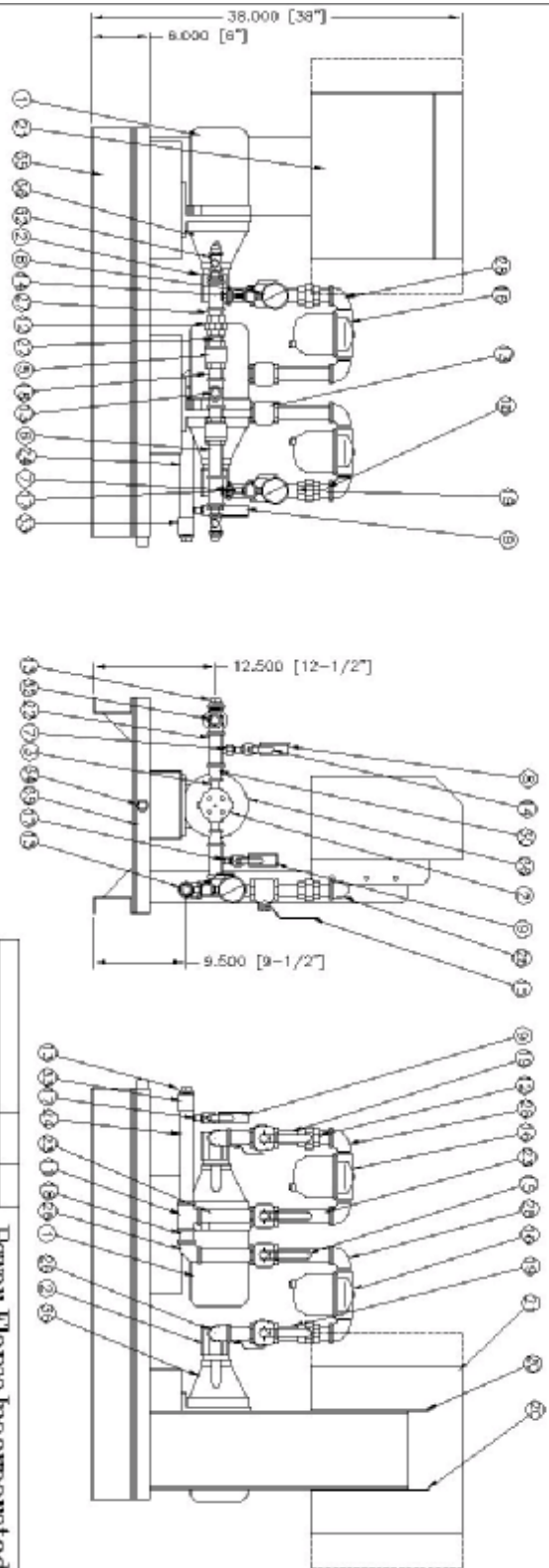
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ITEM NO.	PART NO.	QTY	DESCRIPTION	ITEM NO.	PART NO.	QTY	DESCRIPTION
1	225R-301	2	1725 RPM MOTOR	19	864350	4	1" X 3" NIPPLE
2	225R-301	2	TRANSFER PUMP	20	E10721	2	PNL STAND BRKT
3	X002170	4	1/2" X 1-1/2" NIPPLE	21	810810	1	PANEL BOX
4	140000	1	#1-42 PUMP SEL. SWITCH	22	X002301	4	1" X 4" NIPPLE
5	225740	2	1" CHECK VALVE	23	X002989	4	1" X 6" NIPPLE
6	X002978	1	1" X 4-1/2" NIPPLE	24	864000	1	1" X 10" NIPPLE
7	458000	2	1/4" SNUBBER	25	141690	1	HAID-OFF-AUTO SW.
8	225R-301	2	PRESSURE GAUGE	26	862750	3	1" 90° ELBOW
9	225R-301	2	VACUUM GAUGE	27	X002998	2	1" X 1-1/2" NIPPLE
10	655100	2	AMBER LIGHTS	28	X002098	4	1" 90° STREET ELBOW
11	873260	4	1" BLACK PIPE TEE	30	867180	4	1" X 1/2" BELL REDUCER
12	X002080	1	1" UNION	31	871640	2	1" X 1/2" HEX REDUCER
13	879290	2	1" PIPE PLUG	32	220170	2	RELIEF VALVE
14	560030	4	1/4" BALL VALVE	33	X002028	1	1" COUPLING
15	980210	4	1" BALL VALVE	34	879180	1	1/2" PIPE PLUG
16	985400	2	1" COMBU OIL FILTER	35	M30619	1	22 X 42 PUMP BASE
17	X002149	5	1/4" X 1-1/2" NIPPLE	36	102350	2	COMBU REMOTE PUMP STAND
18	X002989	5	1" X 2" NIPPLE	37			

NOTE #1: ITEMS 7, 8, 9, 14, AND 17 ARE OPTIONAL AND ARE NOT SUPPLIED WITH STANDARD PUMP-SET PACKAGES

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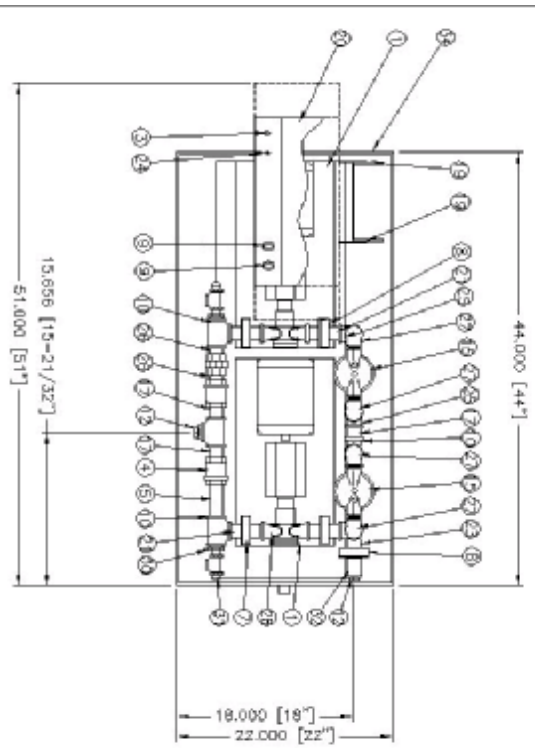
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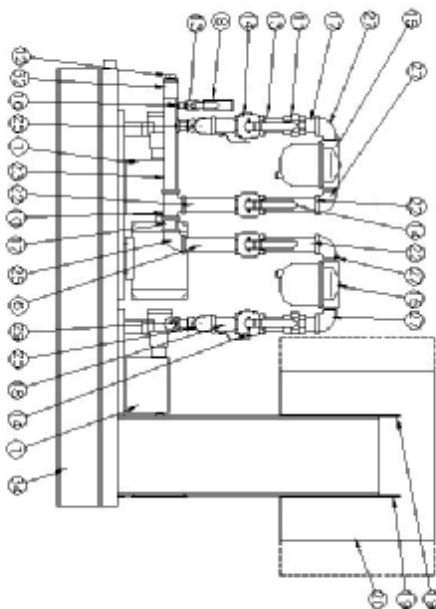
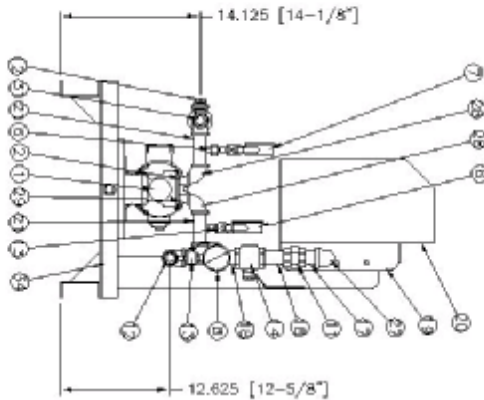
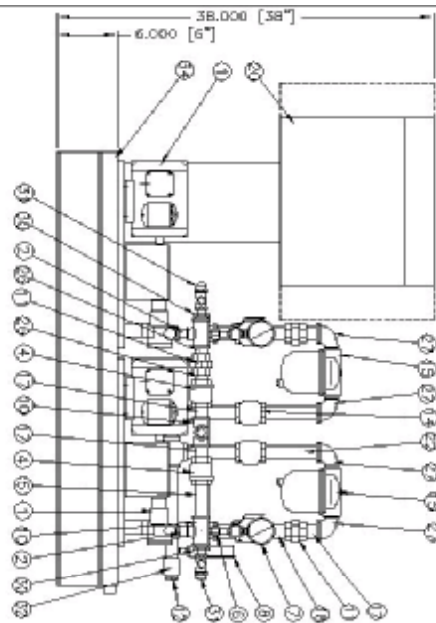
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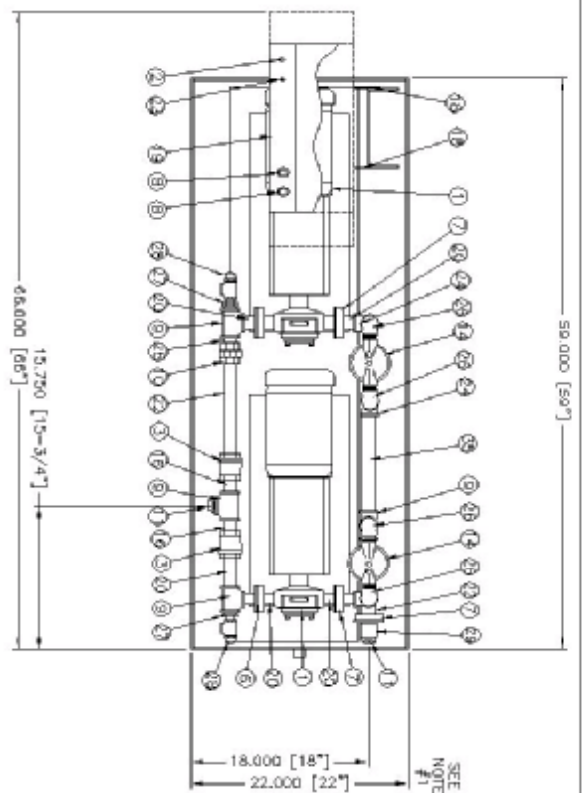
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1	400000	2	F452/F452 DIRECT DRIVE PUMP	19	E10721	2	PNL STAND BRKT
2	X02170	2	1/2" X 1-1/2" NIPPLE	20	400000	1	PANEL BOX
3	140200	1	#1-#2 PUMP SEL. SWITCH	21	X02301	4	1" X 4" NIPPLE
4	233740	2	1" CHECK VALVE	22	X02989	4	1" X 6" NIPPLE
5	X02976	1	1" X 4-1/2" NIPPLE	23	564500	1	1" X 10" NIPPLE
6	400000	2	1/4" SNUBBER	24	141690	1	HAND-OFF-AUTO SW.
7	400000	2	PRESSURE GAUGE	25	867250	3	1" 90° ELBOW
8	400000	2	VACUUM GAUGE	26	X02989	2	1" X 1-1/2" NIPPLE
9	665100	2	AMBER LIGHTS	27	X02098	4	1" 90° STREET ELBOW
10	872260	4	1" BLACK PIPE TEE	28	568000	4	1" X 1/2" 90° REDUCER ELBOW
11	X02086	3	1" UNION	29	X02177	2	1/2" X 3" NIPPLE
12	872250	2	1" PIPE PLUG	30	871640	2	1" X 1/2" HEX REDUCER
13	980030	5	1/4" BALL VALVE	31	220170	2	RELIEF VALVE
14	980210	4	1" BALL VALVE	32	X02028	1	1" COUPLING
15	988400	2	1" COMBU OIL FILTER	33	870750	1	1/2" PIPE PLUG
16	X02149	5	1/4" X 1-1/2" NIPPLE	34	M30618	1	22" X 44" PUMP BASE
17	X02989	5	1" X 2" NIPPLE	35	X02302	2	1" X 2-1/2" NIPPLE
18	564500	2	1" X 3" NIPPLE	36			

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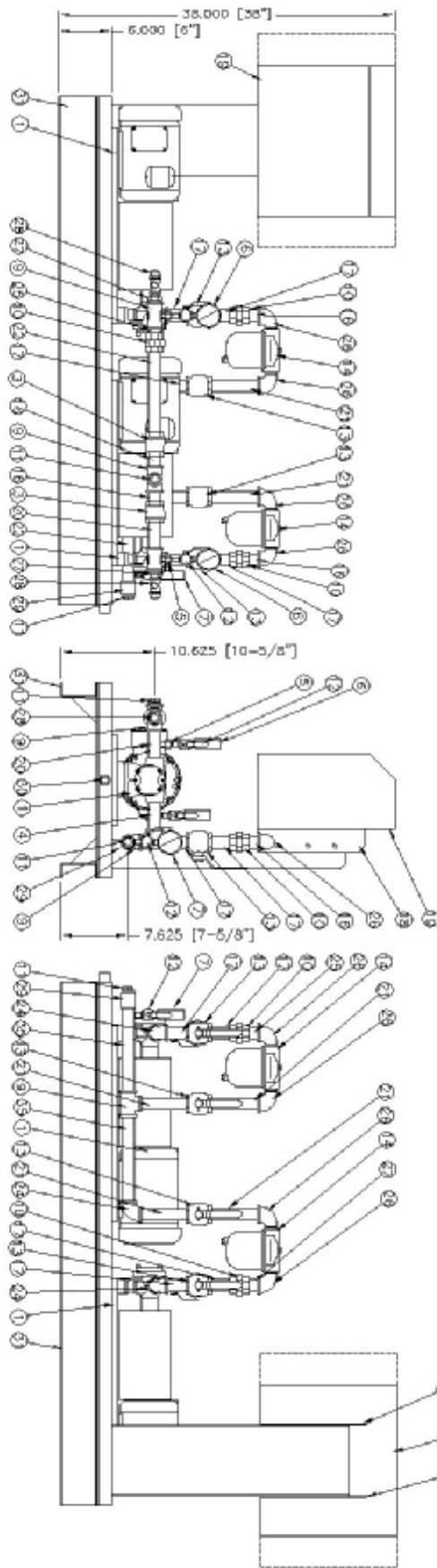
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PUMPSET WITH DUAL 1" COMBU STRAINERS		PUMPSET WITH DUAL 1" COMBU STRAINERS		PUMPSET WITH DUAL 1" COMBU STRAINERS	
NETWORK		NETWORK		NETWORK	
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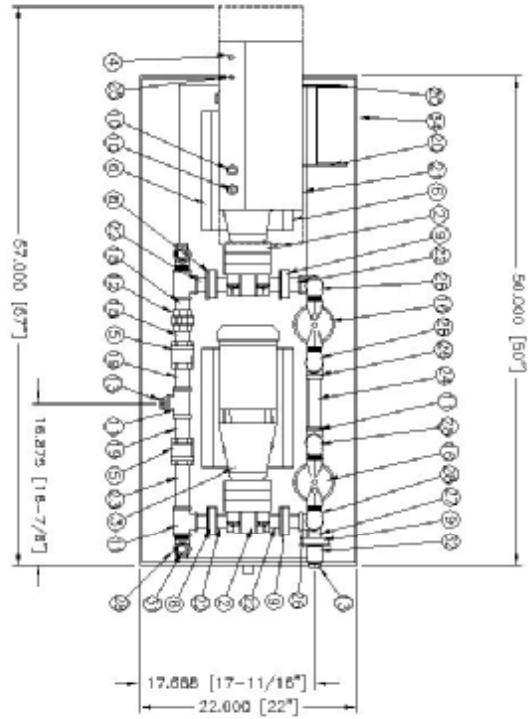
ITEM NO.	PART NO.	QTY	DESCRIPTION	ITEM NO.	PART NO.	QTY	DESCRIPTION
1	864500	2	64320 WIRING TRANSFER PUMP	19	864500	1	PANEL BOX
2	140200	1	#1-#2 PUMP SEL. SWITCH	20	X02010	4	1 X 4 NIPPLE
3	233740	2	1" CHECK VALVE	21	X02098	4	1 X 6 NIPPLE
4	X02076	1	1 X 4-1/2" NIPPLE	22	864500	2	1 X 10 NIPPLE
5	458000	2	1/4" SNUBBER	23	141690	1	HAND-OFF-AUTO SW.
6	864500	2	PRESSURE GAUGE	24	867250	3	1" 90° ELBOW
7	864500	3	VACUUM GAUGE	25	X02098	1	1 X 1-1/2 NIPPLE
8	051000	2	AMBER LIGHTS	26	X02098	4	1" 90° STREET ELBOW
9	873260	4	1" BLACK PIPE TEE	27	871540	2	1 X 1/2 HEX REDUCER
10	X02086	3	1" UNION	28	220170	2	RELIEF VALVE
11	879250	2	1" PIPE PLUG	29	X02028	1	1/2" COUPLING
12	980030	5	1/4" BALL VALVE	30	879150	1	1/2" PIPE PLUG
13	980210	4	1" OIL FILTER	31	M30620	1	22 X 30 PUMP BASE
14	985400	2	1" OIL FILTER	32			
15	X02149	5	1/4 X 1-1/2 NIPPLE	33	X02302	2	1 X 2-1/2" NIPPLE
16	X02989	4	1 X 2 NIPPLE	34			
17	864500	2	1 X 3 NIPPLE	35	864501	1	1 X 10-1/2 PIPE NIPPLE
18	E10721	2	PNL STAND BRKT	36			

NOTE #1: ITEMS 3, 6, 7, 12, AND 15 ARE OPTIONAL AND ARE NOT SUPPLIED WITH STANDARD PUMPSET PACKAGES



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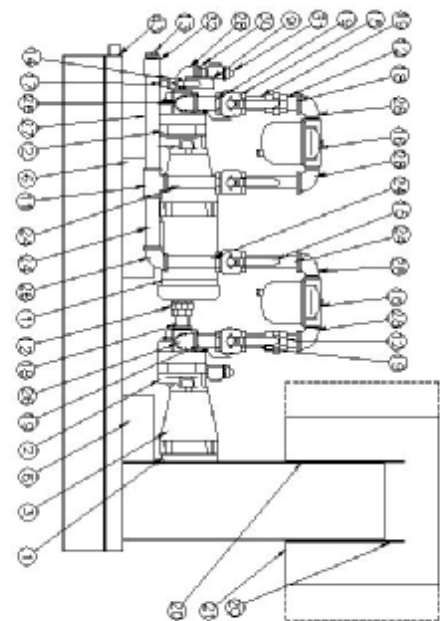
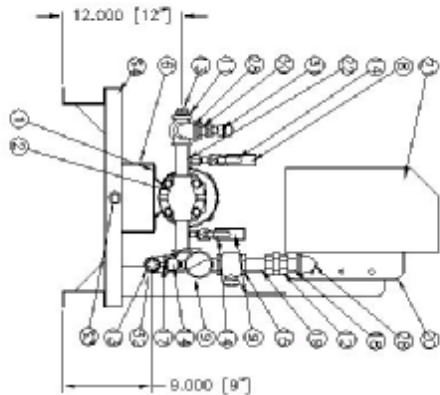
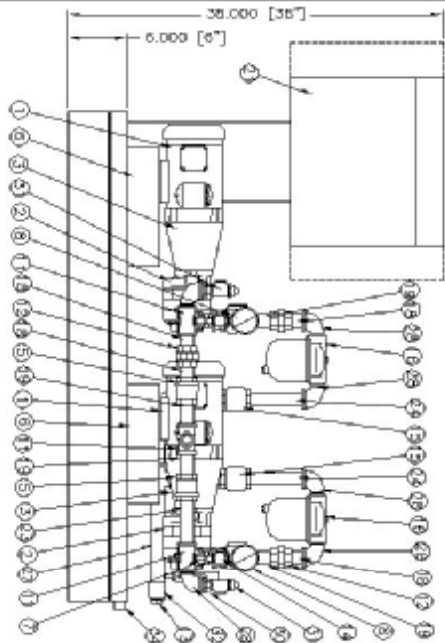
Power Flame Incorporated			
2001 SOUTH 21st STREET PARSONS, KANSAS 67357			
PHONE (620) 421-0480		FAX (620) 421-0948	
E-MAIL: SALES@POWERFLAME.COM		WWW.POWERFLAME.COM	
DO NOT SCALE FROM DRAWING			
DATE: 8/6/02		BY: [Signature]	
CHECKED: [Signature]		APPROVED: [Signature]	
TITLE: DCS-4V-100 DUPLEX PUMPSET WITH DUAL 1"		NETWORK: [Signature]	
REV: 1		REV: 1	
REV: 2		REV: 2	
REV: 3		REV: 3	
REV: 4		REV: 4	
REV: 5		REV: 5	
REV: 6		REV: 6	
REV: 7		REV: 7	
REV: 8		REV: 8	
REV: 9		REV: 9	
REV: 10		REV: 10	
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REV: 12		REV: 12	
REV: 13		REV: 13	
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REV: 32		REV: 32	
REV: 33		REV: 33	
REV: 34		REV: 34	
REV: 35		REV: 35	
REV: 36		REV: 36	



SEE
NOTE
#1

ITEM NO.	PART NO.	QTY	DESCRIPTION	ITEM NO.	PART NO.	QTY	DESCRIPTION
1	1725 RPN MOTOR	2		19	864650	6	1 X 3 PIPE NIPPLE
2	SO-0762 WIRING OIL PUMP	2		20	E10721	2	PNL STAND BRKT
3	C-FACE MOUNTING FLANGE	2		21	864650	1	PANEL BDX
4	#1-#2 PUMP SEL. SWITCH	1		22	X02301	4	1 X 4 PIPE NIPPLE
5	2233740	2	1" CHECK VALVE	23	864650	1	1 X 5 PIPE NIPPLE
6	C13180	2	REMOTE PUMP STAND	24	X02999	5	1 X 6 PIPE NIPPLE
7	468000	2	1/4" SNUBBER	25	141690	1	HAND-OFF-AUTO SW.
8	864650	2	PRESSURE GAUGE	26	867250	3	1" 90° ELBOW
9	864650	3	VACUUM GAUGE	27	864800	1	1 X 10 PIPE NIPPLE
10	655100	2	AMBER LIGHTS	28	X02098	6	1" 90° STREET ELBOW
11	873260	4	1" BLACK PIPE TEE	29	871440	2	1 X 1/2 HEX REDUCER
12	X02086	3	1" UNION	30	250170	2	RELIEF VALVE
13	879250	2	1" PIPE PLUG	31	X02028	1	1" COUPLING
14	960030	5	1/4" BALL VALVE	32	879150	1	1/2" PIPE PLUG
15	980210	4	1" BALL VALVE	33	M00621	1	22 X 50 PLUMP BASE
16	985400	2	1" COMBU OIL FILTER	34			
17	X02149	5	1/4 X 1-1/2 NIPPLE	35			
18	X02999	4	1 X 2 PIPE NIPPLE	36			
				37			

NOTE #1: ITEMS 7, 8, 9, 14, AND 17 ARE OPTIONAL AND ARE NOT SUPPLIED WITH STANDARD PUMPSET PACKAGES

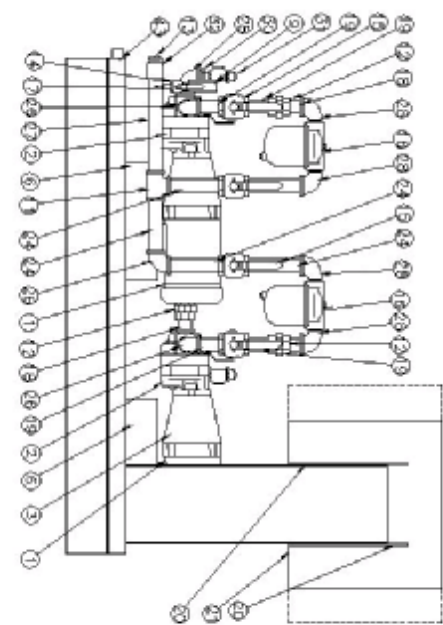
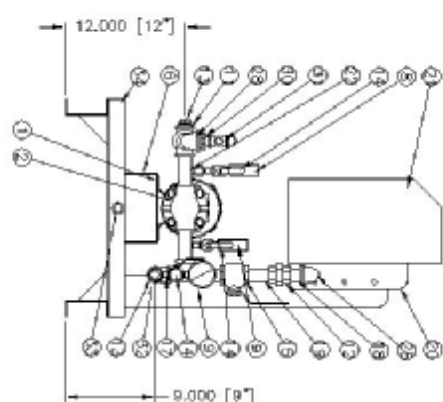
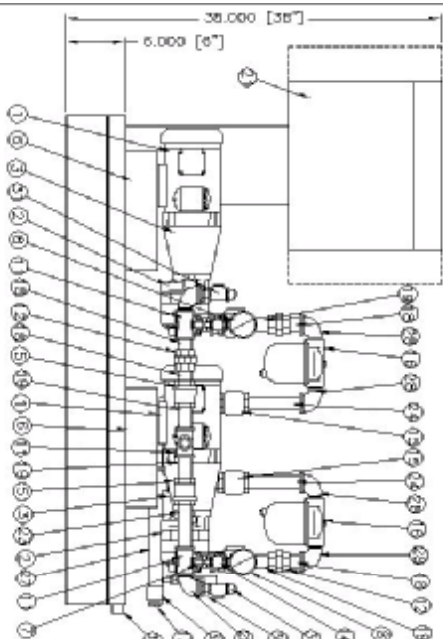
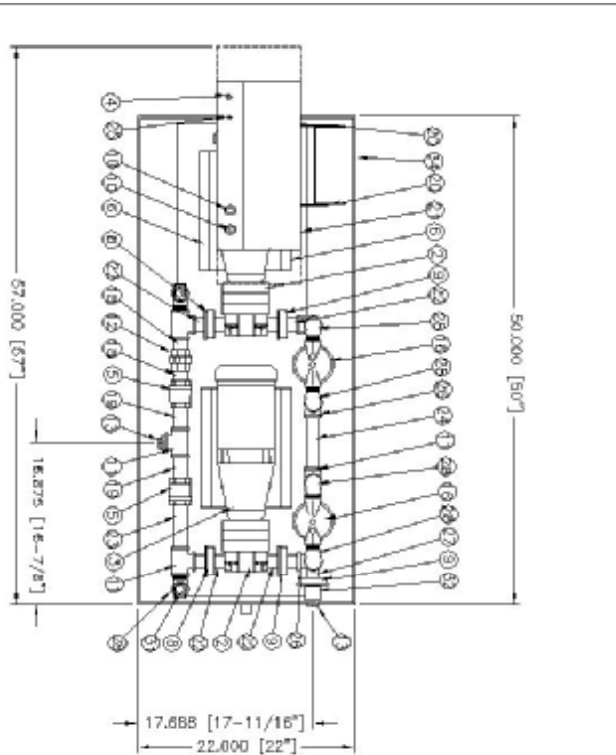


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Power Flame Incorporated	
2001 SOUTH 21ST STREET PARSONS, KANSAS 67357	PHONE (620) 421-0480 FAX (620) 421-0948
CA	FL
DO NOT SCALE FROM DRAWING	SCALE FULL
DATE 7/1/03	BY
DESIGNED BY	CHECKED BY
DRAWN BY	APPROVED BY
1" COMBU SIMPLEX STRAINERS	1" 90° ELBOW

POWER FLAME INCORPORATED
2001 S. 21ST Street
Parsons, KS 67357

(620) 421-0480 TEL. (620) 421-0948 FAX
<http://www.powerflame.com>
csd@powerflame.com



NOTE #1: ITEMS 7, 8, 9, 14, AND 17 ARE OPTIONAL AND ARE NOT SUPPLIED WITH STANDARD PUMPSET PACKAGES

ITEM NO.	PART NO.	QTY	DESCRIPTION	ITEM NO.	PART NO.	QTY	DESCRIPTION
1	1725 RPM MOTOR	2		19	664590	6	1 X 3 PIPE NIPPLE
2	50-0782 WIKING OIL PUMP	2		20	E10721	2	PNL STAND BRKT
3	0-FACE MOUNTING FLANGE	2		21	819100	1	PANEL BOX
4	#1-#2 PUMP SEL. SWITCH	1		22	X02301	4	1 X 4 PIPE NIPPLE
5	1\" CHECK VALVE	2		23	884650	1	1 X 6 PIPE NIPPLE
6	REMOTE PUMP STAND	2		24	X02989	5	1 X 6 PIPE NIPPLE
7	1/4\" SNUBBER	2		25	141690	1	HAND-OFF-AUTO SW.
8	PRESSURE GAUGE	2		26	867250	3	1\" 90° ELBOW
9	VACUUM GAUGE	2		27	664600	1	1 X 10 PIPE NIPPLE
10	AMBER LIGHTS	2		28	X02098	6	1\" 90° STREET ELBOW
11	1\" BLACK PIPE TEE	4		30	871540	2	1 X 1/2\" HEX REDUCER
12	1\" UNION	3		31	220170	2	RELIEF VALVE
13	1\" PIPE PLUG	2		32	X02028	1	1\" COUPLING
14	1/4\" BALL VALVE	2		33	879100	1	1/2\" PIPE PLUG
15	1\" BALL VALVE	4		34	M20621	1	22 X 50 PUMP BASE
16	1\" COMBU OIL FILTER	2		35			
17	1/4 X 1-1/2 NIPPLE	5		36			
18	1 X 2 PIPE NIPPLE	4		37			

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PARSONS, KANSAS 67357

PHONE (620) 421-0480
FAX (620) 421-0948

DO NOT SCALE FROM DRAWING

DPS-6-100 DUPLEX PUMPSET WITH DUAL
1\" COMBU SIMPLEX STRAINERS

DATE 7/1/03

BY CA

CHK JLL

DESIGNER

1\" = 1\"

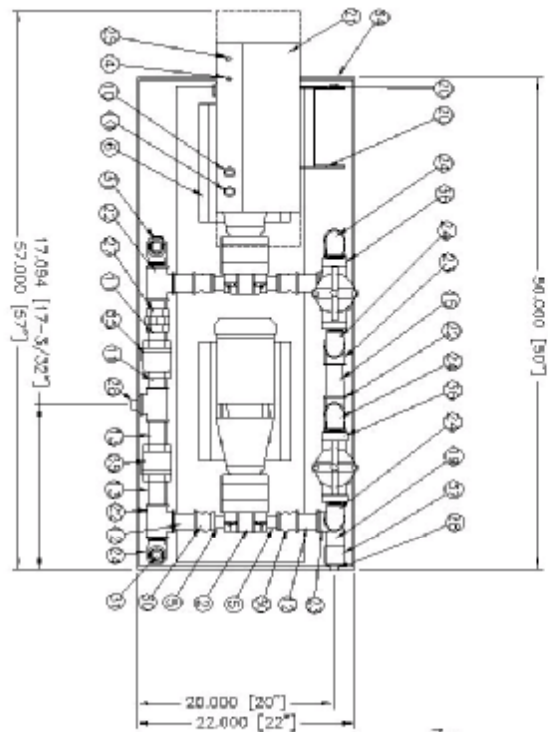
SCALE

NETWORK

501143C

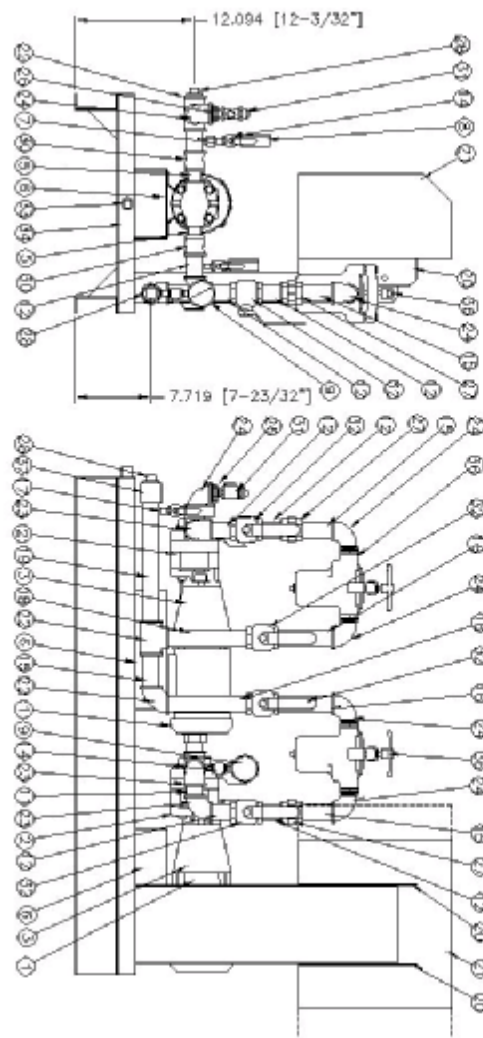
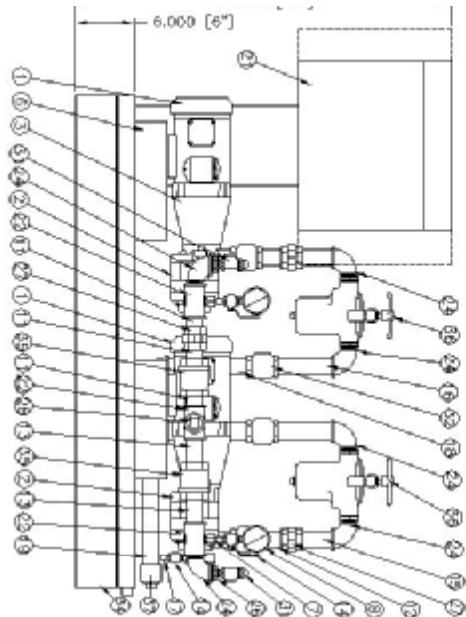
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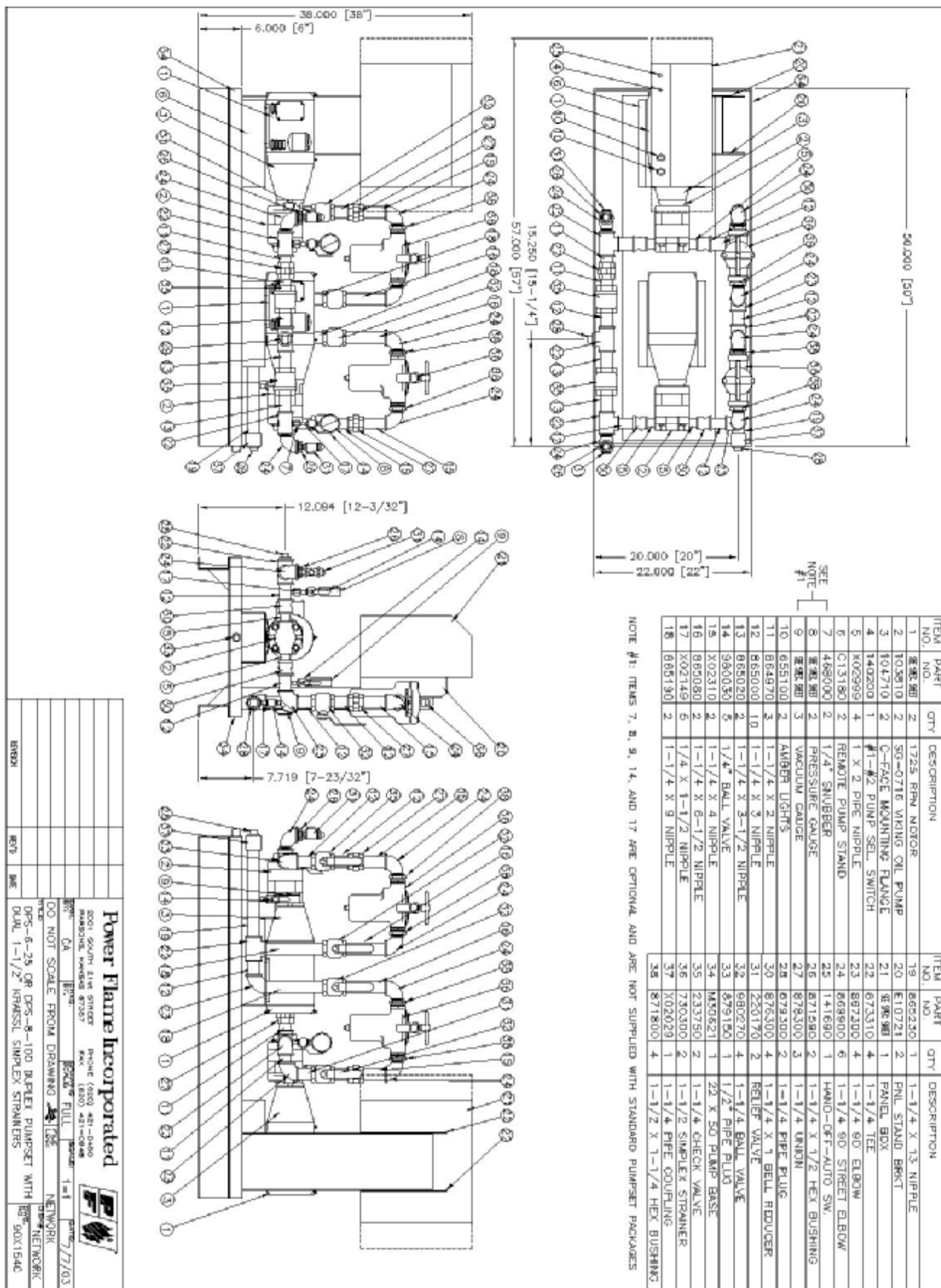
ITEM NO.	PART NO.	QTY	DESCRIPTION	ITEM NO.	PART NO.	QTY	DESCRIPTION
1	3685300	2	1/2" FPM MOTOR	19	6653300	1	1-1/4" X 1 1/2" NIPPLE
2	1036000	2	50-0711 WIRING OIL PUMP	20	E10721	2	FIL STAND BRKT
3	1047000	2	C-FACE MOUNTING FLANGE	21	9496300	1	PAVEL BOX
4	1402000	2	#1-#2 PUMP SEL. SWITCH	22	6733300	4	1-1/4" TEE
5	X028900	4	1 X 2 PIPE NIPPLE	23	6672300	4	1-1/4" 90 ELBOW
6	C131800	2	REMOTE PUMP STAND	24	6699000	6	1-1/4" 90 STREET ELBOW
7	4480000	2	1/4" SAUBBER	25	1416900	1	HAND-OFF-AUTO SW.
8	3685300	2	PRESSURE GAUGE	26	6715900	2	1-1/4" X 1/2" HEX BUSHING
9	3685300	2	VACUUM GAUGE	27	6789300	3	1-1/4" UNION
10	6551100	2	AMBER LIGHTS	28	6793300	2	1-1/4" PIPE PLUG
11	6646700	4	1-1/4" X 1" NIPPLE	29	6763300	1	1-1/4" X 1" BELL REDUCER
12	6650000	2	1-1/4" X 3" NIPPLE	31	2201700	2	RELIEF VALVE
13	6650000	2	1-1/4" X 3-1/2" NIPPLE	32	6905700	4	1-1/4" BALL VALVE
14	9600300	5	1-1/4" BALL VALVE	33	6791500	1	1-1/2" PIPE PLUG
15	X023100	3	1-1/4" X 4" NIPPLE	34	M006201	1	22 X 50 PLUMP BASE
16	6650000	2	1-1/4" X 6-1/2" NIPPLE	35	2337500	2	1-1/4" CHECK VALVE
17	X02149	6	1-1/4" X 1-1/2" NIPPLE	36	7302000	2	1-1/4" SIMPLEX STRAINER
18	6651900	2	1-1/4" X 9" NIPPLE	37	X02029	1	1-1/4" PIPE COUPLING

NOTE #1: ITEMS 7, 8, 9, 14, AND 17 ARE OPTIONAL AND ARE NOT SUPPLIED WITH STANDARD PUMPSET PACKAGES



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Power Flame Incorporated			
3201 South 21st Street Mableton, Georgia 30157		Phone (404) 481-0400 Fax (404) 481-0448	
DO NOT SCALE FROM DRAWING 1-1/4" KRAISSL SIMPLEX STRAINERS	SPEC'S FULL 1=1	DATE 7/1/93 BY NETWORC 90X1530	



POWER FLAME INCORPORATED
2001 S. 21st Street
Parsons, KS 67357

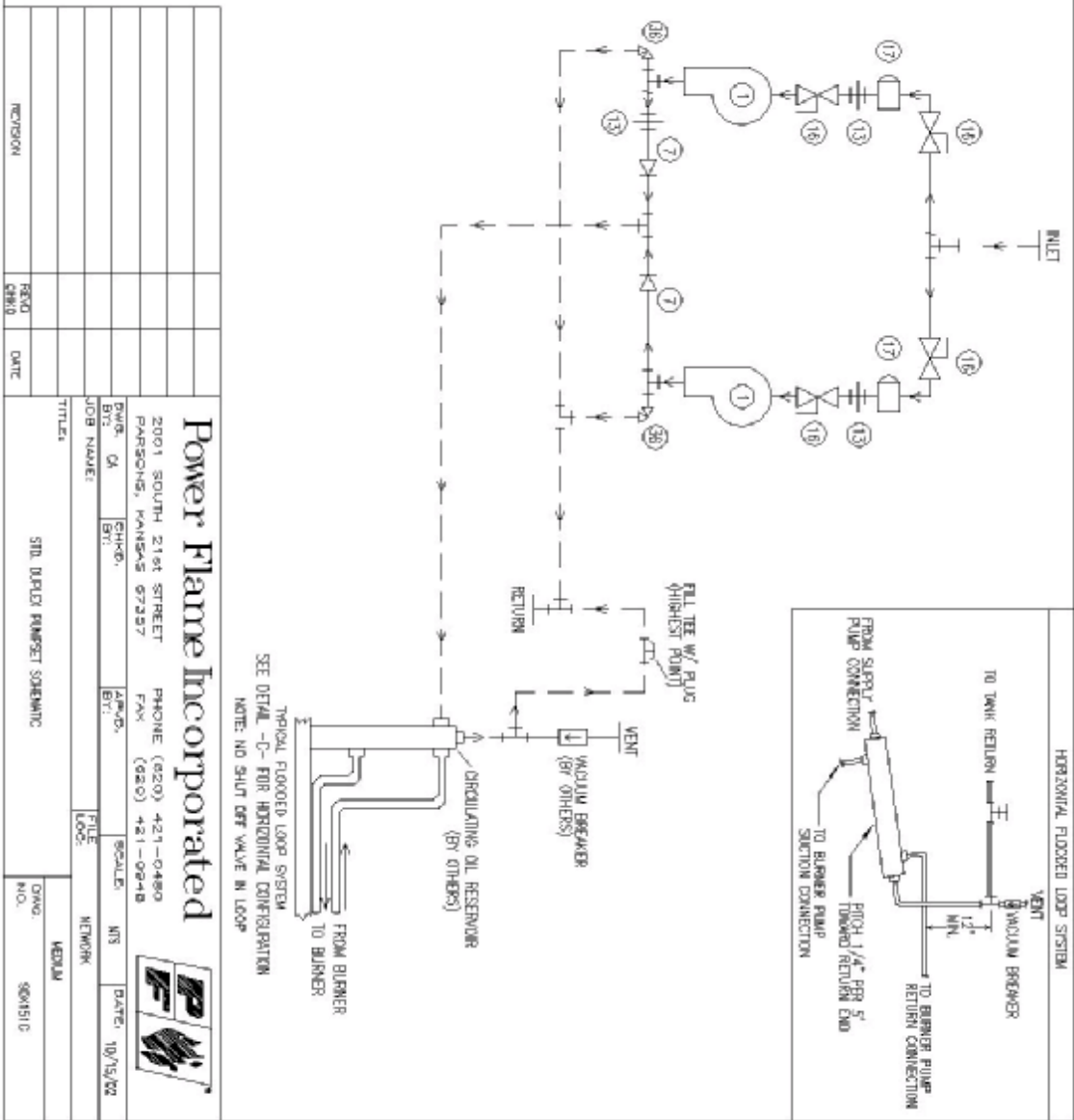
(620) 421-0480 TEL. (620) 421-0948 FAX
<http://www.powerflame.com>
csd@powerflame.com

ITEM #	P/N	QTY.	DESCRIPTION
1	SEE SPEC SHEET	2	FUEL OIL PUMP WITH MOTOR
7	220740	2	1" CHECK VALVE
13	X02086	3	1" UNION
16	980210	4	1" BALL VALVE
17	086400	2	1" OIL FILTER
36	220190	2	1/2" MC VALVE WITH O-90 PSI SPRING

Schematic Flow Diagram

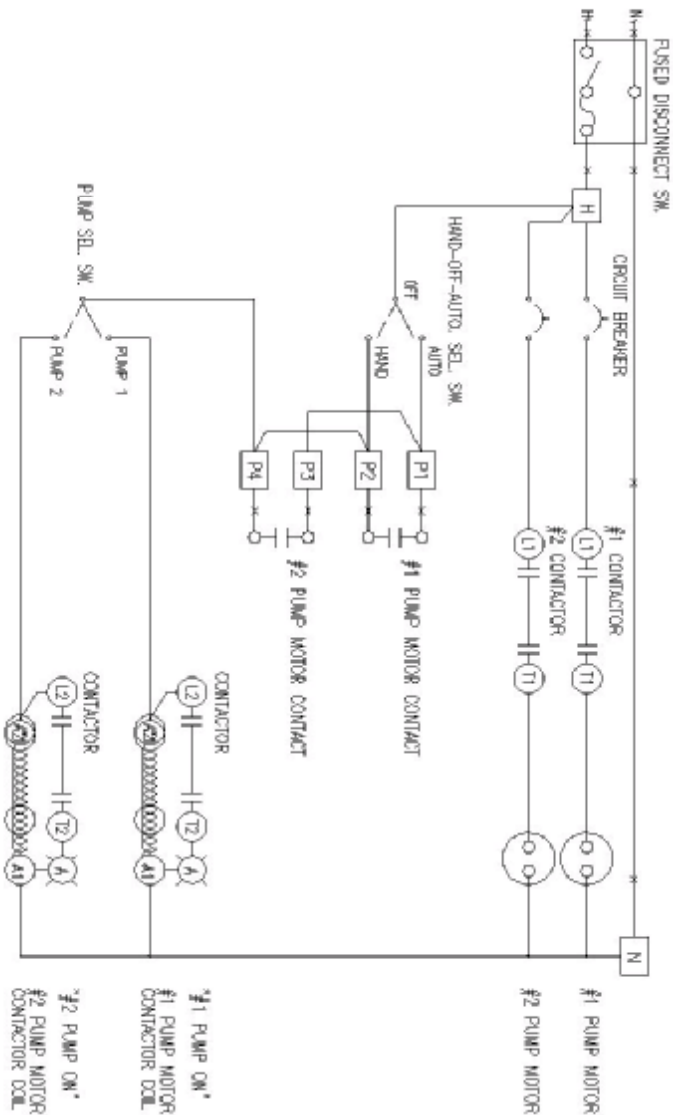
1. NFPA REGULATORY PRESSURE MUST NOT EXCEED 3 PSIG AT BURNER PUMP INLET.
2. POSITIVE SHUTOFF VALVE SHOULD NOT BE PLACED IN FIELD PIPING WHEN USING THE SYSTEM SHOWN.

_____ FACTORY PIPED
 _____ FIELD PIPED



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115V/1f Thermally Protected Motors larger than ½ hp.



H	N	P1	P2	P3	P4
---	---	----	----	----	----

TEST COPIES CONDUCTORS ONLY.*

CAUTION: THINNESS OF CONDUCTORS TO LEFT BEFORE REMOVING.

— G — EQUIPMENT INAL CONDUCTOR

— F — PLANT CONDUCTOR, PIN IN SCRAPAGE

— — CONDUCTOR OR SHELLED CASE

— — FACTORY WORKING

— — 24" TEST POINT

— — 118" TEST POINT

— — 200" TEST POINT

— — 200" TEST POINT

EQUIPMENT SHOWN ON DRAWING IS ONLY PROVIDED AND LIMITED BY PLANT PLANT. F. SPECIFICALLY CALLED FOR IN PLANT SPEC. SHEET.

CAUTION: ALL FIELD WORKS MUST BE WORN AS SHOWN ON MAPS. DANGER.

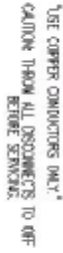
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2001 S. 21st Street
Parsons, KS 67357

(620) 421-0480 TEL. (620) 421-0948 FAX
[http://www. powerflame.com](http://www.powerflame.com)
csd@powerflame.com

LISTED GROUNDING BAR AND/OR GREEN SCREW MOUNTED IN PANEL AND WIRING TO EARTH GROUND LABELED EQUIPMENT GROUND



246
115V
20A
575V

FIELD WIRING
SEE SPEC. SHEET
FOR VOLTAGE

EQUIPMENT SHOWN ON DRAWING IS ONLY PROVIDED AND
CONTROLLED BY POWER PLANT. SPECIFICALLY CALLED FOR
ON BURNER SPEC. SHEET

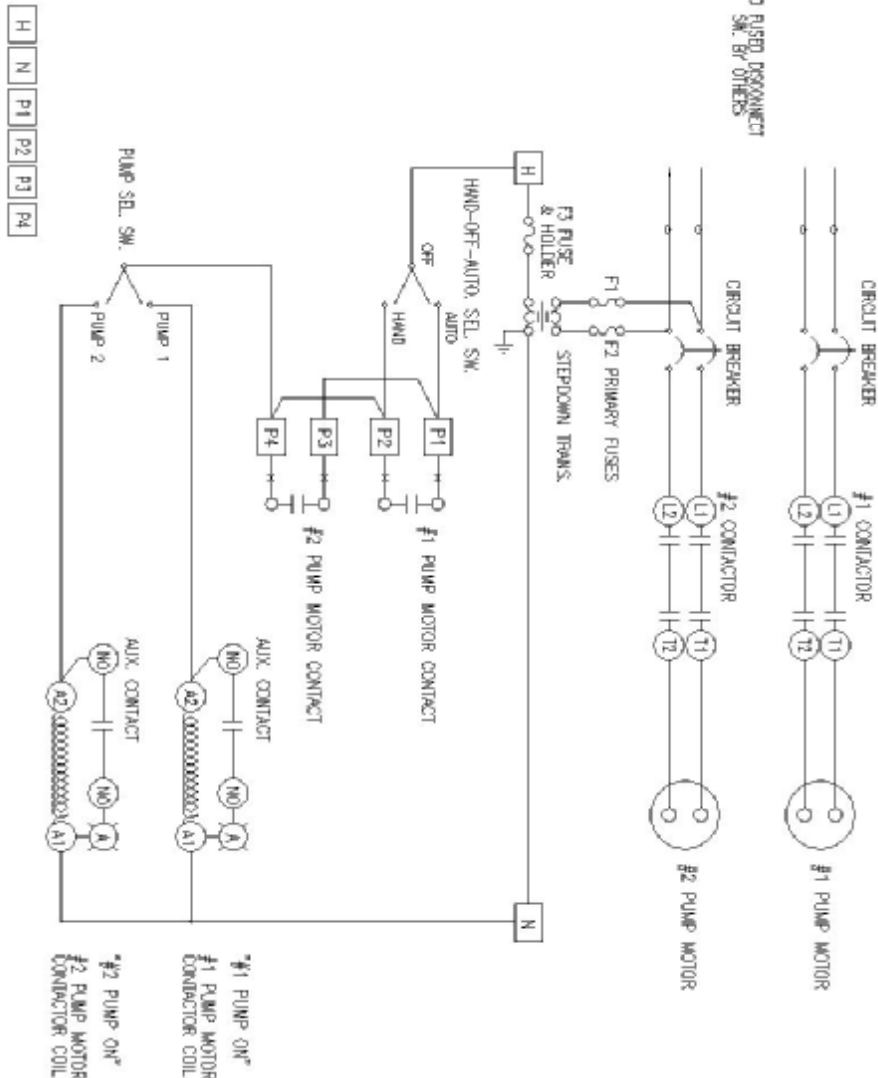
CAUTION: ALL FIELD WORK MUST
BE WITNESSED AS SHOWN ON
THIS COVER.

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USED EQUIPMENT: PUMP AND/OR MOTOR SECTIONS MUST BE IDENTIFIED AND WIRING TO MATCH EQUIPMENT (LABELLED EQUIPMENT BRAND)

208-230V/1f Thermally Protected Motors

TO PUMP, DISCONNECT SW. BY OTHERS



USE COPPER CONDUCTORS ONLY!
CAUTION: THROWN ALL DISCONNECTS TO OFF BEFORE SERVICING.

CAUTION: ALL FIELD WIRING MUST BE WIRING AS SHOWN ON WIRING DIAGRAM.

1 REV'D. MOTOR CONDUCTORS	REV'D.	DATE	TITLE	CODE
REVISION			DUPLICATE PUMPSET	
			208-230V/1PH	

Power Flame Incorporated

2001 SOUTH 21st STREET
PARSONS, KANSAS 67357



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Parsons, KS 67357

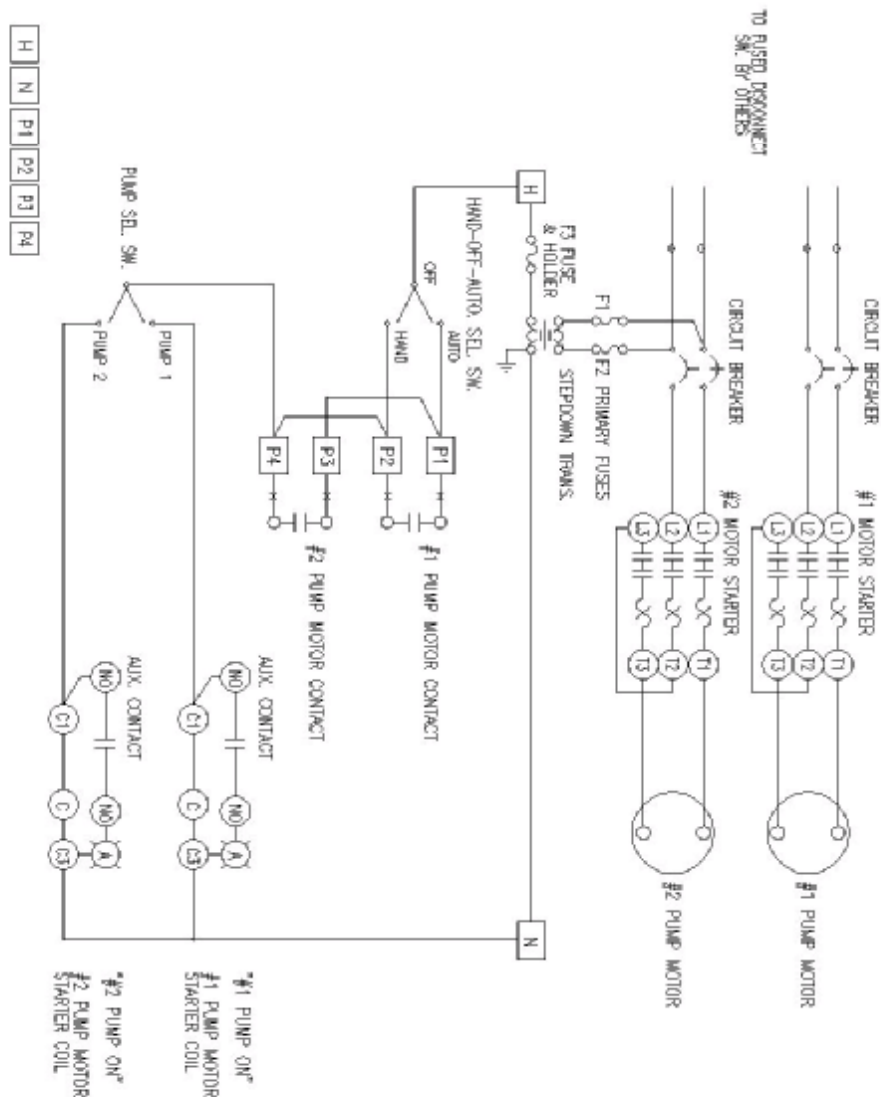
(620) 421-0480 TEL. (620) 421-0948 FAX
<http://www.powerflame.com>
csd@powerflame.com

208-230V/1f Thermally Unprotected Motors

CAUTION: THROW ALL DISCONNECTS TO OFF BEFORE SERVICING.

— G — EQUIPMENT GND. CONDUCTOR
— F — PLANE CIRCUIT: RUN IN SEPARATE
CONDUIT OR SHIELDED CABLE
— FACTORY WIRING
— 24V
— 115V } FEED WIRING
— 200- } NOT TO BE USED
— 575V } FOR VOLTAGE

EQUIPMENT SHOWN ON DISCGRAM IS ONLY PROVIDED AND MOUNTED BY POWER PLANT IF SPECIFICALLY CALLED FOR ON BLOWER SPEC. SHEET



CAUTION: ALL FIELD WIRING MUST
BE WIRED AS SHOWN ON
MIRAGE DIAGRAM.

[illegible]

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2001 S. 21st Street
Parsons, KS 67357

(620) 421-0480 TEL. (620) 421-0948 FAX
http://www.powerflame.com
csd@powerflame.com

208-230-460V/3f Motors



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