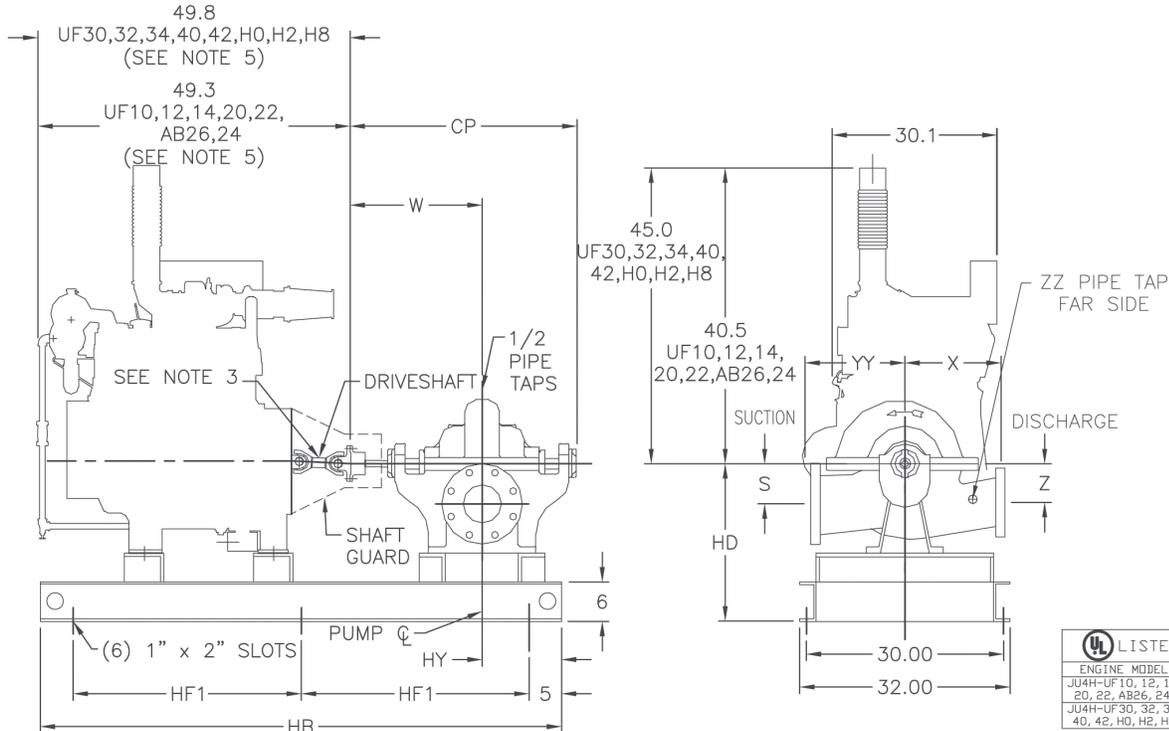
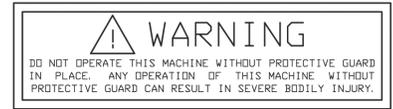


# FAIRBANKS NIJHUIS™ MODEL 1800

SINGLE-STAGE FIRE PUMPS  
CLARKE MODELS JU4H-UF10, UF12, UF14, UF20,  
UF22, UF24, UF34, UFH0, UFH2, UF40, UF42

Section **913** Page **201**  
Date **OCTOBER 2017**  
Supersedes **NOVEMBER 2013**



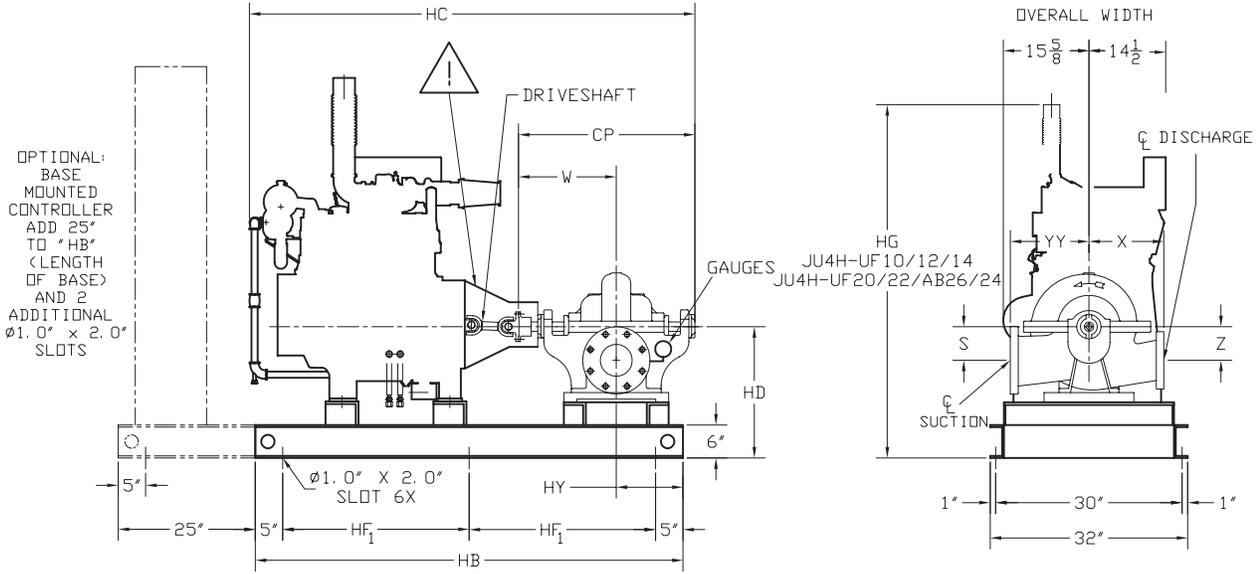
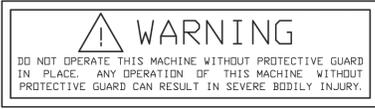
UL LISTED DRIVESHAFT	
ENGINE MODEL	DRIVESHAFT MODEL
JU4H-UF10, 12, 14, 20, 22, AB26, 24	CDS10-SC
JU4H-UF30, 32, 34, 40, 42, H0, H2, H8	CDS20-SC

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF1	HY
DISCH	MODEL	CASE BORE													
2-1/2	2.5"1823BF	10B	3	2	4	13-1/2	9-3/4	4	24	10	1-1/4	78	20	34	16-1/2
3	3"1824F	10	4	2	4-1/2	13-1/2	10	4-1/2	24	11	1-1/4	78	20	34	16-1/2
4	4"1823F	11A/C	5	3	5	14-1/2	11-1/4	5	26	12-3/4	1-1/4	78	20	34	15-1/2
4	4"1823F	11D	5	3	5	14-1/2	12	5	26	12-3/4	1-1/4	78	20	34	15-1/2
4	4"1824F	15	5	3	5-1/2	14-1/2	13	5-1/2	26	14	1-1/4	78	20	34	15-1/2
5	5"1822F	11	6	4	5-1/2	16	11-1/4	5-1/2	28-1/2	13-1/4	1-1/4	78	20	34	14
5	5"1823F/AF	15	6	4	6-1/4	16	13-1/4	6-1/4	28-1/2	15	1-1/4	78	20	34	14
5	5"1824F	17	6	4	6-1/4	16	14	6-1/4	28-1/2	15	1-1/4	78	20	34	14
6	6"1822F	11	8	4	6-1/4	16	11-3/4	6-1/4	28-1/2	14-1/2	1-1/4	78	21	34	14
6	6"1822HHF	11HH	8	-	8-5/8	18-1/8	10	8-5/8	32-7/8	15	1-1/4	78	23	34	11-7/8
6	6"1823HHF	14HH	8	-	7-1/2	20-7/16	15	7-1/2	36-3/4	17	1-1/4	88	23	39	19-9/16
6	6"1823F	15	8	5	6-3/4	18	14-1/4	6-3/4	32	16-3/4	1-1/4	78	21	34	12
6	6"1824F	18	8	5	8	18	16	8	32	18	1-1/4	78	22	34	12
6	6"1825F	20	8	5	8	18	15-3/4	8	32	18	1-1/4	78	22	34	12
8	8"1822F	12	10	5	8	18	17	9	32	17-3/4	1-1/4	78	24	34	12
8	8"1824F	17	10	5	8	18	17	8	32	17-3/4	2	78	24	34	12

**NOTES:**

- All dimensions are in inches and may vary  $\pm 3/8"$ .
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of  $0.25 \pm 0.08$  inches vertically above the pump shaft and  $0.00 \pm 0.08$  inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
- Pump suction and discharge flanges are ANSI Standard flat face.
- Refer to individual engine dimension print for reference point used to determine engine overall length.
- Left-hand (counterclockwise) rotation is not available.

**FAIRBANKS NIJHUIS™**  
**MODELS 2800, 5800**  
 SINGLE-STAGE HSC FIRE PUMPS  
 CLARKE MODELS JU4H-UF10,UF12,UF14,  
 UF20, UF22, AB26, AB24



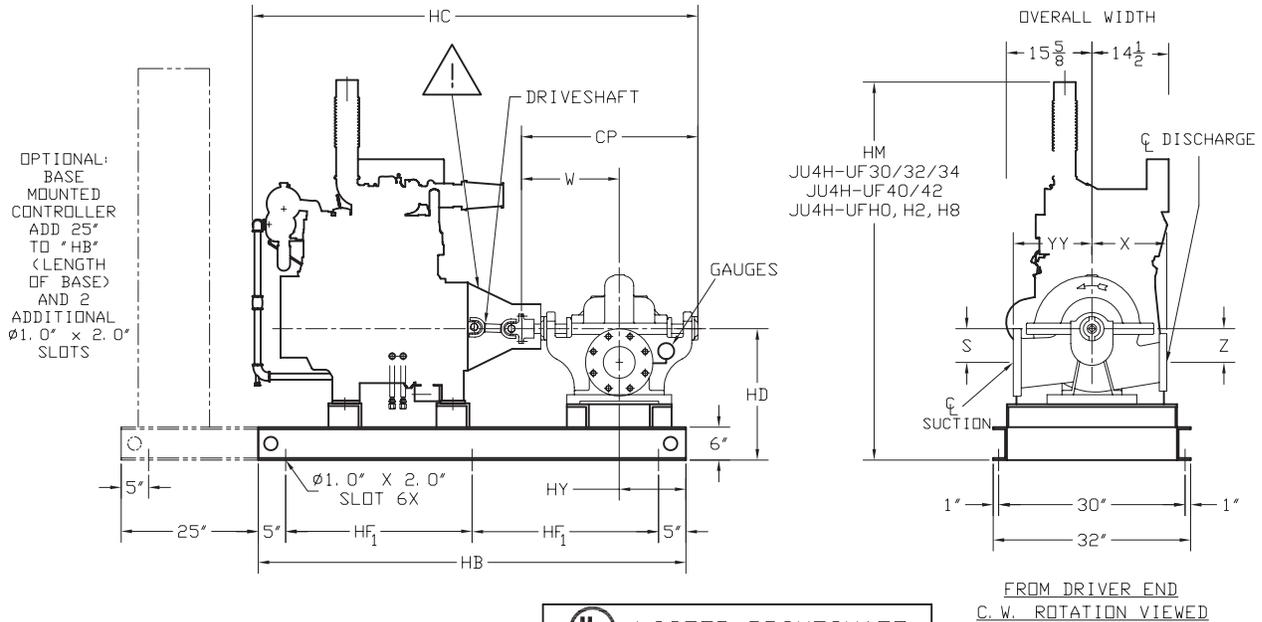
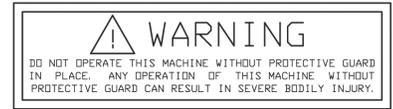
LISTED DRIVESHAFT	
ENGINE MODEL	DRIVESHAFT MODEL
JU4H-UF10, 12, 14, 20, 22, AB26, 24	CDS10-SC

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HC	HD	HF1	HG	HY	YY
DISCH	MODEL	CASE BORE														
3	3*2874F	9	5	-	6-1/8	14-5/8	11	6-1/8	25-15/16	78	75-1/8	20	34	60-7/8	15-3/8	12
4	4*2823F	14	6	-	6-7/8	17-5/8	13	8-3/8	31-11/16	88	80-7/8	20	39	60-7/8	22-3/8	15-1/4
4	4*2873F	8	6	-	5-3/4	14-5/8	10	5-1/2	25-15/16	78	75-1/8	20	34	60-7/8	15-3/8	11-1/4
4	4*2876F	11	6	-	6-7/8	16-5/8	11-1/4	7-1/8	29-11/16	78	78-7/8	21	34	61-7/8	13-3/8	14
4	4*5823F	14	5	-	7-3/8	18-3/8	13-1/2	7-3/8	33-3/16	78	82-3/8	20	34	60-7/8	11-5/8	14
4	4*5824F	18	5	-	9-1/2	18-3/8	14	9-1/2	33-1/4	88	82-7/16	22	39	62-7/8	21-5/8	14
4	4*5876F	10	6	-	6-1/2	16-7/8	10-1/4	6-1/2	29-13/16	78	79	20	34	60-7/8	13-1/8	11
5	5*2823F	14	8	-	8-1/4	17-5/8	13-1/2	9-3/4	31-11/16	88	80-7/8	23	39	63-7/8	22-3/8	17-1/4
5	5*5824F	18	8	-	8-1/8	18-7/8	15	10-5/8	33-3/8	88	82-9/16	23	39	63-7/8	21-1/8	18-3/4
5	5*5876F	10	8	-	8	20	12-1/2	7	35-1/2	88	84-11/16	23	39	63-7/8	20	13
6	6*2823F	14	10	-	9-3/8	20-1/8	13-1/4	10	35-7/8	88	85-1/16	25	39	65-7/8	19-7/8	18
6	6*2876F	12	10	-	6-7/8	16-5/8	20-1/2	7-1/8	29-11/16	78	78-7/8	23	34	63-7/8	13-3/8	14
6	6*5823F	15	8	-	8-3/4	22-1/2	15-1/2	8-3/4	40-1/4	88	89-7/16	23	39	63-7/8	17-1/2	15
6	6*5876F	10	10	-	9	20-5/8	13	7-1/2	36-3/4	88	85-15/16	25	39	65-7/8	19-3/8	15
8	8*2823F	14	12	-	10-3/4	20-1/2	16	10-3/4	36-5/8	88	85-3/4	28	39	68-7/8	19-1/2	22

- NOTES:
1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
  2. Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
  3. All bases are required to be completely filled with grout.
  4. Unit installation and final driveshaft alignment must be done by the installing contractor.

CAUTION:  
 The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of 0.25"±0.09 inches vertically above the pump shaft and 0.00"±0.09 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

**FAIRBANKS NIJHUIS™**  
**MODELS 2800, 5800**  
 SINGLE-STAGE HSC FIRE PUMPS  
 CLARKE MODELS JU4H-UF30, UF32, UF34  
 UF40, UF42, JU4H-UFH0, UFH2, UFH8



	LISTED DRIVESHAFT
ENGINE MODEL	DRIVESHAFT MODEL
JU4H-UF30, 32, 34, 40, 42, H0, H2, H8	CDS20-SC

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HC	HD	HF1	HM	HY	YY
DISCH	MODEL	CASE BORE														
3	3"2874F	9	5	-	6-1/8	14-5/8	11	6-1/8	25-15/16	78	78-5/8	20	34	65-3/8	15-3/8	12
4	4"2823F	14	6	-	6-7/8	17-5/8	13	8-3/8	31-11/16	88	81-3/8	20	39	65-3/8	22-3/8	15-1/4
4	4"2873F	8	6	-	5-3/4	14-5/8	10	5-1/2	25-15/16	78	75-5/8	20	34	65-3/8	15-3/8	11-1/4
4	4"2876F	11	6	-	6-7/8	16-5/8	11-1/4	7-1/8	29-11/16	78	79-3/8	21	34	66-3/8	13-3/8	14
4	4"5823F	14	5	-	7-3/8	18-3/8	13-1/2	7-3/8	33-3/16	78	82-7/8	20	34	65-3/8	11-5/8	14
4	4"5824F	18	5	-	9-1/2	18-3/8	14	9-1/2	33-1/4	88	82-15/16	22	39	67-3/8	21-5/8	14
4	4"5876F	10	6	-	6-1/2	16-7/8	10-1/4	6-1/2	29-13/16	78	79-1/2	20	34	65-3/8	13-1/8	11
5	5"2823F	14	8	-	8-1/4	17-5/8	13-1/2	9-3/4	31-11/16	88	81-3/8	23	39	68-3/8	22-3/8	17-1/4
5	5"2824	18	8	-	8-1/8	18-7/8	15	10-5/8	33-3/8	88	83-1/16	23	39	68-3/8	21-1/8	18-3/4
5	5"5876F	10	8	-	8	20	12-1/2	7	35-1/2	88	85-3/16	23	39	68-3/8	20	13
6	6"2823F	14	10	-	9-3/8	20-1/8	13-1/4	10	35-7/8	88	85-9/16	25	39	70-3/8	19-7/8	18
6	6"2876F	12	10	-	6-7/8	16-5/8	20-1/2	7-1/8	29-11/16	78	79-3/8	23	34	68-3/8	13-3/8	14
6	6"5823F	15	8	-	8-3/4	22-1/2	15-1/2	8-3/4	40-1/4	88	89-15/16	23	39	68-3/8	17-1/2	15
6	6"5876F	10	10	-	9	20-5/8	13	7-1/2	36-3/4	88	86-7/16	25	39	70-3/8	19-3/8	15
8	8"2823F	14	12	-	10-3/4	20-1/2	16	10-3/4	36-5/8	88	86-1/4	28	39	73-3/8	19-1/2	22

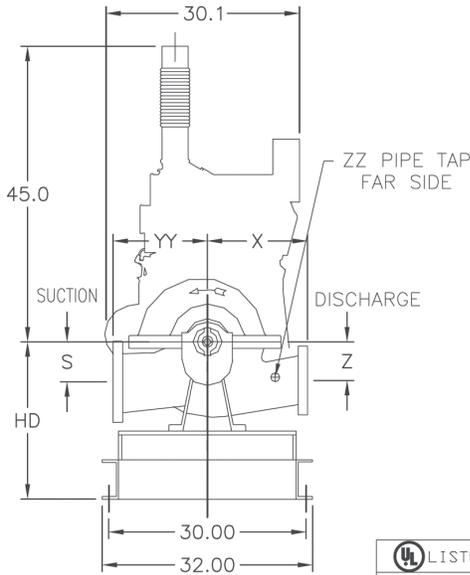
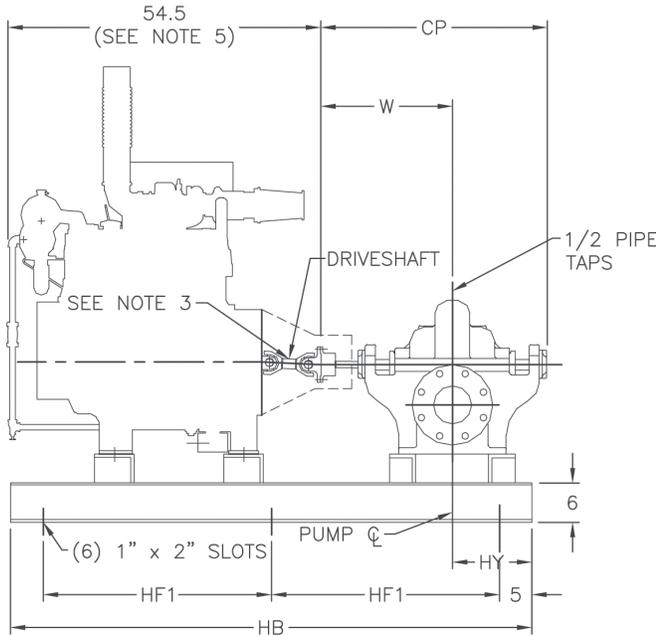
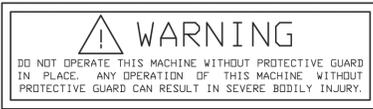
**NOTES:**

- Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
- Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
- All bases are required to be completely filled with grout.
- Unit installation and final driveshaft alignment must be done by the installing contractor.

**CAUTION:**

The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of 0.25" ± 0.08 inches vertically above the pump shaft and 0.00" ± 0.08 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

**FAIRBANKS NIJHUIS™**  
**MODEL 1800**  
 SINGLE-STAGE FIRE PUMPS  
 CLARKE MODELS JU4H-UF50, UF52,  
 UF54, UF58



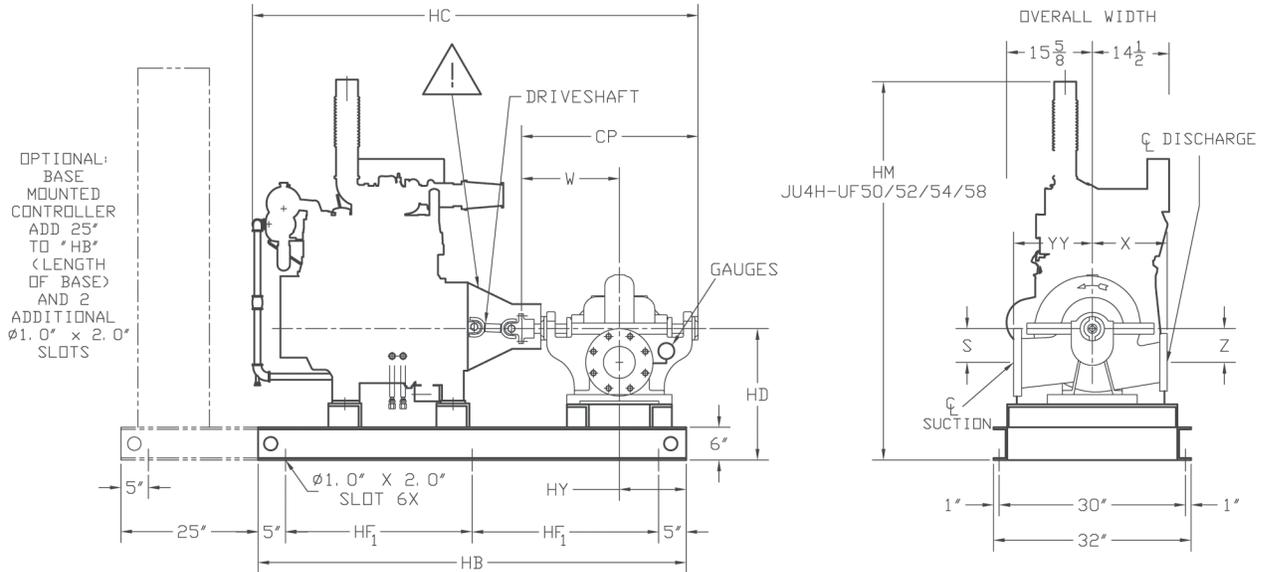
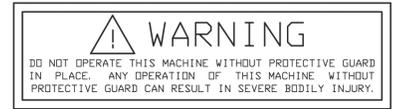
	LISTED DRIVESHAFT	
	ENGINE MODEL JU4H-UF50, 52, 54, 58	DRIVESHAFT MODEL CDS30-S1

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF1	HY
DISCH	MODEL	CASE BORE													
2-1/2	2.5"1823BF	10B	3	2	4	13-1/2	9-3/4	4	24	10	1-1/4	78	20	34	16-1/2
3	3"1824F	10	4	2	4-1/2	13-1/2	10	4-1/2	24	11	1-1/4	78	20	34	16-1/2
4	4"1823F	11/A/C	5	3	5	14-1/2	11-1/4	5	26	12-3/4	1-1/4	78	20	34	15-1/2
4	4"1823F	11D	5	3	5	14-1/2	12	5	26	12-3/4	1-1/4	78	20	34	15-1/2
4	4"1824F	15	5	3	5-1/2	14-1/2	13	5-1/2	26	14	1-1/4	78	20	34	15-1/2
5	5"1822F	11	6	4	5-1/2	16	11-1/4	5-1/2	28-1/2	13-1/4	1-1/4	78	20	34	14
5	5"1823F/AF	15	6	4	6-1/4	16	13-1/4	6-1/4	28-1/2	15	1-1/4	78	20	34	14
5	5"1824F	17	6	4	6-1/4	16	14	6-1/4	28-1/2	15	1-1/4	78	20	34	14
6	6"1822F	11	8	4	6-1/4	16	11-3/4	6-1/4	28-1/2	14-1/2	1-1/4	78	21	34	14
6	6"1822HHF	11HH	8	-	8-5/8	18-1/8	10	8-5/8	32-7/8	15	1-1/4	78	23	34	11-7/8
6	6"1823HHF	14HH	8	-	7-1/2	20-7/16	15	7-1/2	36-3/4	17	1-1/4	88	23	39	19-9/16
6	6"1823F	15	8	5	6-3/4	18	14-1/4	6-3/4	32	16-3/4	1-1/4	78	21	34	12
6	6"1824F	18	8	5	8	18	16	8	32	18	1-1/4	78	22	34	12
6	6"1825F	20	8	5	8	18	15-3/4	8	32	18	1-1/4	78	22	34	12
8	8"1822F	12	10	5	8	18	17	9	32	17-3/4	1-1/4	78	24	34	12
8	8"1824F	17	10	5	8	18	17	8	32	17-3/4	2	78	24	34	12

NOTES:

- All dimensions are in inches and may vary  $\pm 3/8"$ .
- Not for construction purposes, unless certified.
- Cauton: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of  $0.35" \pm 0.10$  inches vertically above the pump shaft and  $0.00" \pm 0.10$  inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
- Pump suction and discharge flanges are ANSI Standard flat face.
- Refer to individual engine dimension print for reference point used to determine engine overall length.
- Left-hand (counterclockwise) rotation is not available.

**FAIRBANKS NIJHUIS™**  
**MODELS 2800, 5800**  
 SINGLE-STAGE HSC FIRE PUMPS  
 CLARKE MODELS JU4H-UF50, UF52,  
 UF54, UF58



OPTIONAL:  
 BASE MOUNTED  
 CONTROLLER  
 ADD 25"  
 TO "HB"  
 (LENGTH OF BASE)  
 AND 2  
 ADDITIONAL  
 Ø1.0" x 2.0"  
 SLOTS

	LISTED DRIVESHAFT
ENGINE MODEL	DRIVESHAFT MODEL
JU4H-UF50, -UF52, 54, 58	CDS10-S1

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HC	HD	HF1	HM	HY	YY
DISCH	MODEL	CASE BORE														
3	3"2874F	9	5	-	6-1/8	14-5/8	11	6-1/8	25-15/16	78	80-3/8	20	34	65-3/8	15-3/8	12
4	4"2823F	14	6	-	6-7/8	17-5/8	13	8-3/8	31-11/16	88	86-1/8	20	39	65-3/8	22-3/8	15-1/4
4	4"2873F	8	6	-	5-3/4	14-5/8	10	5-1/2	25-15/16	78	80-3/8	20	34	65-3/8	15-3/8	11-1/4
4	4"2876F	11	6	-	6-7/8	16-5/8	11-1/4	7-1/8	29-11/16	78	84-1/8	21	34	66-3/8	13-3/8	14
4	4"5823F	14	5	-	7-3/8	18-3/8	13-1/2	7-3/8	33-3/16	78	87-5/8	20	34	65-3/8	11-5/8	14
4	4"5824F	18	5	-	9-1/2	18-3/8	14	9-1/2	33-1/4	88	87-11/16	22	39	67-3/8	21-5/8	14
4	4"5876F	10	6	-	6-1/2	16-7/8	10-1/4	6-1/2	29-13/16	78	84-1/4	20	34	65-3/8	13-1/8	11
5	5"2823F	14	8	-	8-1/4	17-5/8	13-1/2	9-3/4	31-11/16	88	86-1/8	23	39	68-3/8	22-3/8	17-1/4
5	5"2824F	18	8	-	8-1/8	18-7/8	15	10-5/8	33-3/8	88	87-13/16	23	39	68-3/8	21-1/8	18-3/4
5	5"5876F	10	8	-	8	20	12-1/2	7	35-1/2	88	89-15/16	23	39	68-3/8	20	13
6	6"2823F	14	10	-	9-3/8	20-1/8	13-1/4	10	35-7/8	88	90-5/16	25	39	70-3/8	19-7/8	18
6	6"2876F	12	10	-	6-7/8	16-5/8	20-1/2	7-1/8	29-11/16	78	84-1/8	23	34	68-3/8	13-3/8	14
6	6"5823F	15	8	-	8-3/4	22-1/2	15-1/2	8-3/4	40-1/4	88	94-11/16	23	39	68-3/8	17-1/2	15
6	6"5876F	10	10	-	9	20-5/8	13	7-1/2	36-3/4	88	91-3/16	25	39	70-3/8	19-3/8	15
8	8"2823	14	12	-	10-3/4	20-1/2	16	10-3/4	36-5/8	88	91	28	39	73-3/8	19-1/2	22

**NOTES:**

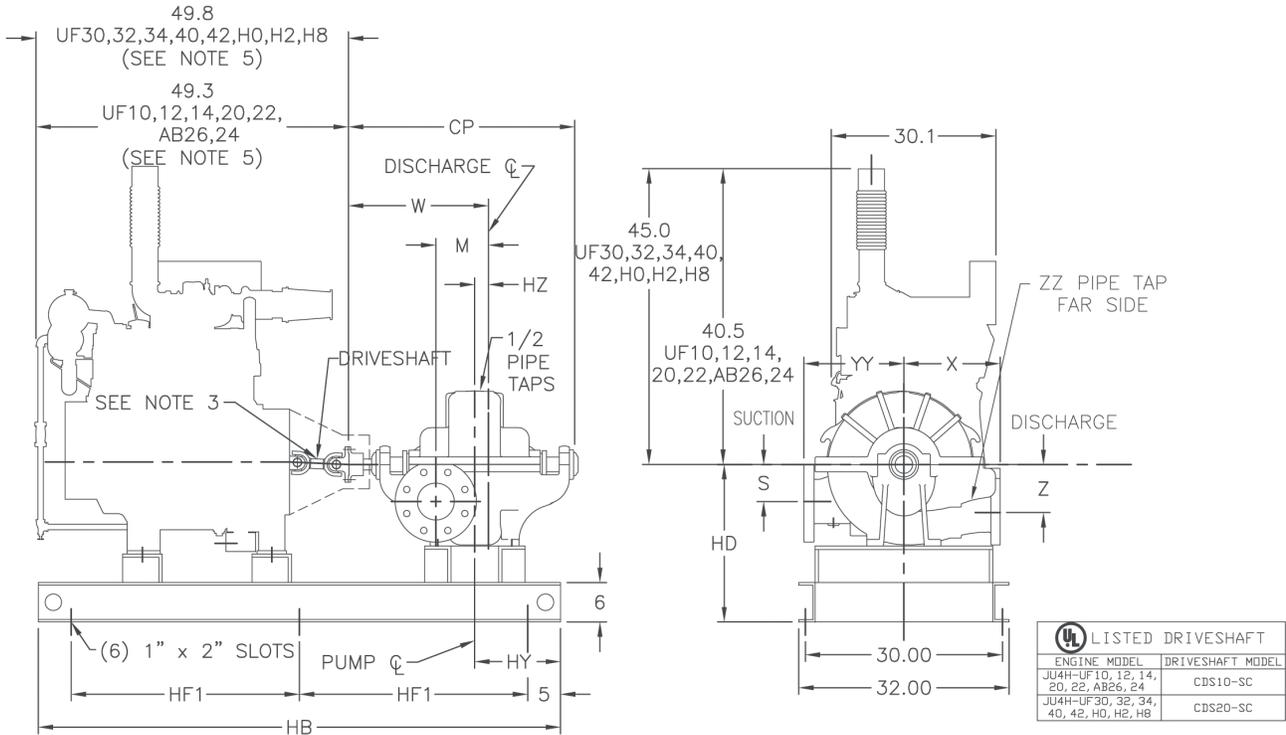
1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
2. Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
3. All bases are required to be completely filled with grout.
4. Unit installation and final driveshaft alignment must be done by the installing contractor.

**CAUTION:**

The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of 0.35"± 0.10 inches vertically above the pump shaft and 0.00"± 0.10 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

**FAIRBANKS NIJHUIS™**  
**MODEL 1900**

**TWO-STAGE FIRE PUMPS**  
**CLARKE MODELS JU4H-UF10, UF12, UF14, UF20,**  
**UF22, UFAB26, UF24, UF30, UF32, UF34,**  
**UFH8, UFH0, UFH2, UF40, UF42**



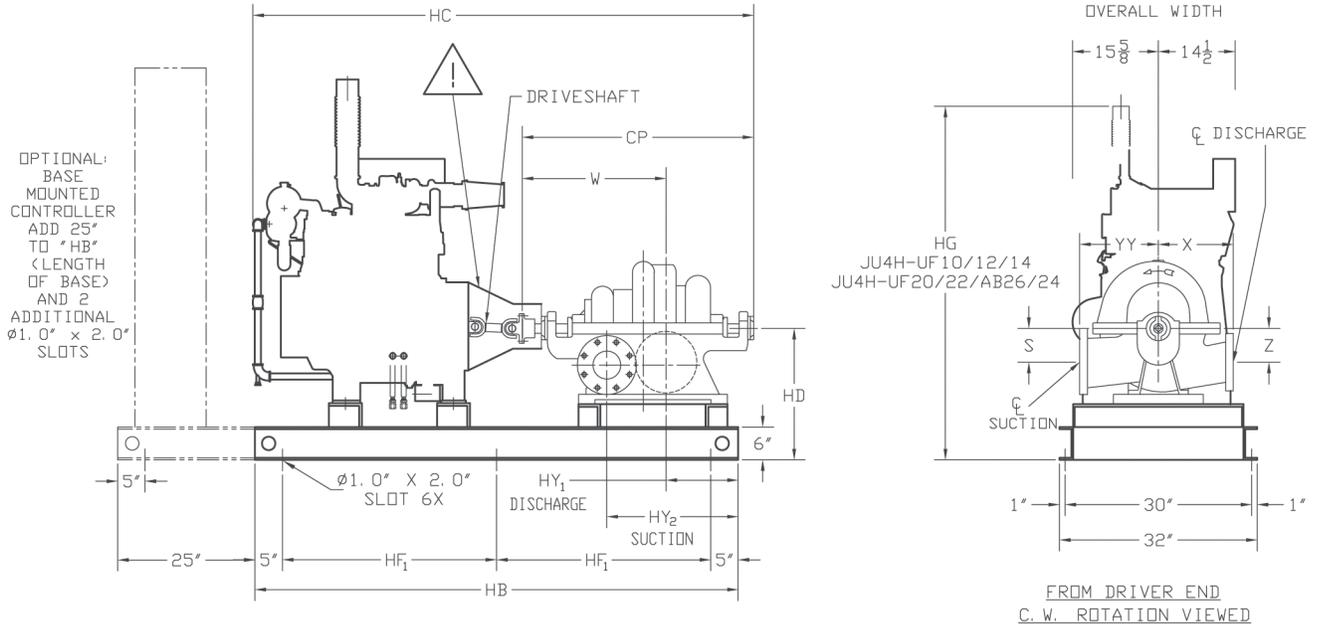
PUMP SIZE			SUCTION	POWER SERIES	M	S	W	X	Z	CP	YY	HZ	HB	HD	HF1	HY	ZZ
DISCH	MODEL	CASE BORE															
4	4"1922F	15	5	3	7.13	5	18.88	13	6.5	31	13.5	1.88	78	20	34	13	1.25
5	5"1924F	12	5	4A	6.63	7	20.88	13	7	35.38	13	1.38	88	20	39	20.5	1.25
5	5"1922F	15	6	5	7.13	5.5	21.13	15	7.5	34.5	15.44	2.13	78	20	34	11	1.25
6	6"1922AF	17A	8	5	11	7	24.5	16	9	38	16.5	3.5	88	22	39	19	1.25

**NOTES:**

1. All dimensions are in inches and may vary  $\pm 3/8"$ .
2. Not for construction purposes, unless certified.
3. Caution: The driveshaft is designed to operate at a  $2^\circ$  angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of  $0.25" \pm 0.08$  inches vertically above the pump shaft and  $0.00" \pm 0.08$  inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
4. Pump suction and discharge flanges are ANSI Standard flat face.
5. Refer to individual engine dimension print for reference point used to determine engine overall length.
6. Left-hand (counterclockwise) rotation is not available.

# FAIRBANKS NIJHUIS™ MODEL 5900

## MULTI-STAGE HSC FIRE PUMPS CLARKE MODELS JU4H-UF10, UF12, UF14 UF20, UF22, AB26, AB24



<b>UL LISTED DRIVESHAFT</b>	
ENGINE MODEL	DRIVESHAFT MODEL
JU4H-UF10, 12, 14, 20, 22, AB26, 24	CDS10-SC

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HC	HD	HF1	HG	HY	YY
DISCH	MODEL	CASE BORE														
5	5"5922F	15	6	-	9	28-3/8	15	9	46-7/8	98	96-1/16	23	44	63-7/8	32-5/8	15
6	6"5922F	17	8	-	10-1/2	31-5/8	16-1/2	10-1/2	52-1/2	98	101-11/16	25	44	65-7/8	31-3/8	16-1/2

**NOTES:**

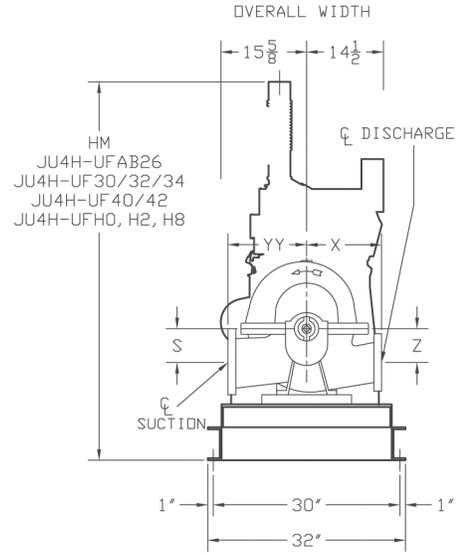
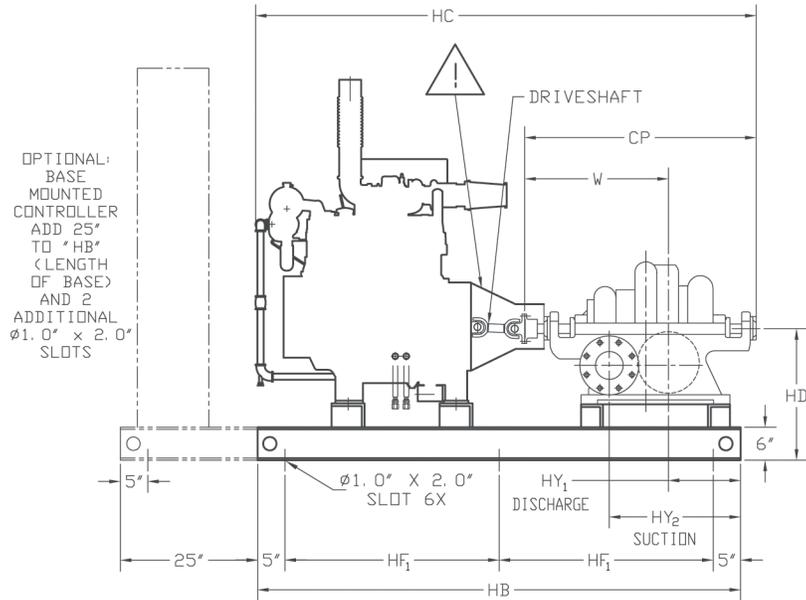
1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
2. Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
3. All bases are required to be completely filled with grout.
4. Unit installation and final driveshaft alignment must be done by the installing contractor.

**CAUTION:**

The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of 0.25"±0.09 inches vertically above the pump shaft and 0.00"±0.09 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

**FAIRBANKS NIJHUIS™**  
**MODEL 5900**  
 MULTI-STAGE HSC FIRE PUMPS  
 CLARKE MODELS JU4H-UF30, UF32, UF34  
 UF40, UF42, UFH0, UFH2, UFH8

**WARNING**  
 DO NOT OPERATE THIS MACHINE WITHOUT PROTECTIVE GUARD IN PLACE. ANY OPERATION OF THIS MACHINE WITHOUT PROTECTIVE GUARD CAN RESULT IN SEVERE BODILY INJURY.



FROM DRIVER END  
 C. W. ROTATION VIEWED

<b>UL LISTED DRIVESHAFT</b>	
ENGINE MODEL	DRIVESHAFT MODEL
JU4H-UF30, 32, 34, 40, 42, H0, H2, H8	CDS20-SC

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HC	HD	HF1	HM	HY	YY
DISCH	MODEL	CASE BORE														
5	5"5922F	15	6	-	9	28-3/8	15	9	46-7/8	98	96-3/8	23	44	68-3/8	32-5/8	15
6	6"5922F	17	8	-	10-1/2	31-5/8	16-1/2	10-1/2	52-1/2	98	102-3/16	25	44	70-3/8	31-3/8	16-1/2

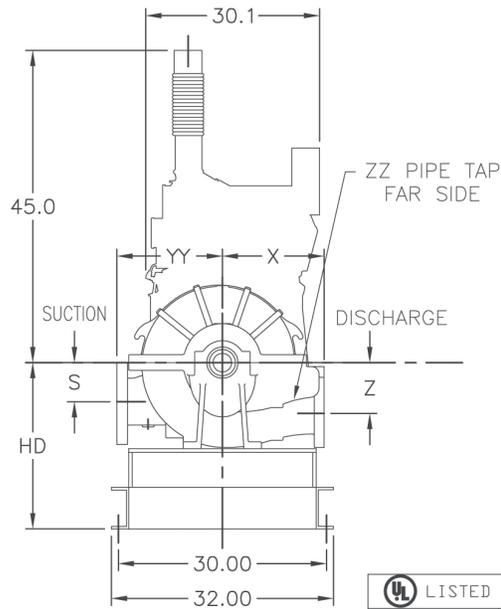
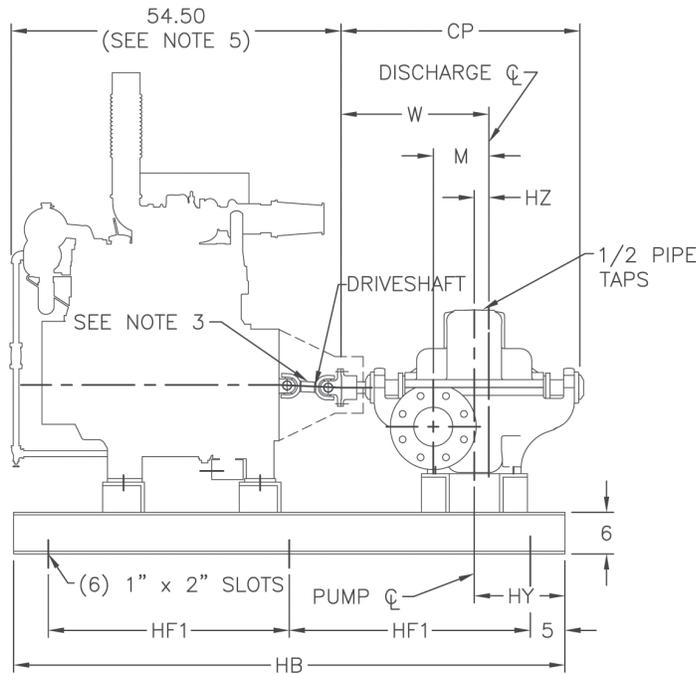
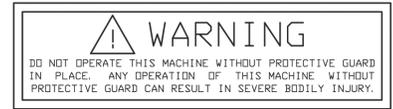
- NOTES:
1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
  2. Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
  3. All bases are required to be completely filled with grout.
  4. Unit installation and final driveshaft alignment must be done by the installing contractor.

CAUTION:  
 The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of 0.25" ± 0.08 inches vertically above the pump shaft and 0.00" ± 0.08 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

# FAIRBANKS NIJHUIS™ MODEL 1900

## TWO-STAGE FIRE PUMPS CLARKE MODELS JU4H-UF50, UF52, UF54, UF58

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Date **NOVEMBER 2013**



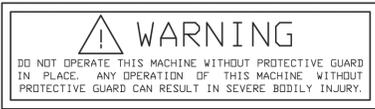
LISTED DRIVESHAFT	
ENGINE MODEL	DRIVESHAFT MODEL
JU4H-UF50, 52, 54, 58	CDS30-S1

PUMP SIZE			SUCTION	POWER SERIES	M	S	W	X	Z	CP	YY	HZ	HB	HD	HF1	HY	ZZ
DISCH	MODEL	CASE BORE															
4	4"1922F	15	5	3	7.13	5	18.88	13	6.5	31	13.5	1.88	78	20	34	13	1.25
5	5"1924F	12	5	4A	6.63	7	20.88	13	7	35.38	13	1.38	88	20	39	20.5	1.25
5	5"1922F	15	6	5	7.13	5.5	21.13	15	7.5	34.5	15.44	2.13	78	20	34	11	1.25
6	6"1922AF	17A	8	5	11	7	24.5	16	9	38	16.5	3.5	88	22	39	19	1.25

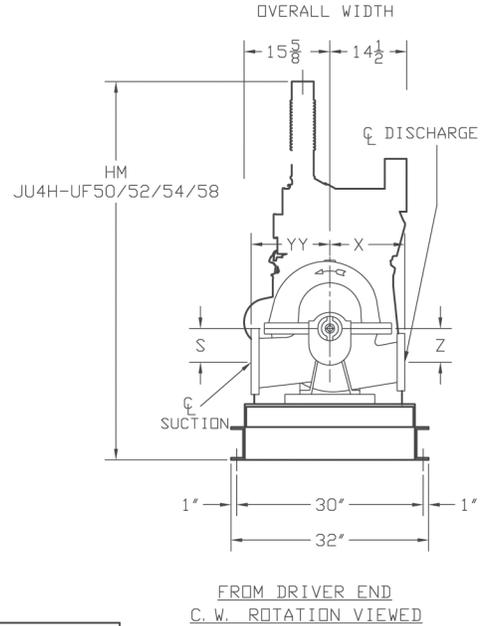
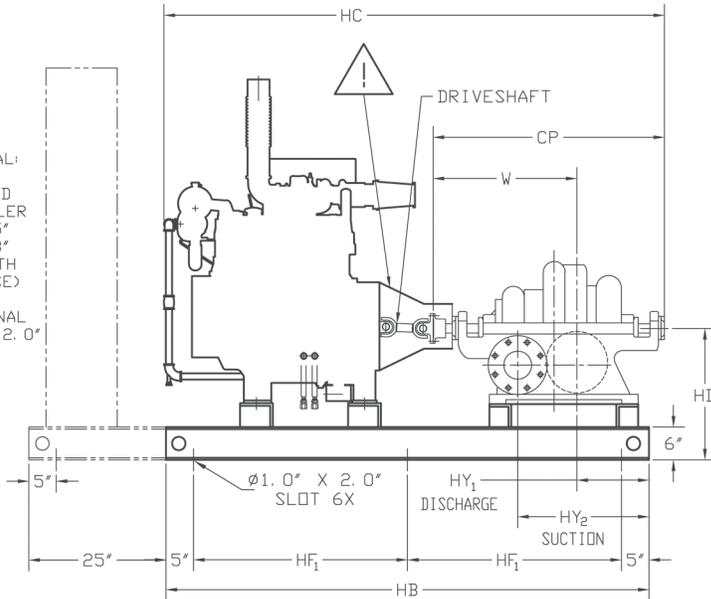
**NOTES:**

- All dimensions are in inches and may vary  $\pm 3/8"$ .
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a  $2^\circ$  angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of  $0.35" \pm 0.10$  inches vertically above the pump shaft and  $0.00" \pm 0.10$  inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
- Pump suction and discharge flanges are ANSI Standard flat face.
- Refer to individual engine dimension print for reference point used to determine engine overall length.
- Left-hand (counterclockwise) rotation is not available.

**FAIRBANKS NIJHUIS™**  
**MODEL 5900**  
 MULTI-STAGE HSC FIRE PUMPS  
 CLARKE MODELS JU4H-UF50, UF52,  
 UF54, UF58



OPTIONAL:  
 BASE  
 MOUNTED  
 CONTROLLER  
 ADD 25"  
 TO "HB"  
 (LENGTH  
 OF BASE)  
 AND 2  
 ADDITIONAL  
 Ø1.0" x 2.0"  
 SLOTS



	LISTED DRIVESHAFT	
	ENGINE MODEL	DRIVESHAFT MODEL
	JU4H-UF50, 52, 54, 58	CDS30-S1

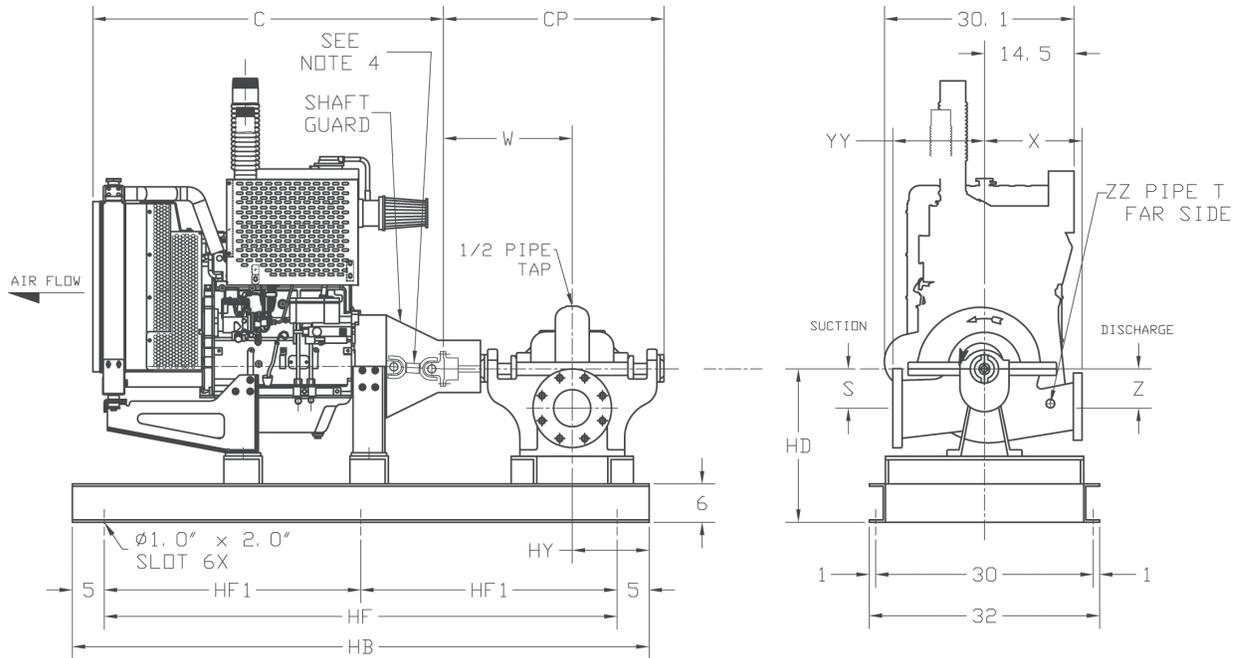
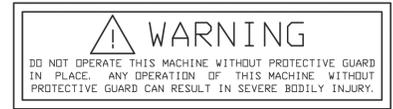
PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HC	HD	HF1	HM	HY	YY
DISCH	MODEL	CASE BORE														
5	5"5922F	15	6	-	9	28-3/8	15	9	46-7/8	98	101-5/16	23	44	68-1/2	32-5/8	15
6	6"5922F	17	8	-	10-1/2	31-5/8	16-1/2	10-1/2	52-1/2	98	106-15/16	25	44	70-1/2	31-3/8	16-1/2

- NOTES:**
- Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
  - Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
  - All bases are required to be completely filled with grout.
  - Unit installation and final driveshaft alignment must be done by the installing contractor.

**CAUTION:**  
 The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of 0.35" ± 0.10 inches vertically above the pump shaft and 0.00" ± 0.10 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

**FAIRBANKS NIJHUIS™**  
**MODEL 1800**  
 SINGLE-STAGE FIRE PUMPS  
 CLARKE MODELS JU4R-UF09, UF11,  
 UF13, UF19, UF21, UF23

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 Date **OCTOBER 2017**  
 Supersedes **NOVEMBER 2013**



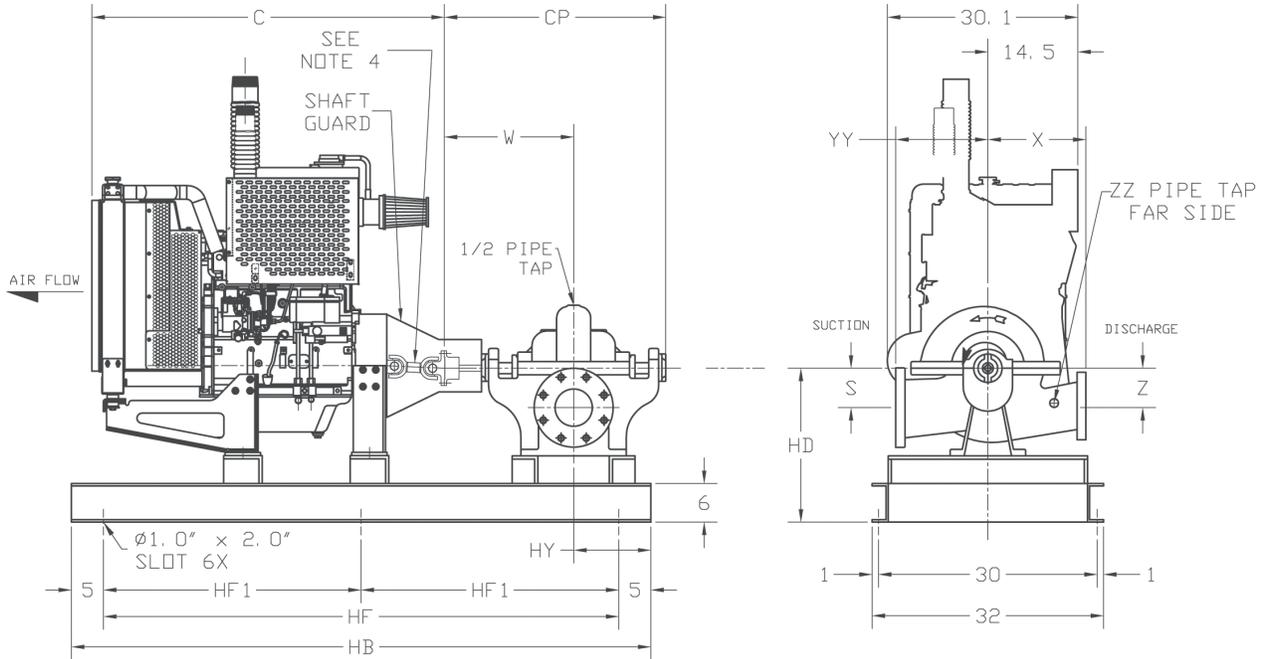
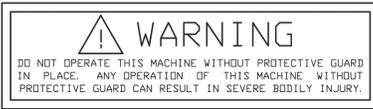
ENGINE MODEL	C	UL LISTED DRIVESHAFTS
JU4R-UF09, -UF11, -UF13, -UF19, -UF21, -UF23	54.75	CDS10-SC
JU4R-UF40	55.75	CDS20-SC

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF	HF1	HY
DISCH	MODEL	CASE BORE														
2-1/2	2.5"1823BF	10B	3	2	4	13-1/2	9-3/4	4	24	10	1-1/4	88	20	78	39	16-1/2
3	3"1824F	10	4	2	4-1/2	13-1/2	10	4-1/2	24	11	1-1/4	88	20	78	39	16-1/2
4	4"1823F	11/A/C	5	3	5	14-1/2	11-1/4	5	26	12-3/4	1-1/4	88	20	78	39	15-1/2
4	4"1823F	11D	5	3	5	14-1/2	12	5	26	12-3/4	1-1/4	88	20	78	39	15-1/2
4	4"1824F	15	5	3	5-1/2	14-1/2	13	5-1/2	26	14	1-1/4	88	20	78	39	15-1/2
5	5"1822F	11	6	4	5-1/2	16	11-1/4	5-1/2	28-1/2	13-1/4	1-1/4	88	20	78	39	14
5	5"1823F/AF	15	6	4	6-1/4	16	13-1/4	6-1/4	28-1/2	15	1-1/4	88	20	78	39	14
5	5"1824F	17	6	4	6-1/4	16	14	6-1/4	28-1/2	15	1-1/4	88	20	78	39	14
6	6"1822F	11	8	4	6-1/4	16	11-3/4	6-1/4	28-1/2	14-1/2	1-1/4	88	21	78	39	14
6	6"1822HHF	11HH	8	-	8-5/8	18-1/8	10	8-5/8	32-7/8	15	1-1/4	88	23	78	39	11-7/8
6	6"1823HHF	14HH	8	-	7-1/2	20-7/16	15	7-1/2	36-3/4	17	1-1/4	98	23	88	44	19-9/16
6	6"1823F	15	8	5	6-3/4	18	14-1/4	6-3/4	32	16-3/4	1-1/4	88	21	78	39	12
6	6"1824F	18	8	5	8	18	16	8	32	18	1-1/4	88	22	78	39	12
6	6"1825F	20	8	5	8	18	15-3/4	8	32	18	1-1/4	88	22	78	39	12
8	8"1822F	12	10	5	8	18	17	9	32	17-3/4	1-1/4	88	24	78	39	12
8	8"1824F	17	10	5	8	18	17	8	32	17-3/4	2	88	24	78	39	12

**NOTES:**

- All dimensions are in inches.
- Dimensions may vary  $\pm 3/8"$ .
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of  $0.25" \pm 0.08$  inches vertically above the pump shaft and  $0.00" \pm 0.08$  inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
- Pump suction and discharge flanges are ANSI Standard flat face.
- Refer to individual engine dimension print for reference point used to determine "C" dimension.
- Left-hand (counterclockwise) rotation is not available.

# FAIRBANKS NIJHUIS™ MODEL 1800 SINGLE-STAGE FIRE PUMPS CLARKE MODELS JU4R-UF49, UF51, UF53



ENGINE MODEL	C	UL LISTED DRIVESHAFTS
JU4R-UF49, -UF51, -UF53	60.00	CDS30-S1

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF	HF1	HY
DISCH	MODEL	CASE BORE														
2-1/2	2.5"1823BF	10B	3	2	4	13-1/2	9-3/4	4	24	10	1-1/4	88	20	78	39	16-1/2
3	3"1824F	10	4	2	4-1/2	13-1/2	10	4-1/2	24	11	1-1/4	88	20	78	39	16-1/2
4	4"1823F	11/A/C	5	3	5	14-1/2	11-1/4	5	26	12-3/4	1-1/4	88	20	78	39	15-1/2
4	4"1823F	11D	5	3	5	14-1/2	12	5	26	12-3/4	1-1/4	88	20	78	39	15-1/2
4	4"1824F	15	5	3	5-1/2	14-1/2	13	5-1/2	26	14	1-1/4	88	20	78	39	15-1/2
5	5"1822F	11	6	4	5-1/2	16	11-1/4	5-1/2	28-1/2	13-1/4	1-1/4	88	20	78	39	14
5	5"1823F/AF	15	6	4	6-1/4	16	13-1/4	6-1/4	28-1/2	15	1-1/4	88	20	78	39	14
5	5"1824F	17	6	4	6-1/4	16	14	6-1/4	28-1/2	15	1-1/4	88	20	78	39	14
6	6"1822F	11	8	4	6-1/4	16	11-3/4	6-1/4	28-1/2	14-1/2	1-1/4	88	21	78	39	14
6	6"1822HHF	11HH	8	-	8-5/8	18-1/8	10	8-5/8	32-7/8	15	1-1/4	88	23	78	39	11-7/8
6	6"1823HHF	14HH	8	-	7-1/2	20-7/16	15	7-1/2	36-3/4	17	1-1/4	98	23	88	44	19-9/16
6	6"1823F	15	8	5	6-3/4	18	14-1/4	6-3/4	32	16-3/4	1-1/4	88	21	78	39	12
6	6"1824F	18	8	5	8	18	16	8	32	18	1-1/4	88	22	78	39	12
6	6"1825F	20	8	5	8	18	15-3/4	8	32	18	1-1/4	88	22	78	39	12
8	8"1822F	12	10	5	8	18	17	9	32	17-3/4	1-1/4	88	24	78	39	12
8	8"1824F	17	10	5	8	18	17	8	32	17-3/4	2	88	24	78	39	12

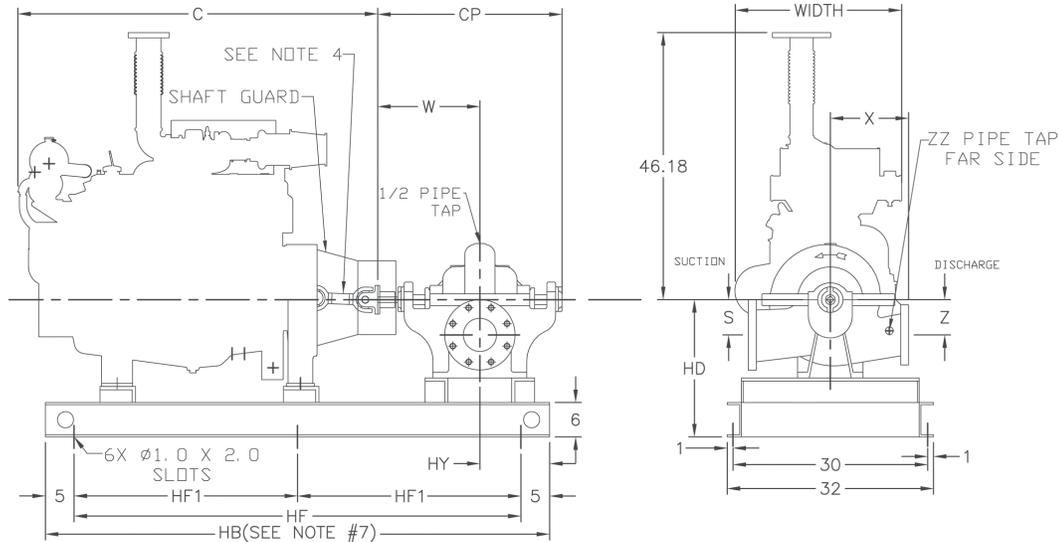
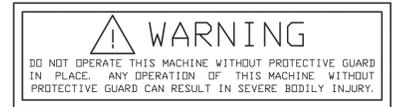
**NOTES:**

- All dimensions are in inches and may vary ±3/8".
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of 0.35" ± 0.10 inches vertically above the pump shaft and 0.00" ± 0.10 inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
- Pump suction and discharge flanges are ANSI Standard flat face.
- Refer to individual engine dimension print for reference point used to determine "C" dimension.
- Left-hand (counterclockwise) rotation is not available.

# FAIRBANKS NIJHUIS™ MODEL 1800

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Date **OCTOBER 2017**  
Supersedes **AUGUST 2015**

## SINGLE-STAGE FIRE PUMPS CLARKE DIESEL ENGINE DRIVE JU6H-UF30, UF32, UF34, UF50, UF52, UF54, UF60, UF62, UF84, UFD0, UFD2, UFM0, UFM8, UFAAPG, UFAAQ8, UFAARG, UFAAS0



ENGINE MODEL	C	WIDTH
JU6H-UF30, UF32, UF34, UF50 JU6H-UF52, UF54, UF58 JU6H-UFD0, UFD2, UFG8 JU6H-UFABL8, ABL0, ABL2 JU6H-UFM0, UFM2, UFM8	61.625	29.64
JU6H-UF60, 62, UFAB76, UF68, JU6H-UF84	63.625	31.74
JU6H-UFAAPG,UFAAQ8 JU6H-UFAARG,UFAAS0	68.375	31.74

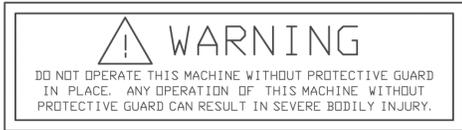
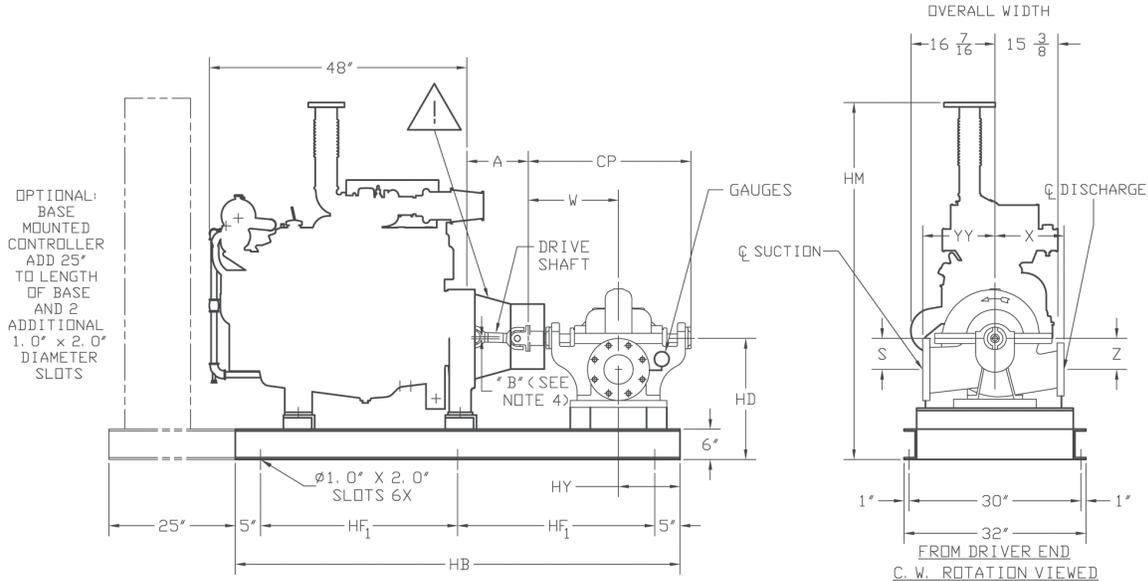
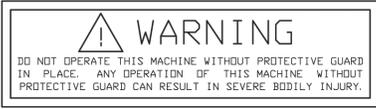
UL LISTED DRIVESHAFT		
ENGINE MODEL	DRIVESHAFT MODEL	"B" DRIVESHAFT OFFSET
JU6H-UFD0, D2, 30, 32, 34	CDS20-S1	0.35"
JU6H-UF68, ABL8, ABL0, ABL2, M0, M2, 58, 50, 52, 54, 60, 62, AB76, 68, 84	CDS30-S1	0.35"
JU6H-UFAAPG, AAQ8, AARG, AAS0	CDS50-SC	0.45"

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF	HF1	HY
DISCH	MODEL	CASE BORE														
4	4"1823F	11/A/C	5	3	5	14-1/2	11-1/4	5	26	12-3/4	1-1/4	88	20	78	39	15-1/2
4	4"1823F	11D	5	3	5	14-1/2	12	5	26	12-3/4	1-1/4	88	20	78	39	15-1/2
4	4"1824F	15	5	3	5-1/2	14-1/2	13	5-1/2	26	14	1-1/4	88	20	78	39	15-1/2
5	5"1823F/AF	15	6	4	6-1/4	16	13-1/4	6-1/4	28-1/2	15	1-1/4	88	20	78	39	14
5	5"1824F	17	6	4	6-1/4	16	14	6-1/4	28-1/2	15	1-1/4	88	20	78	39	14
6	6"1822HHF	11HH	8	-	8-5/8	18-1/8	10	8-5/8	32-7/8	15	1-1/4	88	23	78	39	11-7/8
6	6"1823HHF	14HH	8	-	7-1/2	20-7/16	15	7-1/2	36-3/4	17	1-1/4	98	23	88	44	19-9/16
6	6"1823F	15	8	5	6-3/4	18	14-1/4	6-3/4	32	16-3/4	1-1/4	88	21	78	39	12
6	6"1824F	18	8	5	8	18	16	8	32	18	1-1/4	88	22	78	39	12
6	6"1825F	20	8	5	8	18	15-3/4	8	32	18	1-1/4	88	22	78	39	12
8	8"1824BF	17B	10	5	8	18	17	8	32	17-3/4	2	88	24	78	39	12
8	8"1825F	21	10	7A	12-1/4	24-1/4	20	12-1/4	43	24	2	98	31	88	44	15-11/16
10	10"1824F	18	12	6B	13-1/2	21-7/8	18	13-1/2	38	22	2	98	32	88	44	18-1/8
10	10"1824DF	18D	12	7A	12-1/4	24-5/16	20	12-1/4	24-5/16	24	2	98	31	88	44	15-11/16

**NOTES:**

- All dimensions are in inches and may vary  $\pm 3/8"$ .
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of "B"  $\pm 0.10$  inches vertically above the pump shaft and  $0.00" \pm 0.10$  inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
- Pump suction and discharge flanges are ANSI Standard flat face.
- Refer to individual engine dimension print for reference point used to determine engine overall length.
- Left-hand (counterclockwise) rotation is not available.
- Optional: base mounted controller (not shown) add 25" to "HB" (length of base) and 2 additional  $\phi 1.00 \times 2.00$  slots.

**FAIRBANKS NIJHUIS™**  
**MODELS 1800, 2800, 5800**  
 SINGLE-STAGE HSC FIRE PUMPS  
 JU6H-UF30, UF32, UF34, UFABL8, UFABL0  
 UFABL2, AB76, UF50, UF52, UF54  
 UF58, UFD0, UFD2, UFG8, UFM0, UFM2,  
 UFM8, UF60, AAQ8, AARG, UF62, UF68, UF84



LISTED DRIVESHAFT			
ENGINE MODEL	DRIVESHAFT MODEL	A	B
JU6H-UFD0, D2, 30, 32, 34	CDS20-S1	15-5/8	0.35
JU6H-UF30, ABL8, ABLO, ABL2, M0, M2, 50, 52, 54, 60, 62, AB76, 68, 84	CDS30-S1	15-5/8	0.35
JU6H-UFAAPG, AAQ8, AARG, AAS0	CDS50-SC	20-3/8	0.45

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HD	HF1	HM	HY	YY
DISCH	MODEL	CASE BORE													
4	4"2823F	14	6	-	6-7/8	17-5/8	13	8-3/8	31-11/16	98	20	44	65-3/4	22-3/8	15-1/4
4	4"5824F	18	5	-	9-1/2	18-3/8	14	9-1/2	33-1/4	98	22	44	67-3/4	21-5/8	14
5	5"2823F	14	8	-	8-1/4	17-5/8	13-1/2	9-3/4	31-11/16	98	23	44	68-3/4	22-3/8	17-1/4
5	5"2824F	18	8	-	8-1/8	18-7/8	15	10-5/8	33-3/8	98	23	44	68-3/4	21-1/8	18-3/4
6	6"2823F	14	10	-	9-3/8	20-1/8	13-1/4	10	35-7/8	98	25	44	70-3/4	19-7/8	18
6	6"2824F	18	10	-	9-3/8	20-1/8	16	11-3/4	35-7/8	98	25	44	70-3/4	19-7/8	20
6	6"2825F	18	10	-	9-3/8	22-5/8	18	12-1/8	39-1/4	98	26	44	71-3/4	17-3/8	22
6	6"2876F	12	10	-	6-7/8	16-5/8	20-1/2	7-1/8	29-11/16	88	23	39	68-3/4	13-3/8	14
6	6"5823F	15	8	-	8-3/4	22-1/2	15-1/2	8-3/4	40-1/4	98	23	44	68-3/4	17-1/2	15
6	6"5824F	18	8	-	9-5/8	22-1/2	16	9-5/8	40-1/8	98	24	44	69-3/4	17-1/2	16
6	6"5876F	10	10	-	9	20-5/8	13	7-1/2	36-3/4	98	25	44	70-3/4	19-3/8	15
8	8"2823F	14	12	-	10-3/4	20-1/2	16	10-3/4	36-5/8	98	28	44	73-3/4	19-1/2	22
8	8"2824F	18	12	-	10-3/4	23-3/4	16	12-1/2	41-1/2	98	28	44	73-3/4	16-1/4	22
8	8"1826F	24	12	7	13-1/2	28-5/8	20	15	51-1/2	108	31	49	76-3/4	21-3/8	25

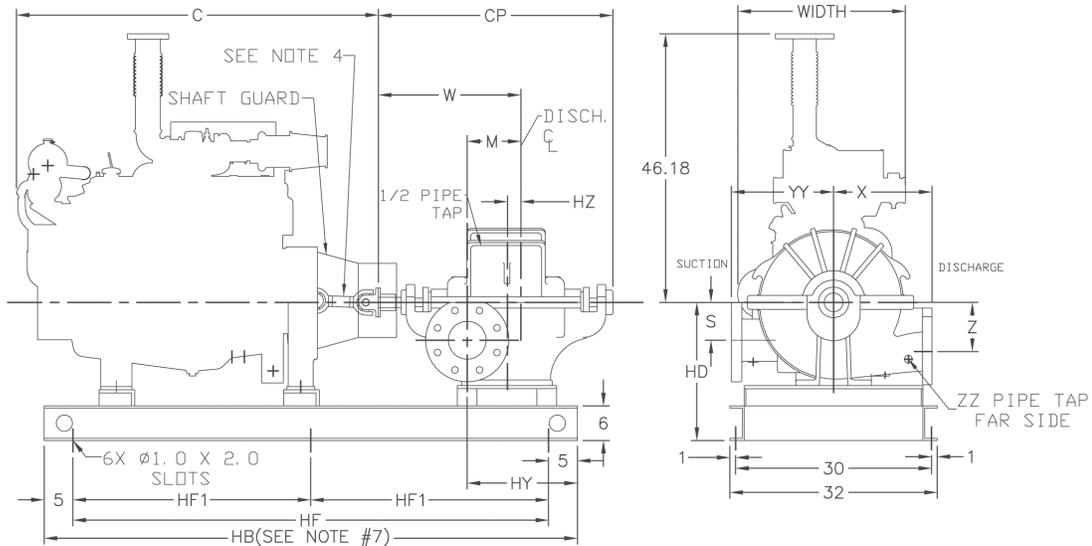
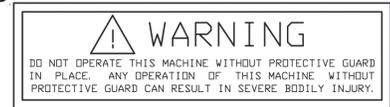
- NOTES:
1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
  2. Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
  3. All bases are required to be completely filled with grout.
  4. Unit installation and final driveshaft alignment must be done by the installing contractor.

CAUTION:  
 The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of "B" ± 0.10 inches vertically above the pump shaft and 0.00" ± 0.10 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

# FAIRBANKS NIJHUIS™ MODEL 1900

## MULTI-STAGE FIRE PUMPS CLARKE DIESEL ENGINE DRIVE

JU6H-UF30, UF32, UF34, UF50, UF52, UF54, UF58, UFDO, UFD2, UFG8,  
UFABL8, ABL0, ABL2, UFM0, UFM2, UFM8, JU6H-UF60, 62, UFAB76,  
UF68, UF84, JU6H-UFAAPG, UFAAQ8, UFAARG, UFAASO



ENGINE MODEL	C	WIDTH
JU6H-UF30, UF32, UF34, UF50 JU6H-UF52, UF54, UF58 JU6H-UFDO, UFD2, UFG8 JU6H-UFABL8, ABL0, ABL2 JU6H-UFM0, UFM2, UFM8	61.625	29.64
JU6H-UF60, 62, UFAB76, UF68, JU6H-UF84	63.625	31.74
JU6H-UFAAPG, UFAAQ8 JU6H-UFAARG, UFAASO	68.375	31.74

ENGINE MODEL	DRIVESHAFT MODEL	"B" DRIVESHAFT OFFSET
JU6H-UFDO, D2, 30, 32, 34	CDS20-S1	0.35"
JU6H-UF68, ABL8, ABL0, ABL2, M0, M2, 58, 50, 52, 54, 60, 62, AB76, 68, 84	CDS30-S1	0.35"
JU6H-UFAAPG, AAQ8, AARG, AASO	CDS50-SC	.45"

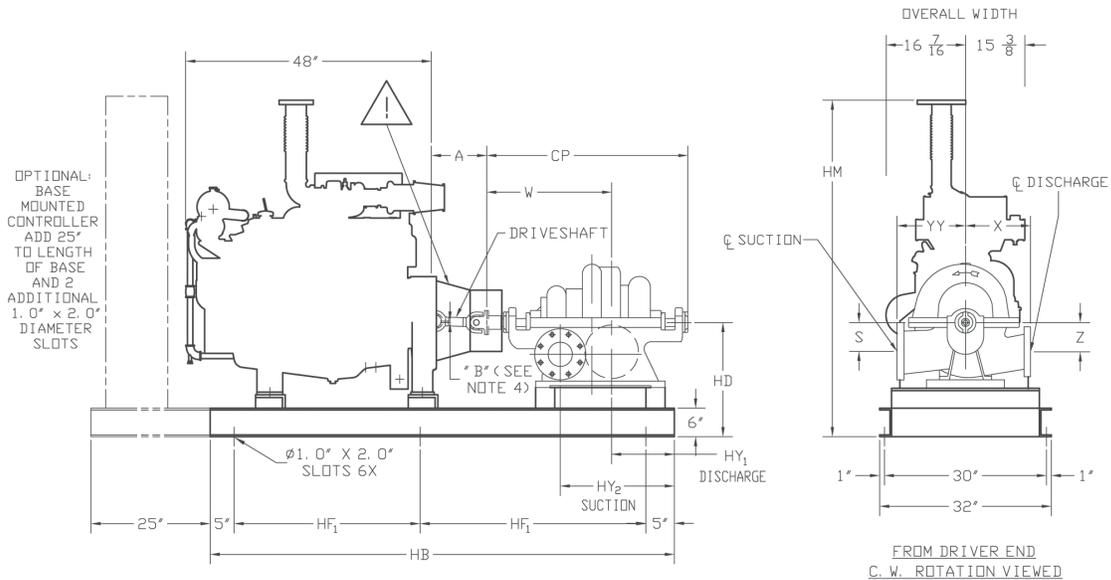
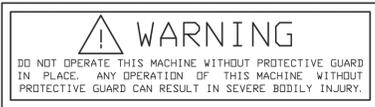
PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF1	HY
DISCH	MODEL	CASE BORE													
4	4"1922F	15	5	3	5	18-7/8	13	6-1/2	31	13-1/2	1-1/4	88	20	39	13
5	5"1924F	12	5	4A	7	20-7/8	13	7	35-3/8	13	1-1/4	98	20	44	20-1/2
5	5"1922F	15	6	4	5-1/2	21-1/8	15	7-1/2	34-1/2	15-7/16	1-1/4	88	20	39	11
6	6"1924F	12	6	5A	8	22-7/8	14	8	38-1/2	14	1-1/4	98	22	44	18-3/4
6	6"1923F	16	8	5	8-1/4	23-5/8	19	7-3/4	37-7/8	17	1-1/4	98	23	44	26-7/8
6	6"1922F	17	8	5	7	24-1/2	16	9	38	16-1/2	1-1/4	98	22	44	19

**NOTES:**

- All dimensions are in inches and may vary  $\pm 3/8"$ .
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of "B"  $\pm 0.10$  inches vertically above the pump shaft and  $0.00" \pm 0.10$  inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
- Pump suction and discharge flanges are ANSI Standard flat face.
- Refer to individual engine dimension print for reference point used to determine engine overall length.
- Left-hand (counterclockwise) rotation is not available.
- Optional: base mounted controller (not shown) add 25" to "HB" (length of base) and 2 additional  $\phi 1.00 \times 2.00$  slots.

# FAIRBANKS NIJHUIS™ MODEL 5900

MULTI-STAGE HSC FIRE PUMPS  
 JU6H-UF30, UF32, UF34, ABL8, ABL0  
 ABL2, AB76, UF50, UF52, UF54, UF58, UFD0,  
 UFD2, UFG8, UFM0, UFM2, UFM8, UF60,  
 AAPG, AAS0, AAQ8, AARG, UF62, UF68, UF84



UL LISTED DRIVESHAFT			
ENGINE MODEL	DRIVESHAFT MODEL	A	B
JU6H-UFD0, D2, 30, 32, 34	CDS20-S1	15-5/8	0.35
JU6H-UFG8, ABL8, ABL0, ABL2, MD, M2, 38, 50, 52, 54, 60, 62, AB76, 68, 84	CDS30-S1	15-5/8	0.35
JU6H-UFAAPG, AAQ8, AARG, AAS0	CDS50-SC	20-3/8	0.45

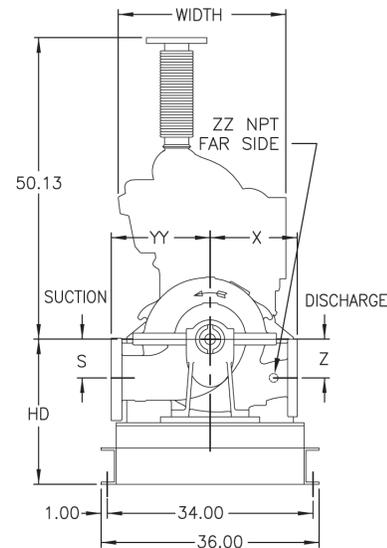
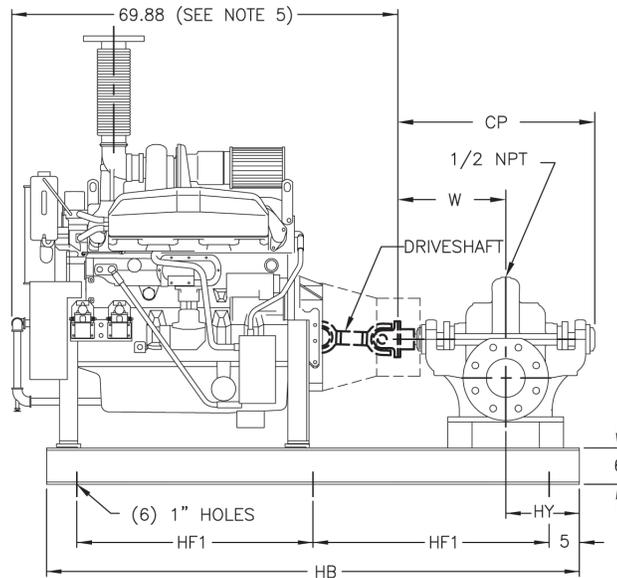
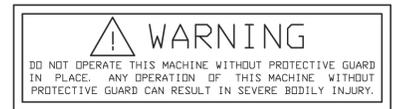
PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HD	HF1	HM	YY	HY1	HY2
DISCH	MODEL	CASE BORE														
5	5"5922F	15	6	-	9	28-3/8	15	9	46-7/8	108	23	49	68-3/4	15	21-5/8	32-5/8
6	6"5922F	17	8	-	10-1/2	31-5/8	16-1/2	10-1/2	52-1/2	108	25	49	70-3/4	16-1/2	18-3/8	31-3/8

- NOTES:
1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
  2. Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
  3. All bases are required to be completely filled with grout.
  4. Unit installation and final driveshaft alignment must be done by the installing contractor.

CAUTION:  
 The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of "B" ± 0.10 inches vertically above the pump shaft and 0.00" ± 0.10 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

# FAIRBANKS NIJHUIS™ MODEL 1800

## SINGLE-STAGE FIRE PUMPS CLARKE ENGINE JW6H-UF30, UF40, UF48, UF50, UFH8, UF58 AND UF60 DIESEL DRIVE



	LISTED DRIVESHAFT
ENGINE MODEL	DRIVESHAFT MODEL
1470 THRU 2100 RPM ONLY	CDS50-SC

### NON-LISTED DRIVESHAFT

ENGINE MODEL	WIDTH
JW6H-UF30	29.5
ALL EXCEPT JW6H-UF30 & -UF38	28.6

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF1	HY
DISCH	MODEL	CASE BORE													
5	5"1824F	17	6	4	6.25	16	14	6.25	28.5	15	1.25	98	24	44	14
6	6"1823F	15	8	5	6.75	18	14.25	6.75	32	16.75	1.25	98	24	44	12
6	6"1824F	18	8	5	8	18	16	8	32	18	1.25	98	24	44	12
6	6"1825F	20	8	5	8	18	15.75	8	32	18	1.25	98	24	44	12
8	8"1824F	17	10	5	8	18	17	8	32	17.75	2	98	24	44	12
8	8"1825F	21	10	6B	9.5	21.88	18	9.5	38	21	2	108	25	49	18.13
8	8"1826F	24	12	7	15	25.25	20	15	43.88	25	1.25	118	32	54	24.75
10	10"1823F	15	12	6B	13.5	21.88	17	13.5	38	20	1.25	108	31	49	18.13
10	10"1824F	18	12	6B	13.5	21.88	18	13.5	38	22	2	108	31	49	18.13
10	10"1824DF	18D	12	7A	12.25	24.31	20	12.25	42.93	24	2	108	31	49	15.69

**NOTES:**

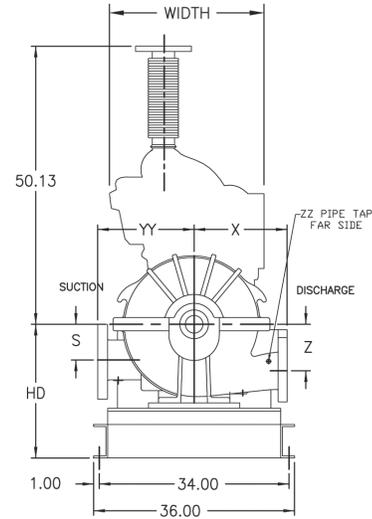
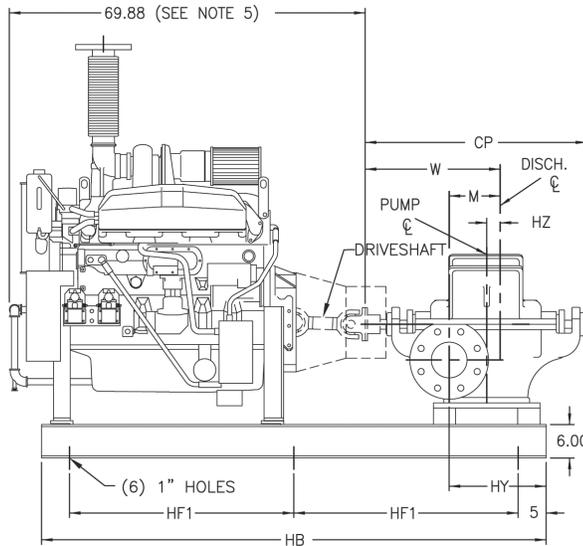
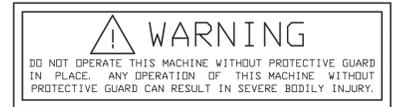
- All dimensions are in inches and may vary  $\pm .38$ .
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of  $0.45" \pm 0.11$  inches vertically above the pump shaft and  $0.00" \pm 0.11$  inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
- Pump suction and discharge flanges are ANSI Standard flat face.
- Refer to individual engine dimension print for reference point used to determine engine overall length.
- Left-hand (counterclockwise) rotation is not available.



# FAIRBANKS NIJHUIS™ MODEL 1900

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Date **NOVEMBER 2013**

## TWO-STAGE FIRE PUMPS CLARKE ENGINE JW6H-UF30, UF40, UF48, UF50, UFH8, UF58 AND UF60 DIESEL DRIVE



UL LISTED DRIVESHAFT	
ENGINE MODEL	DRIVESHAFT MODEL
1470 THRU 2100 RPM ONLY	CDS50-SC

NON-LISTED DRIVESHAFT	
ENGINE MODEL	DRIVESHAFT MODEL
2350 RPM ONLY	SC81A

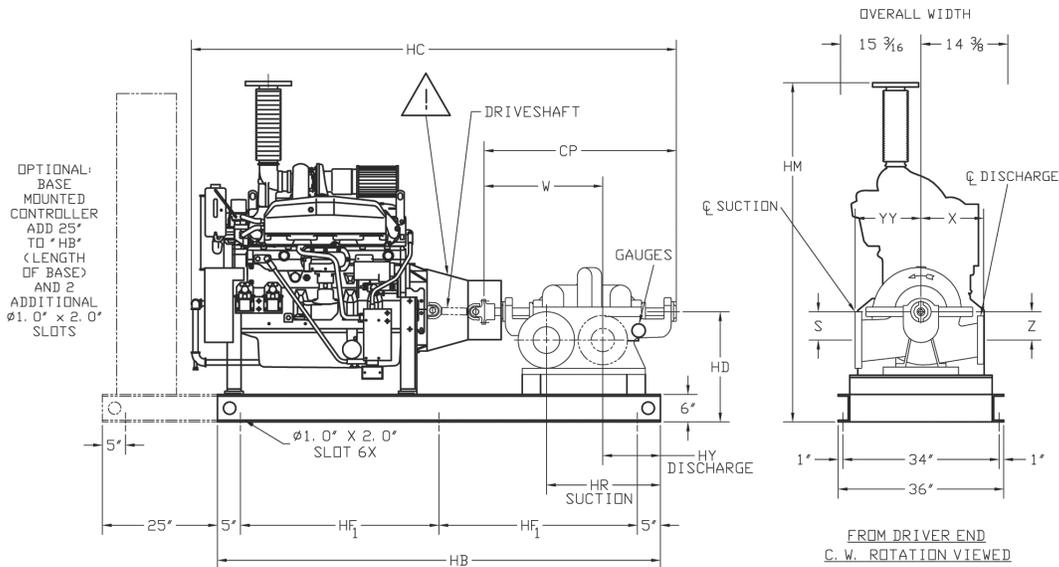
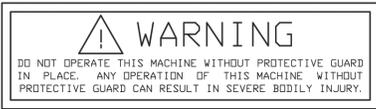
ENGINE MODEL	WIDTH
JW6H-UF30	29.5
ALL EXCEPT JW6H-UF30 & -UF38	28.6

PUMP SIZE			SUCTION	M	S	W	X	Z	CP	HZ	YY	ZZ	HB	HD	HF1	HY
DISCH	MODEL	CASE BORE														
4	4"1922F	15	5	7.13	5	18.88	13	6.5	31	1.88	13.5	1.25	98	24	44	18.25
5	5"1922F	15	6	9.13	5.5	21.13	15	7.5	34.5	2.13	15.44	1.25	98	24	44	18
6	6"1923F	16	8	10.5	8.25	23.63	19	7.75	37.88	2.63	17	1.25	108	24	49	26.88
6	6"1922F	17	8	11	7	24.5	16	9	38	3.5	16.5	1.25	108	24	49	16.5

**NOTES:**

- All dimensions are in inches and may vary  $\pm .38$ .
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a  $2^\circ$  angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of  $0.45 \pm 0.11$  inches vertically above the pump shaft and  $0.00 \pm 0.11$  inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
- Pump suction and discharge flanges are ANSI Standard flat face.
- Refer to individual engine dimension print for reference point used to determine engine overall length.
- Left-hand (counterclockwise) rotation is not available.

**FAIRBANKS NIJHUIS™**  
**MODEL 5900**  
 MULTI-STAGE HSC FIRE PUMPS  
 CLARKE ENGINE JW6H-UF30, UF40, UF48,  
 UF50, UFH8, UF58, UF60



	LISTED DRIVESHAFT	
	ENGINE MODEL	DRIVESHAFT MODEL
	1760 & 2100 RPM	CDS50-SC

NON-LISTED DRIVESHAFT	
ENGINE MODEL	DRIVESHAFT MODEL
ALL JW6H MODELS	SC81A

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HC	HD	HF1	HM	HY	HR	YY
DISCH	MODEL	CASE BORE															
6	6"5922F	17	8	-	10-1/2	31-5/8	16-1/2	10-1/2	52-1/2	118	122-3/8	25	54	74-1/4	18-3/8	31-3/8	16-1/2

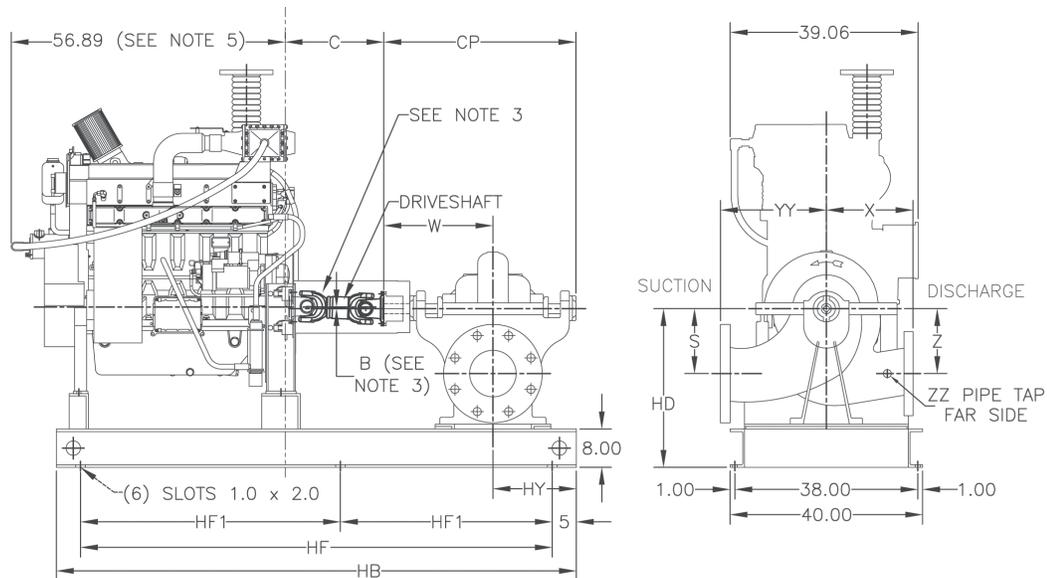
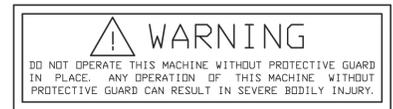
**NOTES:**

1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
2. Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
3. All bases are required to be completely filled with grout.
4. Unit installation and final driveshaft alignment must be done by the installing contractor.

**CAUTION:** The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of 0.45 ± 0.11 inches vertically above the pump shaft and 0.00 ± 0.11 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

# FAIRBANKS NIJHUIS™ MODEL 1800

## SINGLE-STAGE FIRE PUMPS CLARKE MODELS JX6H-UF40, UF50, UF60 AND UF70 DIESEL ENGINES



UL LISTED DRIVESHAFTS			
ENGINE MODEL	DRIVESHAFT MODEL*	C	B
N/A	N/A		
There are no listed driveshafts available for these engines.			

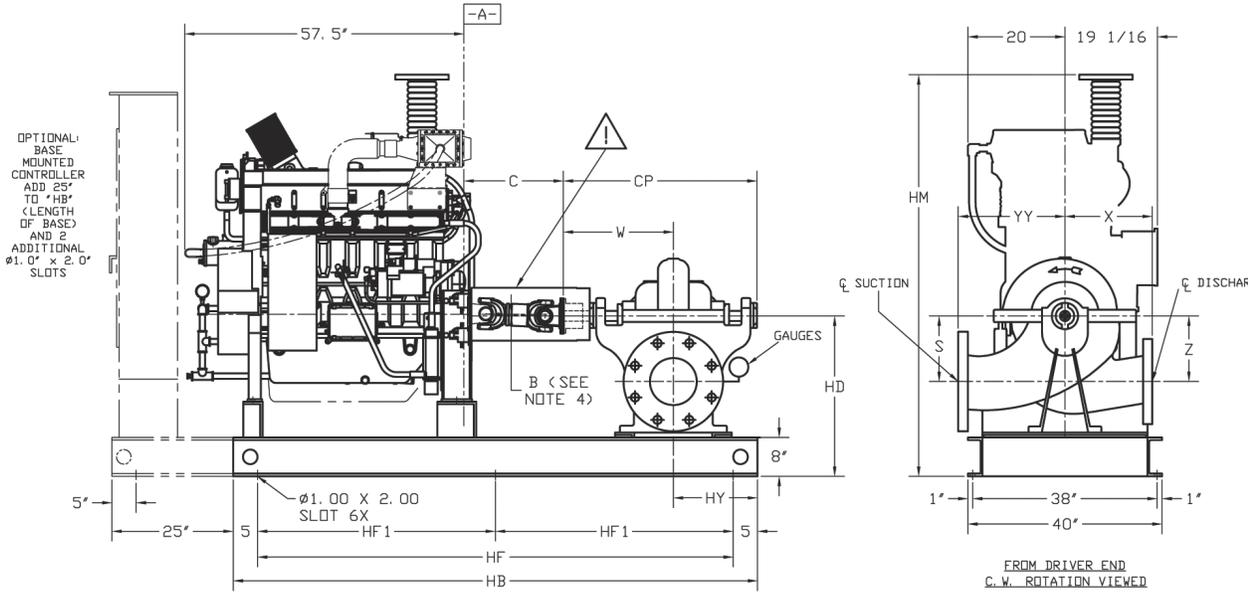
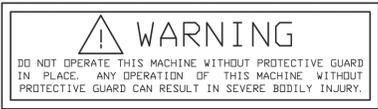
NON-LISTED DRIVESHAFTS			
ENGINE MODEL	DRIVESHAFT MODEL*	C	B
JX6H-UF40	SC2140	17.00	0.35
JX6H-UF50, 60, 70	SC2160A	20.50	0.35

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF	HF1	HY
DISCH	MODEL	CASE BORE														
6	6"1824F	18	8	5	8	18	16	8	32	18	1.25	98	26	88	44	12
8	8"1824F	17	10	5	8	18	17	8	32	17.75	2	98	26	88	44	12
8	8"1825F	21	10	6B	9.5	21.88	18	9.5	38	21	2	108	27	98	49	18.13
8	8"1826F	24	12	7	15	25.25	20	15	43.88	25	1.25	118	34	108	54	24.75
10	10"1824F	18	12	6B	13.5	21.88	18	13.5	38	22	2	108	33	98	49	18.13
10	10"1824DF	18D	12	7A	12.25	24.25	20	12.25	43	24	2	108	33	98	49	15.75
12	12"1824F	18	14	7	15	25.25	18	15	43.88	23	2	118	35	108	54	24.75

**NOTES:**

- All dimensions are in inches and may vary  $\pm .38$ .
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of "B"  $\pm 0.12$  inches vertically above the pump shaft and  $0.00 \pm 0.12$  inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
- Pump suction and discharge flanges are ANSI Standard flat face.
- Refer to individual engine dimension print for reference point used to determine engine overall length.
- Left-hand (counterclockwise) rotation is not available.

**FAIRBANKS NIJHUIS™**  
**MODELS 1800, 2800, 5800**  
 SINGLE-STAGE FIRE PUMPS  
 CLARKE MODELS JX6H-UF40, UF50, UF60  
 AND UF70 DIESEL ENGINES



UL LISTED DRIVESHAFTS			
ENGINE MODEL	DRIVESHAFT MODEL*	C	B
N/A	N/A		
*There are no listed driveshafts for these engines.			

NON-LISTED DRIVESHAFTS			
ENGINE MODEL	DRIVESHAFT MODEL*	C	B
JX6H-UF40	SC2140	17.00	0.35
JX6H-UF50, 60, 70	SC2160A	20.50	0.45

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HD	HF	HF1	HM	HY	YY
DISCH	MODEL	CASE BORE														
6	6"2824F	18	10	-	9-3/8	20-1/8	16	11-3/4	35-7/8	108	28	98	49	77-5/8	19-7/8	20
6	6"2825F	19	10	-	9-3/8	22-5/8	18	12-1/8	39-1/4	108	28	98	49	77-5/8	17-3/8	22
8	8"2824F	18	12	-	10-3/4	23-3/4	16	12-1/2	41-1/2	108	30	98	49	79-5/8	16-1/4	22
8	8"1826F	24	12	7	13-1/2	28-5/8	20	15	51-1/2	118	33	108	54	82-5/8	21-3/8	25
10	10"2825F	20	16	-	13	25-9/16	23	14-1/4	49-9/16	118	35	108	54	84-5/8	24-7/16	25
10	10"5824F	18	12	-	11-1/2	25-9/16	21	11-1/2	45-13/16	118	31	108	54	80-5/8	24-7/16	21

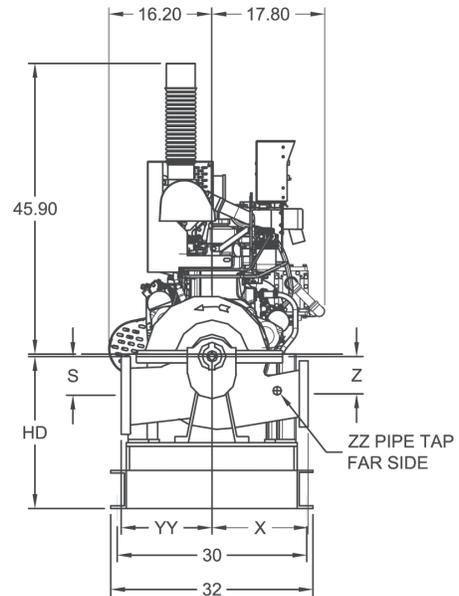
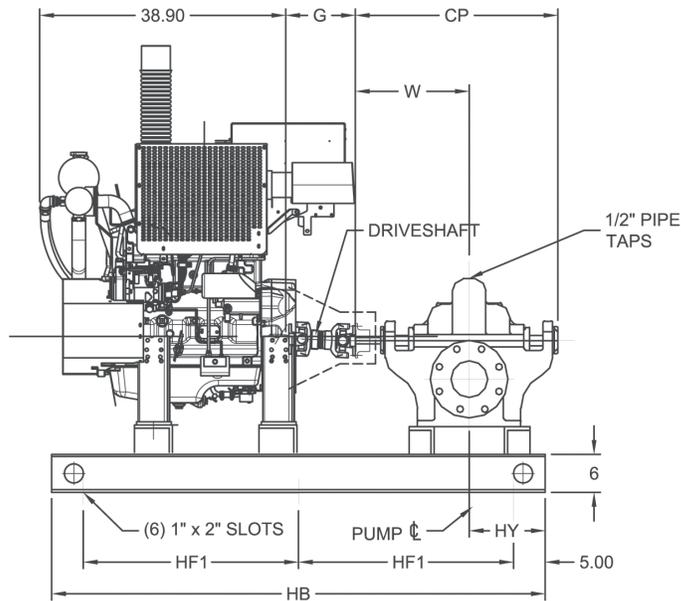
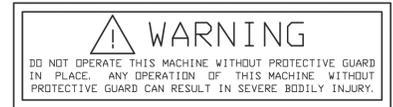
- NOTES:
1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 5.25.
  2. Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
  3. All bases are required to be completely filled with grout.
  4. Unit installation and final driveshaft alignment must be done by the installing contractor.

CAUTION:  
 The driveshaft is designed to operate at a 0° angle. The engine crankshaft is to be set with a parallel offset of "B" ± 0.12 inches above the pump shaft. The engine crankshaft may be parallel offset from the pump shaft 0.45" left or right. Refer to the engine manual for alignment instructions.

# FAIRBANKS NIJHUIS™ MODEL 1800

SINGLE-STAGE FIRE PUMPS  
CLARKE MODELS JU4H-UFAEAO,  
AEE8, AEF2, ADJ8, ADJ2  
EPA NSPS TIER 3 AND TIER IT4\* CERTIFIED

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Date **OCTOBER 2017**  
Supersedes **NOVEMBER 2013**



UL LISTED DRIVESHAFT		
ENGINE MODEL	DRIVESHAFT MODEL	G
JU4H-UFAEAO*	CDS10-SC	10.50
JU4H-UFAEE8*, AEF2*, ADJ8, ADJ2	CDS20-SC	11.00

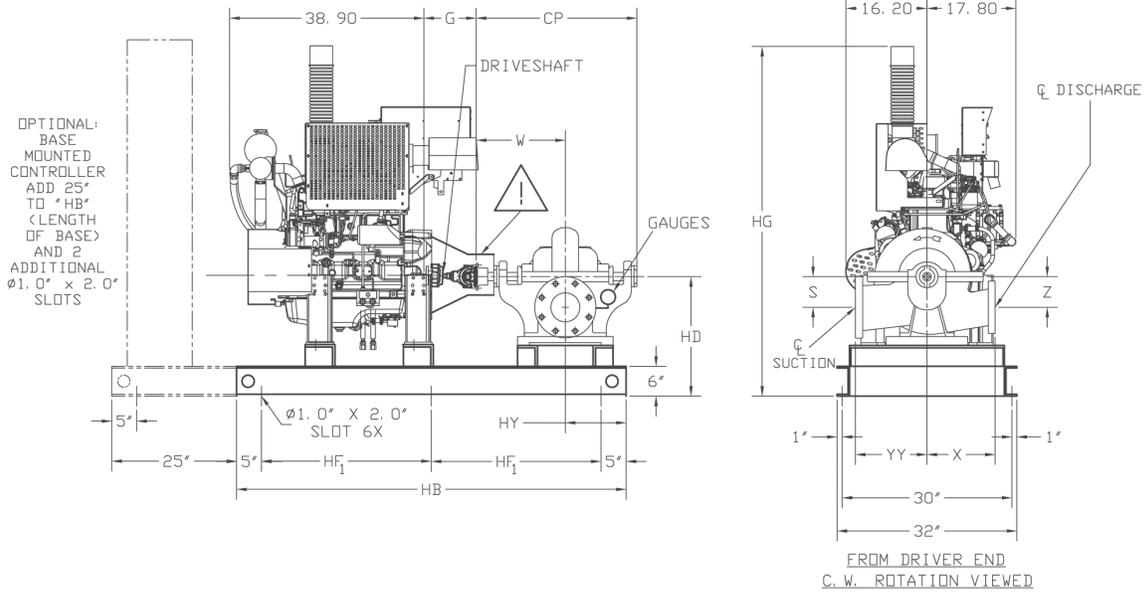
PUMP SIZE			ENGINE MODEL JU4H-UF	SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF1	HY
DISCH	MODEL	CASE BORE														
4	4"1823F	11/A/C	AEA0	5	3	5	14.5	11.25	5	26	12.75	1.25	78	20	34	15.5
4	4"1823F	11D	AEA0	5	3	5	14.5	12	5	26	12.75	1.25	78	20	34	15.5
4	4"1824F	15	ADJ8, AEE8	5	3	5.5	14.5	13	5.5	26	14	1.25	78	20	34	15.5
5	5"1823F/AF	15	ADJ8, AEA0, AEE8	6	4	6.25	16	13.25	6.25	28.5	15	1.25	78	20	34	14
5	5"1824F	17	ADJ8	6	4	6-1/4	16	14	6-1/4	28-1/2	15	1 1/4	78	20	34	14
6	6"1822F	11	AEA0	8	4	6.25	16	11.75	6.25	28.5	14.5	1.25	78	21	34	14
6	6"1823F	15	ADJ8, AEE8	8	5	6-3/4	18	14-1/4	6-3/4	32	16-3/4	1-1/4	78	21	34	12
6	6"1822HHF	11HH	ADJ2	8	4A	8-5/8	18-1/8	10	8-5/8	32-7/8	15	1-1/4	78	23	34	11-7/8
6	6"1823HHF	14HH	ADJ2	8	5A	7-1/2	20-7/16	15	7-1/2	36-3/4	17	1-1/4	88	23	39	19-9/16
6	6"1823F	15	ADJ8, AEE8	8	5	6-3/4	18	14-1/4	6-3/4	32	16-3/4	1-1/4	78	21	34	12
8	8"1822F	12	AEE8	10	5	8	18	17	9	32	17-3/4	1-1/4	78	24	34	12
8	8"1826F	24	ADJ2	12	7	15	25-1/4	20	15	43-7/8	25	1-1/4	88	32	39	14-3/4

**NOTES:**

- All dimensions are in inches and may vary  $\pm .38$ .
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of  $0.25 \pm 0.08$  inches vertically above the pump shaft and  $0.00 \pm 0.08$  inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
- Pump suction and discharge flanges are ANSI Standard flat face.
- Refer to individual engine dimension print for reference point used to determine engine overall length.
- Left-hand (counterclockwise) rotation is not available.

**FAIRBANKS NIJHUIS™**  
**MODELS 2800, 5800**  
 SINGLE-STAGE HSC FIRE PUMPS  
 CLARKE MODELS JU4HADJ8, AEE8, AEA0,  
 ADJ2, AND AEF2  
 EPA NSPS TIER 3 AND iT4\* CERTIFIED

**WARNING**  
 DO NOT OPERATE THIS MACHINE WITHOUT PROTECTIVE GUARD IN PLACE. ANY OPERATION OF THIS MACHINE WITHOUT PROTECTIVE GUARD CAN RESULT IN SEVERE BODILY INJURY.



UL LISTED DRIVESHAFT		
ENGINE MODEL	DRIVESHAFT MODEL	G
JU4H-UFAEAO*	CDS10-SC	10.50
JU4H-UFAEE8*, AEF2*, ADJ8	CDS20-SC	11.00

PUMP SIZE			ENGINE MODEL JU4H-UF	SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HD	HF1	HG	HY	YY
DISCH	MODEL	CASE BORE														
4	4"2823F	14	AEA0*, AEE8*, AEF2*, ADJ2*	6	-	6-7/8	17-5/8	13	8-3/8	31-11/16	88	20	39	66	22-3/8	15-1/4
4	4"5824F	18	AEE8*, ADJ8	5	-	9-1/2	18-3/8	14	9-1/2	33-1/4	88	22	39	68	21-5/8	14

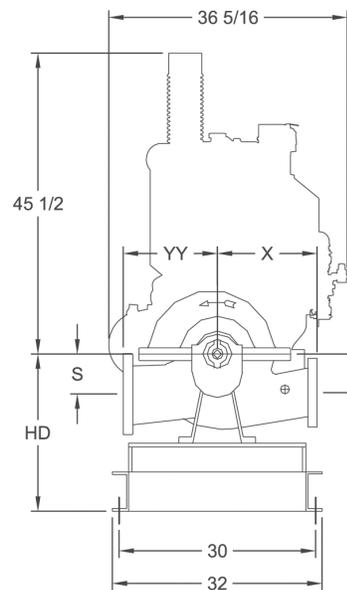
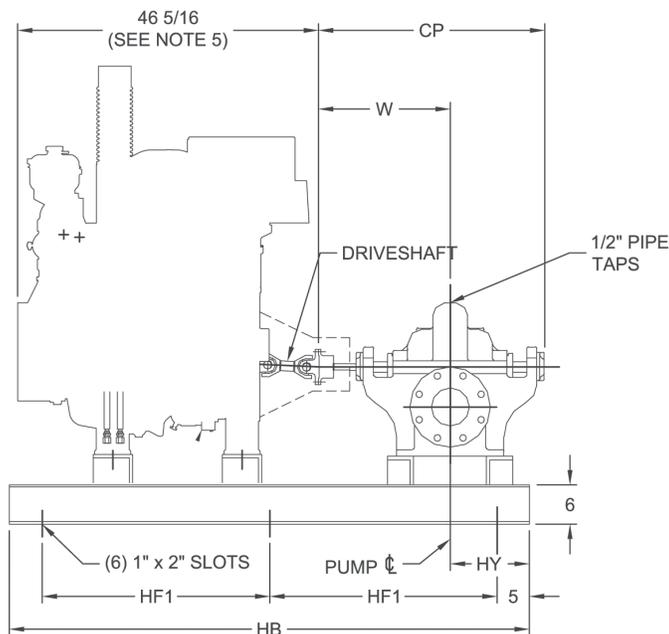
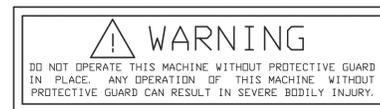
- NOTES:**
1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
  2. Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
  3. All bases are required to be completely filled with grout.
  4. Unit installation and final driveshaft alignment must be done by the installing contractor.

**CAUTION:**  
 The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of 0.25" ± 0.08 inches vertically above the pump shaft and 0.00" ± 0.08 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

# FAIRBANKS NIJHUIS™ MODEL 1800

## SINGLE-STAGE FIRE PUMPS CLARKE MODEL JU4H-UFAD4G

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Date **NOVEMBER 2013**



UL LISTED DRIVESHAFT	
ENGINE MODEL	DRIVESHAFT MODEL
JU4H-UFAD4G	CDS20-SC

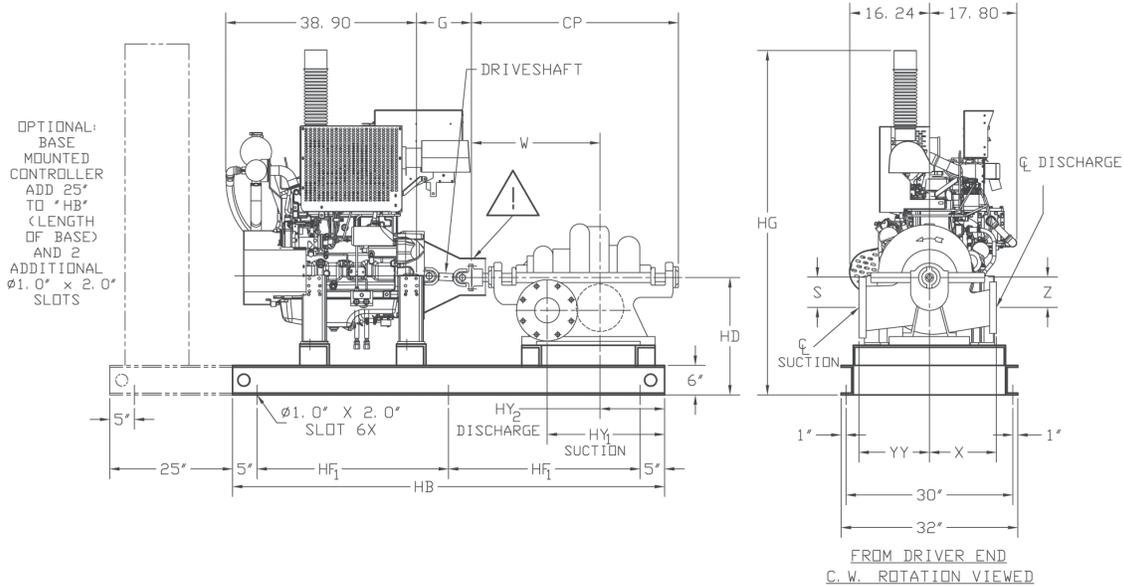
PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF1	HY
DISCH	MODEL	CASE BORE													
5	5"1824F	17	6	4	6-1/4	16	14	6-1/4	28-1/2	15	1-1/4	78	20	34	14
6	6"1823CF	15C	8	5	6-3/4	18	14-1/4	6-3/4	32	16-3/4	1-1/4	78	21	34	12
6	6"1823HHF	14HH	8	5A	7-1/2	20-7/16	15	7-1/2	36-3/4	17	1-1/4	88	23	39	19-9/16
6	6"1823F	15	8	5	6-3/4	18	14-1/4	6-3/4	32	16-3/4	1-1/4	78	21	34	12
8	8"1826F	24	12	7	15	25-1/4	20	15	43-7/8	25	1-1/4	98	32	44	24-3/4

**NOTES:**

- All dimensions are in inches and may vary  $\pm .38$ .
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a  $2^\circ$  angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of  $0.25" \pm 0.08$  inches vertically above the pump shaft and  $0.00" \pm 0.08$  inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
- Pump suction and discharge flanges are ANSI Standard flat face.
- Refer to individual engine dimension print for reference point used to determine engine overall length.
- Left-hand (counterclockwise) rotation is not available.

**FAIRBANKS NIJHUIS™**  
**MODEL 5900**  
 MULTI-STAGE HSC FIRE PUMPS  
 CLARKE MODELS JU4H-UFAD4G, AD5G,  
 ADJG, ADP0, ADR0, ADW8, ADY8  
 EPA NSPS TIER 3

**WARNING**  
 DO NOT OPERATE THIS MACHINE WITHOUT PROTECTIVE GUARD IN PLACE. ANY OPERATION OF THIS MACHINE WITHOUT PROTECTIVE GUARD CAN RESULT IN SEVERE BODILY INJURY.



UL LISTED DRIVESHAFT		
ENGINE MODEL	DRIVESHAFT MODEL	G
JU4H-UFAD4G	CDS20-SC	11.00"
JU4H-UFAD5G, ADJG, ADP0, ADR0, ADW8, ADY8	CDS30-S1	15.75"

PUMP SIZE			ENGINE MODEL JU4H-UF	SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HD	HF1	HG	HY1	HY2	YY
DISCH	MODEL	CASE BORE															
5	5"5922F	15	ADY8	6	-	9	28-3/8	15	9	46-7/8	98	23	44	69	32-5/8	21-5/8	15

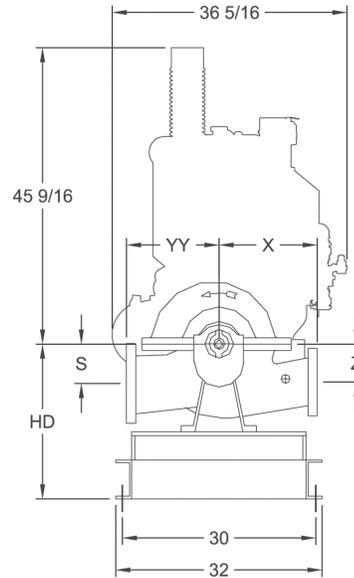
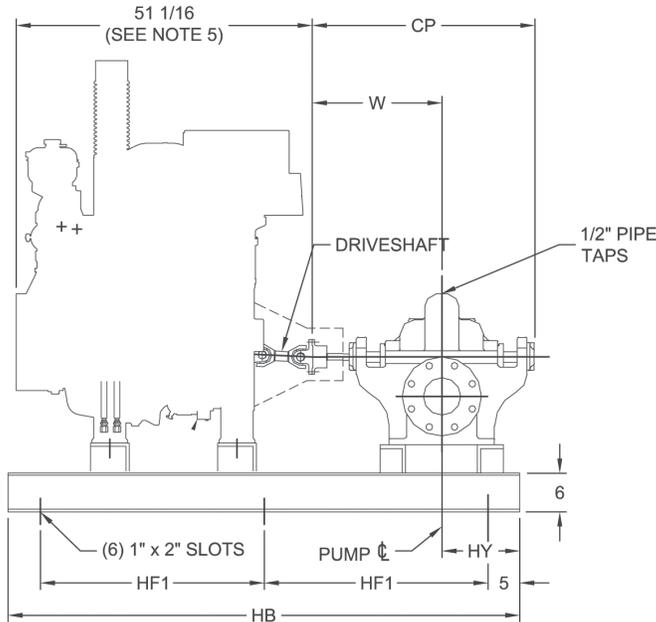
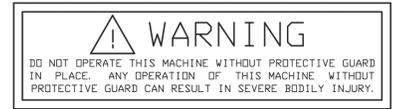
- NOTES:**
1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
  2. Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
  3. All bases are required to be completely filled with grout.
  4. Unit installation and final driveshaft alignment must be done by the installing contractor.

**CAUTION:**  
 The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of 0.25" ± 0.08 inches vertically above the pump shaft and 0.00" ± 0.08 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

# FAIRBANKS NIJHUIS™ MODEL 1800

SINGLE-STAGE FIRE PUMPS  
CLARKE MODELS JU4H-UFADJ8,  
UFADP0, UFADR0, UFADW8, UFADY8

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Date **OCTOBER 2017**  
Supersedes **NOVEMBER 2013**



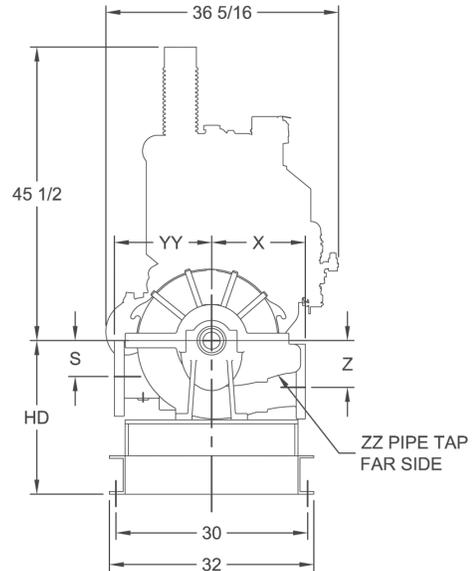
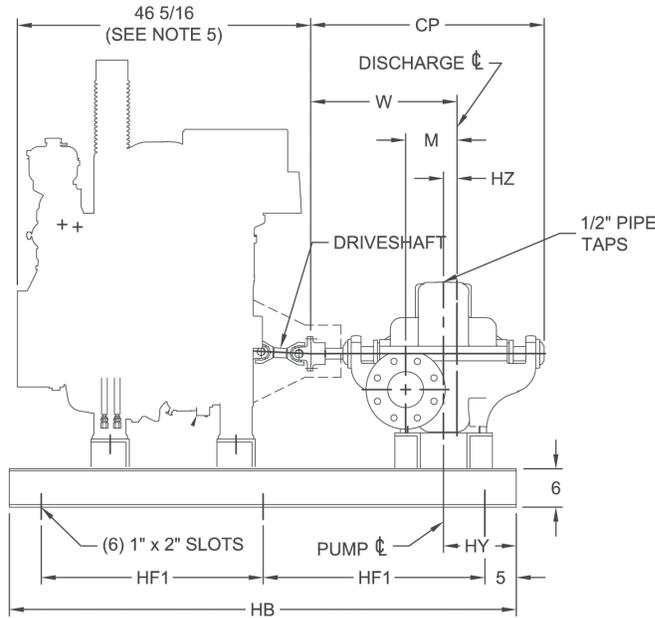
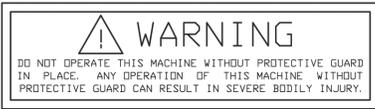
UL LISTED DRIVESHAFT	
ENGINE MODEL	DRIVESHAFT MODEL
JU4H-UFAD5G, -UFADJG, -UFADP0, -UFADR0, -UFADW8, -UFADY8	CDS30-S1

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF1	HY
DISCH	MODEL	CASE BORE													
5	5"1823F/AF	15	6	4	6-1/4	16	13-1/4	6-1/4	28-1/2	15	1-1/4	78	20	34	14
5	5"1824F	17	6	4	6-1/4	16	14	6-1/4	28-1/2	15	1-1/4	78	20	34	14
6	6"1825BF	20B	8	5	8	18	15-3/4	8	32	188	1-1/4	78	22	34	12
6	6"1824B/CF	18B/C	8	5	8	18	16	8	32	18	1-1/4	78	22	34	12
6	6"1823CF	15C	8	5	6-3/4	18	14-1/4	6-3/4	32	16-3/4	1-1/4	78	21	34	12
6	6"1823BF	15B	8	5	6-3/4	18	14-1/4	6-3/4	32	16-3/4	1-1/4	78	21	34	12
6	6"1823HH	14HH	9	5A	7-1/2	20-7/16	15	7-1/2	36-3/4	17	1-1/4	88	23	39	19-9/16
6	6"1825F	20	8	5	8	18	15-3/4	8	32	18	1-1/4	78	22	34	12
6	6"1823F	15	8	5	6-3/4	18	14-1/4	6-3/4	32	16-3/4	1-1/4	78	21	34	12
8	8"1824BF	17B	10	5	8	18	17	8	32	17-3/4	2	78	24	34	12

**NOTES:**

- All dimensions are in inches and may vary  $\pm .38$ .
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of  $0.35 \pm 0.10$  inches vertically above the pump shaft and  $0.00 \pm 0.10$  inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
- Pump suction and discharge flanges are ANSI Standard flat face.
- Refer to individual engine dimension print for reference point used to determine engine overall length.
- Left-hand (counterclockwise) rotation is not available.

**FAIRBANKS NIJHUIS™**  
**MODEL 1900**  
 TWO-STAGE FIRE PUMPS  
 CLARKE MODEL JU4H-UFAD4G



UL LISTED DRIVESHAFT	
ENGINE MODEL	DRIVESHAFT MODEL
JU4H-UFAD4G	CDS20-SC

PUMP SIZE			SUCTION	POWER SERIES	M	S	W	X	Z	CP	YY	HZ	HB	HD	HF1	HY	ZZ
DISCH	MODEL	CASE BORE															
4	4"1922F	15	5	3	7-1/8	5	18-7/8	13	6-1/2	31	13-1/2	1-7/8	78	20	34	13	1-1/4

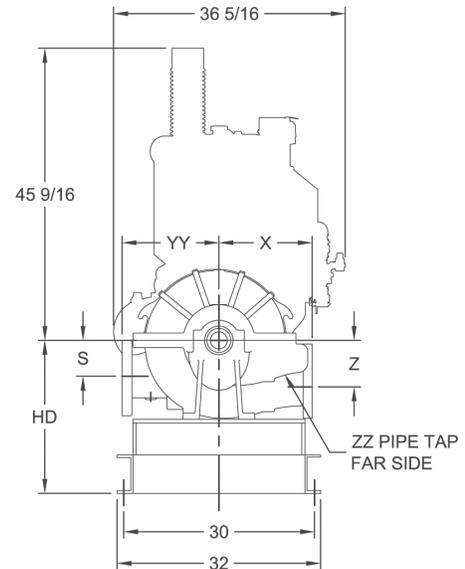
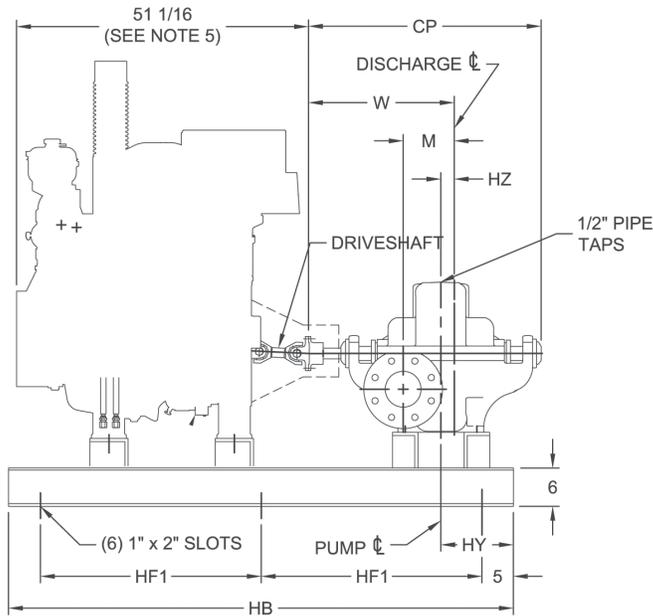
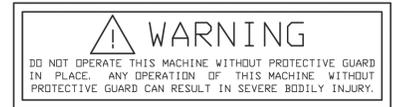
**NOTES:**

- All dimensions are in inches and may vary  $\pm .38$ .
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of  $0.25 \pm 0.08$  inches vertically above the pump shaft and  $0.00 \pm 0.08$  inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
- Pump suction and discharge flanges are ANSI Standard flat face.
- Refer to individual engine dimension print for reference point used to determine engine overall length.
- Left-hand (counterclockwise) rotation is not available.

# FAIRBANKS NIJHUIS™ MODEL 1900

TWO-STAGE FIRE PUMPS  
CLARKE MODELS JU4H-UFAD5G, UFADJG,  
UFADP0, UFADR0, UFADW8, UFADY8

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Date **NOVEMBER 2013**



UL LISTED DRIVESHAFT	
ENGINE MODEL	DRIVESHAFT MODEL
JU4H-UFAD5G, -UFADJG, -UFADP0, -UFADR0, -UFADW8, -UFADY8	CDS30-S1

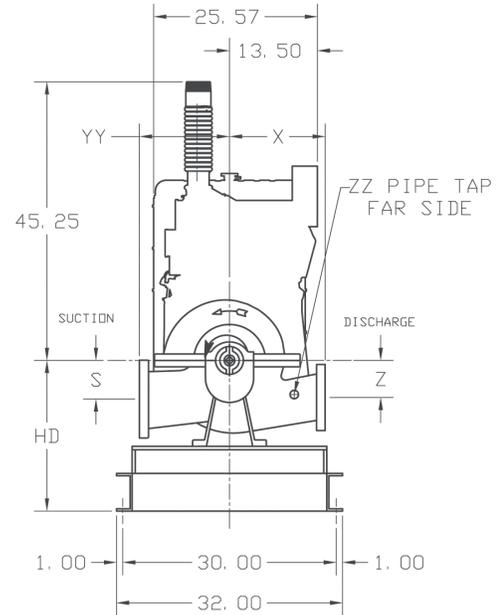
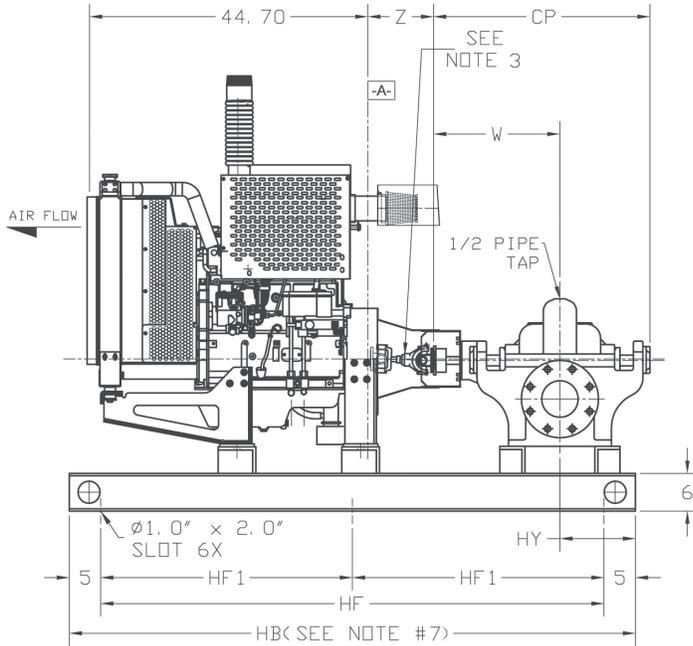
PUMP SIZE			SUCTION	POWER SERIES	M	S	W	X	Z	CP	YY	HZ	HB	HD	HF1	HY	ZZ
DISCH	MODEL	CASE BORE															
4	4"1922F	15	5	3	7-1/8	5	18-7/8	13	6-1/2	31	13-1/2	1-7/8	78	20	34	13	1-1/4
6	6"1922AF	17A	8	5	11	7	24-1/2	16	9	38	16-1/2	3-1/2	88	22	39	19	1-1/4
6	6"1922AHF	17A/DI	8	5	11	7	24-1/2	16	9	38	16-1/2	3-1/2	88	22	39	19	1-1/4

**NOTES:**

- All dimensions are in inches and may vary  $\pm .38$ .
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of  $0.35" \pm 0.10$  inches vertically above the pump shaft and  $0.00" \pm 0.10$  inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
- Pump suction and discharge flanges are ANSI Standard flat face.
- Refer to individual engine dimension print for reference point used to determine engine overall length.
- Left-hand (counterclockwise) rotation is not available.

**FAIRBANKS NIJHUIS™**  
**MODEL 1800**  
 SINGLE-STAGE FIRE PUMPS  
 CLARKE ENGINE DRIVE  
 JU4R-UFAEE7, AEF1  
 EPA NSPS TIER IT4 CERTIFIED

**WARNING**  
 DO NOT OPERATE THIS MACHINE WITHOUT PROTECTIVE GUARD IN PLACE. ANY OPERATION OF THIS MACHINE WITHOUT PROTECTIVE GUARD CAN RESULT IN SEVERE BODILY INJURY.



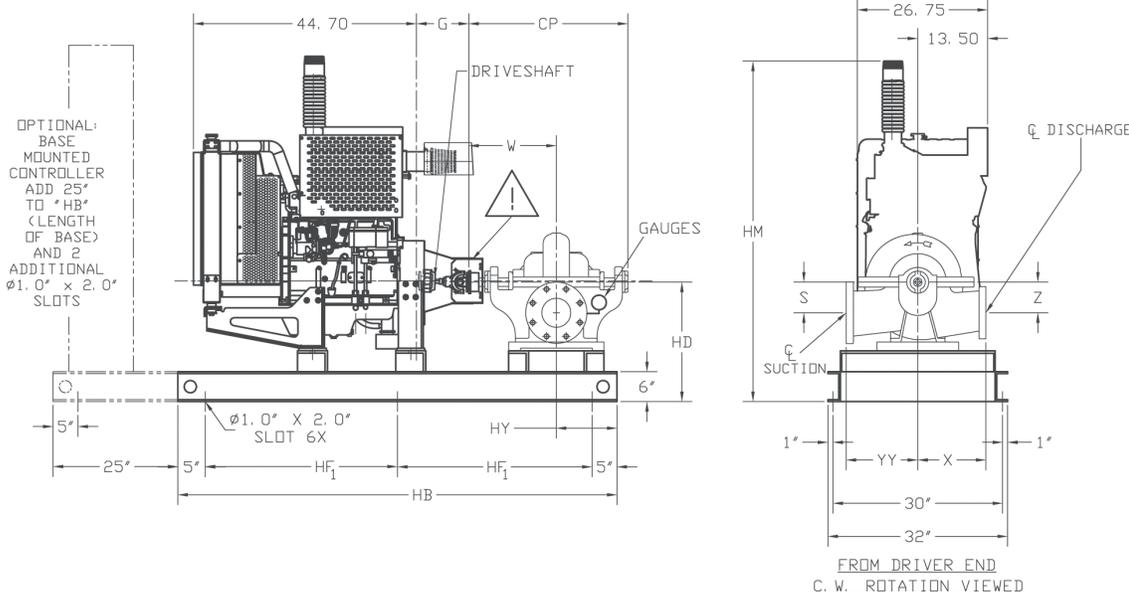
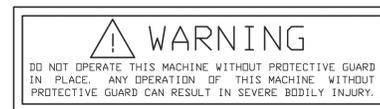
ENGINE MODEL	LISTED DRIVESHAFTS	Z
JU4R-UFAEA9	CDS10-SC	10.50
JU4R-UFAEE7, AEF1	CDS20-SC	11.00

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF	HF1	HY
DISCH	MODEL	CASE BORE														
4	4"1823F	11/A/C	5	3	5	14-1/2	11-1/4	5	26	12-3/4	1-1/4	88	20	78	39	15-1/2
4	4"1823F	11D	5	3	5	14-1/2	12	5	26	12-3/4	1-1/4	88	20	78	39	15-1/2
4	4"1824F	15	5	3	5-1/2	14-1/2	13	5-1/2	26	14	1-1/4	88	20	78	39	15-1/2
5	5"1823F/AF	15	6	4	6-1/4	16	13-1/4	6-1/4	28-1/2	15	1-1/4	88	20	78	39	14
6	6"1822F	11	8	4	6-1/4	16	11-3/4	6-1/4	28-1/2	14-1/2	1-1/4	88	21	78	39	14
6	6"1823F	15	8	5	6-3/4	18	14-1/4	6-3/4	32	16-3/4	1-1/4	88	21	78	39	12
8	8"1822F	12	10	5	8	18	17	9	32	17-3/4	1-1/4	88	24	78	39	12

**NOTES:**

- All dimensions are in inches and may vary  $\pm 3/8"$ .
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of  $0.25 \pm 0.08$  inches vertically above the pump shaft and  $0.00 \pm 0.08$  inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
- Pump suction and discharge flanges are ANSI Standard flat face.
- Refer to individual engine dimension print for reference point used to determine "C" dimension.
- Left-hand (counterclockwise) rotation is not available.
- Optional: base mounted controller (not shown) add 25" to "HB" (length of base) and 2 additional  $\phi 1.00 \times 2.00$  slots.

**FAIRBANKS NIJHUIS™**  
**MODELS 2800, 5800**  
 SINGLE-STAGE HSC FIRE PUMPS  
 JU4R-UFAEA9, AEE7, AEF1  
 EPA NSPS TIER iT4 CERTIFIED



UL LISTED DRIVESHAFT		
ENGINE MODEL	DRIVESHAFT MODEL	G
JU4H-UFAEA9	CDS10-SC	10.50
JU4H-UFAEE7, AEF1	CDS20-SC	11.00

PUMP SIZE			ENGINE MODEL JU4H-UF	SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HD	HF1	HM	HY	YY
DISCH	MODEL	CASE BORE														
4	4"2876F	11	AEA9	6	-	6-7/8	16-5/8	11-1/4	7-1/8	29-11/16	88	21	39	66-1/4	13-3/8	14
4	4"2823F	14	AEA9, AEE7, AEF1	6	-	6-7/8	17-5/8	13	8-3/8	31-11/16	98	20	44	65-1/4	22-3/8	15-1/4
4	4"5824F	18	AEA9, AEE7, AEF1	5	-	9-1/2	18-3/8	14	9-1/2	33-1/4	98	22	44	67-1/4	21-5/8	14
4	4"5823F	14	AEA9	5	-	7-3/8	18-3/8	13-1/2	7-3/8	33-3/16	88	20	39	65-1/2	11-5/8	14
5	5"2823F	14	AEE7, AEF1	8	-	8-1/4	17-5/8	13-1/2	9-3/4	31-11/16	98	23	44	68-1/4	22-3/8	17-1/4

**NOTES:**

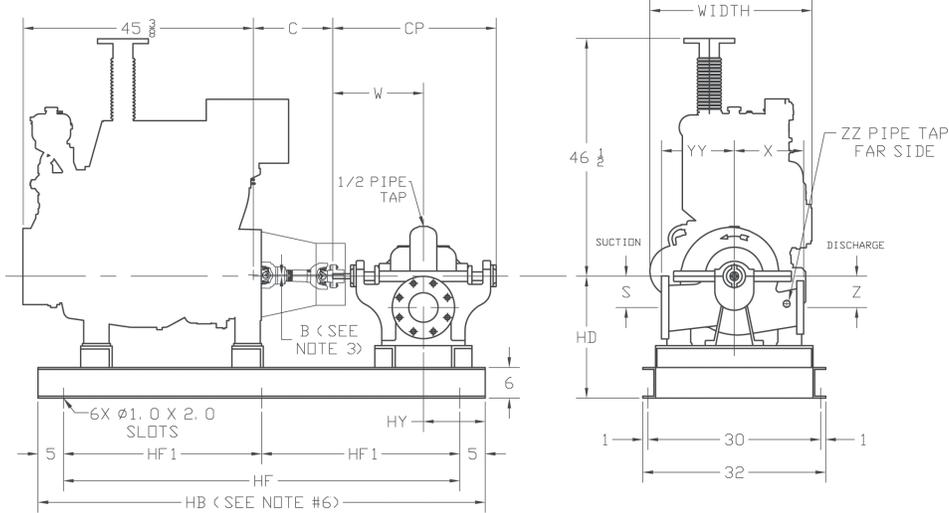
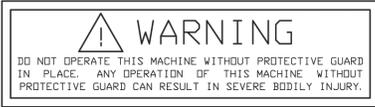
1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
2. Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
3. All bases are required to be completely filled with grout.
4. Unit installation and final driveshaft alignment must be done by the installing contractor.

**CAUTION:**

The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of 0.25" ± 0.08 inches vertically above the pump shaft and 0.00" ± 0.08 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

**FAIRBANKS NIJHUIS™**  
**MODEL 1800**

**SINGLE-STAGE FIRE PUMPS**  
**CLARKE DIESEL ENGINE DRIVE**  
**JU6H-UFAD-K0, M8, MG, 58, NG, N0, P8, P0,**  
**Q0, R0, S0, T0, 88, R8, S8, W8, X8, 98**  
**EPA NSPS TIER 3 CERTIFIED**



ENGINE MODEL: JU6H-UFAD_	C	UL LISTED DRIVESHAFT*	B DRIVESHAFT OFFSET DIMENSION
K0, M8, MG, 58, NG, N0, Q0, R0	15-5/8	CDS30-S1	0.35
P8, P0, S0, T0, 88, R8, S8, W8, X8, 98	20-3/8	CDS50-SC (1760 & 2100 RPM)	0.45

\*For engines with speeds of 1760 & 2100 RPM only. For 2350 RPM use a non-listed driveshaft.

ENGINE MODEL: JU6H-UFAD_	C	NON-LISTED DRIVESHAFT**	B DRIVESHAFT OFFSET DIMENSION
T0, S0, P0, R0	20-3/8	SC81A (2350 RPM)	0.45

\*\*For engines with speeds of 2350 RPM only. There is no listed driveshaft available in this HP range.

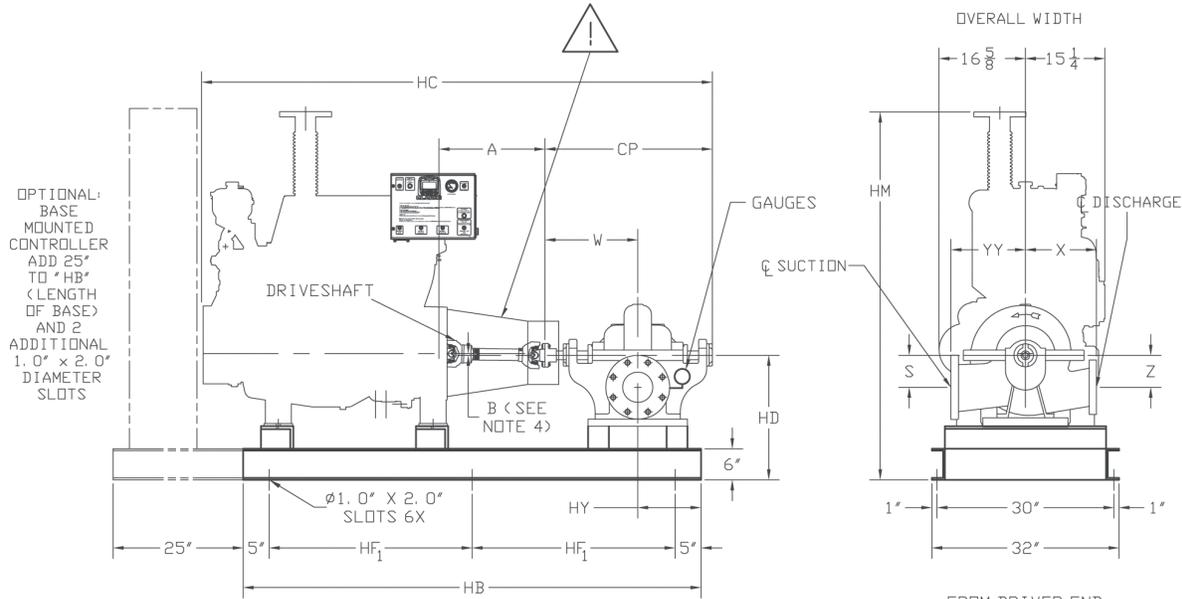
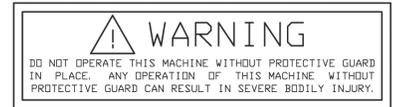
PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF	HF1	HY
DISCH	MODEL	CASE BORE														
5	5"1824F	17	6	4	6-1/4	16	14	5-1/4	28-1/2	15	1-1/4	88	20	78	39	14
6	6"1822HHF	11HH	8	4A	8-5/8	18-1/8	10	8-5/8	32-7/8	15	1-1/4	88	23	78	39	11-7/8
6	6"1823HHF	14HH	8	5A	7-1/2	20-1/2	15	7-1/2	36-3/4	17	1-1/4	98	23	88	44	19-9/16
6	6"1823F	15	8	5	6-3/4	18	14-1/4	6-3/4	32	16-3/4	1-1/4	88	21	78	39	12
6	6"1824F	18	8	5	8	18	16	8	32	18	1-1/4	88	22	78	39	12
6	6"1825F	20	8	5	8	18	15-3/4	8	32	18	1-1/4	88	22	78	39	12
8	8"1824BF	17B	10	5	8	18	17	8	32	17-3/4	2	88	24	78	39	12
8	8"1825F	21	10	6B	9-1/2	21-7/8	18	9-1/2	38	21	2	98	25	88	44	18-1/8
10	10"1823F	15	12	6B	13-1/2	21-7/8	17	13-1/2	38	20	1-1/4	98	31	88	44	13-1/8
10	10"1824F	18	12	6B	13-1/2	21-7/8	17	13-1/2	38	22	2	98	31	88	44	13-1/8
10	10"1824DF	18D	12	7A	12-1/4	24-1/4	20	12-1/4	43	24	2	98	31	88	44	15.69

**NOTES:**

- All dimensions are in inches and may vary ±3/8".
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of "B" ± 0.10 inches vertically above the pump shaft and 0.00" ± 0.10 inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
- Pump suction and discharge flanges are ANSI Standard flat face.
- Left-hand (counterclockwise) rotation is not available.
- Optional: base mounted controller (not shown) add 25" to "HB" (length of base) and 2 additional ø1.00 x 2.00 slots.

# FAIRBANKS NIJHUIS™ MODELS 1800, 2800, 5800

SINGLE-STAGE HSC FIRE PUMPS  
JU6H-UFAD-K0, M8, MG, 58, NG, N0, P8, P0,  
Q0, R0, S0, T0, 88, R8, S8, W8, X8, 98  
EPA SNPS TIER 3 CERTIFIED



ENGINE MODEL: JU6H-UFAD_	A	UL LISTED DRIVESHAFT*	B DRIVESHAFT OFFSET DIMENSION	ENGINE MODEL: JU6H-UFAD_	A	NON-LISTED DRIVESHAFT**	B DRIVESHAFT OFFSET DIMENSION
K0*, M8, MG, 58, NG, N0, Q0, R0	15 -5/8	CDS30-S1	0.35	T0, S0, P0, R0	20 -3/8	SC81A (2350 RPM)	0.45
P8, P0, S0, T0, 88, R8, S8, W8, X8, 98	20 -3/8	CDS50-SC (1760 & 2100 RPM)	0.45	**For engines with speeds of 2350 RPM only. There is no listed driveshaft available in this HP range.			

\*For engines with speeds of 1760 & 2100 RPM only. For 2350 RPM use a non-listed driveshaft.      \*\*ONLY SOLD AS PLD IN US & US TERRITORIES

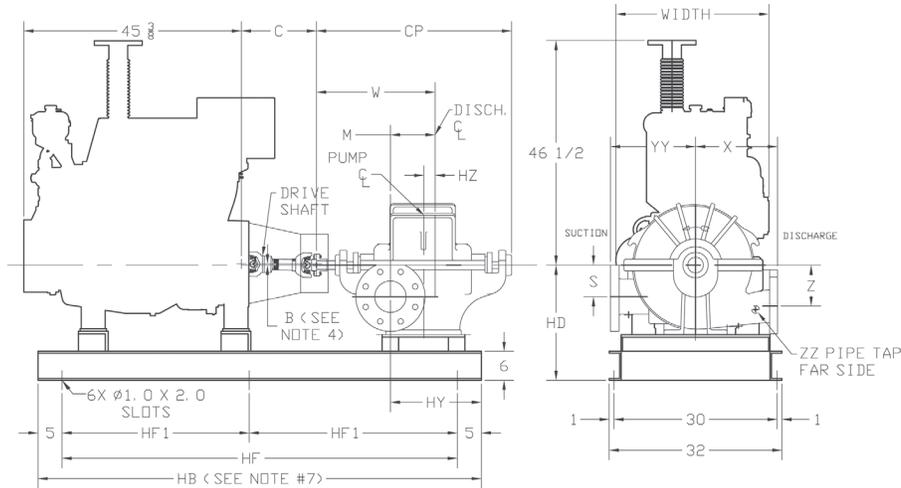
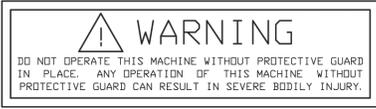
PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HC	HD	HF1	HM	HY	YY
DISCH	MODEL	CASE BORE														
5	5"2823F	14	8	-	8-1/4	17-5/8	13-1/2	9-3/4	31-11/16	98	97-7/16	23	44	70	22-3/8	17-1/4
5	5"2824F	18	8	-	8-1/8	18-7/8	15	10-5/8	33-3/8	98	99-1/8	23	44	70	21-1/8	18-3/4
6	6"2823F	14	10	-	9-3/8	20-1/8	13-3/4	10	35-7/8	98	101-5/8	25	44	72	19-7/8	18
6	6"2824F	18	10	-	9-3/8	20-1/8	16	11-3/4	35-7/8	98	101-5/8	25	44	72	19-7/8	20
6	6"2825F	19	10	-	9-3/8	22-5/8	18	12-1/8	39-1/4	98	105	26	44	73	17-3/8	22
6	6"5824F	18	8	-	9-5/8	22-1/2	16	9-5/8	40-1/8	98	105-7/8	24	44	71	17-1/2	16
8	8"2823F	14	12	-	10-3/4	20-1/2	16	10-3/4	36-5/8	98	102-3/8	28	44	75	19-1/2	22
8	8"5824F	18	12	-	10-3/4	23-3/4	16	12-1/2	41-1/2	98	107-1/4	28	44	75	16-1/4	22
8	8"1826F	24	12	7	13-1/2	28-5/8	20	15	51-1/2	108	117-1/4	31	49	78	21-3/8	25
10	10"5824F	18	12	-	11-1/2	25-9/16	21	11-1/2	45-13/16	108	111-9/16	23	49	70	14-7/16	21

- NOTES:**
- Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
  - Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
  - All bases are required to be completely filled with grout.
  - Unit installation and final driveshaft alignment must be done by the installing contractor.

**CAUTION:**  
The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of "B" ± 0.18 inches vertically above the pump shaft and 0.00" ± 0.11 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

# FAIRBANKS NIJHUIS™ MODEL 1900

TWO-STAGE FIRE PUMPS  
 CLARKE DIESEL ENGINE DRIVE  
 JU6H-UFAD-K0, M8, MG, 58, NG, N0, P8, P0,  
 Q0, R0, S0, T0, 88, R8, S8, W8, X8, 98  
 EPA NSPS TIER 3 CERTIFIED



ENGINE MODEL: JU6H-UFAD_	C	UL LISTED DRIVESHAFT*	B DRIVESHAFT OFFSET DIMENSION
K0*, M8, MG, 58, NG, N0, Q0, R0	15-5/8	CDS30-S1	0.35
P8, P0, S0, T0, 88, R8, S8, W8, X8, 98	20-3/8	CDS50-SC (1760 & 2100 RPM)	0.45

\*For engines with speeds of 1760 & 2100 RPM only. For 2350 RPM use a non-listed driveshaft.

ENGINE MODEL: JU6H-UFAD_	C	NON-LISTED DRIVESHAFT**	B DRIVESHAFT OFFSET DIMENSION
T0, S0, P0, R0	20-3/8	SC81A (2350 RPM)	0.45

\*\*For engines with speeds of 2350 RPM only. There is no listed driveshaft available in this HP range.

\* ONLY SOLD AS PLD IN US AND US TERRITORIES

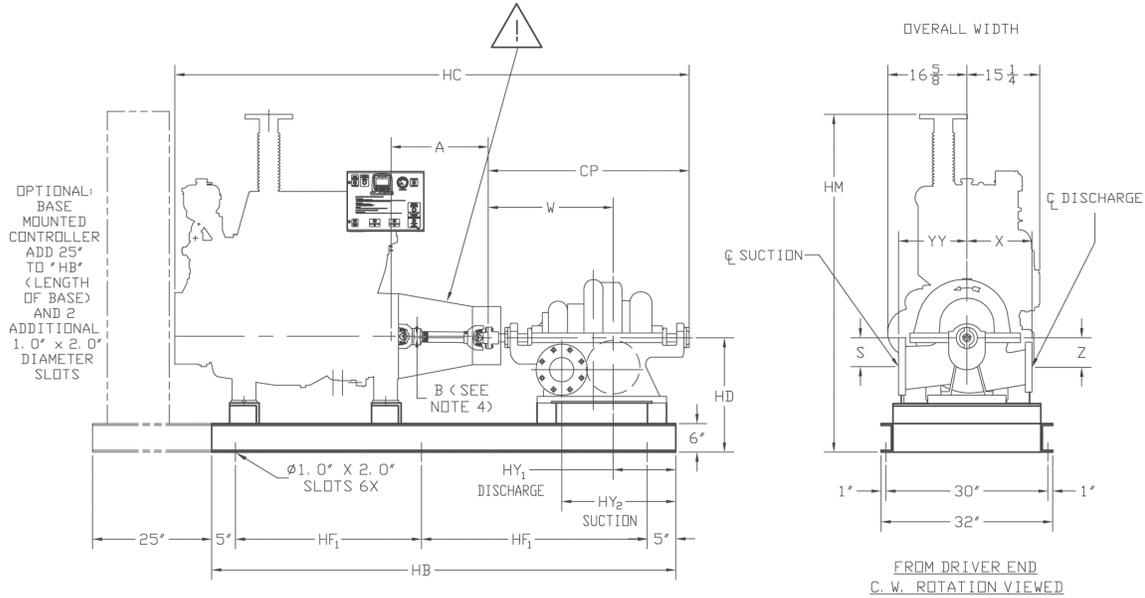
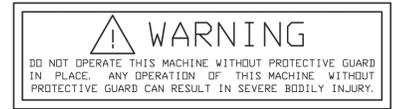
PUMP SIZE			SUCTION	POWER SERIES	M	S	W	X	Z	CP	HZ	ZZ	YY	HB	HD	HF1	HY
DISCH	MODEL	CASE BORE															
6	6"1923F	16	8	5	10-1/2	8-1/4	26-5/8	19	7-3/4	37-7/8	2-5/8	N/A	17	98	23	44	26-7/8
6	6"1922F	17	8	5	11	7	24-1/2	16	9	38	3-1/2	1-1/4	16-1/2	98	22	44	26-1/2

**NOTES:**

- All dimensions are in inches and may vary  $\pm 3/8"$ .
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of "B"  $\pm 0.10$  inches vertically above the pump shaft and 0.00"  $\pm 0.10$  inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
- Pump suction and discharge flanges are ANSI Standard flat face.
- Left-hand (counterclockwise) rotation is not available.
- Optional: base mounted controller (not shown) add 25" to "HB" (length of base) and 2 additional  $\phi 1.00 \times 2.00$  slots.

# FAIRBANKS NIJHUIS™ MODEL 5900

TWO-STAGE HSC FIRE PUMPS  
CLARKE DIESEL ENGINE DRIVE  
JU6H-UFAD-K0, M8, MG, 58, NG, N0, P8, P0,  
Q0, R0, S0, T0, 88, R8, S8, W8, X8, 98  
EPA NSPS TIER 3 CERTIFIED



ENGINE MODEL: JU6H-UFAD__	A	UL LISTED DRIVESHAFT*	B DRIVESHAFT OFFSET DIMENSION	ENGINE MODEL: T0, S0, P0, R0	A	NON-LISTED DRIVESHAFT**	B DRIVESHAFT OFFSET DIMENSION
K0*, M8, MG, 58, NG, N0, Q0, R0	15-5/8	CDS30-S1	0.35	T0, S0, P0, R0	20-3/8	SC81A (2350 RPM)	0.45
P8, P0, S0, T0, 88, R8, S8, W8, X8, 98	20-3/8	CDS50-SC (1760 & 2100 RPM)	0.45	**For engines with speeds of 2350 RPM only. There is no listed driveshaft available in this HP range.			

\*For engines with speeds of 1760 & 2100 RPM only. For 2350 RPM use a non-listed driveshaft.  
\* ONLY SOLD AS PLD IN US & US TERRITORIES

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HC	HD	HF1	HM	YY	HY1	HY2
DISCH	MODEL	CASE BORE															
6	6"5922F	17	8	-	10-1/2	31-5/8	16-1/2	10-1/2	52-1/2	108	118-1/4	25	49	72	16-1/2	18-3/8	31-3/8

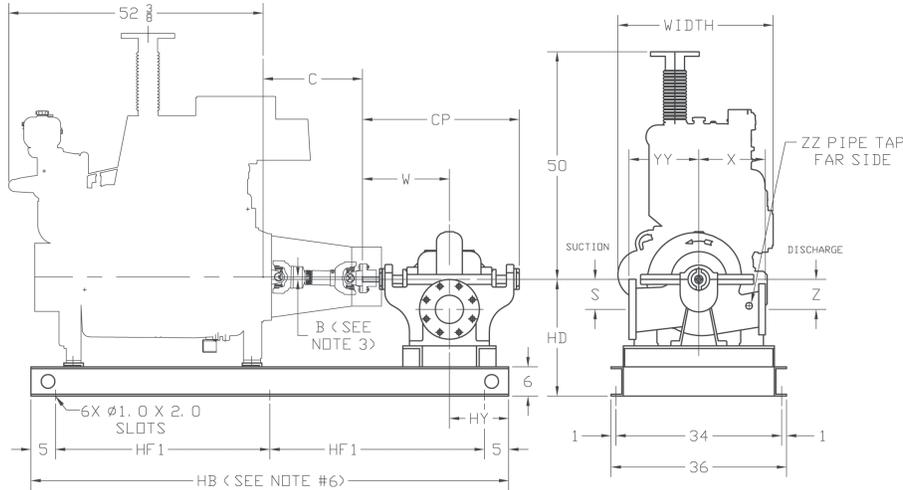
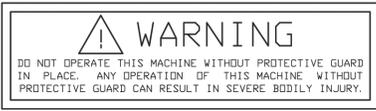
**NOTES:**

1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
2. Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
3. All bases are required to be completely filled with grout.
4. Unit installation and final driveshaft alignment must be done by the installing contractor.

**CAUTION:**

The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of "B" ± 0.18 inches vertically above the pump shaft and 0.00" ± 0.11 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

**FAIRBANKS NIJHUIS™**  
**MODEL 1800**  
 SINGLE-STAGE FIRE PUMPS  
 CLARKE DIESEL ENGINE DRIVE  
 JW6H-UFADB0, UFADD0, UFADF0,  
 UFADJ0, UFAD70, UFAD80  
 EPA NSPS TIER 3 CERTIFIED



ENGINE MODEL: JW6H-UFAD_	C	UL LISTED DRIVESHAFT*	B DRIVESHAFT OFFSET DIMENSION
B0, D0, F0, J0, 70	20.38	CDS50-SC	0.45
80	20.38	CDS50-SC (2100 RPM ONLY)	0.45

\*For engine with speed of 2100 RPM only. For 1760 RPM use a non-listed driveshaft.

ENGINE MODEL: JW6H-UFAD_	C	NON-LISTED DRIVESHAFT**	B DRIVESHAFT OFFSET DIMENSION
80	20-3/8	SC81A (1760 RPM)	0.45

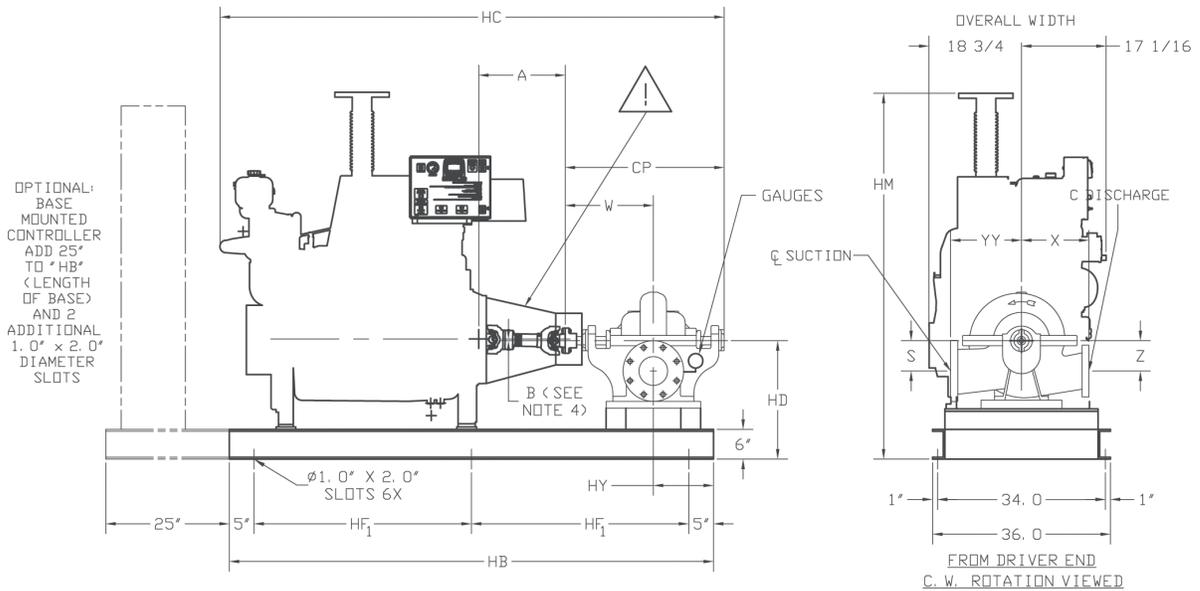
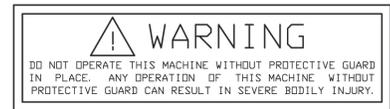
\*\*For engine with speed of 1760 RPM only. There is no listed driveshaft available in this HP range.

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF1	HY
DISCH	MODEL	CASE BORE													
6	6"1825F	20	8	5	8	18	15.75	8	32	18	1.25	98	24	44	12
8	8"1824F	17	10	5	8	18	17	8	32	17.75	2	98	24	44	12
8	8"1825F	21	10	6B	9.5	21.88	18	9.5	38	21	2	108	25	49	18.13
8	8"1826F	24	12	7	15	25.25	20	15	43.88	25	1.25	118	32	54	24.75
10	10"1824F	18	12	6B	13.5	21.88	18	13.5	38	22	2	108	32	49	18.13
10	10"1824DF	18D	12	7A	12.25	24.25	20	12.25	43	24	2	108	31	49	15.75

**NOTES:**

- All dimensions are in inches and may vary  $\pm 3/8"$ .
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of "B"  $\pm 0.10$  inches vertically above the pump shaft and  $0.00" \pm 0.10$  inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
- Pump suction and discharge flanges are ANSI Standard flat face.
- Left-hand (counterclockwise) rotation is not available.
- Optional: base mounted controller (not shown) add 25" to "HB" (length of base) and 2 additional  $\phi 1.00 \times 2.00$  slots.

**FAIRBANKS NIJHUIS™**  
**MODELS 1800, 2800, 5800**  
 SINGLE-STAGE HSC FIRE PUMPS  
 CLARKE DIESEL ENGINE DRIVE  
 JW6H-UFADB0, UFADD0, UFADF0,  
 UFADJ0, UFAD70, UFAD80  
 EPA NSPS TIER 3 CERTIFIED



ENGINE MODEL: JU6H-UFAD__	A	UL LISTED DRIVESHAFT*	B DRIVESHAFT OFFSET DIMENSION	ENGINE MODEL: JW6H-UFAD__	A	NON-LISTED DRIVESHAFT**	B DRIVESHAFT OFFSET DIMENSION
B0, D0, F0, J0, 70	20-3/8	CDS50-SC	0.45	80	20-3/8	SC81A (1760 RPM)	0.45
80	20-3/8	CDS50-SC (2100 RPM ONLY)	0.45	**For engine with speed of 1760 RPM only. There is no listed driveshaft available in this HP range.			

\*For engine with speed of 2100 RPM only. For 1760 RPM use a non-listed driveshaft.

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HC	HD	HF	HM	HY	YY
DISCH	MODEL	CASE BORE														
6	6"2824CF	18C	10	-	9-3/8	20-1/8	16	11-3/4	35-7/8	108	105-3/4	26	49	76-3/8	19-7/8	20
6	6"2825AF	19A	10	-	9-3/8	22-5/8	18	12-1/8	39-1/4	108	109-1/8	25	49	75-3/8	17-3/8	22
8	8"2823AF	14A	12	-	10-3/4	20-1/2	16	10-3/4	36-5/8	108	106-1/2	28	49	78-3/8	19-1/2	22
8	8"2824AF	18A	12	-	10-3/4	23-3/4	16	12-1/2	41-1/2	108	111-3/8	28	49	78-3/8	16-1/4	22
8	8"1826F	24	12	-	13-1/2	28-5/8	20	15	51-1/2	118	121-3/8	31	54	81-3/8	21-3/8	25
10	10"2825	20	16	-	13	25-9/16	23	14-1/4	44-9/16	118	114-7/16	32	54	82-3/8	24-7/16	25
10	10"5824	18	12	-	11-1/2	25-9/16	21	11-1/2	45-13/16	108	115-11/16	29	49	79-3/8	17-7/16	21

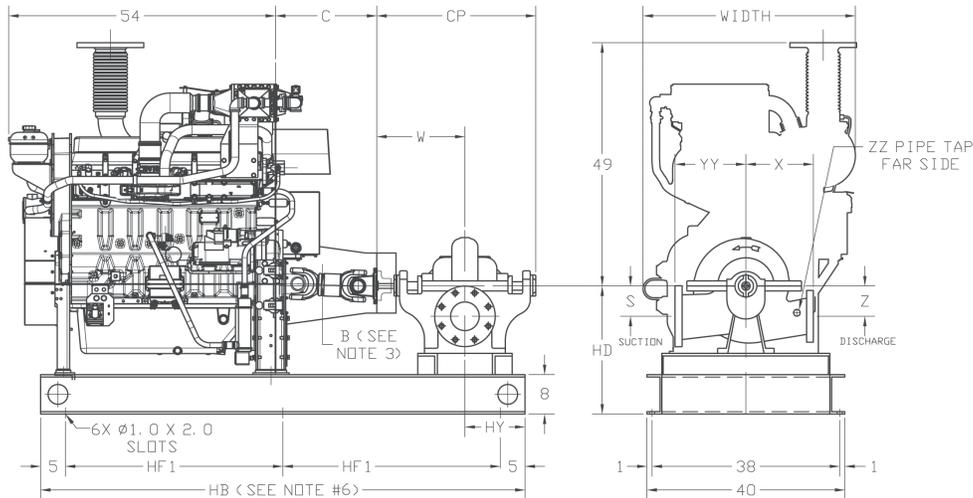
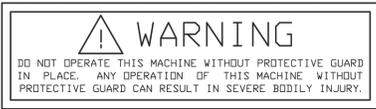
**NOTES:**

1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
2. Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
3. All bases are required to be completely filled with grout.
4. Unit installation and final driveshaft alignment must be done by the installing contractor.

**CAUTION:**

The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of "B" ± 0.18 inches vertically above the pump shaft and 0.00"± 0.11 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

**FAIRBANKS NIJHUIS™**  
**MODEL 1800**  
 SINGLE-STAGE FIRE PUMPS  
 CLARKE DIESEL ENGINE DRIVE  
 JX6H-UFADF0, UFADK0, UFADN0, UFADP0,  
 UFAD60, UFAD88  
 EPA NSPS TIER 3 CERTIFIED



ENGINE MODEL	C	WIDTH	UL LISTED DRIVESHAFT*	B DRIVESHAFT OFFSET DIMENSION
All Tier 3 JX Models	NA	NA	NA	NA

\*There are no listed driveshafts for these engines in their HP range.

ENGINE MODEL	C	WIDTH	NON-LISTED DRIVESHAFT**	B DRIVESHAFT OFFSET DIMENSION
JX6H-UFADF0, 60, K0, N0, P0, 88	20 -1/2	41-3/4	SC2160A	0.45

\*\*For all Tier 3 JX6H Models. There is no listed driveshaft available in this HP range.

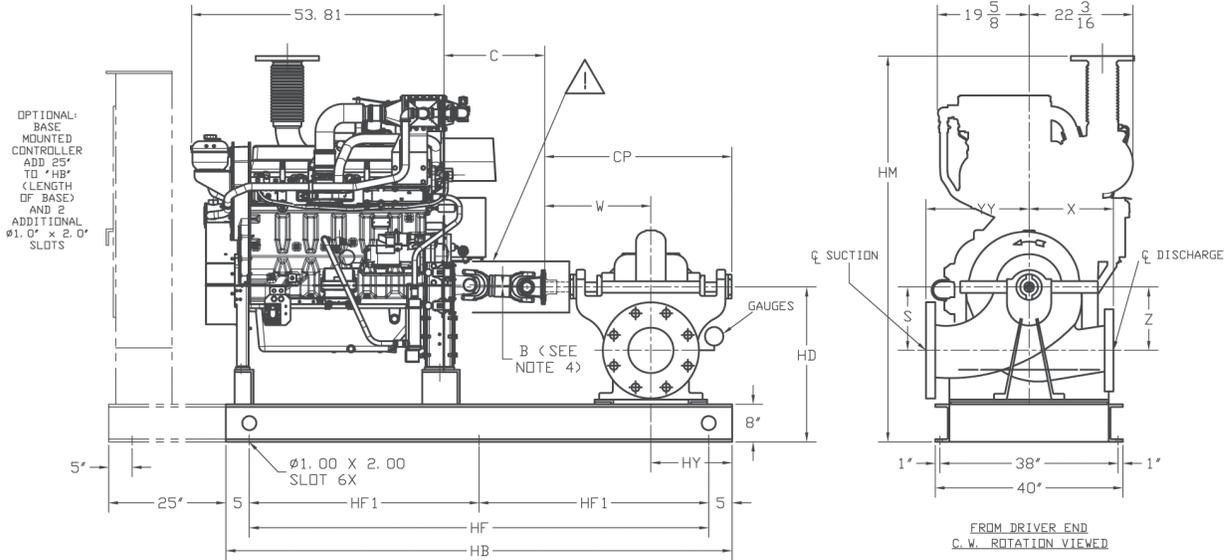
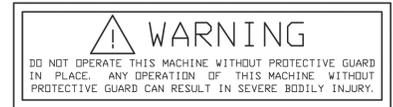
PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF1	HY
DISCH	MODEL	CASE BORE													
8	8"1826F	24	12	7	15	25.25	20	15	43.88	25	1.25	118	34	54	24.75
10	10"1824F	18	12	6B	13.5	21.88	18	13.5	38	22	2	108	33	49	18.13
10	10"1824DF	18D	12	7A	12.25	24.25	20	12.25	43	24	2	108	33	49	15.75

NOTES:

- All dimensions are in inches and may vary  $\pm 3/8"$ .
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a  $2^\circ$  angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of "B"  $\pm 0.10$  inches vertically above the pump shaft and  $0.00" \pm 0.10$  inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
- Pump suction and discharge flanges are ANSI Standard flat face.
- Left-hand (counterclockwise) rotation is not available.
- Optional: base mounted controller (not shown) add 25" to "HB" (length of base) and 2 additional  $\phi 1.00 \times 2.00$  slots.

# FAIRBANKS NIJHUIS™ MODELS 2800, 5800

SINGLE-STAGE HSC FIRE PUMPS  
CLARKE DIESEL ENGINE DRIVE  
JX6H-UFADF0, UFADK0, UFADN0,  
UFADP0, UFAD60, UFAD88  
EPA NSPS TIER 3 CERTIFIED



ENGINE MODEL	C	WIDTH	NON-LISTED DRIVESHAFT**	B DRIVESHAFT OFFSET DIMENSION
JX6H-UFADFO,K0,N0, PO,60,88	20 -1/2	41-3/4	SC2160A	0.45

\*\*For all Tier 3 JX6H Models. There is no listed driveshaft available in this HP range.

ENGINE MODEL	C	WIDTH	UL LISTED DRIVESHAFT*	B DRIVESHAFT OFFSET DIMENSION
All Tier 3 JX Models	NA	NA	NA	NA

\*There are no listed driveshafts available for these engines.

DISCH	PUMP SIZE		SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HD	HF	HF1	HM	HY	YY
	MODEL	CASE BORE														
6	6"2825	19	10	-	9-3/8	22-5/8	18	12-1/8	39-1/4	108	28	98	49	76-7/8	16-5/8	22
8	8"2824	18	12	-	10-3/4	23-3/4	16	12-1/2	41-1/2	108	30	98	49	78-7/8	16-1/4	22
10	10"5824F	18	12	-	11-1/2	25-9/16	21	11-1/2	45-13/16	118	31	108	54	79-7/8	24-7/16	21

**NOTES:**

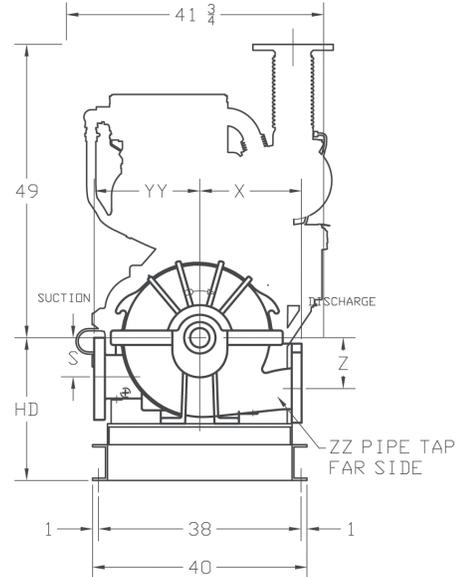
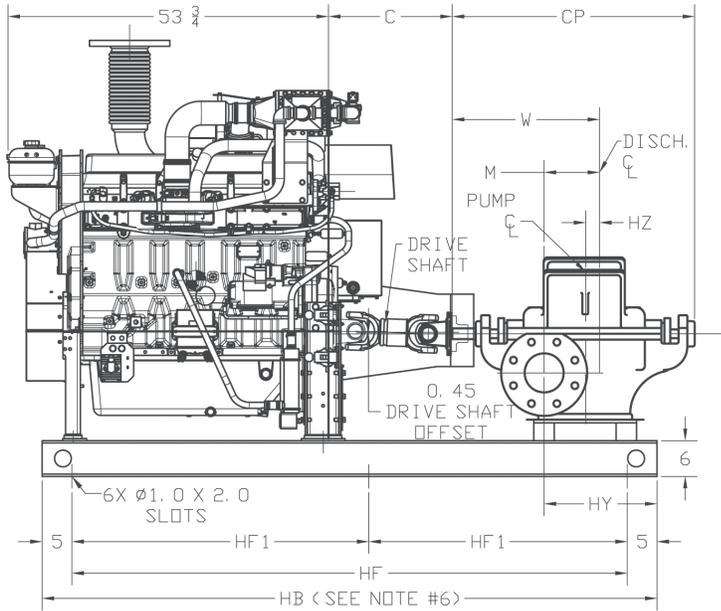
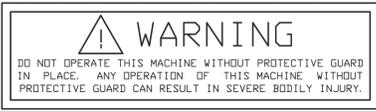
1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
2. Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
3. All bases are required to be completely filled with grout.
4. Unit installation and final driveshaft alignment must be done by the installing contractor.

**CAUTION:**

The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of "B" ± 0.18 inches vertically above the pump shaft and 0.00 ± 0.11 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

**FAIRBANKS NIJHUIS™**  
**MODEL 1900**

TWO-STAGE FIRE PUMPS  
 CLARKE DIESEL ENGINE DRIVE  
 JX6H-UFADF0, UFADK0, UFADN0, UFADP0,  
 UFAD60, UFAD88  
 EPA NSPS TIER 3 CERTIFIED



ENGINE MODEL	C	WIDTH	UL LISTED DRIVESHAFT*	B DRIVESHAFT OFFSET DIMENSION
All Tier 3 JX Models	NA	NA	NA	NA

\*There are no listed driveshafts for these engines in their HP range.

ENGINE MODEL	C	NON-LISTED DRIVESHAFT**
JX6H-UFADF0, 60, K0, N0, P0, 88	20-1/2	SC2160A

\*\*For all Tier 3 JX6H Models. There is no listed driveshaft available.

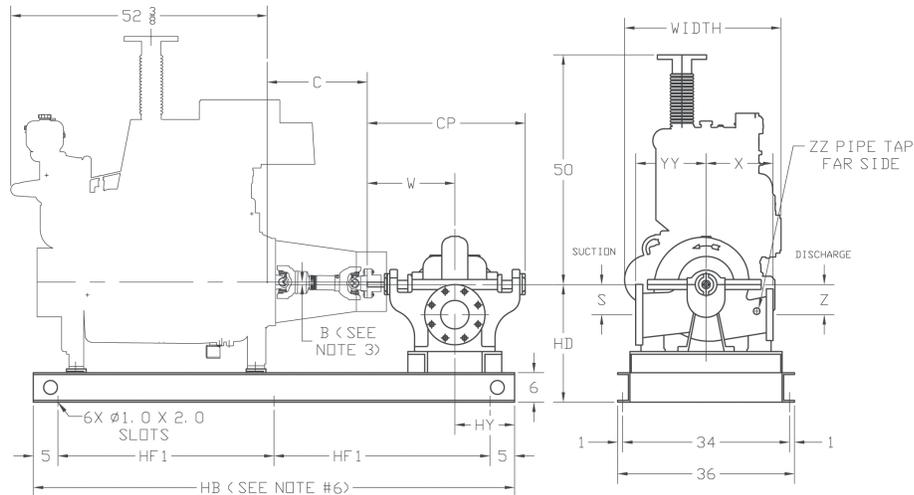
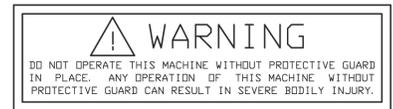
PUMP SIZE			SUCTION	POWER SERIES	M	S	W	X	Z	CP	HZ	ZZ	YY	HB	HD	HF1	HY
DISCH	MODEL	CASE BORE															
6	6"1923F	16	8	5	10-1/2	8-1/4	26-5/8	19	7-3/4	37-7/8	2-5/8	N/A	17	108	26	49	26-7/8

NOTES:

- All dimensions are in inches and may vary  $\pm 3/8"$ .
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of .45"  $\pm$  0.15 inches vertically above the pump shaft and 0.00"  $\pm$  0.15 inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
- Pump suction and discharge flanges are ANSI Standard flat face.
- Left-hand (counterclockwise) rotation is not available.
- Optional: base mounted controller (not shown) add 25" to "HB" (length of base) and 2 additional  $\phi 1.00 \times 2.00$  slots.

# FAIRBANKS NIJHUIS™ MODEL 1800

SINGLE-STAGE FIRE PUMPS  
CLARKE DIESEL ENGINE DRIVE  
JW6H-UFAAM8, UFAA80  
EPA NSPS TIER 3 CERTIFIED



ENGINE MODEL: JW6H-UF ____	C	UL LISTED DRIVESHAFT*	B DRIVESHAFT OFFSET DIMENSION
AAM8	20.38	CDS50-SC	0.45
AA80	20.38	CDS50-SC (2100 RPM ONLY)	0.45

\*For engine with speed of 2100 RPM only. For 1760 RPM use a non-listed driveshaft.

ENGINE MODEL: JW6H-UF ____	C	NON-LISTED DRIVESHAFT**	B DRIVESHAFT OFFSET DIMENSION
AA80	20-3/8	SC81A (1760 RPM)	0.45

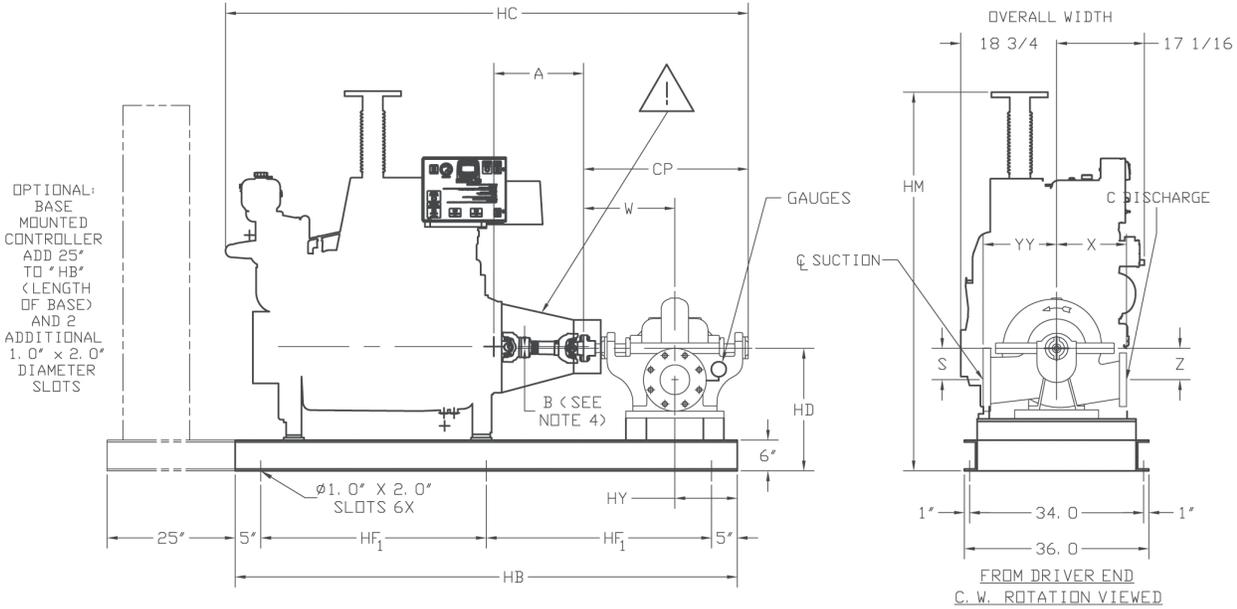
\*\*For engine with speed of 1760 RPM only. There is no listed driveshaft available in this HP range.

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF1	HY
DISCH	MODEL	CASE BORE													
8	8"1824F	17	10	5	8	18	17	8	32	17-3/4	2	98	24	44	12
8	8"1825F	21	10	6B	9.5	21.88	18	9.5	38	21	2	108	25	49	18.13
8	8"1826F	24	12	7	15	25.25	20	15	43.88	25	1.25	118	32	54	24.75
10	10"1824F	18	12	6B	13.5	21.88	18	13.5	38	22	2	108	32	49	18.13
10	10"1824DF	18D	12	7A	12.25	24.25	20	12.25	43	24	2	108	31	49	15.75

**NOTES:**

- All dimensions are in inches and may vary  $\pm 3/8"$ .
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of "B"  $\pm 0.10$  inches vertically above the pump shaft and  $0.00" \pm 0.10$  inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
- Pump suction and discharge flanges are ANSI Standard flat face.
- Left-hand (counterclockwise) rotation is not available.
- Optional: base mounted controller (not shown) add 25" to "HB" (length of base) and 2 additional  $\phi 1.00 \times 2.00$  slots.

**FAIRBANKS NIJHUIS™**  
**MODEL 1800**  
 SINGLE-STAGE HSC FIRE PUMPS  
 CLARKE DIESEL ENGINE DRIVE  
 JW6H-UFAAM8, -UFAA80  
 CERTIFIED (EXPORT ONLY)



ENGINE MODEL: JU6H-UF ____	A	UL LISTED DRIVESHAFT*	B DRIVESHAFT OFFSET DIMENSION
AAM8	20-3/8	CDS50-SC	0.45
AA80	20-3/8	CDS50-SC (2100 RPM ONLY)	0.45

\*For engine with speed of 2100 RPM only. For 1760 RPM use a non-listed driveshaft.

ENGINE MODEL: JW6H-UF ____	A	NON-LISTED DRIVESHAFT**	B DRIVESHAFT OFFSET DIMENSION
AA80	20-3/8	SC81A (1760 RPM)	0.45

\*\*For engine with speed of 1760 RPM only. There is no listed driveshaft available in this HP range.

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HC	HD	HF	HM	HY	YY
DISCH	MODEL	CASE BORE														
6	6"2824CF	18C	10	-	9-3/8	20-1/8	16	11-3/4	35-7/8	108	105-3/4	26	49	76-3/8	19-7/8	20
6	6"2825AF	19	10	-	9-3/8	22-5/8	18	12-1/8	39-1/4	108	109-1/8	25	49	75-3/8	17-3/8	22
8	8"2823AF	14	12	-	10-3/4	20-1/2	16	10-3/4	36-5/8	108	106-1/2	28	49	78-3/8	19-1/2	22
8	8"2814AF	18	12	-	10-3/4	23-3/4	16	12-1/2	41-1/2	108	111-3/8	28	49	78-3/8	16-1/4	22
8	8"1826F	24	12	7	13-1/2	28-5/8	20	15	51-1/2	118	121-3/8	31	54	81-3/8	21-3/8	25
10	10"2825F	20	16	-	13	25-9/16	23	14-1/4	44-9/16	118	114-7/16	32	54	82-3/8	24-7/16	25
10	10"5824F	18	12	-	11-1/2	25-9/16	21	11-1/2	45-13/16	108	115-11/16	29	49	79-3/8	14-7/16	21

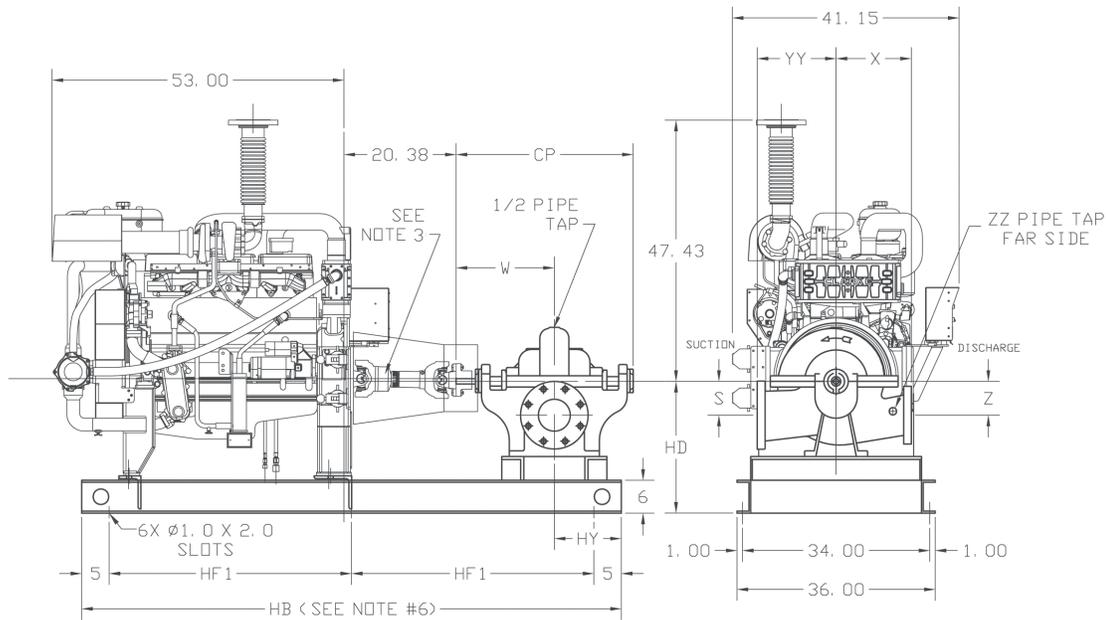
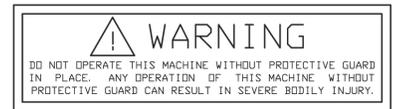
- NOTES:
1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
  2. Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
  3. All bases are required to be completely filled with grout.
  4. Unit installation and final driveshaft alignment must be done by the installing contractor.

CAUTION:  
 The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of "B" ± 0.18 inches vertically above the pump shaft and 0.00"± 0.11 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

# FAIRBANKS NIJHUIS™ MODEL 1800

SINGLE-STAGE FIRE PUMPS  
CLARKE DIESEL ENGINE DRIVE  
DP6H-UFAA50 AND UFAA62  
CERTIFIED (EXPORT ONLY)

Section **913** Page **273**  
Date **NOVEMBER 2013**



ENGINE MODEL: DP6H-UFAA_	LISTED DRIVESHAFT*
50	CDS50-SC
*For engine with speed of 1470 to 2100 RPM only.	

ENGINE MODEL: DP6H-UFAA_	NON-LISTED DRIVESHAFT**
50, 62	SC81A (2600 RPM)
**For engine with speed of greater than 2100 RPM only.	

DISCH	PUMP SIZE		SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF1	HY
	MODEL	CASE BORE													
6	6"1823HHF	14HH	8	5A	7.5	20.44	15	7.5	36.75	17	1.25	108	24	49	19.56
6	6"1825F	20	8	5	8	18	15.75	8	32	18	1.25	98	24	44	12
8	8"1824F	17	10	5	8	18	17	8	32	17.75	1.25	98	24	44	12
8	8"1825F	21	10	6B	9.5	21.88	18	9.5	38	21	1.25	108	25	49	18.13
8	8"1826F	24	12	7	15	25.25	20	15	43.88	25	1.25	118	32	54	24.75
10	10"1824F	18	12	6B	13.5	21.88	18	13.5	38	22	1.25	108	31	49	18.13
10	10"1824DF	18D	12	7A	12.25	24.25	20	12.25	43	24	1.25	108	31	49	15.75

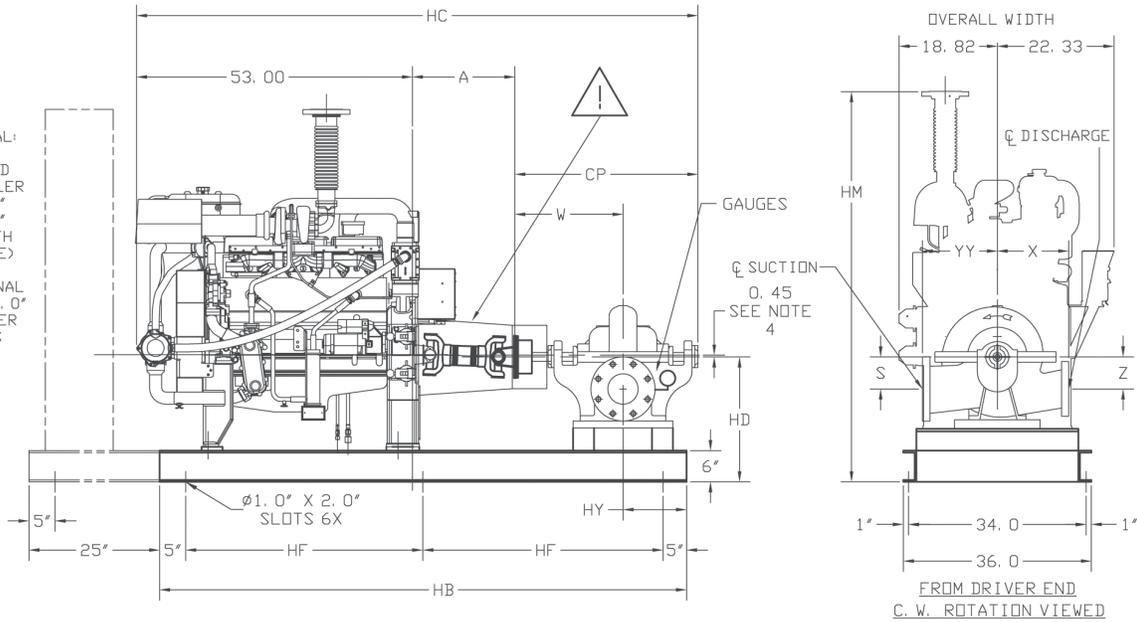
**NOTES:**

- All dimensions are in inches and may vary  $\pm 3/8"$ .
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a  $2^\circ$  angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of  $.45" \pm 0.11$  inches vertically above the pump shaft and  $0.00" \pm 0.11$  inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
- Pump suction and discharge flanges are ANSI Standard flat face.
- Left-hand (counterclockwise) rotation is not available.
- Optional: base mounted controller (not shown) add  $25"$  to "HB" (length of base) and 2 additional  $\phi 1.00 \times 2.00$  slots.

**FAIRBANKS NIJHUIS™**  
**MODEL 2800**  
 SINGLE-STAGE HSC FIRE PUMPS  
 CLARKE DIESEL ENGINE DRIVE  
 DP6H-UFAA50 AND UFAA62  
 CERTIFIED (EXPORT ONLY)

**WARNING**  
 DO NOT OPERATE THIS MACHINE WITHOUT PROTECTIVE GUARD IN PLACE. ANY OPERATION OF THIS MACHINE WITHOUT PROTECTIVE GUARD CAN RESULT IN SEVERE BODILY INJURY.

OPTIONAL:  
 BASE MOUNTED CONTROLLER  
 ADD 25" TO "HB"  
 (<LENGTH OF BASE)  
 AND 2 ADDITIONAL 1.0" x 2.0" DIAMETER SLOTS



ENGINE MODEL: DP6H-UF	A	LISTED DRIVESHAFT*
AA50, AA62	20-3/8	CDS50-SC
*For engine with speed of 1760 & 2100 RPM only.		

ENGINE MODEL: DP6H-UF	A	NON-LISTED DRIVESHAFT*
AA50, AA62	20-3/8	SC81A
*For 2350 RPM use a non-listed driveshaft.		

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HC	HD	HF	HM	HY	YY
DISCH	MODEL	CASE BORE														
6	6"2825AF	19A	10	-	9-3/8	20-5/8	18	12-1/8	39-1/4	108	112-5/8	25	49	72-7/16	17-3/8	22
8	8"2823AF	14A	12	-	10-3/4	20-1/2	16	10-3/4	36-5/8	108	110	28	49	75-7/16	19-1/2	22
8	8"2824AF	18A	12	-	10-3/4	23-3/4	16	12-1/2	41-1/2	108	114-7/8	28	49	75-7/16	16-1/4	22

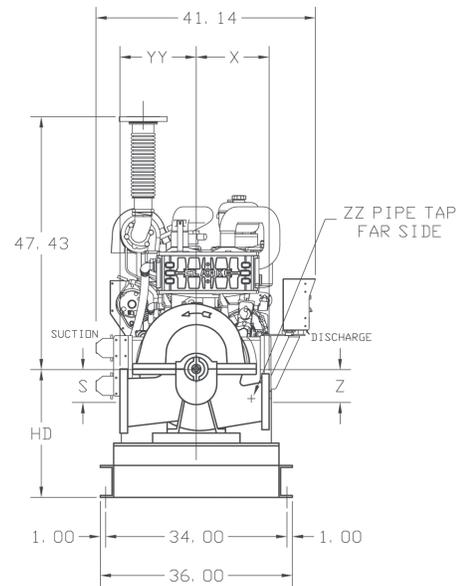
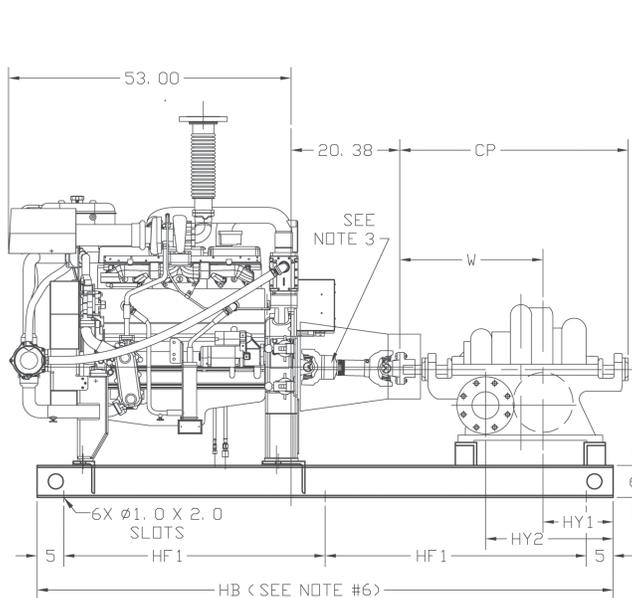
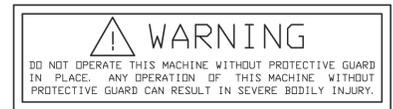
- NOTES:
1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
  2. Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
  3. All bases are required to be completely filled with grout.
  4. Unit installation and final driveshaft alignment must be done by the installing contractor.

CAUTION:  
 The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of 0.45" ± 0.11 inches vertically above the pump shaft and 0.00" ± 0.11 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

# FAIRBANKS NIJHUIS™ MODEL 1900

MULTI-STAGE FIRE PUMPS  
CLARKE DIESEL ENGINE DRIVE  
DP6H-UFAA50 AND UFAA62  
CERTIFIED (EXPORT ONLY)

Section **913** Page **275**  
Date **NOVEMBER 2013**



ENGINE MODEL: DP6H-UFAA_	LISTED DRIVESHAFT*
50	CDS50-SC
*For engine with speed of 1470 to 2100 RPM only.	

ENGINE MODEL: DP6H-UFAA_	NON-LISTED DRIVESHAFT**
50, 62	SC81A (2600 RPM)
**For engine with speed of greater than 2100 RPM only.	

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF1	HY1	HY2
DISCH	MODEL	CASE BORE														
6	6"1923F	16	8	5	8.25	23.63	19	7.75	37.88	17	1.25	108	24	49	16.38	26.88
6	6"1922F	17	8	5	7	24.5	16	9	38	16.5	1.25	108	24	49	15.5	26.5

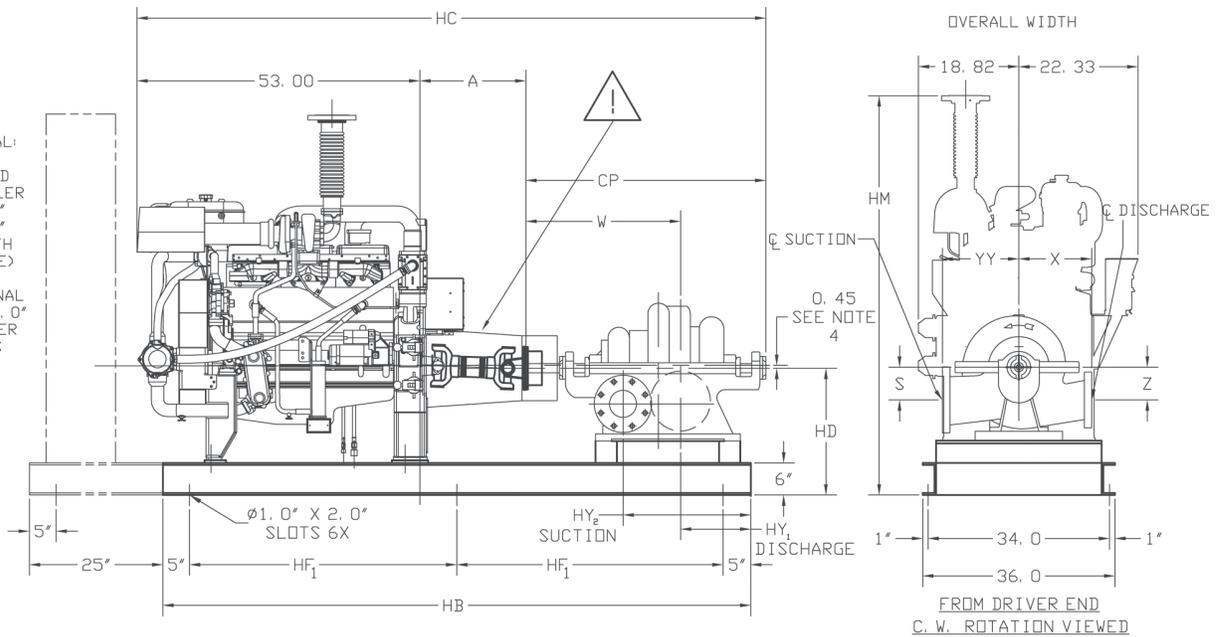
**NOTES:**

- All dimensions are in inches and may vary  $\pm 3/8"$ .
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a  $2^\circ$  angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of  $.45" \pm 0.11$  inches vertically above the pump shaft and  $0.00" \pm 0.11$  inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
- Pump suction and discharge flanges are ANSI Standard flat face.
- Left-hand (counterclockwise) rotation is not available.
- Optional: base mounted controller (not shown) add 25" to "HB" (length of base) and 2 additional  $\phi 1.00 \times 2.00$  slots.

**FAIRBANKS NIJHUIS™**  
**MODEL 5900**  
 MULTI-STAGE HSC FIRE PUMPS  
 CLARKE DIESEL ENGINE DRIVE  
 DP6H-UFAA50 AND UFAA62  
 CERTIFIED (EXPORT ONLY)

**WARNING**  
 DO NOT OPERATE THIS MACHINE WITHOUT PROTECTIVE GUARD IN PLACE. ANY OPERATION OF THIS MACHINE WITHOUT PROTECTIVE GUARD CAN RESULT IN SEVERE BODILY INJURY.

OPTIONAL:  
 BASE  
 MOUNTED  
 CONTROLLER  
 ADD 25"  
 TO "HB"  
 (LENGTH  
 OF BASE)  
 AND 2  
 ADDITIONAL  
 1.0" x 2.0"  
 DIAMETER  
 SLOTS



ENGINE MODEL: DP6H-UF	A	LISTED DRIVESHAFT*
AA50, AA62	20-3/8	CDS50-SC
*For engine with speed of 1760 & 2100 RPM only.		

ENGINE MODEL: DP6H-UF	A	NON-LISTED DRIVESHAFT*
AA50, AA62	20-3/8	SC81A
*For 2350 RPM use a non-listed driveshaft.		

PUMP SIZE			SUC-TION	POWER SERIES	S	W	X	Z	CP	HB	HC	HD	HF1	HM	YY	HY1	HY2
DISCH	MODEL	CASE BORE															
6	6"5922F	17	8	-	10-1/2	31-5/8	16-1/2	10-1/2	52-1/2	118	125-7/8	25	54	72-7/16	16-1/2	18-3/8	31-3/8

**NOTES:**

1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
2. Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
3. All bases are required to be completely filled with grout.
4. Unit installation and final driveshaft alignment must be done by the installing contractor.

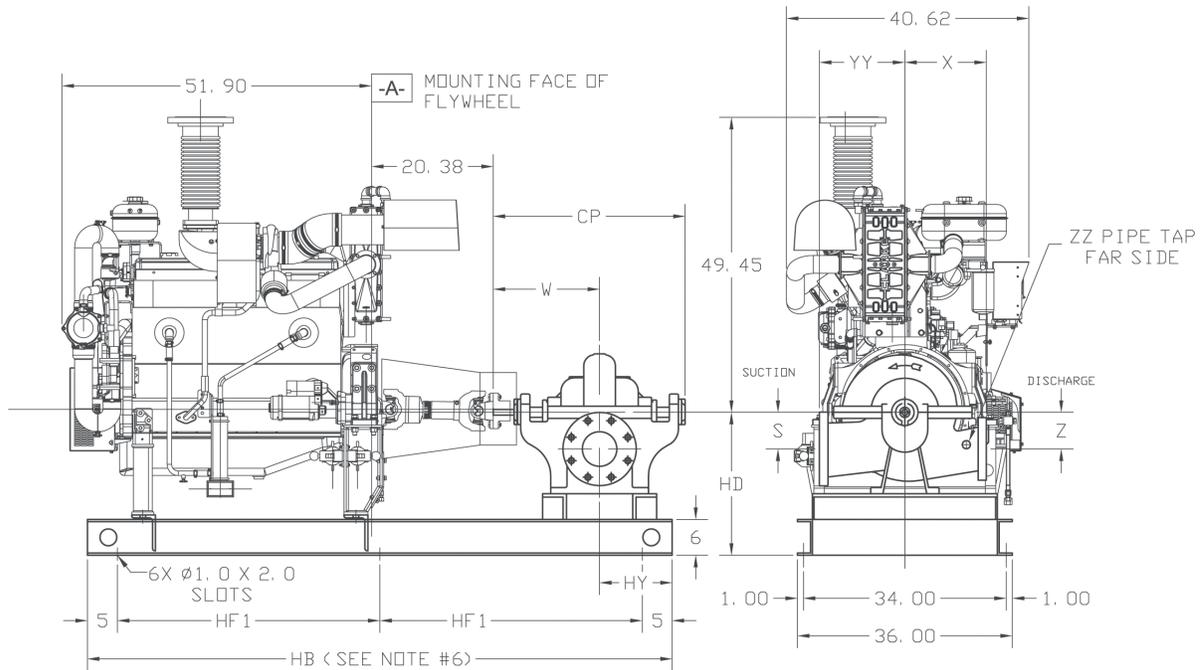
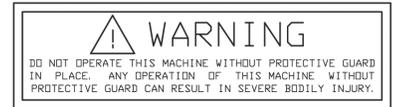
**CAUTION:**

The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of 0.45" ± 0.11 inches vertically above the pump shaft and 0.00" ± 0.11 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

# FAIRBANKS NIJHUIS™ MODEL 1800

SINGLE-STAGE FIRE PUMPS  
CLARKE DIESEL ENGINE DRIVE  
DQ6H-UFAA48, UFAA4G, UFAA50,  
UFAA60, UFAA88, UFAA98  
CERTIFIED (EXPORT ONLY)

Section **913** Page **277**  
Date **NOVEMBER 2013**



ENGINE MODEL: DQ6H-UFAA__	LISTED DRIVESHAFT CDS50-SC
48, 4G, 50, 60, 88, 98	

DISCH	PUMP SIZE		SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF1	HY
	MODEL	CASE BORE													
6	6"1825F	20	8	5	8	18	15.75	8	32	18	1.25	98	24	44	12
8	8"1824F	17	10	5	8	18	17	8	32	17.75	1.25	98	24	44	12
8	8"1825F	21	10	6B	9.5	21.88	18	9.5	38	21	1.25	108	25	49	18.13
8	8"1826F	24	12	7	15	25.25	20	15	43.88	25	1.25	118	32	54	24.75
10	10"1824F	18	12	6B	13.5	21.88	18	13.5	38	22	1.25	108	31	49	18.13
10	10"1824DF	18D	12	7A	12.25	24.25	20	12.25	43	24	1.25	108	31	49	15.75

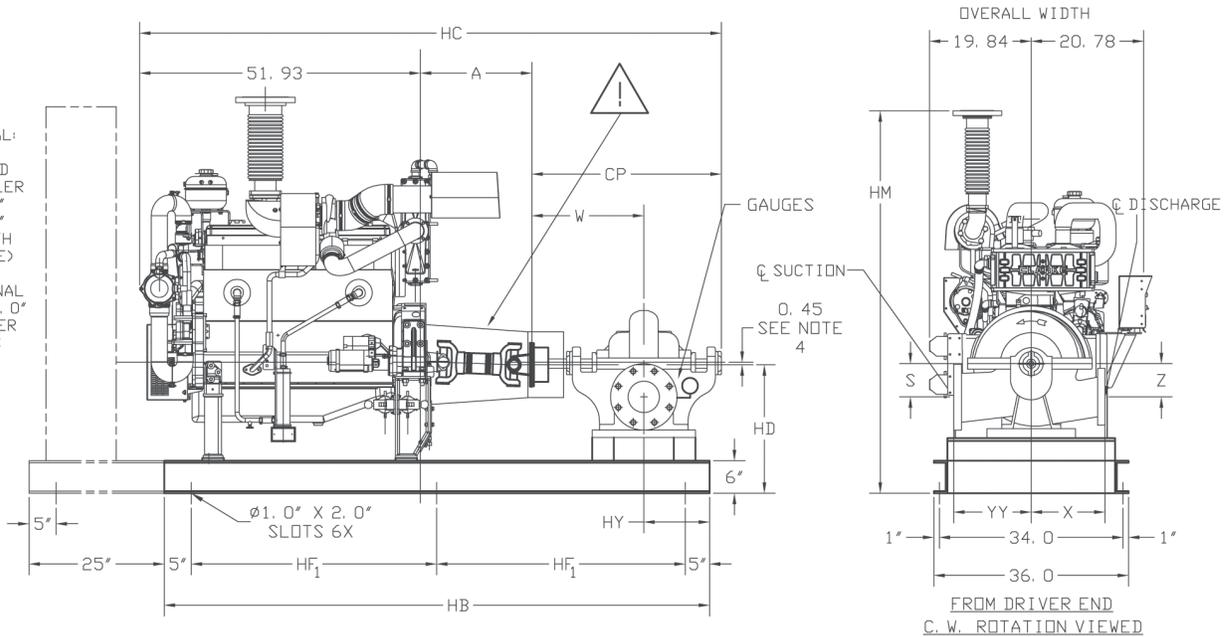
**NOTES:**

- All dimensions are in inches and may vary  $\pm 3/8"$ .
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of  $.45" \pm 0.11$  inches vertically above the pump shaft and  $0.00" \pm 0.11$  inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
- Pump suction and discharge flanges are ANSI Standard flat face.
- Left-hand (counterclockwise) rotation is not available.
- Optional: base mounted controller (not shown) add 25" to "HB" (length of base) and 2 additional  $\phi 1.00 \times 2.00$  slots.

**FAIRBANKS NIJHUIS™**  
**MODELS 1800, 2800**  
 SINGLE-STAGE HSC FIRE PUMPS  
 CLARKE DIESEL ENGINE DRIVE  
 DQ6H-UFAA48, UFAA4G, UFAA50,  
 UFAA60, UFAA88, UFAA98  
 CERTIFIED (EXPORT ONLY)

**WARNING**  
 DO NOT OPERATE THIS MACHINE WITHOUT PROTECTIVE GUARD IN PLACE. ANY OPERATION OF THIS MACHINE WITHOUT PROTECTIVE GUARD CAN RESULT IN SEVERE BODILY INJURY.

OPTIONAL:  
 BASE  
 MOUNTED  
 CONTROLLER  
 ADD 25"  
 TO "HB"  
 (LENGTH  
 OF BASE)  
 AND 2  
 ADDITIONAL  
 1.0" x 2.0"  
 DIAMETER  
 SLOTS



ENGINE MODEL: DQ6H-UF___	A	LISTED DRIVESHAFT
AA48, 4G, 50, 60, 88, 98	20-3/8	CDS50-SC

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HC	HD	HF	HM	HY	YY
DISCH	MODEL	CASE BORE														
6	6"2824CF	18C	10	—	9-3/8	20-5/8	16	11-3/4	35-7/8	108	107-1/4	26	49	75-7/16	19-7/8	20
6	6"2825AF	19A	10	—	9-3/8	22-5/8	18	12-1/8	39-1/4	108	111-1/2	25	49	74-7/16	17-3/8	22
8	8"2824AF	18A	12	—	10-3/4	23-3/4	16	12-1/2	41-1/2	108	113-3/4	28	49	77-7/16	16-1/4	22
8	8"1826F	24	12	—	13-1/2	28-5/8	20	15	51-1/2	118	123-3/4	31	54	80-7/16	21-3/8	25
10	10"2825AF	20A	16	—	13	25.56	23	14-1/4	44-9/16	118	116-7/8	32	54	81-7/16	24-7/16	25

**NOTES:**

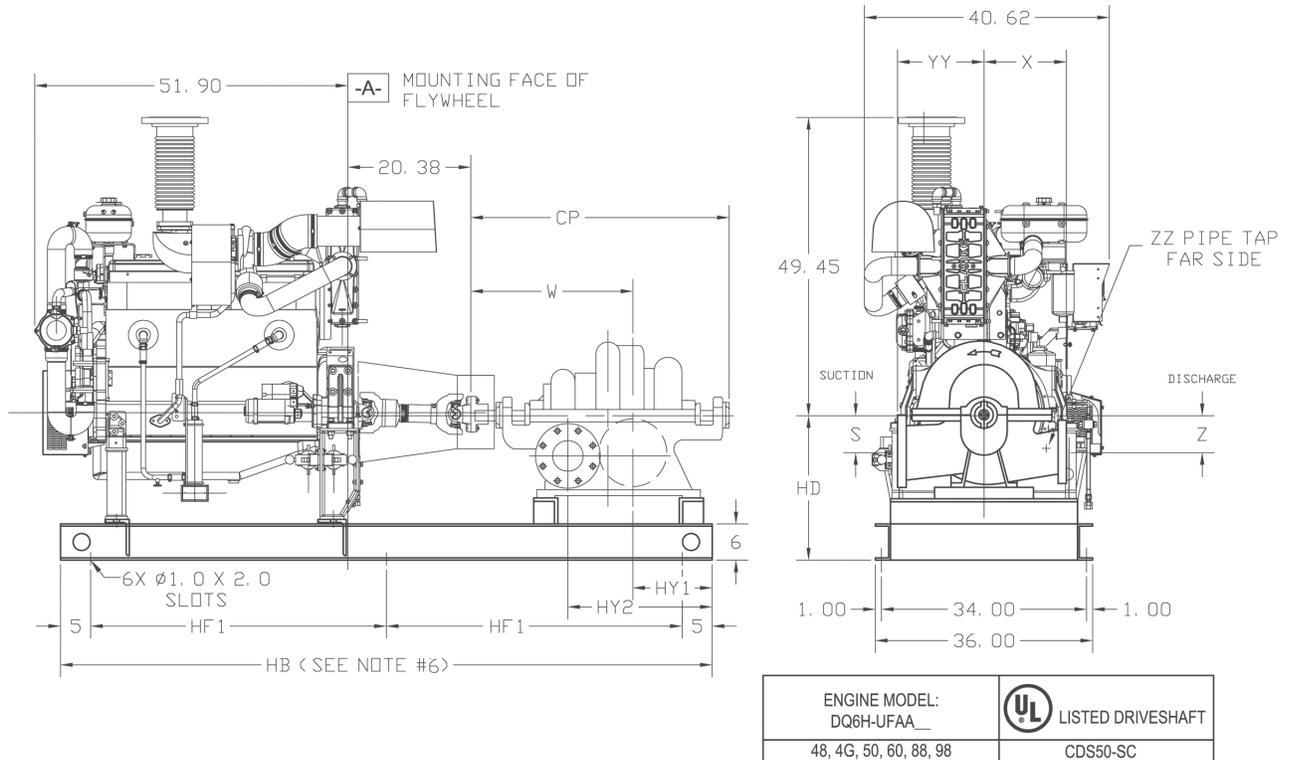
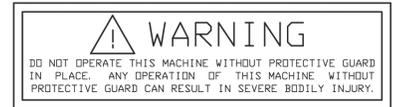
1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
2. Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
3. All bases are required to be completely filled with grout.
4. Unit installation and final driveshaft alignment must be done by the installing contractor.

**CAUTION:** The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of 0.45" ± 0.11 inches vertically above the pump shaft and 0.00" ± 0.11 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

# FAIRBANKS NIJHUIS™ MODEL 1900

MULTI-STAGE FIRE PUMPS  
CLARKE DIESEL ENGINE DRIVE  
DQ6H-UFAA48, UFAA4G, UFAA50, UFAA60,  
UFAA88, UFAA98  
CERTIFIED (EXPORT ONLY)

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Date **NOVEMBER 2013**



PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF1	HY1	HY2
DISCH	MODEL	CASE BORE														
6	6"1923F	16	8	5	8.25	23.63	19	7.75	37.88	17	1.25	108	24	49	16.38	26.88
6	6"1922F	17	8	5	7	24.5	16	9	38	16.5	1.25	108	24	49	15.5	26.5

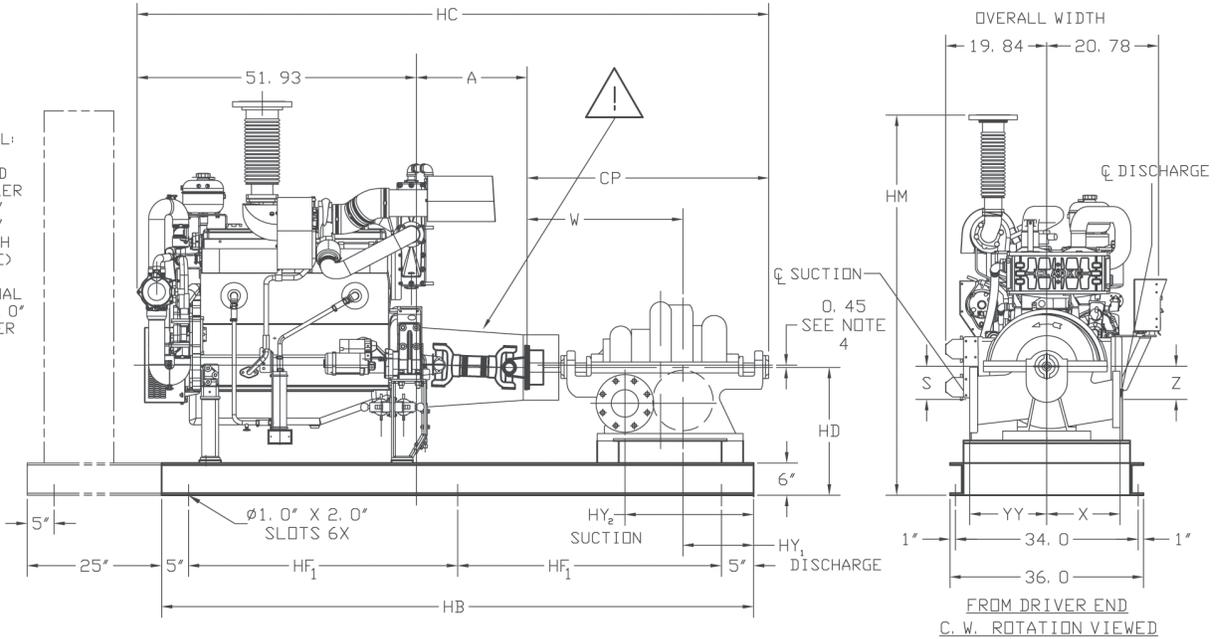
**NOTES:**

- All dimensions are in inches and may vary  $\pm 3/8"$ .
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of  $.45" \pm 0.11$  inches vertically above the pump shaft and  $0.00" \pm 0.11$  inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
- Pump suction and discharge flanges are ANSI Standard flat face.
- Left-hand (counterclockwise) rotation is not available.
- Optional: base mounted controller (not shown) add 25" to "HB" (length of base) and 2 additional  $\phi 1.00 \times 2.00$  slots.

**FAIRBANKS NIJHUIS™**  
**MODEL 5900**  
 MULTI-STAGE FIRE PUMPS  
 CLARKE DIESEL ENGINE DRIVE  
 DQ6H-UFAA48, UFAA4G, UFAA50,  
 UFAA60, UFAA88, UFAA98  
 CERTIFIED (EXPORT ONLY)

**WARNING**  
 DO NOT OPERATE THIS MACHINE WITHOUT PROTECTIVE GUARD IN PLACE. ANY OPERATION OF THIS MACHINE WITHOUT PROTECTIVE GUARD CAN RESULT IN SEVERE BODILY INJURY.

OPTIONAL:  
 BASE MOUNTED  
 CONTROLLER  
 ADD 25" TO "HB"  
 (< LENGTH OF BASE)  
 AND 2  
 ADDITIONAL  
 1.0" x 2.0" DIAMETER  
 SLOTS



ENGINE MODEL: DQ6H-UF____	A	LISTED DRIVESHAFT
AA48, 4G, 60, 88, 98	20-3/8	CDS50-SC

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HC	HD	HF	HM	YY	HY1	HY2
DISCH	MODEL	CASE BORE															
6	6"5922F	17	8	-	10-1/2	31-5/8	16-1/2	10-1/2	52-1/2	118	124-13/16	25	54	74-7/16	16-1/2	18-3/8	31-3/8

**NOTES:**

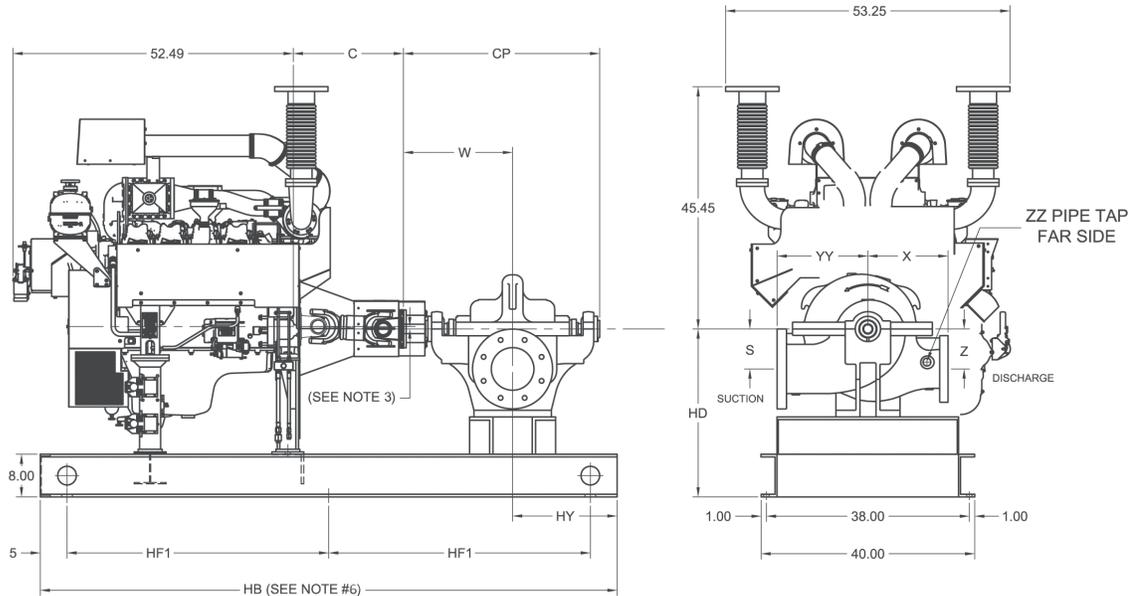
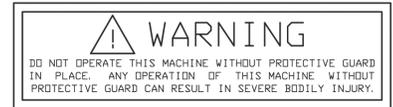
1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
2. Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
3. All bases are required to be completely filled with grout.
4. Unit installation and final driveshaft alignment must be done by the installing contractor.

**CAUTION:**

The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of 0.45" ± 0.11 inches vertically above the pump shaft and 0.00" ± 0.11 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

# FAIRBANKS NIJHUIS™ MODEL 1800

## SINGLE-STAGE FIRE PUMPS CLARKE DIESEL ENGINE DRIVE DR8H-UFAA40, UFAA5G, UFAA68, UFAA62 CERTIFIED (EXPORT ONLY)



ENGINE MODEL	C	NON-LISTED DRIVESHAFT**
ALL DR MODELS	20.63	SC2160A
**For all DR8H Models. There is no listed driveshaft available in this HP range.		

ENGINE MODEL	C	LISTED DRIVESHAFT*
All DR Models	NA	NA
*There are no listed driveshafts for these engines in their HP range.		

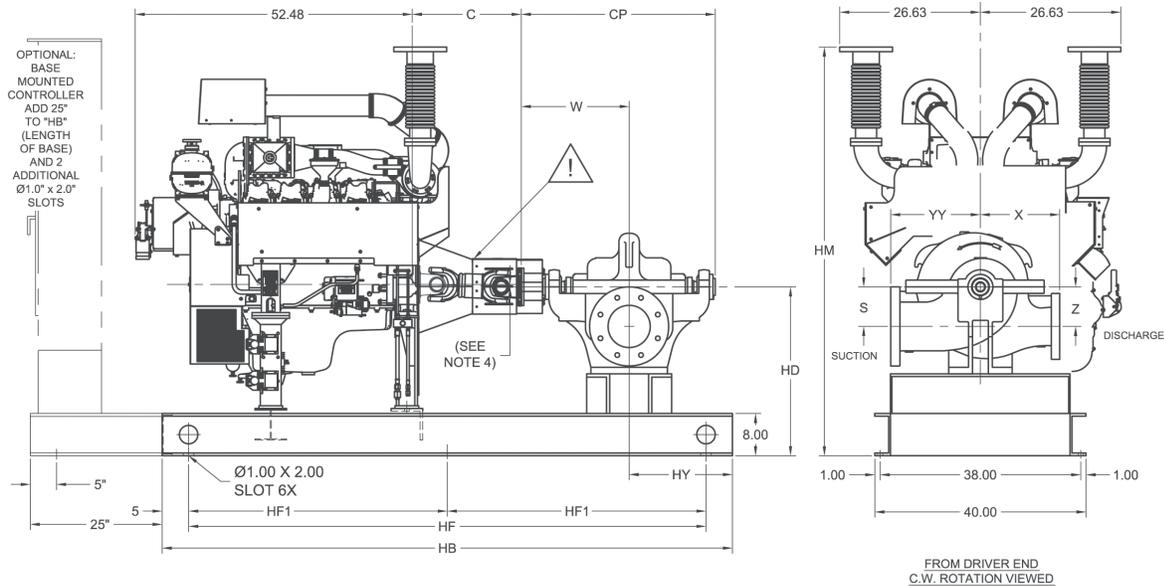
PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF1	HY
DISCH	MODEL	CASE BORE													
8	8"1825F	21	10	6B	9.5	21.88	18	9.5	38	21	1.25	108	32	49	18.13
8	8"1826F	24	12	7	15	25.25	20	15	43.88	25	1.25	118	34	54	24.75
10	10"1824F	18	12	6B	13.5	21.88	18	13.5	38	22	2	108	33	49	18.13
10	10"1824DF	18D	12	7A	12.25	24.25	20.5	12.25	43	24	2	108	33	49	15.75
12	12"1824F	18	14	7	15	25.25	18	15	43.88	23	1.25	118	35	54	24.75

**NOTES:**

- All dimensions are in inches and may vary  $\pm 3/8"$ .
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a  $2^\circ$  angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of  $.45" \pm 0.15$  inches vertically above the pump shaft and  $0.00" \pm 0.15$  inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
- Pump suction and discharge flanges are ANSI Standard flat face.
- Left-hand (counterclockwise) rotation is not available.
- Optional: base mounted controller (not shown) add 25" to "HB" (length of base) and 2 additional  $\varnothing 1.00 \times 2.00$  slots.

**FAIRBANKS NIJHUIS™**  
**MODELS 1800, 2800, 5800**  
 SINGLE-STAGE HSC FIRE PUMPS  
 CLARKE DIESEL ENGINE DRIVE  
 DR8H-UFAA40, UFAA5G, UFAA68, UFAA62  
 CERTIFIED (EXPORT ONLY)

**WARNING**  
 DO NOT OPERATE THIS MACHINE WITHOUT PROTECTIVE GUARD IN PLACE. ANY OPERATION OF THIS MACHINE WITHOUT PROTECTIVE GUARD CAN RESULT IN SEVERE BODILY INJURY.



ENGINE MODEL	C	NON-LISTED DRIVESHAFT**	DRIVESHAFT OFFSET DIMENSION
DR8H-UFAA40, 5G, 68, 62	20.63	SC2160A	0.45

\*\*For all DR Models. There is no listed driveshaft available in this HP range.

ENGINE MODEL	C	UL LISTED DRIVESHAFT*	DRIVESHAFT OFFSET DIMENSION
All DR Models	NA	NA	NA

\*There are no listed driveshafts available for these engines.

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HD	HF	HF1	HM	HY	YY
DISCH	MODEL	CASE BORE														
6	6"2825F	19	10	-	9-3/8	22-5/8	18	12-1/8	39-1/4	108	32	98	49	77-7/16	17-3/8	22
8	8"2823F	14	12	-	10-3/4	20-1/2	16	10-3/4	36-5/8	108	32	98	49	77-7/16	19-1/2	22
8	8"2824F	18	12	-	10-3/4	23-3/4	16	12-1/2	41-1/2	108	32	98	49	77-7/16	16-1/4	22
8	8"1826 F	24	12	7	13-1/2	28-5/8	20	15	51-1/2	118	33	108	54	78-7/16	21-3/8	25
10	10"2825F	20	16	-	13	25-9/16	23	14-1/4	44-9/16	118	35	108	54	80-7/16	24-7/16	25
10	10"5824F	18	12	-	11-1/2	25-9/16	21	11-1/2	45-13/16	118	32	108	54	77-7/16	24-7/16	21

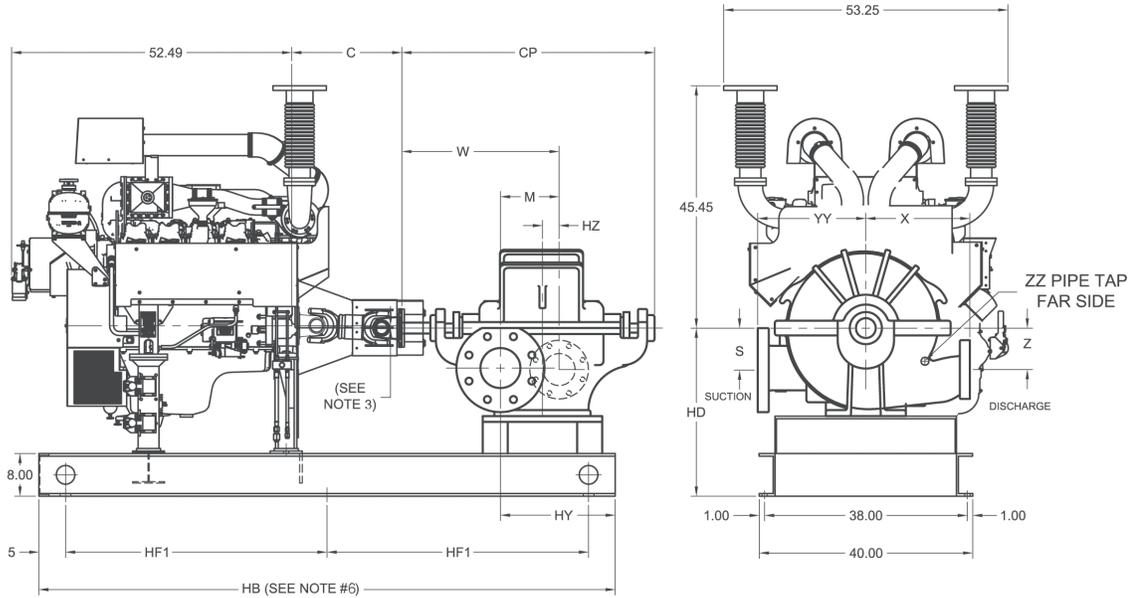
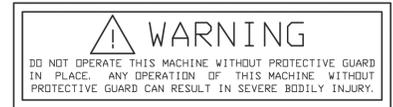
- NOTES:**
- Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
  - Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
  - All bases are required to be completely filled with grout.
  - Unit installation and final driveshaft alignment must be done by the installing contractor.

**CAUTION:**  
 The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of 0.45" ± 0.15 inches vertically above the pump shaft and 0.00" ± 0.15 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

# FAIRBANKS NIJHUIS™ MODEL 1900

TWO-STAGE FIRE PUMPS  
CLARKE DIESEL ENGINE DRIVE  
DR8H-UFAA40, UFAA5G, UFAA68, UFAA62  
CERTIFIED (EXPORT ONLY)

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ENGINE MODEL	C	NON-LISTED DRIVESHAFT**
ALL DR MODELS	20.63	SC2160A
**For all DR8H Models. There is no listed driveshaft available in this HP range.		

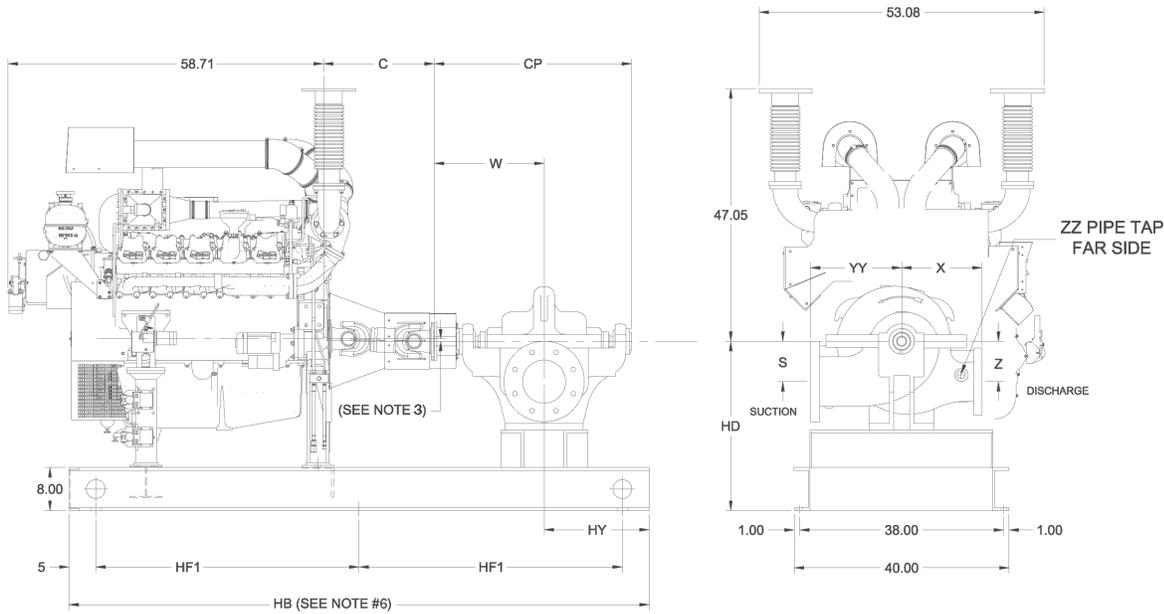
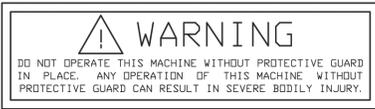
ENGINE MODEL	C	LISTED DRIVESHAFT*
All DR Models	NA	NA
*There are no listed driveshafts for these engines in their HP range.		

PUMP SIZE			SUCTION	POWER SERIES	M	S	W	X	Z	CP	HZ	ZZ	YY	HB	HD	HF1	HY
DISCH	MODEL	CASE BORE															
6	6*1923F	16	8	5	10.5	8.25	26.63	19	7.75	37.88	2.63	N/A	17	108	32	49	26.88

**NOTES:**

- All dimensions are in inches and may vary  $\pm 3/8"$ .
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of .45"  $\pm$  0.15 inches vertically above the pump shaft and 0.00"  $\pm$  0.15 inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
- Pump suction and discharge flanges are ANSI Standard flat face.
- Left-hand (counterclockwise) rotation is not available.
- Optional: base mounted controller (not shown) add 25" to "HB" (length of base) and 2 additional  $\phi 1.00 \times 2.00$  slots.

**FAIRBANKS NIJHUIS™**  
**MODEL 1800**  
 SINGLE-STAGE FIRE PUMPS  
 CLARKE DIESEL ENGINE DRIVE  
 DS0H-UFAA60, UFAA68, UFAAN0  
 CERTIFIED (EXPORT ONLY)



ENGINE MODEL	C	NON-LISTED DRIVESHAFT**
ALL DS MODELS	20.63	SC2160A
**For all DS0H Models. There is no listed driveshaft available in this HP range.		

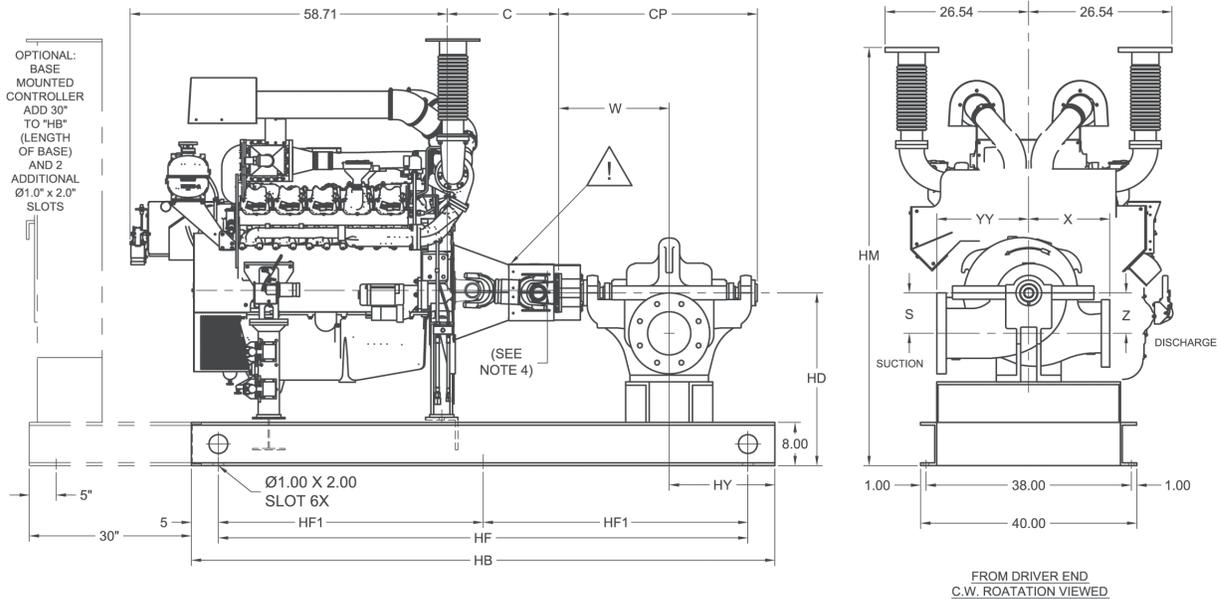
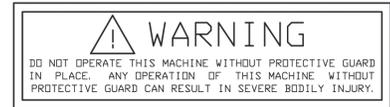
ENGINE MODEL	C	LISTED DRIVESHAFT*
All DS Models	NA	NA
*There are no listed driveshafts for these engines in their HP range.		

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF1	HY
DISCH	MODEL	CASE BORE													
8	8"1825F	21	10	6B	9.5	21.88	18	9.5	38	21	2	108	32	49	18.13
8	8"1826F	24	12	7	15	25.25	20	15	43.88	25	1.25	118	34	54	24.75
10	10"1824DF	18D	12	7A	12.25	24.25	20.5	12.25	43	24	2	108	33	49	15.75

NOTES:

1. All dimensions are in inches and may vary  $\pm 3/8"$ .
2. Not for construction purposes, unless certified.
3. Caution: The driveshaft is designed to operate at a  $2^\circ$  angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of  $.45" \pm 0.15$  inches vertically above the pump shaft and  $0.00" \pm 0.15$  inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
4. Pump suction and discharge flanges are ANSI Standard flat face.
5. Left-hand (counterclockwise) rotation is not available.
6. Optional: base mounted controller (not shown) add  $30"$  to "HB" (length of base) and 2 additional  $\phi 1.00 \times 2.00$  slots.

**FAIRBANKS NIJHUIS™**  
**MODELS 2800, 5800**  
 SINGLE-STAGE HSC FIRE PUMPS  
 CLARKE DIESEL ENGINE DRIVE  
 DS0H-UFAA60, UFAA68, UFAAN0  
 CERTIFIED (EXPORT ONLY)



ENGINE MODEL	C	NON-LISTED DRIVESHAFT**	DRIVESHAFT OFFSET DIMENSION
DS0H-UFAAN0, 68, 60	20 5/8	SC2160A	0.45

\*\*For all DS Models. There is no listed driveshaft available in this HP range.

ENGINE MODEL	C	UL LISTED DRIVESHAFT*	DRIVESHAFT OFFSET DIMENSION
All DS Models	NA	NA	NA

\*There are no listed driveshafts available for these engines.

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HD	HF	HF1	HM	HY	YY
DISCH	MODEL	CASE BORE														
10	10"2825F	20	16	-	13	25-9/16	23	14-1/4	44-9/16	118	35	108	54	82-1/16	24-7/16	25
10	10"5824F	18	12	-	11-1/2	25-9/16	21	11-1/2	45-13/16	118	32	108	54	79-1/16	24-7/16	21

**NOTES:**

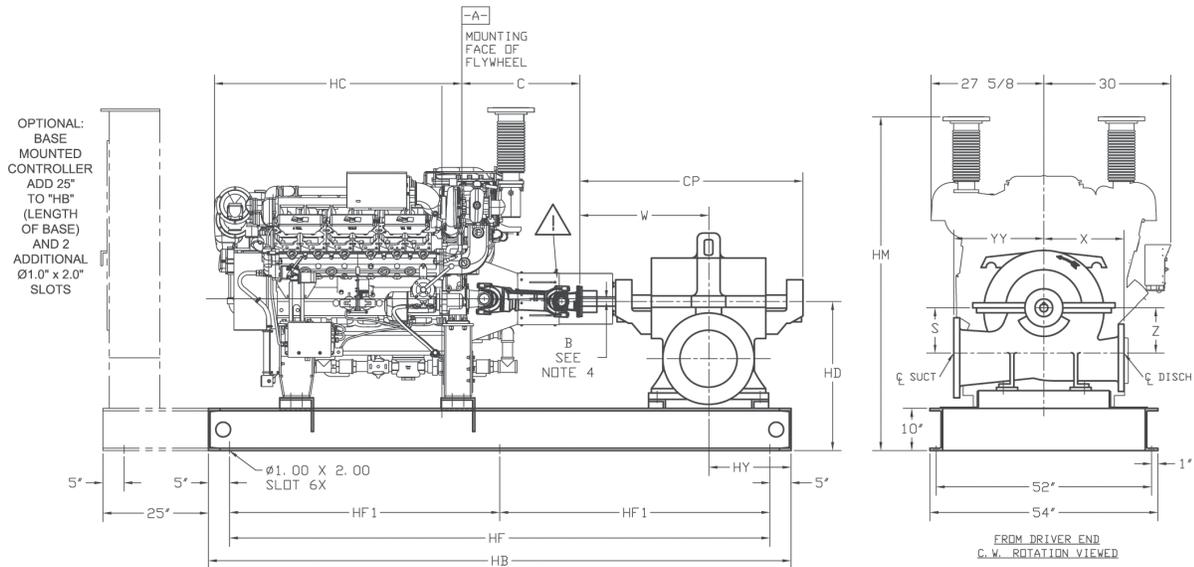
1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
2. Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
3. All bases are required to be completely filled with grout.
4. Unit installation and final driveshaft alignment must be done by the installing contractor.

**CAUTION:**

The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of 0.45" ± 0.15 inches vertically above the pump shaft and 0.00" ± 0.15 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

**FAIRBANKS NIJHUIS™**  
**MODELS 2800, 5800**  
 SINGLE-STAGE HSC FIRE PUMPS  
 CLARKE DIESEL ENGINE DRIVE  
 DT2H-UFAA60, UFAA92, UFAA98  
 CERTIFIED (EXPORT ONLY)

**WARNING**  
 DO NOT OPERATE THIS MACHINE WITHOUT PROTECTIVE GUARD IN PLACE. ANY OPERATION OF THIS MACHINE WITHOUT PROTECTIVE GUARD CAN RESULT IN SEVERE BODILY INJURY.



OPTIONAL:  
 BASE MOUNTED CONTROLLER  
 ADD 25" TO "HB" (LENGTH OF BASE) AND 2 ADDITIONAL Ø1.0" x 2.0" SLOTS

NON - LISTED DRIVESHAFTS			
ENGINE MODEL	C	DRIVESHAFT MODEL *	"B" DRIVESHAFT OFFSET DIMENSION
DT2H-UFAA60	20.62	SC2160A	0.45
DT2H-UFAA92 DT2H-UFAA98	27.88	SC2390	0.65

\*There are no listed driveshafts for these engine models at this time.

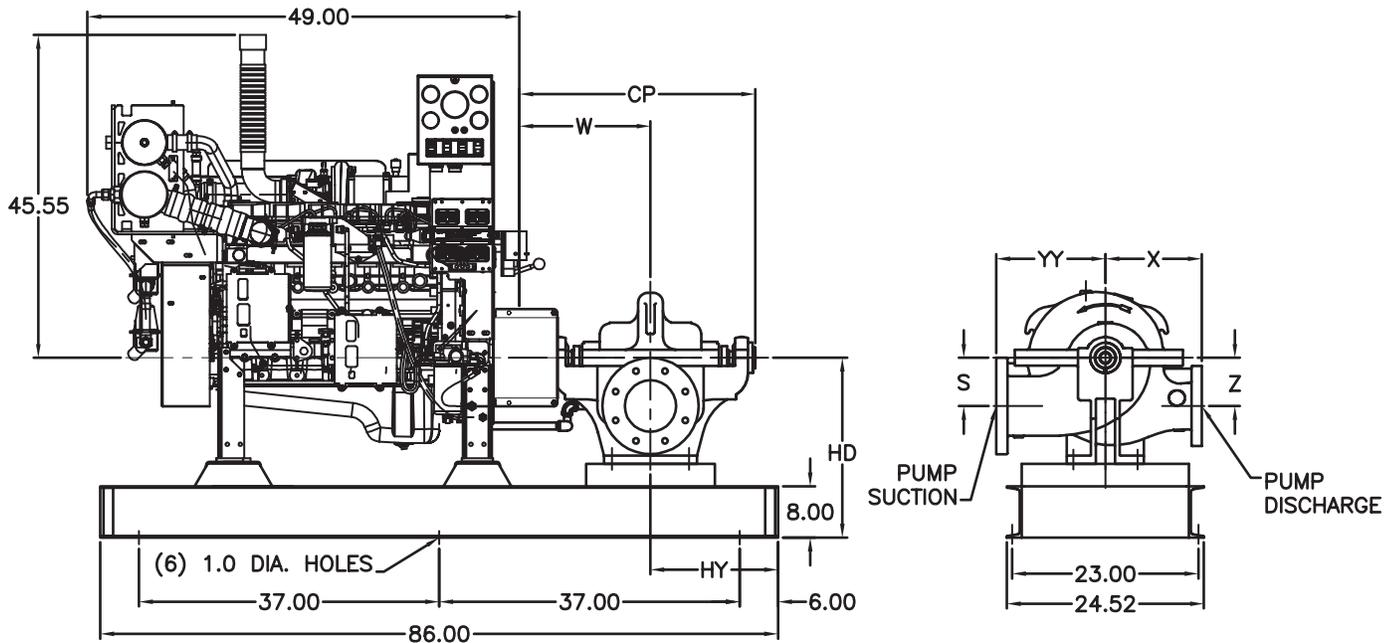
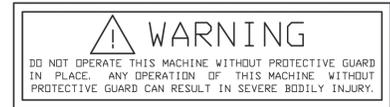
PUMP SIZE			ENGINE MODEL DT2H	SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HC	HD	HF	HF1	HM	HY	YY
DISCH	MODEL	CASE BORE																
10	10"5824F	18	UFAA60	12	-	10	25-9/16	21	17-1/2	45-13/16	128	58-7/8	34	118	59	80	24-7/16	21
10	10"5824F	18	UFAA92, 98	12	-	10	25-9/16	21	17-1/2	45-13/16	138	58-7/8	34	128	64	80	24-7/16	21
10	10"2825F	20	URAA60	16	-	13	25-9/16	23	14-1/4	44-9/16	128	58-7/8	37	118	59	83	24-7/16	25
10	10"2825F	20	UFAA92, 98	16	-	13	25-9/16	23	14-1/4	44-9/16	138	58-7/8	37	128	64	83	24-7/16	25

- NOTES:
1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
  2. Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
  3. All bases are required to be completely filled with grout.
  4. Unit installation and final driveshaft alignment must be done by the installing contractor.

CAUTION:  
 The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of "B" ± 0.15 inches vertically above the pump shaft and 0.00" ± 0.15 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

**FAIRBANKS NIJHUIS™**  
**MODELS 1800, 2800**  
 SINGLE-STAGE FIRE PUMP  
 CUMMINS CFP5E DIESEL ENGINE DRIVE

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**RIGHT-HAND PUMP**

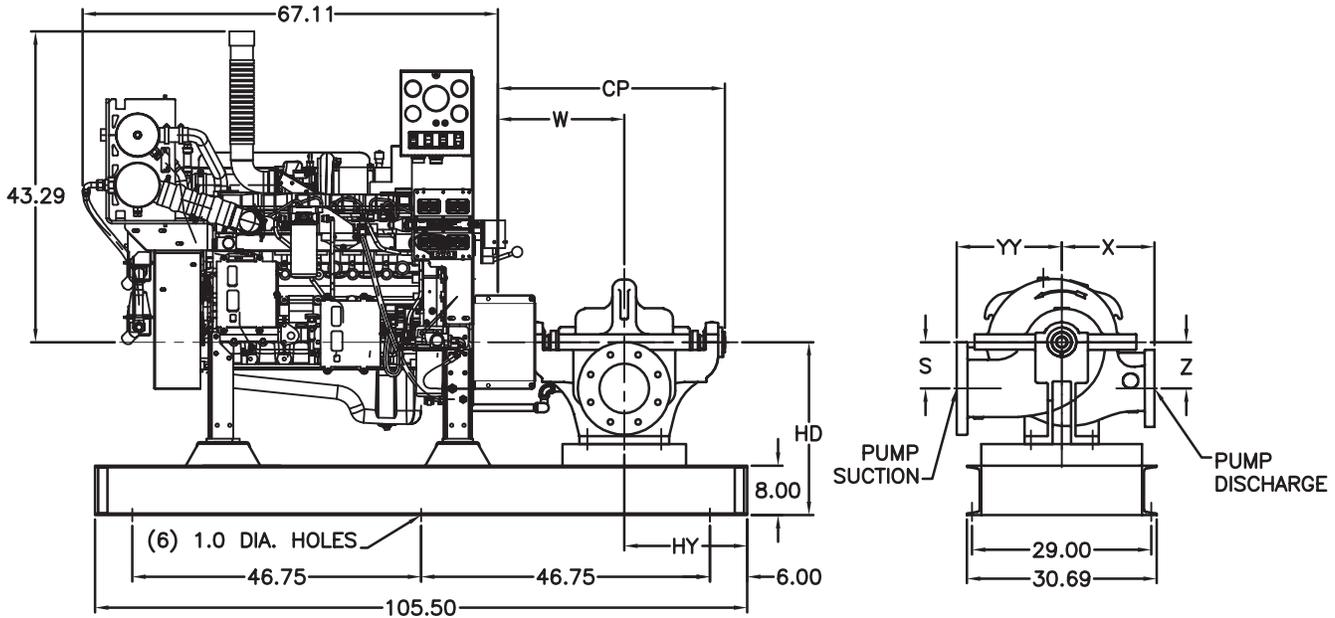
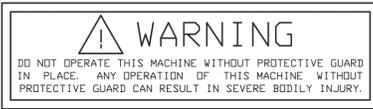
PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HY	HD
DISCH	MODEL	CASE BORE											
4	4"1823F/AF/CF	11/A/C	5	3	5	14.5	11.25	5	26	12.75	1.25	24.75	25.19
4	4"1823DF	11D	5	3	5	14.5	12	5	26	12.75	1.25	24.75	25.19
4	4"2876F	11	6	-	6.88	16.63	11.25	7.13	29.69	14	0.75	22.62	25.19
4	4"2823CF	14C	6	-	6.88	17.63	13	8.38	31.69	15.25	0.75	21.62	25.19
4	4"1824F	15	5	3	5.5	14.5	13	5.5	26	14	1.25	24.75	25.19
4	4"5824F	18	5	-	9.5	18.38	14	9.5	33.25	14	0.75	21	25.19
5	5"1823F	15	6	4	6.25	16	13.25	6.25	28.5	15	1.25	23.25	25.19
5	5"1824F	17	6	4	6.25	16	14	6.25	28.5	15	1.25	23.25	25.19
6	6"1822F	11	8	4	6.25	16	11.75	6.25	28.5	14.5	1.25	23.25	25.19
6	6"1822HHF	11HH*	8	4A	8.63	18.13	10	8.63	33.88	15	1.25	21.13	28.19
6	6"1823HHF	14HH*	8	5A	7.5	20.5	15	7.5	36.75	17	1.25	18	28.19
6	6"2823F	14	10	-	9.38	20.13	13.25	10	35.88	18	1	19.14	28.19
6	6"1823F	15	8	5	6.75	18	14.25	6.75	32	16.75	1.25	21.25	25.19
6	6"1824F	18	8	5	8	18	16	8	32	18	1.25	21.25	25.19
6	6"1825F	20	8	5	8	18	15.75	8	32	18	1.25	21.25	25.19
8	8"1822F	12	10	5	8	18	17	9	32	17.75	1.25	21.25	25.19
8	8"1824BF	17B	10	5	8	18	17	8	32	17.75	1.25	21.25	25.19

**NOTES:**

- All dimensions are in inches and may vary  $\pm 3/8"$ .
- Not for construction purposes, unless certified.
- Suction and discharge flanges are ANSI Standard flat face.
- Refer to individual engine dimension print for reference point used to determine overall engine length.
- Left hand (counterclockwise) rotation is not available.
- The driveshaft is not designed to operate at a  $0^\circ$  angle. The engine crankshaft is to be parallel offset of  $0.50 \pm 0.25$  inch. The engine crankshaft may be parallel offset from the pump shaft 0.50 inch right or left.

\* Pump sizes 6"1822HHF and 6"1823HHF are furnished as standard with 125# suction flange and 250# discharge flange.

**FAIRBANKS NIJHUIS™**  
**MODEL 1800**  
 SINGLE-STAGE FIRE PUMP  
 CUMMINS CFP7E DIESEL ENGINES



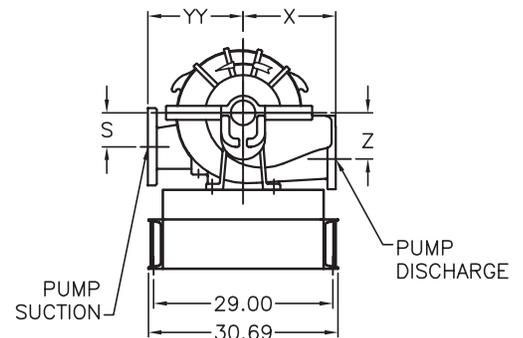
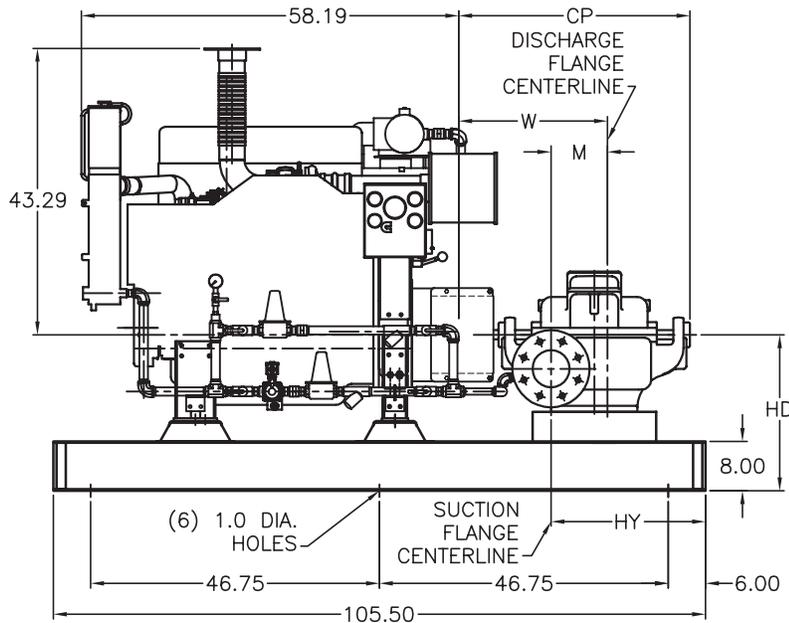
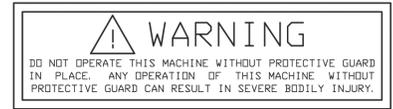
**RIGHT-HAND PUMP**

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HY	HD
DISCH	MODEL	CASE BORE											
5	5"1824F	17	6	4	6.25	16	14	6.25	28.5	15	1.25	22.19	27.75
6	6"1823HHF	14HH*	8	5A	7.5	20.5	15	7.5	36.75	17	1.25	17.75	27.75
6	6"1823F	15	8	5	6.75	18	14.25	6.75	32	16.75	1.25	20.19	27.75
6	6"1824F	18	8	5	8	18	16	8	32	18	1.25	20.19	27.75
6	6"1825F	20	8	5	8	18	15.75	8	32	18	1.25	20.19	27.75
8	8"1824BF	17B	10	5	8	18	17	8	32	17.75	2	20.19	27.75
8	8"1825F/AF	21/A	10	6B	9.5	21.88	18	9.5	38	21	2	16.31	31.75
8	8"1826F	24	12	7	15	25.25	20	15	43.88	25	1.25	12.94	36.75
10	10"1824F	18	12	6B	13.5	21.88	18	13.5	38	22	2	16.31	36.75
10	10"1824DF	18D	12	7A	12.25	24.25	20	12.25	43	24	2	13.94	36.75
12	12"1824AF	18A	14	7	15	25.25	18	15	43.88	23	2	12.94	36.75

- NOTES:
- All dimensions are in inches and may vary  $\pm 3/8"$ .
  - Not for construction purposes, unless certified.
  - Suction and discharge flanges are ANSI Standard flat face.
  - Refer to individual engine dimension print for reference point used to determine overall engine length.
  - Left hand (counterclockwise) rotation is not available.
  - The driveshaft is not designed to operate at a  $0^\circ$  angle. The engine crankshaft is to be parallel offset of  $0.50 \pm 0.25$  inch. The engine crankshaft may be parallel offset from the pump shaft 0.50 inch right or left.
- \* Pump size 6"1823HHF is furnished as standard with 125# suction flange and 250# discharge flange.

**FAIRBANKS NIJHUIS™**  
**MODEL 1900**  
 TWO-STAGE FIRE PUMPS  
 CUMMINS CFP7E DIESEL ENGINES

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 Date **MAY 2017**  
 Supersedes **NOVEMBER 2013**



**RIGHT-HAND PUMP**

PUMP SIZE			SUCTION	POWER SERIES	S	M	W	X	Z	CP	YY	ZZ	HD	HY
DISCH	MODEL	CASE BORE												
6	6"1924F	12	6	5A	8	7.5	22.88	13	8	31	13.5	1.25	27.75	23.06
6	6"1923F	16	8	5	8.25	10.5	23.63	19	7.25	37.88	17	1.25	27.75	25.06
6	6"1922AF	17A	8	5	7	11	24.5	16	9	38	16.5	1.25	27.75	24.69

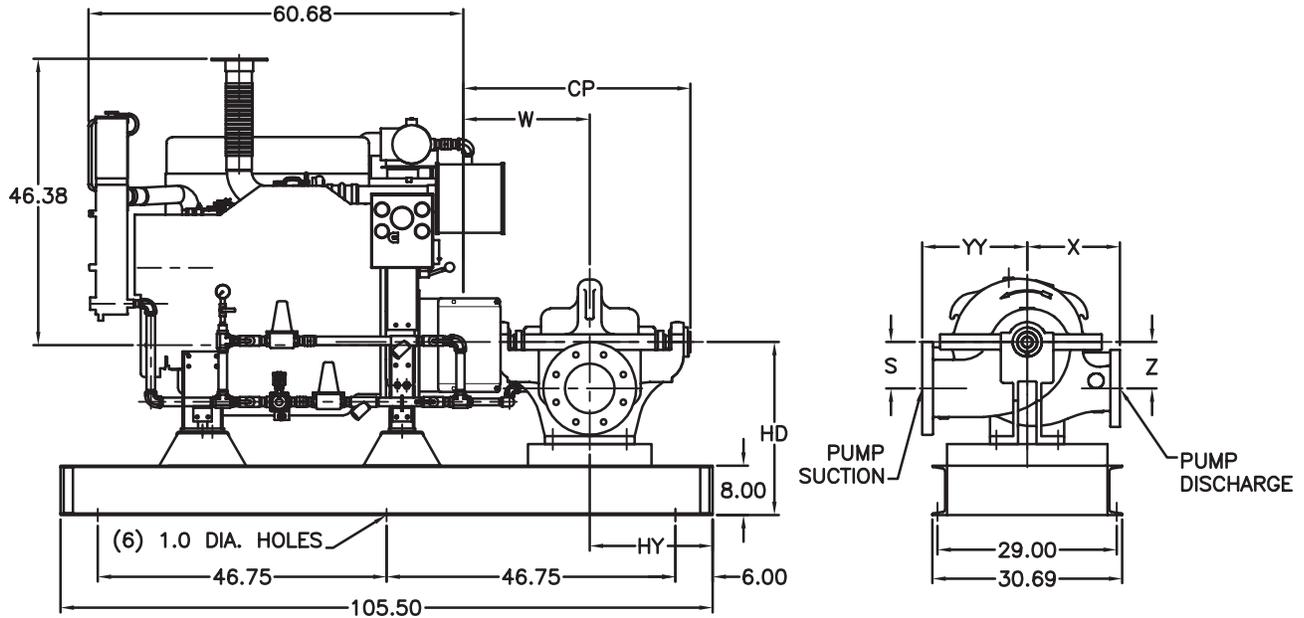
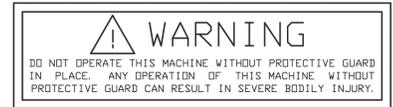
**NOTES:**

- All dimensions are in inches and may vary  $\pm 3/8"$ .
- Not for construction purposes, unless certified.
- Suction and discharge flanges are ANSI Standard flat face.
- Refer to individual engine dimension print for reference point used to determine overall engine length.
- Left hand (counterclockwise) rotation is not available.
- The driveshaft is not designed to operate at a  $0^\circ$  angle. The engine crankshaft is to be parallel offset of  $0.50 \pm 0.25$  inch. The engine crankshaft may be parallel offset from the pump shaft 0.50 inch right or left.



**FAIRBANKS NIJHUIS™**  
**MODELS 1800, 2800, 5800**  
 SINGLE-STAGE FIRE PUMP  
 CUMMINS CFP9E DIESEL ENGINE DRIVE

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 Date **NOVEMBER 2013**



**RIGHT-HAND PUMP**

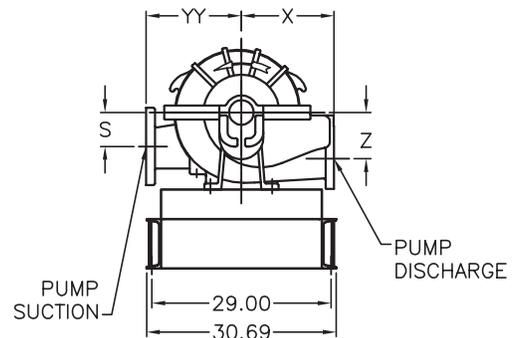
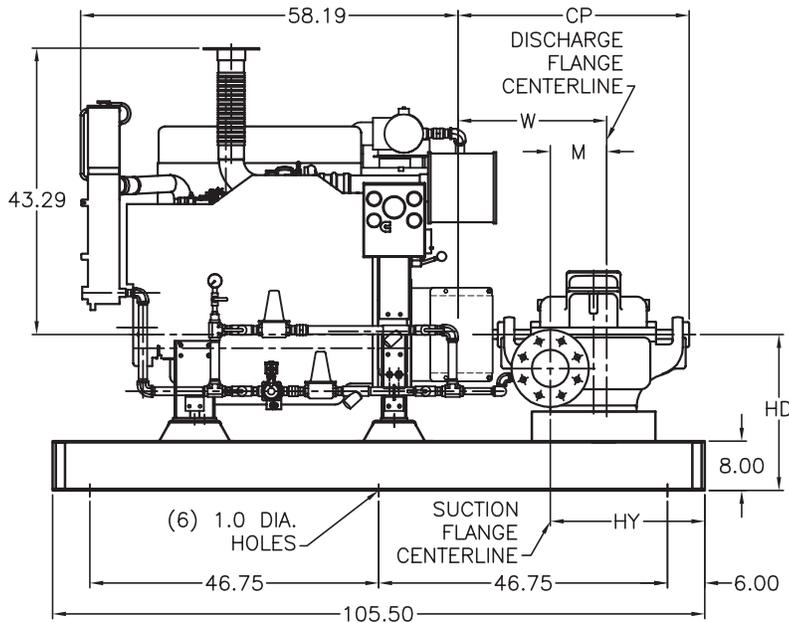
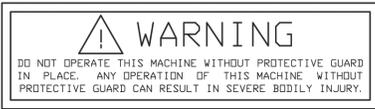
PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HD	HY
DISCH	MODEL	CASE BORE											
5	5"2823AF	14A	8	-	8.25	17.63	13.5	9.75	31.69	17.25	1	27.81	12.38
5	5"2824AF	18A	8	-	8.13	18.88	15	10.63	31.38	18.75	1	27.81	11.13
6	6"2823AF	14A	10	-	9.38	20.13	13.25	10	31.38	18.75	1	31.81	24.38
6	6"2824CF	18C	10	-	9.38	20.13	16	11.75	35.88	20	1	31.81	24.38
6	6"2825AF	19A	10	-	9.38	22.63	18	12.13	35.88	18	1	31.81	21.88
6	6"1825F	20	8	5	8	18	15.75	8	32	18	1.25	27.81	12
8	8"2823AF	14A	12	-	10.75	20.5	16	10.75	36.63	22	1	31.81	24
8	8"1824BF	17B	10	5	8	18	17	8	32	17.75	1.25	27.81	12
8	8"2824AF	18A	12	-	10.75	23.75	16	12.5	41.5	22	1	31.81	20.75
8	8"1825F/AF	21/A	10	6B	9.5	21.88	18	9.5	38	21	1.25	27.81	22.63
8	8"1826F	24	12	7	15	25.25	20	15	43.88	25	1.25	36.81	19.25
10	10"1823CF	15C	12	6B	13.5	21.88	18	13.5	38	20	1.25	36.81	22.63
10	10"1824F	18	12	6B	13.5	21.88	18	13.5	38	22	1.25	36.81	22.63
10	10"5824F	18	12	-	11.5	25.56	21	11.5	45.81	21	1	31.81	18.94
10	10"1824DF	18D	12	7A	12.25	24.31	20	12.25	43	24	1.25	36.81	20.25
10	10"2825F	20*	16	-	15	25.25	20	15	43.88	25	1.25	36.81	18.94
12	12"1824AF	18A	14	7	15	25.25	18	15	43.88	23	1.25	36.81	19.25

**NOTES:**

- All dimensions are in inches and may vary  $\pm 3/8"$ .
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- Suction and discharge flanges are ANSI Standard flat face.
- Refer to individual engine dimension print for reference point used to determine overall engine length.
- Left hand (counterclockwise) rotation is not available.
- The driveshaft is not designed to operate at a  $0^\circ$  angle. The engine crankshaft is to be parallel offset of  $0.50 \pm 0.25$  inch. The engine crankshaft may be parallel offset from the pump shaft 0.50 inch right or left.

\* Pump size 10"2825F is furnished as standard with 125# suction flange and 250# discharge flange.

**FAIRBANKS NIJHUIS™**  
**MODEL 1900**  
 TWO-STAGE FIRE PUMPS  
 CUMMINS CFP9E DIESEL ENGINES



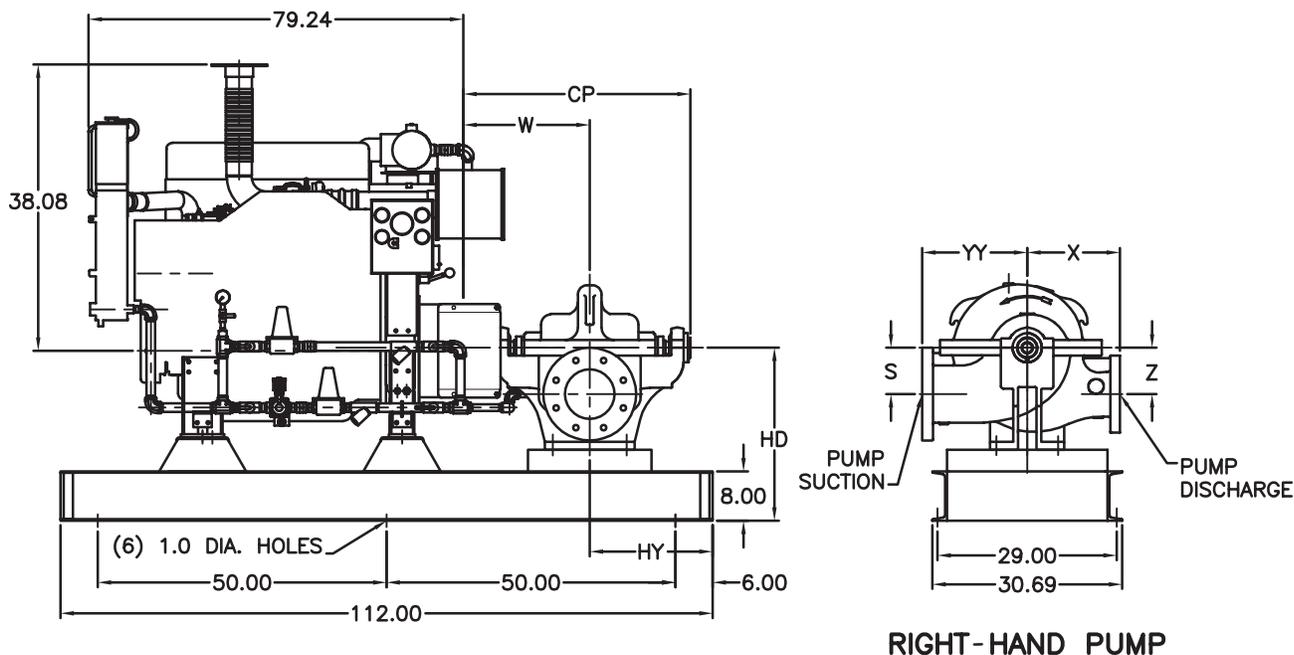
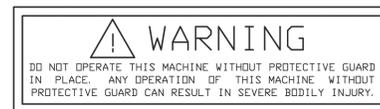
**RIGHT-HAND PUMP**

PUMP SIZE			SUCTION	POWER SERIES	S	M	W	X	Z	CP	YY	ZZ	HD	HY
DISCH	MODEL	CASE BORE												
6	6"1923F	16	8	5	8.25	10.5	23.63	19	7.25	37.88	17	1.25	27.81	16.88
6	6"1922AF	17A	8	5	7	11	24.5	16	9	38	16.5	1.25	27.81	16.5

- NOTES:
1. All dimensions are in inches and may vary  $\pm 3/8"$ .
  2. Not for construction purposes, unless certified.
  3. Suction and discharge flanges are ANSI Standard flat face.
  4. Refer to individual engine dimension print for reference point used to determine overall engine length.
  5. Left hand (counterclockwise) rotation is not available.
  6. The driveshaft is not designed to operate at a  $0^\circ$  angle. The engine crankshaft is to be parallel offset of  $0.50 \pm 0.25$  inch. The engine crankshaft may be parallel offset from the pump shaft 0.50 inch right or left.

**FAIRBANKS NIJHUIS™**  
**MODELS 1800, 2800, 5800**  
 SINGLE-STAGE FIRE PUMP  
 CUMMINS CFP11E DIESEL ENGINE DRIVE

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**RIGHT-HAND PUMP**

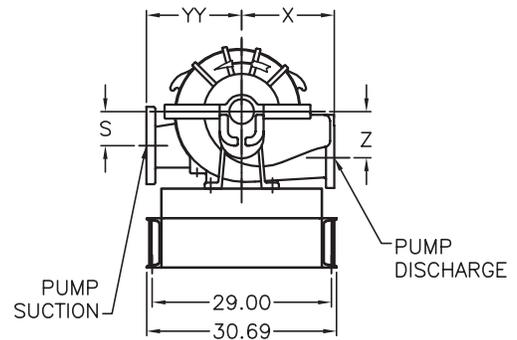
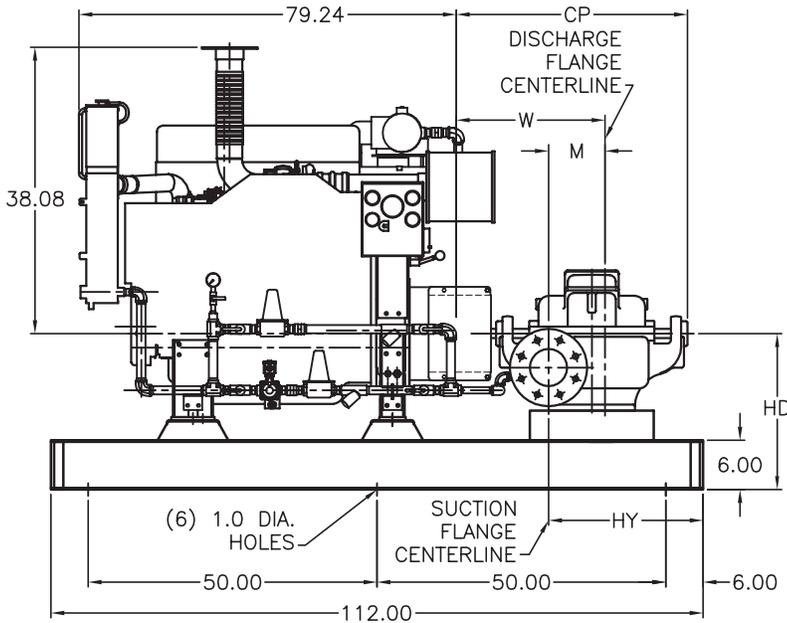
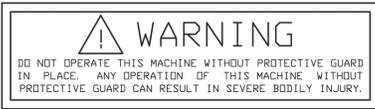
PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HD	HY
DISCH	MODEL	CASE BORE											
6	6"2824CF	18C	10	-	9.38	20.13	16	11.75	35.88	20	1	29.88	10.63
6	6"1825F	20	8	5	8	18	15.75	8	32	18	1.25	29.88	12.75
8	8"1822F	12	10	5	8	18	17	9	32	17.75	1.25	29.88	12.75
8	8"1824BF	17B	10	5	8	18	17	8	32	17.75	1.25	29.88	12.75
8	8"2824AF	18A	12	-	10.75	23.75	16	12.5	41.5	22	1	32.88	15
8	8"1825F/AF	21/A	10	6B	9.5	21.88	18	9.5	38	21	1.25	29.88	8.88
8	8"1826F	24	12	7	15	25.25	20	15	43.88	25	1.25	35.88	13.5
10	10"1824F	18	12	6B	13.5	21.88	18	13.5	38	22	1.25	35.88	8.88
10	10"5825F	18	12	-	11.5	25.56	21	11.5	45.81	21	1	32.88	13.19
10	10"1824DF	18D	12	7A	12.25	24.31	20	12.25	43	24	1.25	35.88	14.5
10	10"2825AF	20*	16	-	15	25.25	20	15	43.88	25	1.25	35.88	13.19
12	12"1824AF	18A	14	7	15	25.25	18	15	43.88	23	1.25	35.88	13.5

**NOTES:**

- All dimensions are in inches and may vary  $\pm 3/8"$ .
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- Suction and discharge flanges are ANSI Standard flat face.
- Refer to individual engine dimension print for reference point used to determine overall engine length.
- Left hand (counterclockwise) rotation is not available.
- The driveshaft is not designed to operate at a  $0^\circ$  angle. The engine crankshaft is to be parallel offset of  $0.50 \pm 0.25$  inch. The engine crankshaft may be parallel offset from the pump shaft 0.50 inch right or left.

\* Pump size 10"2825F is furnished as standard with 125# suction flange and 250# discharge flange.

**FAIRBANKS NIJHUIS™**  
**MODEL 1900**  
 TWO-STAGE FIRE PUMPS  
 CUMMINS CFP11E DIESEL ENGINES



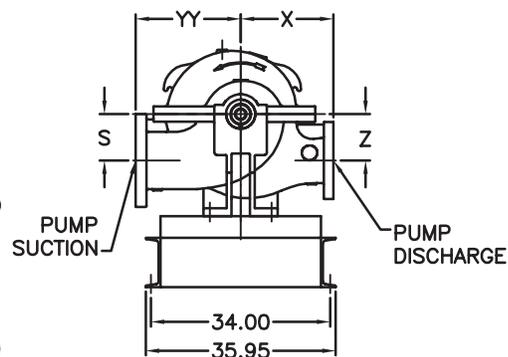
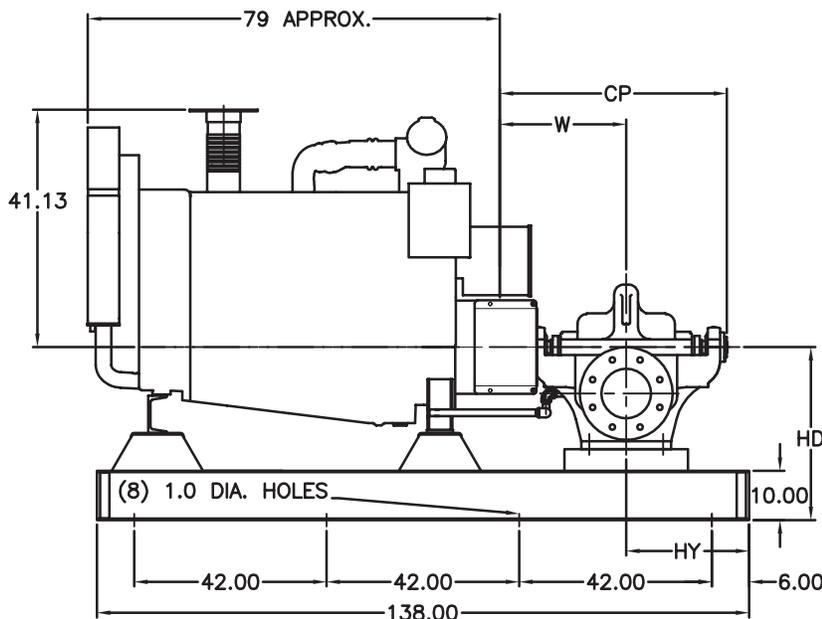
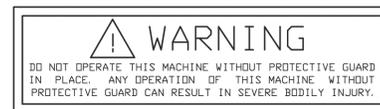
**RIGHT-HAND PUMP**

PUMP SIZE			SUCTION	POWER SERIES	S	M	W	X	Z	CP	YY	XX	HD	HY
DISCH	MODEL	CASE BORE												
6	6"1923F	16	8	5	8.25	10.5	23.63	19	7.25	37.88	17	1.25	29.88	22.13
6	6"1922AF	17A	8	5	7	11	24.5	16	9	38	16.5	1.25	29.88	21.75

- NOTES:
1. All dimensions are in inches and may vary  $\pm 3/8"$ .
  2. Not for construction purposes, unless certified.
  3. Suction and discharge flanges are ANSI Standard flat face.
  4. Refer to individual engine dimension print for reference point used to determine overall engine length.
  5. Left hand (counterclockwise) rotation is not available.
  6. The driveshaft is not designed to operate at a  $0^\circ$  angle. The engine crankshaft is to be parallel offset of  $0.50 \pm 0.25$  inch. The engine crankshaft may be parallel offset from the pump shaft 0.50 inch right or left.

**FAIRBANKS NIJHUIS™**  
**MODELS 1800, 2800, 5800**  
 SINGLE-STAGE FIRE PUMP  
 CUMMINS CFP15E DIESEL ENGINE DRIVE

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 Date **NOVEMBER 2013**



**RIGHT-HAND PUMP**

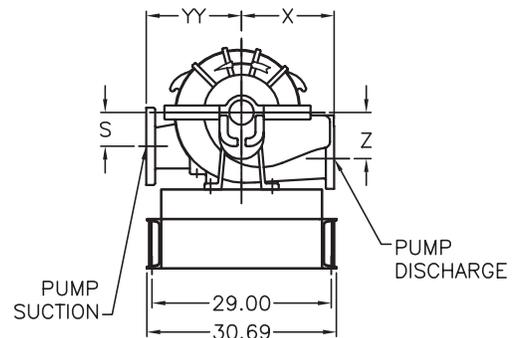
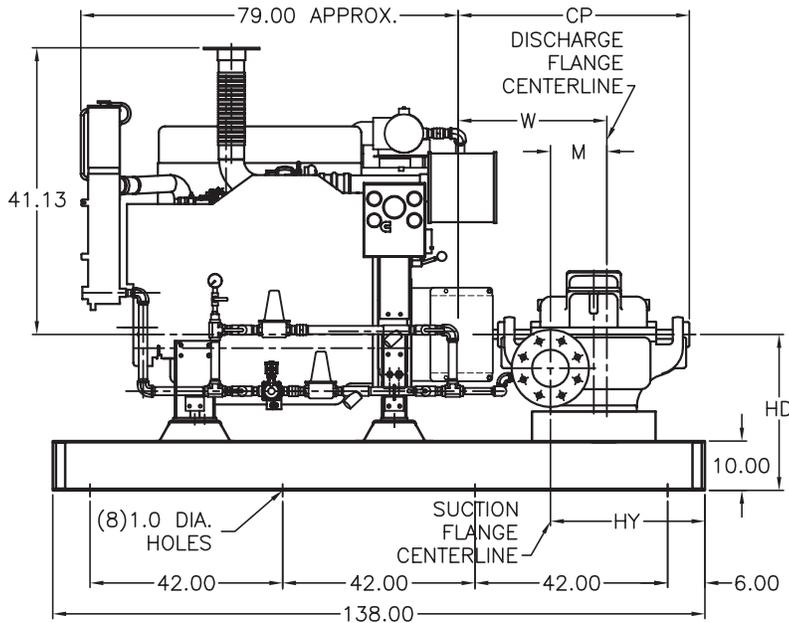
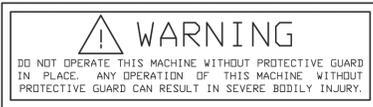
PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HD	HY
DISCH	MODEL	CASE BORE											
5	5"2824AF	18A	8	-	8.13	18.88	15	10.63	33.38	18.75	1	35.13	27.13
6	6"2823CF	14C	10	-	9.38	20.13	13.25	10	35.88	18	1	35.13	25.88
6	6"2825AF	19A	10	-	9.38	22.63	18	12.13	39.25	22	1	35.13	23.38
8	8"1824BF	17B	10	5	8	18	17	8	32	17.75	1.25	35.13	26.88
8	8"2824AF	18A	12	-	10.75	23.75	16	12.5	41.5	22	1	35.13	22.25
8	8"1825F/AF	21/A	10	6B	9.5	21.88	18	9.5	38	21	2	35.13	24.13
8	8"1826F	24	12	7	15	25.25	20	15	43.88	25	1.25	37.13	20.75
10	10"1823CF	15C	12	6B	13.5	21.88	17	13.5	38	20	1.25	37.13	24.13
10	10"1824F	18	12	6B	13.5	21.88	18	13.5	38	22	2	37.13	24.13
10	10"1824DF	18D	12	7A	12.25	24.25	20	12.25	43	24	2	37.13	21.69
10	10"5824F	18	12	-	11.5	25.56	21	11.5	45.81	21	1	35.13	20.44
10	10"2825F	20*	16	-	13	25.56	23	14.25	44.56	25	1	37.13	20.44
12	12"1824F	18	12	7	15	25.25	18	15	43.88	23	2	37.13	20.75

**NOTES:**

- All dimensions are in inches and may vary  $\pm 3/8"$ .
- Not for construction purposes, unless certified.
- Suction and discharge flanges are ANSI Standard flat face.
- Refer to individual engine dimension print for reference point used to determine overall engine length.
- Left-hand (counterclockwise) rotation is not available.
- The driveshaft is not designed to operate at a  $0^\circ$  angle. The engine crankshaft is to be parallel offset of  $0.50 \pm 0.25$  inch. The engine crankshaft may be parallel offset from the pump shaft 0.50 inch right or left.

\* Pump size 10"2825F is furnished as standard with 125# suction flange and 250# discharge flange.

**FAIRBANKS NIJHUIS™**  
**MODEL 1900**  
 TWO-STAGE FIRE PUMPS  
 CUMMINS CFP15E DIESEL ENGINES

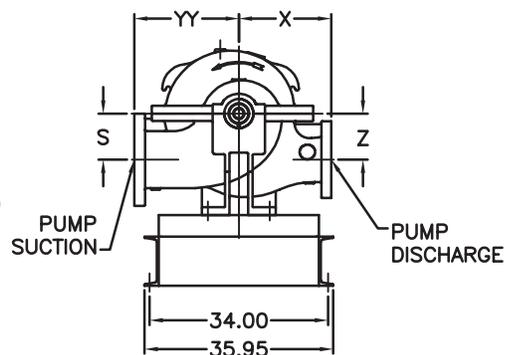
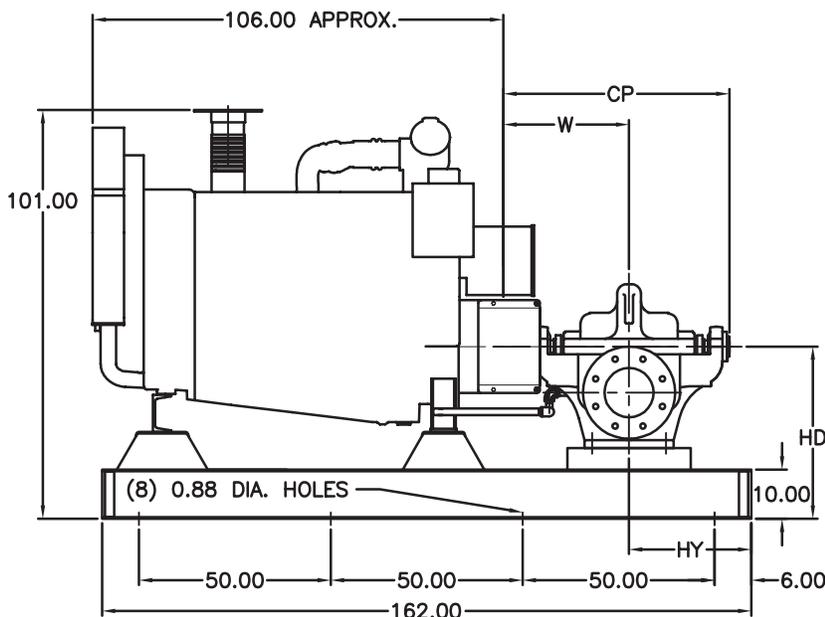
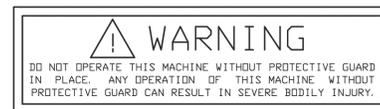


**RIGHT-HAND PUMP**

PUMP SIZE			SUCTION	POWER SERIES	S	M	W	X	Z	CP	YY	ZZ	HD	HY
DISCH	MODEL	CASE BORE												
6	6"1923F	16	8	5	8.25	10.5	23.63	19	7.25	37.88	17	1.25	35.13	32.88
6	6"1922AF	17A	8	5	7	11	24.5	16	9	38	16.5	1.25	35.13	32.5

- NOTES:
1. All dimensions are in inches and may vary  $\pm 3/8"$ .
  2. Not for construction purposes, unless certified.
  3. Suction and discharge flanges are ANSI Standard flat face.
  4. Refer to individual engine dimension print for reference point used to determine overall engine length.
  5. Left-hand (counterclockwise) rotation is not available.
  6. The driveshaft is not designed to operate at a  $0^\circ$  angle. The engine crankshaft is to be parallel offset of  $0.50 \pm 0.25$  inch. The engine crankshaft may be parallel offset from the pump shaft 0.50 inch right or left.

**FAIRBANKS NIJHUIS™**  
**MODEL 2800**  
 SINGLE-STAGE FIRE PUMPS  
 CUMMINS CFP23E DIESEL ENGINE DRIVE



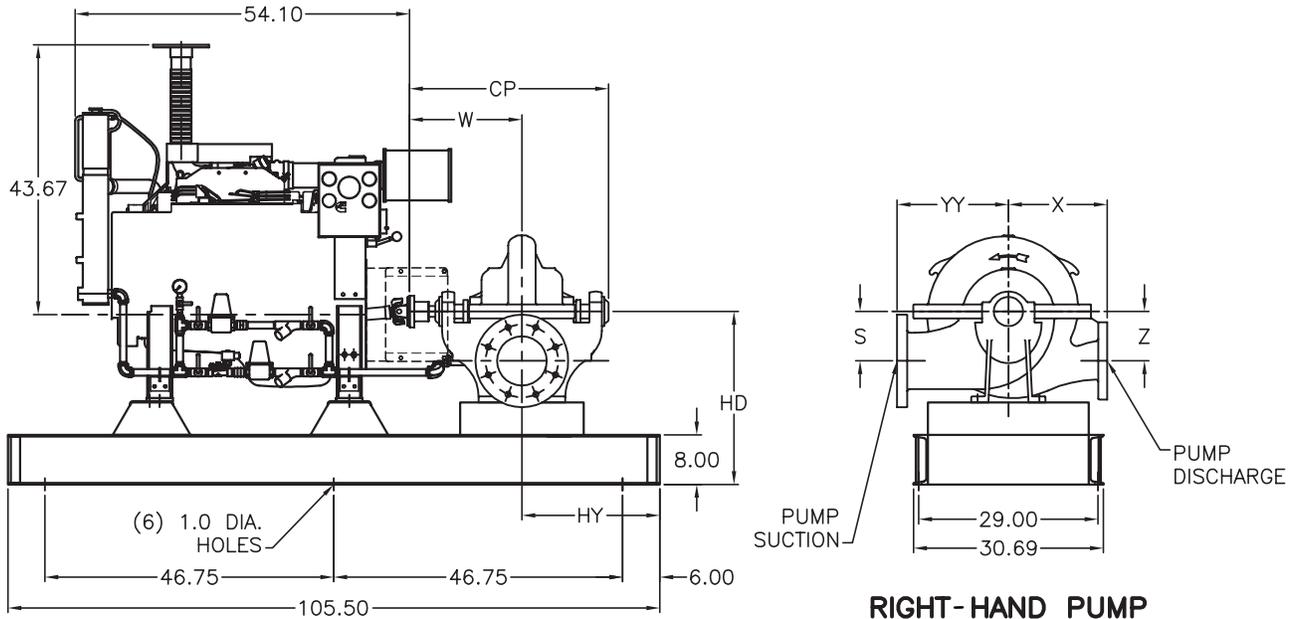
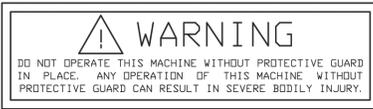
**RIGHT-HAND PUMP**

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HD	HY
DISCH	MODEL	CASE BORE											
10	10"2825F	20	16	-	13	25.56	23	14.25	44.56	25	1	37.88	23.19

**NOTES:**

- All dimensions are in inches and may vary  $\pm 3/8"$ .
- Not for construction purposes, unless certified.
- Suction and discharge flanges are ANSI Standard flat face.
- Refer to individual engine dimension print for reference point used to determine overall engine length.
- Left-hand (counterclockwise) rotation is not available.
- The driveshaft is not designed to operate at a  $0^\circ$  angle. The engine crankshaft is to be parallel offset of  $0.50 \pm 0.25$  inch. The engine crankshaft may be parallel offset from the pump shaft 0.50 inch right or left.

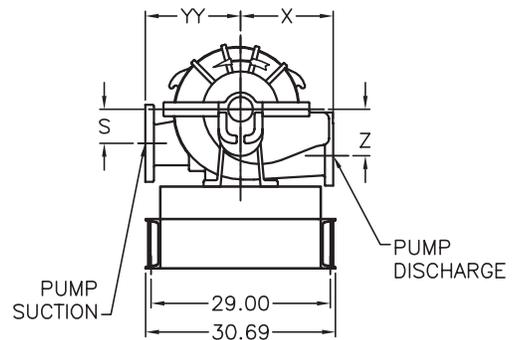
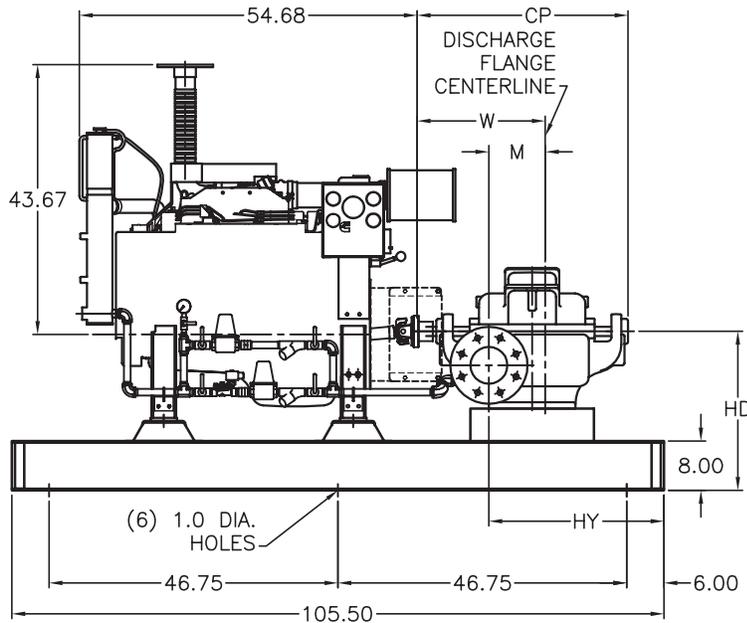
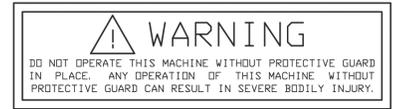
**FAIRBANKS NIJHUIS™**  
**MODEL 1800**  
 SINGLE-STAGE FIRE PUMP  
 CUMMINS CFP59 DIESEL ENGINES



PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HY	HD
DISCH	MODEL	CASE BORE											
4	4"1824F	15	5	3	5.5	14.5	13	5.5	26	14	1.25	25.38	25.69
5	5"1823F	15	6	4	6.25	16	13.25	6.25	28.5	15	1.25	23.88	25.69
5	5"1824F	17	5	4	6.25	16	14	6.25	28.5	15	1.25	23.88	25.69
6	6"1822HHF	11HH*	6	4A	8.63	18.13	10	8.63	32.88	15	1.25	21.75	27.69
6	6"1823HHF	14HH*	8	5A	7.5	20.44	15	7.5	36.75	17	1.25	19.38	27.69
6	6"1823F	15	8	5	6.75	18	14.25	6.75	32	16.75	1.25	21.88	27.69
6	6"1824BF/CF	18B/C	8	5	8	18	16	8	32	18	1.25	21.88	27.69
6	6"1825F	20	8	5	8	18	15.75	8	32	18	1.25	21.88	27.69
8	8"1824CF	17C	10	5	8	18	17	8	32	17.75	1.25	21.88	27.69
8	8"1825F	21	10	6B	9.5	21.88	18	9.5	38	21	1.25	18	31.69
10	10"1824F	18	12	6B	13.5	21.88	18	13.5	38	22	2	18	36.69
10	10"1824DF	18D	12	7A	12.25	24.25	20	12.25	43	24	2	15.63	36.69

- NOTES:
1. All dimensions are in inches and may vary  $\pm 3/8"$ .
  2. Not for construction purposes, unless certified.
  3. Suction and discharge flanges are ANSI Standard flat face.
  4. Refer to individual engine dimension print for reference point used to determine overall engine length.
  5. Left-hand (counterclockwise) rotation is not available.
  6. The driveshaft is not designed to operate at a  $0^\circ$  angle. The engine crankshaft is to be parallel offset of  $0.50 \pm 0.25$  inch. The engine crankshaft may be parallel offset from the pump shaft 0.50 inch right or left.
- \* Pump sizes 6"1822HHF and 6"1823HHF are furnished as standard with 125# suction flange and 250# discharge flange.

**FAIRBANKS NIJHUIS™**  
**MODEL 1900**  
 TWO-STAGE FIRE PUMPS  
 CUMMINS CFP59 DIESEL ENGINES



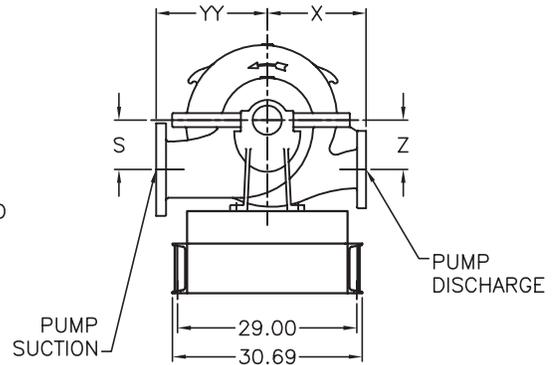
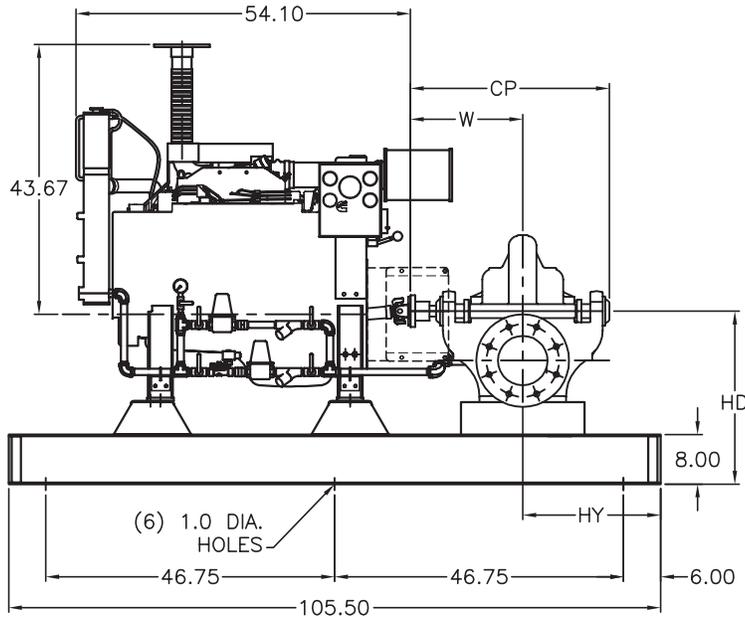
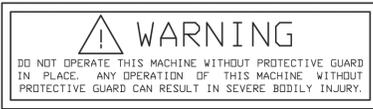
**RIGHT-HAND PUMP**

PUMP SIZE			SUCTION	POWER SERIES	S	M	W	X	Z	CP	YY	ZZ	HD	HY
DISCH	MODEL	CASE BORE												
4	4"1922F	15	5	3	5	7.13	18.88	13	6.5	31	13.5	1.25	25.69	30.88
6	6"1924F	12	6	5A	8	7.5	22.88	14	8	38.5	14	1.25	27.69	24.75
6	6"1923F/BF	16/B	8	5	8.25	10.5	23.63	19	7.25	37.88	17	1.25	27.69	26.75
6	6"1922AF	17A	8	5	7	11	24.5	16	9	38	16.5	1.25	27.69	26.38

**NOTES:**

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- Refer to individual engine dimension print for reference point used to determine overall engine length.
- Left-hand (counterclockwise) rotation is not available.
- The driveshaft is not designed to operate at a  $0^\circ$  angle. The engine crankshaft is to be parallel offset of  $0.50 \pm 0.25$  inch. The engine crankshaft may be parallel offset from the pump shaft 0.50 inch right or left.

**FAIRBANKS NIJHUIS™**  
**MODELS 2800, 5800**  
 SINGLE-STAGE FIRE PUMPS  
 CUMMINS CFP59 DIESEL ENGINES



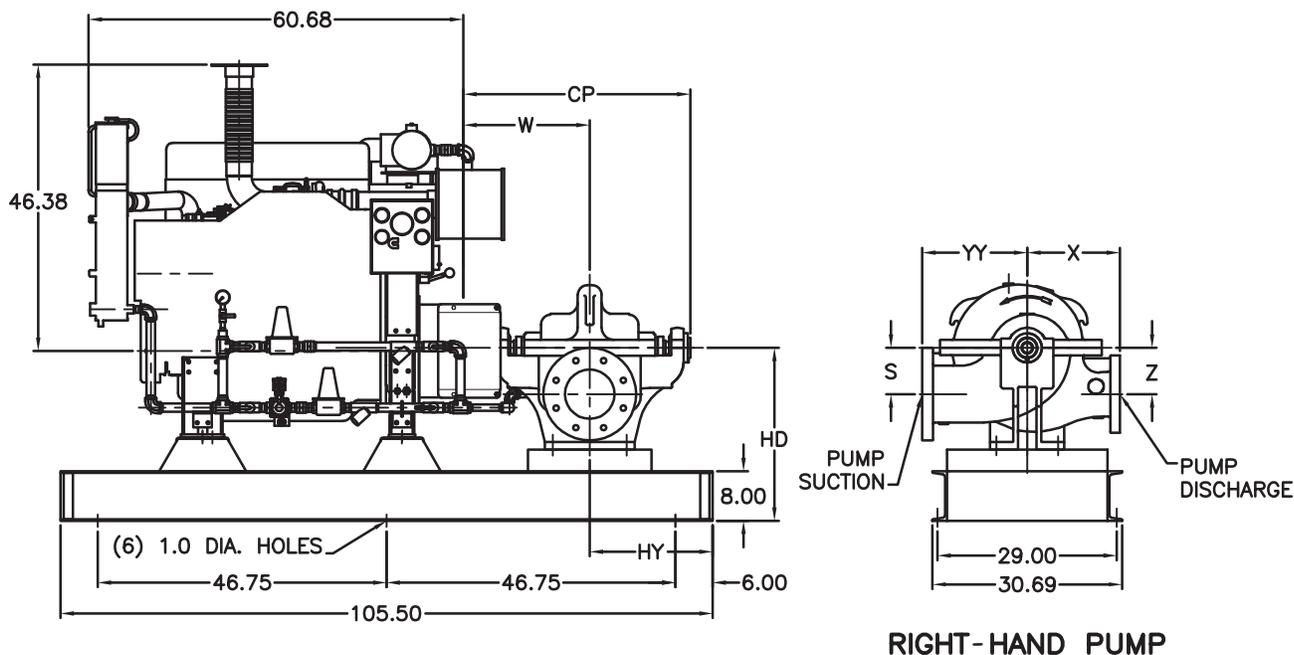
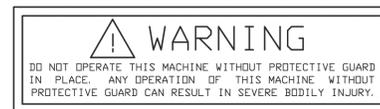
**RIGHT-HAND PUMP**

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HD	HY
DISCH	MODEL	CASE BORE											
4	4"2823CF	14C	6	-	6.88	17.63	13	8.38	31.69	15.25	3/4	27.69	22.25
4	4"5824F	18	5	-	9.5	18.38	14	9.5	33.25	14	3/4	27.69	21.5
5	5"2824AF	18A	8	-	8.13	18.88	15	10.63	33.38	18.75	1	27.69	21
6	6"2876AF	12A	6	-	6.88	16.63	20.5	7.13	29.69	14	1	27.69	23.25
6	6"2823AF/CF	14A/C	10	-	9.38	20.13	13.25	10	35.88	18	1	31.69	19.75
6	6"5824F	18	8	-	9.63	22.5	16	9.63	40.13	16	1	27.69	17.38
8	8"2824AF	14A	12	-	10.75	20.5	16	10.75	36.63	22	1	36.69	19.88

- NOTES:
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  - Suction and discharge flanges are ANSI Standard flat face.
  - Refer to individual engine dimension print for reference point used to determine overall engine length.
  - Left-hand (counterclockwise) rotation is not available.
  - The driveshaft is not designed to operate at a  $0^\circ$  angle. The engine crankshaft is to be parallel offset of  $0.50 \pm 0.25$  inch. The engine crankshaft may be parallel offset from the pump shaft 0.50 inch right or left.

**FAIRBANKS NIJHUIS™**  
**MODELS 1800, 2800, 5800**  
 SINGLE-STAGE FIRE PUMP  
 CUMMINS CFP83 DIESEL ENGINE DRIVE

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 Date **NOVEMBER 2013**



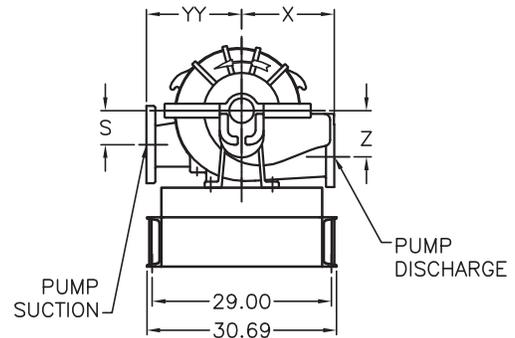
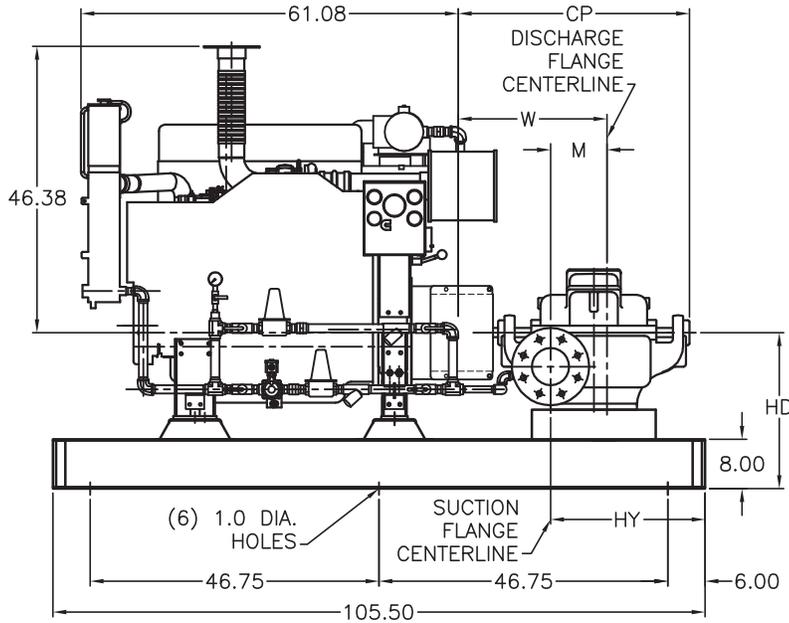
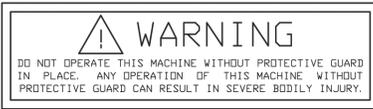
**RIGHT-HAND PUMP**

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HY	HD
DISCH	MODEL	CASE BORE											
5	5"2824AF	18A	8	-	8.13	18.88	15	10.63	31.38	18.75	1	19.13	27.75
6	6"1823F	15	8	5	6.75	18	14.25	6.75	32	16.75	1.25	20	27.75
6	6"1824BF/CF	18B/C	8	5	8	18	16	8	32	18	1.25	20	27.75
6	6"2824CF	18C	10	-	9.38	20.13	16	11.75	35.88	20	1	17.88	31.75
6	6"5824F	18	8	-	9.63	22.5	16	8.63	40.13	16	1	15.5	27.75
6	6"1825F	20	8	5	8	18	15.75	8	32	18	1.25	20	27.75
8	8"1822F	12	10	5	8	18	17	9	32	17.75	1.25	20	27.75
8	8"1824BF	17B	10	5	8	18	17	8	32	17.75	2	20	27.75
8	8"2824AF	18A	12	-	10.75	23.75	16	12.5	41.5	22	1	14.25	31.75
8	8"1825F/AF	21/A	10	6B	9.5	21.88	18	9.5	38	21	1.25	16.13	31.75
8	8"1826F	24	12	7	15	25.25	20	15	43.88	25	1.25	12.75	36.75
10	10"1824F	18	12	6B	13.5	21.88	18	13.5	38	22	1.25	16.13	36.75
10	10"1824DF	18D	12	7A	12.25	24.31	20	12.25	43	24	1.25	13.75	36.75

**NOTES:**

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**FAIRBANKS NIJHUIS™**  
**MODEL 1900**  
 TWO-STAGE FIRE PUMPS  
 CUMMINS CFP83 DIESEL ENGINES



**RIGHT-HAND PUMP**

PUMP SIZE			SUCTION	POWER SERIES	S	M	W	X	Z	CP	YY	ZZ	HY	HD
DISCH	MODEL	CASE BORE												
6	6"1923F	16	8	-	8.25	10.5	23.63	19	7.25	37.88	17	1.25	17	27.75
6	6"1922AF	17A	8	5	7	11	24.5	16	9	38	16.5	1.25	17	27.75

- NOTES:
1. All dimensions are in inches and may vary  $\pm 3/8"$ .
  2. Not for construction purposes, unless certified.
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  4. Refer to individual engine dimension print for reference point used to determine overall engine length.
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  6. The driveshaft is not designed to operate at a  $0^\circ$  angle. The engine crankshaft is to be parallel offset of  $0.50 \pm 0.25$  inch. The engine crankshaft may be parallel offset from the pump shaft 0.50 inch right or left.