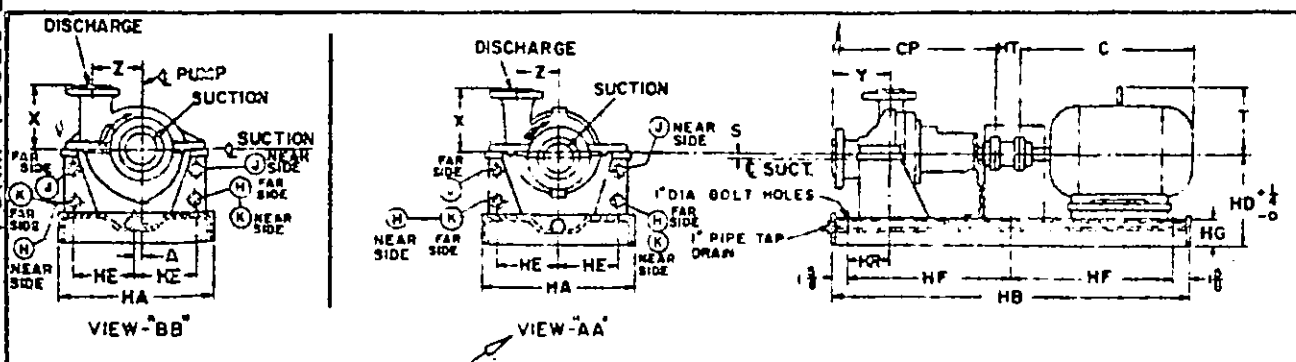




PUMP DATA

LINE NO.	PUMP	VIEW	WEIGHT	SUCT.	DISCH.	A	S	X	Y	Z	CP	HR	HT	BASEPLATE NUMBER FOR MOTOR FRAME	
1	1 1/2 X 7 ALN/ALS	AA	245	3	1 1/2	—	0	6 1/2	6 1/2	4 1/2	27 1/2	5	4 1/2	NO 12 (182-256)	NO 13 (284-326)
2	3 X 7 A/AN /AS	AA	245	4	3	—	0	9 1/2	6 1/2	4 1/2	27 1/2	5	4 1/2		
3	1 X 8 A/AN /AS	AA	250	2	1	—	0	9	7	4 1/2	28 1/2	5	4 1/2		
4	1 1/2 X 8 A/AN /AS	AA	270	2 1/2	1 1/2	—	0	9	7	5 1/2	28 1/2	5	4 1/2		
5	2 X 8 A/AN /AS	AA	275	3	2	—	0	9	7	5 1/2	28 1/2	5	4 1/2		
6	3 X 7 ALN/ALS	AA	290	4	3	—	0	9 1/2	6 1/2	5	27 1/2	6 1/2	4 1/2	NO 14 (182-256)	NO 15 (204-366)
7	3 X 8 A/AN /AS	AA	300	4	3	—	0	9 1/2	7 1/2	6	29 1/2	6 1/2	4 1/2		
8	4 X 8 A/AN /AS	AA	360	6	4	—	0	10 1/2	7 1/2	6 1/2	29 1/2	6 1/2	4 1/2		
9	1 X 10 A/AN /AS	AA	345	2	1	—	0	9 1/2	7	5 1/2	31 1/2	6 1/2	4 1/2		
10	1 1/2 X 10 A/AN /AS	AA	360	2 1/2	1 1/2	—	0	9 1/2	7	5 1/2	31 1/2	6 1/2	4 1/2		
11	2 X 10 A/AN /AS	AA	375	4	2	—	0	9 1/2	7 1/2	5 1/2	31 1/2	6 1/2	4 1/2	NO 17 (182-256)	NO 18 (204-366)
12	3 X 10 A/AN /AS	AA	380	4	3	—	0	10	7 1/2	6 1/2	31 1/2	6 1/2	4 1/2		
13	4 X 10 A/AN /AS	AA	420	6	4	—	0	10 1/2	7 1/2	6 1/2	32 1/2	6 1/2	4 1/2		
14	4 X 7 ALN/ALS	AA	360	6	4	—	0	10	7 1/2	6 1/2	29 1/2	6 1/2	4 1/2		
15	4 X 8 A/AN /AS	AA	460	6	4	—	0	11 1/2	8 1/2	6 1/2	34 1/2	6 1/2	5		
16	2 X 12 A/AN /AS	AA	500	4	2	—	0	13	7 1/2	7 1/2	33 1/2	6 1/2	5	NO 21 (364-447)	NO 22 (504-509)
17	3 X 12 A/AN /AS	AA	575	4	3	—	0	13	7 1/2	8	34	6 1/2	5		
18	4 X 11 A/AN	AA	715	6	4	—	0	14	9 1/2	8 1/2	36 1/2	6 1/2	5		
19	4 X 12 A/AN /AS	AA	675	6	4	—	0	13	8 1/2	8 1/2	35	6 1/2	5		
20	4 X 13 A/AN	AA	700	6	4	—	0	14	8 1/2	9 1/2	36 1/2	6 1/2	5		
21	6 X 12 A/AN /AS	AA	715	8	6	—	0	14	9	9 1/2	35 1/2	6 1/2	5	NO 25 (364-447)	NO 26 (504-509)
22	6 X 15 A	BB	1200	0	6	2 1/2	0	16	9	11 1/2	39 1/2	10 1/2	7		
23	8 X 15 A	BB	1350	10	8	2 1/2	0	16	10	12	40 1/2	10 1/2	7		
24	8 X 17 A	BB	1500	10	8	3 1/2	0	19	10	13 1/2	41 1/2	10 1/2	7		
25	10 X 17 A	BB	1700	12	10	3 1/2	0	19	10	15	42	10 1/2	7		
26	8 X 19 A	AA	1400	8	6	—	0	17 1/2	9	13 1/2	39 1/2	10 1/2	7	NO 91 (284-365)	NO 92 (404-447)
27	6 X 19 AL	AA	1550	10	6	—	0	17 1/2	9	13 1/2	39 1/2	10 1/2	7		
28	8 X 21 A	BB	1650	10	8	3	0	19	10	15 1/2	41 1/2	10 1/2	7		
29	8 X 21 AL	BB	1650	12	8	3	0	19	10	15 1/2	42	10 1/2	7		

MOTOR DATA

FRAME	182	184	213	215	254	256	284	324	326	364	366	404	406	444	446	484	504	506	508	509
WEIGHT	70	80	125	150	230	260	320	365	370	500	550	600	605	700	765	1065	1230	1275	2840	3620
C	4 1/2	5 1/2	7 1/2	8 1/2	11 1/2	12 1/2	14 1/2	16 1/2	17 1/2	21 1/2	23 1/2	25 1/2	26 1/2	31 1/2	33 1/2	41 1/2	43 1/2	45 1/2	47 1/2	53 1/2
T	4 1/2	5 1/2	7 1/2	8 1/2	11 1/2	12 1/2	14 1/2	16 1/2	17 1/2	21 1/2	23 1/2	25 1/2	26 1/2	31 1/2	33 1/2	41 1/2	43 1/2	45 1/2	47 1/2	53 1/2

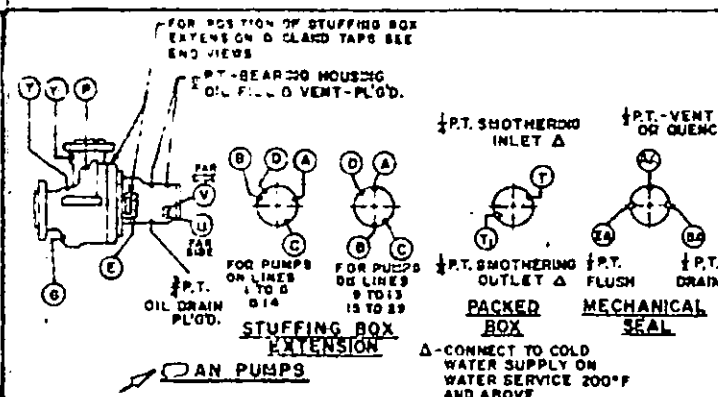
* BASED ON TOTALLY ENCLOSED FAN-COOLED MOTORS DIMENSIONS AND WEIGHTS WILL VARY WITH MAKE AND TYPE OF MOTORS

PRELIMINARY DO NOT USE FOR CONSTRUCTION UNLESS ENDORSED BELOW

CUSTOMER HUDSON ENGR. CORP. / DOW-BADISCHE Co. CUST. ORD. NO. 7005-5-1

PROJECT AND LOCATION CUST. REC. NO.

I.R.	CUST	LINE NO.	EXT.	FIG	FRAME B	HP	BASE	COUP	PIPING	ARRANGEMENT
IT. NO.	IT. NO.	PUMP	SEAL	#8	ENCLOSURE	RPM	NO.	GUARD	FIG. NO.	PLAN
1	P-10A/B	3X12AN	NO	YES	365TS	100	18	YES	NO	A

INGERSOLL-RAND COMPANY CERTIFIED ONLY WHEN ENDORSED BELOW
ORDER NO. 020-31499 PER DATE 1/20/69

FLANGE DATA

NOZZLE SIZE	DIA.	THICKNESS		RAISED FACE		BOLTS		B.C.
		MIN.	MAX.	DIA.	NO.	DIA.		
1	4 5/8	1 1/8	1 1/8	2	4	0	3 1/2	
1 1/2	6 0	1 1/8	1 1/8	2 1/2	4	0	4 1/2	
2	6 1/2	1 1/8	1 1/8	3 1/2	0	0	5	
2 1/2	7 1/2	1 1/8	1 1/8	4 1/2	0	0	5 1/2	
3	8 1/2	1 1/8	1 1/8	5 1/2	0	0	6 1/2	
4	10	1 1/8	1 1/8	6 1/2	0	0	7 1/2	
5	12 1/2	1 1/8	1 1/8	8 1/2	0	0	10	
6	15	1 1/8	1 1/8	10 1/2	0	0	13 1/2	
8	17 1/2	1 1/8	1 1/8	12 1/2	0	0	15 1/2	
10	20 1/2	2	2	15	0	0	17 1/2	

AUXILIARY PIPING CONNECTIONS

ALL PUMPS	E	3/4 P.T. - BEARING BRACKET DRAIN-G. AND LEAKAGE	
	G	3/4 P.T. - CASING DRAIN-PLUGGED	WHEN SPECIFIED
	H	3/4 P.T. - INLET	PUMP WHEN SPECIFIED
	J	3/4 P.T. - OUTLET	PEDESTAL WHEN SPECIFIED
	K	3/4 P.T. - PEDESTAL DRAIN-PLUGGED	WHEN SPECIFIED
	P	3/4 P.T. - CASING VENT OR AUXILIARY PIPING CONNECTION	WHEN SPECIFIED
	U	1" P.T. - INLET	GEARING COOLING CARTRIDGE CONNECTIONS
	V	1" P.T. - OUTLET	COOLING RECOMMENDED FOR PUMPING TEMPERATURES
	Y	1/2 P.T. - SUCTION GAGE-VENT OR AUXILIARY PIPING CONNECTIONS	WHEN SPECIFIED
	Y	1/2 P.T. - DISCHARGE GAGE - WHEN SPECIFIED	-(1/4 P.T. ON 1 X 8 & 1 X 10 PUMPS)
"A" PUMPS	A	3/4 P.T. - INLET	STUFFING BOX
	B	3/4 P.T. - OUTLET	SEALING LIQUID
	C	3/4 P.T. - INLET	STUFFING BOX
	D	3/4 P.T. - OUTLET	JACKET
"AN" PUMPS	A	3/4 P.T. - INLET	STUFFING BOX
	B	3/4 P.T. - OUTLET	SEALING LIQUID
	C	3/4 P.T. - INLET	STUFFING BOX
	D	3/4 P.T. - OUTLET	JACKET - PLUGGED
"AS" PUMPS	A	1/2 P.T. -	STANDARD - SEAL VENT - INTERNAL CIRCULATION.
			SPECIAL - SEAL VENT - EXTERNAL SEAL INJECTION FURNISHED WHEN REQUIRED OR SPECIFIED IN TITLE BOX WITH AN "X".
PIPING FURNISHED BY CUSTOMER.			

PIPING ARRANGEMENTS

MECHANICAL SEALS	PACKED STUFFING BOX
RECOMMENDED SEAL PIPING PLAN AS SHOWN ON I.R. FORM NO 70526-1 AND PROPER FIGURE NO. BELOW TO BE DESIGNATED IN TITLE BOX. PIPING TO BE FURNISHED BY I.R. COMPANY WILL BE INDICATED "YES" IN TITLE BOX.	PACKED SOLID
FIG. NO. PIPING PLAN	4 (A B T) TAPS PLUGGED
A, B, P, P, P, P	INTERNAL SEAL
INTERNAL PIPING	5 (A P) PIPING WITH REG. VALVE FROM CASING VENT TO BOX
EXTERNAL PIPING	6 (B G T T T) TAPS PLUGGED
INTERNAL SEAL	EXTERNAL SEAL
EXTERNAL SEAL	7 (A) CUSTOMER TO INJECT CLEAR COOL LIQUID AT 15 TO 20 PSIG ABOVE STUFFING BOX PRESSURE
EXTERNAL FLUSHING	8 (B T T) TAPS PLUGGED
INTERNAL FLUSHING	EXTERNAL CIRCULATION
EXTERNAL FLUSHING	9 (A B) CUSTOMER TO CIRCULATE CLEAR COOL LIQUID AT 15 TO 20 PSIG ABOVE STUFFING BOX PRESSURE
INTERNAL FLUSHING	10 (T T) TAPS PLUGGED
EXTERNAL FLUSHING	OPTIONAL TAPS
INTERNAL FLUSHING	11 (G P Y Y) FURNISHED AS SPECIAL WITH FIGS. 3-4-5-6-7 WHEN SPECIFIED IN TITLE BOX
EXTERNAL FLUSHING	12 (H J K) PEDESTAL COOLING TAPS FURNISHED SPECIAL WHEN SPECIFIED IN TITLE BOX

SERVICE

LIQUID

MBA CIRC. PUMPS

GENERAL NOTES

ALL HOLES IN FLANGES STRADDLE CENTERLINE. ALL DIMENSIONS IN INCHES & WEIGHT IN LBS. ALLOW 1/4" FOR VARIATION OF FOUNDATION BOLT HOLES. FOUNDATION BOLTS & PIPING SHOULD NOT BE SET RIGIDLY UNTIL RECEIPT OF EQUIPMENT. ALLOW 3/4" UNDER BASEPLATE FOR GROUTING. RING-OLED BALL BEARINGS.

GENERAL ARRANGEMENT

A-LINE PUMPS
RIGHT HAND ROTATION (C.C.W.-H.I.)
SINGLE STAGE - SINGLE SUCTION - CENTERLINE MOUNTED

FORM-70623-2-B

P.M. 1 2-4-69 DUN 64. CUB. E.C.J. A-114
CHG'D MOTOR FRAME FROM 184TS TO 365TS - CHG'D BASEPLATE FROM P19 TO P18

2 3-5-69 DUN 64. CUB. E.C.J. A-114
INDICATE "A" & "B" TAPS PLUGGED.

#67260