

AURORA® MODEL 611A PUMP

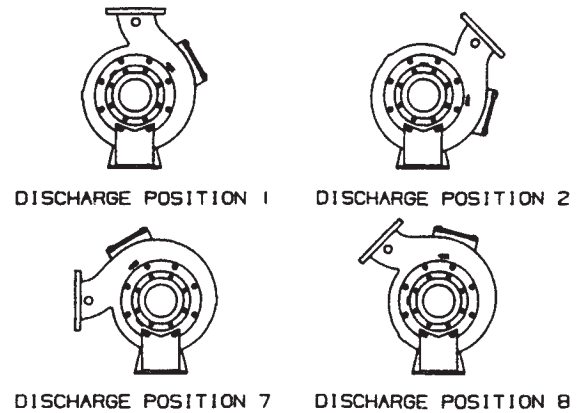
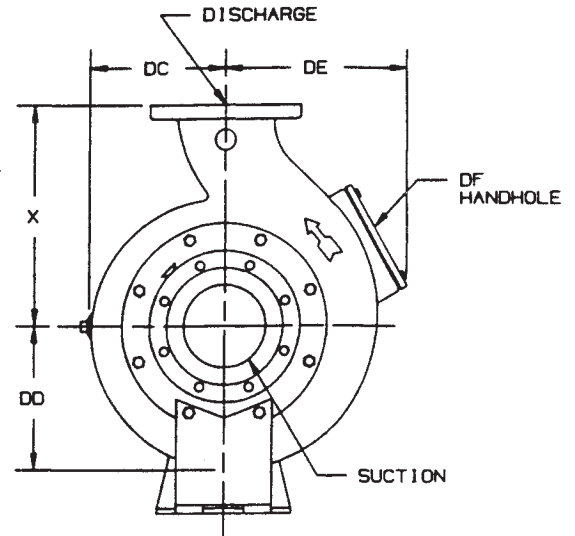
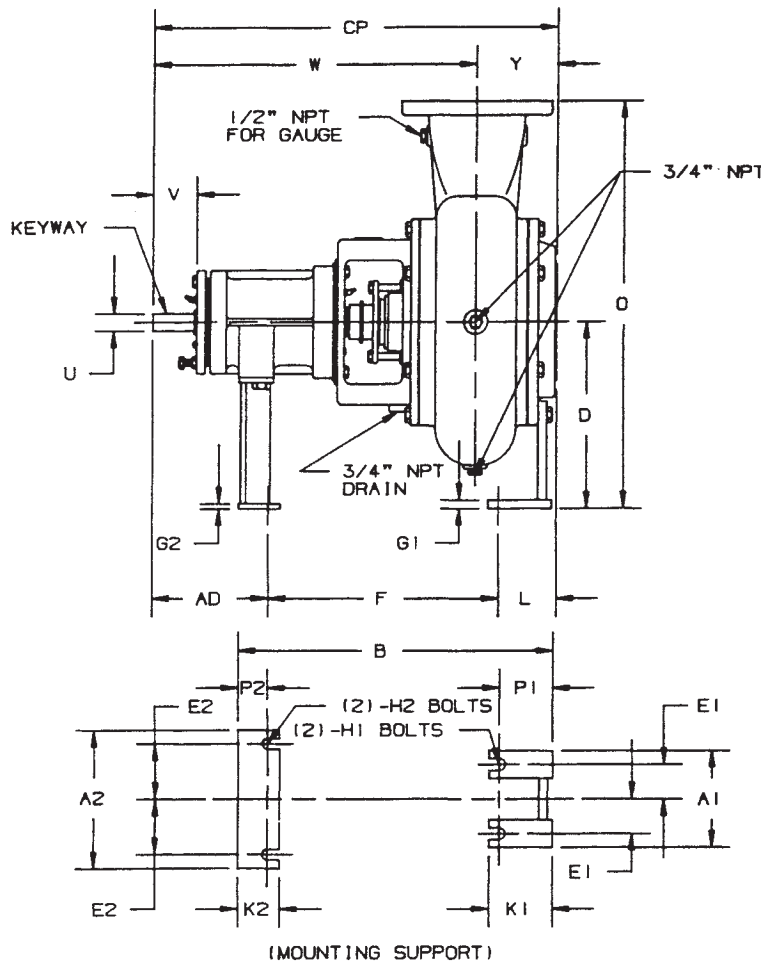
6" & 8" PUMPS

Section **610** Page **201**

Date **October 2017**

Supersedes Section 610 Page 201

Dated October 1992

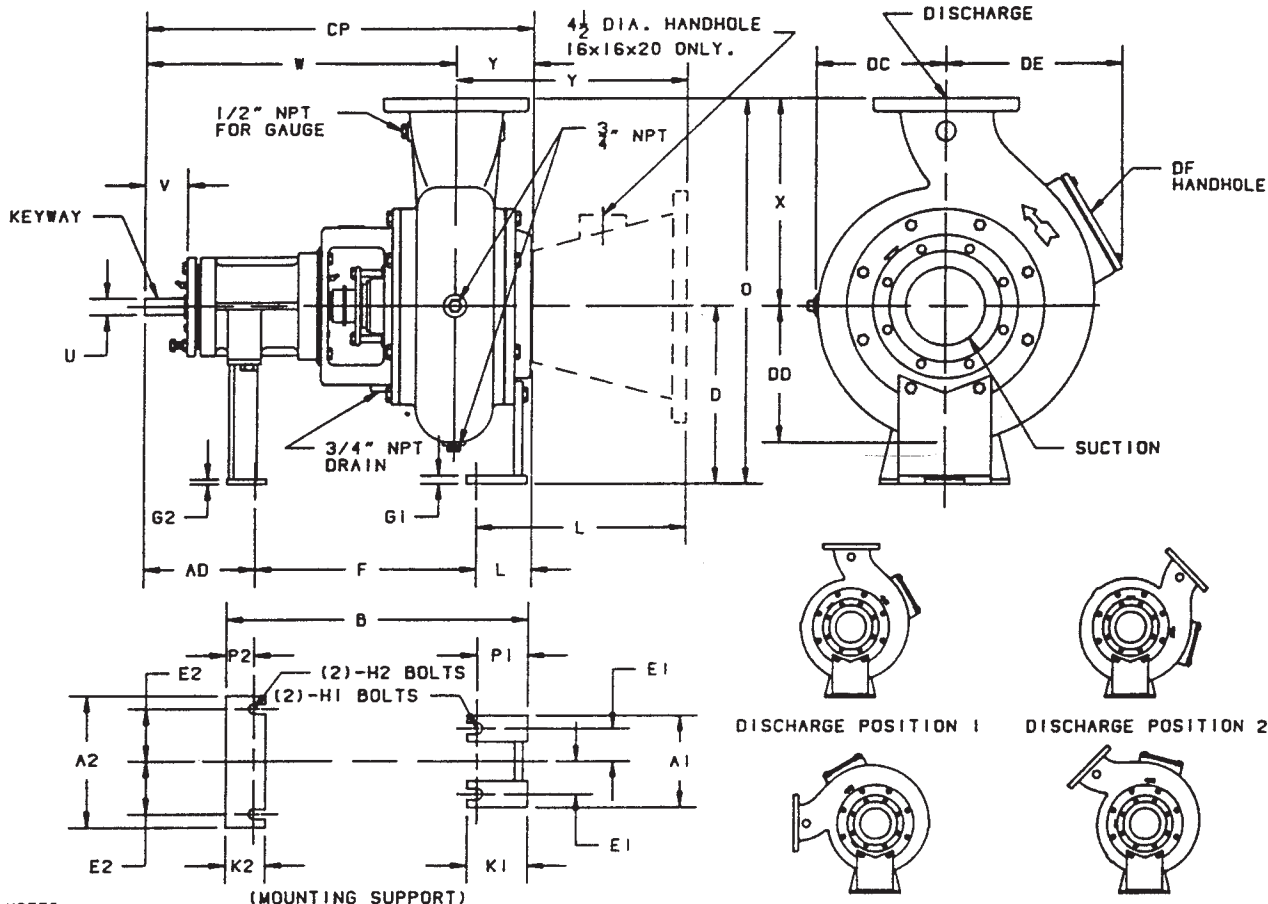


- NOTES:
1. ALL DIMENSIONS IN INCHES.
 2. DIMENSIONS MAY VARY $\pm 1/2$ ".
 3. NOT FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED.
 4. TWO (2) 1/2" NPT CONNECTIONS 180° APART, ON THE STUFFING BOX FOR LUBRICATION PURPOSES ARE FURNISHED AS STANDARD. ON PACKED PUMPS AN ALEMITE FITTING IS PROVIDED IN ONE TAP AND THE REMAINING TAP IS PLUGGED.
 5. DISCHARGE POSITION 1 IS FURNISHED AS STANDARD UNLESS SPECIFIED.
 6. SUCTION AND DISCHARGE FLANGES ARE AMERICAN STANDARD 125 LBS.

POWER FRAME	U	V	KEYWAY		
			LENGTH	WIDTH	DEPTH
4C, 4D	1 1/4	3 3/16	2	1/4	1/8
5E, 5F 5G, 5H	2 3/8	6 3/8	4	5/8	5/16

DISCH SUCTION CASE BORE	POWER FRAME	A1	A2	B	D	E1	E2	F	G1	G2	H1	H2	K1	K2
6x6x12	4C, 4D	7	10	22 7/8	13 1/2	2 1/2	4	16 7/8	5/8	3/8	5/8	5/8	4 5/8	3
6x6x12	5E, 5F	7	10	28 15/16	13 1/2	2 1/2	3 3/4	22 5/16	5/8	3/8	3/4	3/4	4 5/8	4
6x6x12B	4C, 4D	7	10	22 7/8	13 1/2	2 1/2	4	16 7/8	5/8	3/8	5/8	5/8	4 5/8	3
6x6x12B	5E, 5F	7	10	28 15/16	13 1/2	2 1/2	3 3/4	22 5/16	5/8	3/8	3/4	3/4	4 5/8	4
6x8x15	5E, 5F	11 1/2	11	29 1/8	15 1/4	4 1/4	4 1/4	20 7/8	5/8	3/8	7/8	7/8	7	3 1/2
6x8x18	5E, 5F	11 1/2	12 1/2	29 7/8	17 1/2	4 1/4	5	20 5/8	3/4	1/2	7/8	7/8	7	4 1/2
8x8x15A	5E	11 1/2	11	29 13/16	15 1/4	4 1/4	4 1/4	21 9/16	5/8	3/8	7/8	7/8	7	3 1/2
8x10x18	5G, 5H	11 1/2	12 1/2	31	17 1/2	4 1/4	6	21 3/4	3/4	1/2	7/8	7/8	7	4 1/2
8x10x22	5G, 5H	11	15	31 1/4	21	4	6 1/4	21 3/4	3/4	1/2	7/8	7/8	7 1/4	4 1/2

DISCH SUCTION CASE BORE	POWER FRAME	L	O	P1	P2	W	X	Y	AD	CP	DC	DD	DE	DF
6x6x12	4C, 4D	4 1/4	27 1/2	3 7/8	2 1/8	23 5/16	14	6 3/16	8 3/8	29 1/2	9 1/2	10 1/2	13 7/8	5x5
6x6x12	5E, 5F	4 1/4	27 1/2	3 7/8	2 3/4	34 3/16	14	6 3/16	13 13/16	40 3/8	9 1/2	10 1/2	13 7/8	5x5
6x6x12B	4C, 4D	4 1/4	29 1/2	3 7/8	2 1/8	23 7/16	16	6 1/16	8 3/8	29 1/2	10 3/8	11 1/16	13 7/8	5x5
6x6x12B	5E, 5F	4 1/4	29 1/2	3 7/8	2 3/4	34 5/16	16	6 1/16	13 13/16	40 3/8	10 3/8	11 1/16	13 7/8	5x5
6x8x15	5E, 5F	5 3/4	31 1/4	6	2 1/4	33 3/4	16	6 1/8	13 1/4	39 7/8	11 3/8	12 1/2	15 3/8	5x5
6x8x18	5E, 5F	5 3/4	35 1/2	6	3 1/4	34 1/16	18	6 7/16	14 1/8	40 1/2	13	14 3/8	16 7/8	5x5
8x8x15A	5E	8 7/16	34 1/4	6	2 1/4	34 1/8	19	9 1/8	13 1/4	43 1/4	12 5/8	13 1/2	15 3/4	5x7
8x10x18	5G, 5H	5 1/2	36 1/2	6	3 1/4	34 5/8	19	6 3/4	14 1/8	41 3/8	12 7/8	14 9/16	16	5x7
8x10x22	5G, 5H	5 5/8	43	6 1/4	3 1/4	34 5/8	22	6 7/8	14 1/8	41 1/2	14 7/8	16 1/2	17 7/8	5x7



NOTES:

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5. DISCHARGE POSITION 1 IS FURNISHED AS STANDARD UNLESS SPECIFIED.
6. SUCTION AND DISCHARGE FLANGES ARE AMERICAN STANDARD 125 LBS.

DISCHARGE POSITIONS AVAILABLE
(VIEWED FROM SUCTION END)

POWER FRAME	U	V	KEYWAY		
			LENGTH	WIDTH	DEPTH
5E, 5F	2 3/8	6 3/8	4	5/8	5/16
5G, 5H					
6D, 6F	2 7/8	6 5/8	5	3/4	3/8
6E	2 7/8	5 3/4	4	3/4	3/8

DISCH SUCTION CASE BORE	POWER FRAME	A1	A2	B	D	E1	E2	F	G1	G2	H1	H2	K1	K2
10x10x15	5E, 5F	11 1/2	11	31	15 1/4	4 1/4	4 1/4	22 3/4	5/8	3/8	7/8	7/8	7	3 1/2
10x10x22	6E	11	15	33 3/4	21	4	6 1/4	24 1/8	3/4	1/2	7/8	7/8	7 1/4	4 1/2
10x12x22	5G, 5H	11	15	32 5/16	21	4	6 1/4	22 3/4	3/4	1/2	7/8	7/8	7 1/4	4 1/2
10x12x22	6D	11	15	34 13/16	21	4	6 1/4	25 1/8	3/4	1/2	7/8	7/8	7 1/4	4 1/2
12x12x22	6E	11	15	34 1/4	21	4	6 1/4	25 1/4	3/4	1/2	7/8	7/8	7 1/4	4 1/2
12x14x22A	5G, 5H	11	15	32 3/8	21	4	6 1/4	22 7/8	3/4	1/2	7/8	7/8	7 1/4	4 1/2
12x14x22A	6D	11	15	34 1/4	21	4	6 1/4	25 1/4	3/4	1/2	7/8	7/8	7 1/4	4 1/2
12x14x22B	5G, 5H	11	15	32 3/8	21	4	6 1/4	22 7/8	3/4	1/2	7/8	7/8	7 1/4	4 1/2
12x14x22B	6D	11	15	34 1/4	21	4	6 1/4	25 1/4	3/4	1/2	7/8	7/8	7 1/4	4 1/2
14x14x22A	6E	11	15	34 1/4	21	4	6 1/4	25 1/4	3/4	1/2	7/8	7/8	7 1/4	4 1/2
16x16x20	6F	11	15	39	24	4	6 1/4	29 1/2	3/4	1/2	7/8	7/8	7 1/4	4 1/2

DISCH SUCTION CASE BORE	POWER FRAME	L	O	P1	P2	W	X	Y	AD	CP	DC	DD	DE	DF
10x10x15	5E, 5F	8 7/8	35 1/4	6	2 1/4	34 13/16	20	10 1/16	13 1/4	44 7/8	11 5/8	13 5/8	17 1/2	5x7
10x10x22	6E	5 5/8	43	6 1/4	3 1/4	37 1/8	22	6 7/8	14 1/4	44	15	16 1/2	18 1/2	5x7
10x12x22	5G, 5H	5 3/8	43 1/2	6 1/4	3 1/4	35 1/16	22 1/2	7 3/16	14 1/8	42 1/4	15 1/2	17 7/8	20 1/8	5x7
10x12x22	6D	5 3/8	43 1/2	6 1/4	3 1/4	37 9/16	22 1/2	7 3/16	14 1/4	44 3/4	15 1/2	17 7/8	20 1/8	5x7
12x12x22	6E	5 3/8	43 1/2	6 1/4	3 1/4	37 5/8	22 1/2	7 1/4	14 1/4	44 7/8	15 5/8	17 3/4	21	5x7
12x14x22A	5G, 5H	5 3/8	45	6 1/4	3 1/4	35 1/8	24	7 1/4	14 1/8	42 3/8	15 7/8	18 3/4	22 1/4	5x7
12x14x22A	6D	5 3/8	45	6 1/4	3 1/4	37 5/8	24	7 1/4	14 1/4	44 7/8	15 7/8	18 3/4	22 1/4	5x7
12x14x22B	5G, 5H	5 3/8	45	6 1/4	3 1/4	35 1/8	24	7 1/4	14 1/8	42 3/8	15 7/8	18 3/4	22 1/4	5x7
12x14x22B	6D	5 3/8	45	6 1/4	3 1/4	37 5/8	24	7 1/4	14 1/4	44 7/8	15 7/8	18 3/4	22 1/4	5x7
14x14x22A	6E	5 3/8	45	6 1/4	3 1/4	37 5/8	24	7 1/4	14 1/4	44 7/8	15 7/8	18 3/4	22 1/4	5x7
16x16x20	6F	19 1/2	56	6 1/4	3 1/4	39 7/8	32	23 1/2	14 1/8	63 3/8	17 3/4	20 1/2	24	6 DIA

AURORA® MODEL 612A PUMP

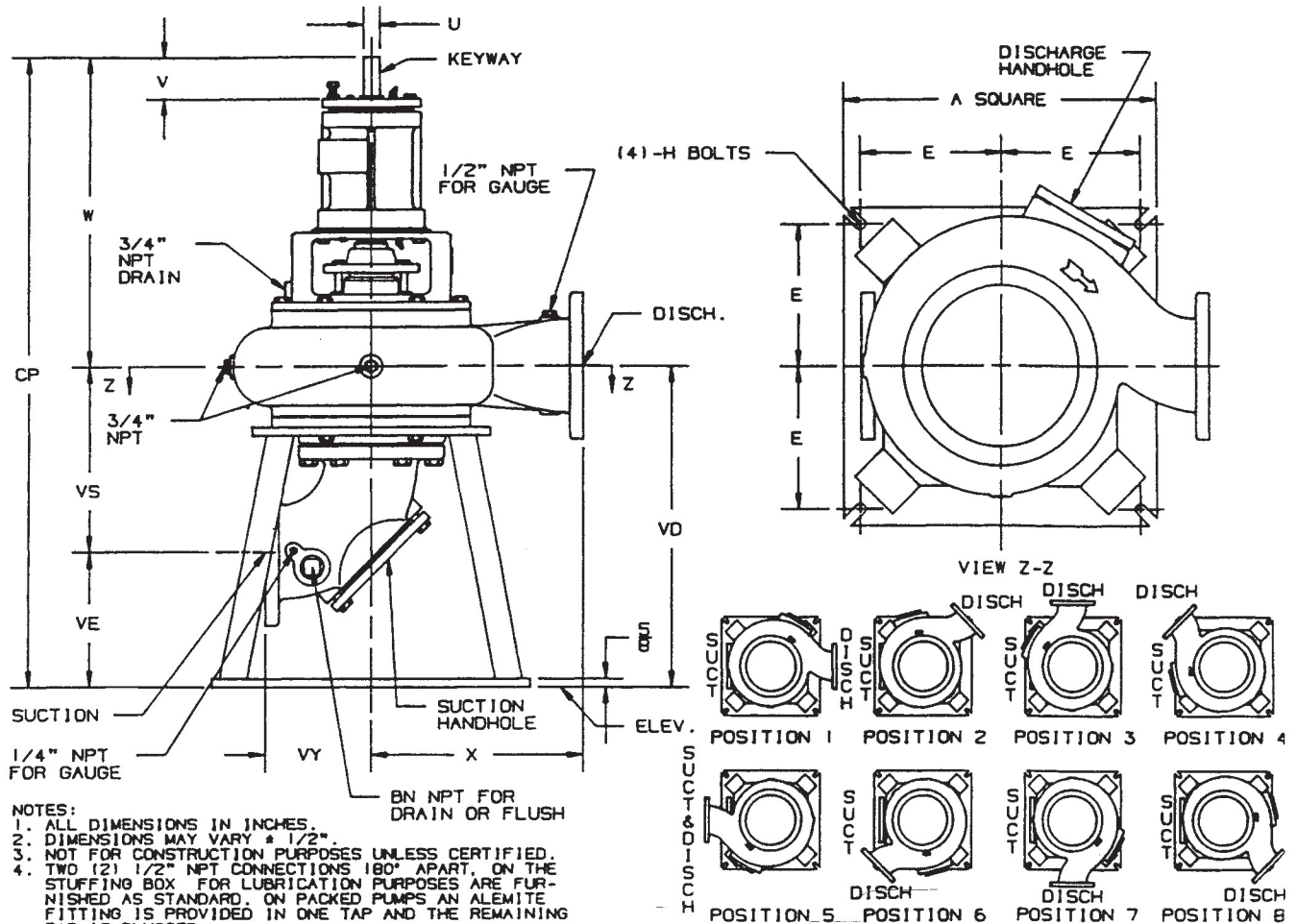
6", 8", 10", 12" & 14" PUMPS

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Date **October 2017**

Supersedes Section 610 Page 203

Dated October 1992



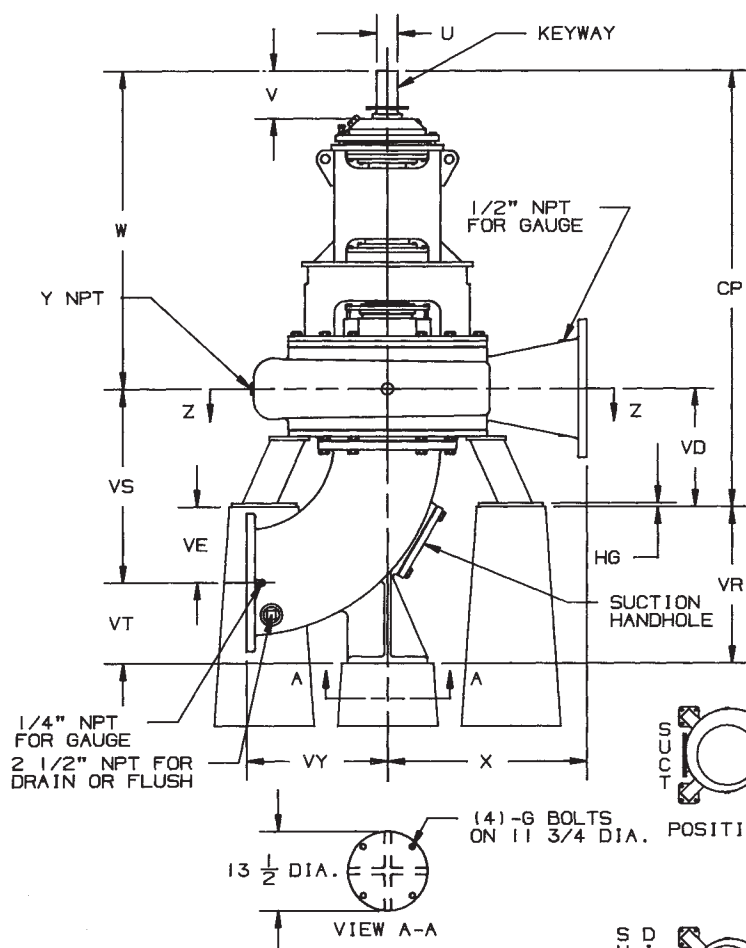
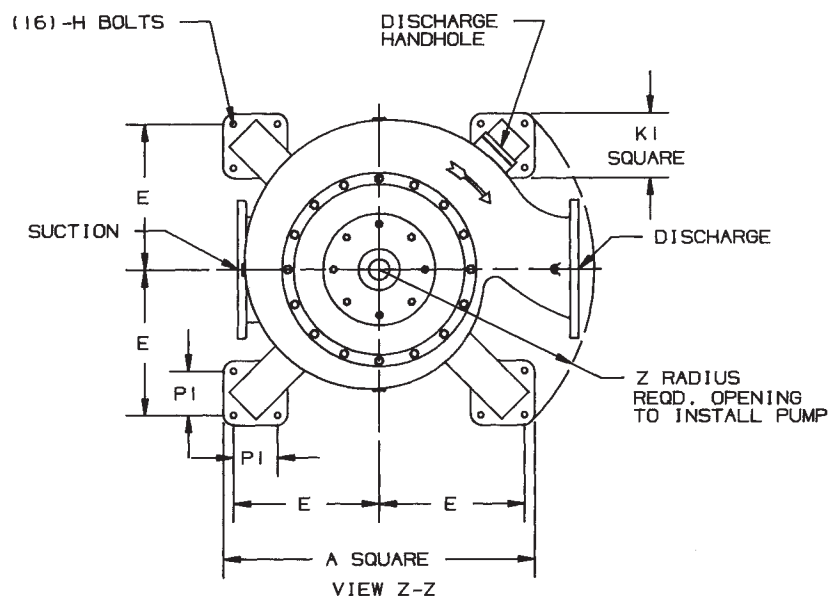
- NOTES:
1. ALL DIMENSIONS IN INCHES.
 2. DIMENSIONS MAY VARY $\pm 1/2"$.
 3. NOT FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED.
 4. TWO (2) 1/2" NPT CONNECTIONS 180° APART, ON THE STUFFING BOX FOR LUBRICATION PURPOSES ARE FURNISHED AS STANDARD. ON PACKED PUMPS AN ALEMITE FITTING IS PROVIDED IN ONE TAP AND THE REMAINING TAP IS PLUGGED.
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 6. SUCTION AND DISCHARGE FLANGES ARE AMERICAN STANDARD 125 LBS.

POWER FRAME	U	V	KEYWAY		
			LENGTH	WIDTH	DEPTH
4C, 4D	1 1/4	3 3/16	2	1/4	1/8
5E, 5F	2 3/8	6 3/8	4	5/8	5/16
5G, 5H					
6D	2 7/8	6 5/8	5	3/4	3/8
6E	2 7/8	5 3/4	4	3/4	3/8

DISCH SUCT CASE BORE	POWER FRAME	A	BN	E	H	VY	W	X	CP	VD	VE	VS	HANDHOLE	
													DISCH.	SUCT.
6x6x12	4C, 4D	24	1 1/2	10 3/4	5/8	8	23 5/16	14	47 9/16	24 1/4	10 1/8	14 1/8	5x5	6
6x6x12	5E, 5F	24	1 1/2	10 3/4	5/8	8	34 3/16	14	58 7/16	24 1/4	10 1/8	14 1/8	5x5	6
6x6x12B	4C, 4D	24	1 1/2	10 3/4	5/8	8	23 7/16	16	47 9/16	24 1/8	10 1/8	14	5x5	6
6x6x12B	5E, 5F	24	1 1/2	10 3/4	5/8	8	34 5/16	16	58 7/16	24 1/8	10 1/8	14	5x5	6
6x8x15	5E, 5F	30	1 1/2	13 3/4	3/4	9	33 3/4	16	65 7/8	32 1/8	17	15 1/8	5x5	6
6x8x18	5E, 5F	30	1 1/2	13 3/4	3/4	9	34 1/16	18	66 7/16	32 3/8	17	15 3/8	5x5	6
8x8x15A	5E	30	1 1/2	13 3/4	3/4	9	34 1/8	19	66 1/2	32 3/8	14 1/4	18 1/8	5x7	6
8x10x18	5G, 5H	30	1 1/2	13 3/4	3/4	11	34 5/8	19	67 5/8	33	15 3/16	17 13/16	5x7	6
8x10x22	5G, 5H	37	1 1/2	17	7/8	11	34 5/8	22	69 1/8	34 1/2	16 5/8	17 7/8	5x7	6
10x10x15	5E, 5F	30	1 1/2	13 3/4	3/4	11	34 13/16	20	67 3/4	32 15/16	11 7/8	21 1/16	5x7	6
10x10x22	6E	37	1 1/2	17	7/8	11	37 1/8	22	71 5/8	34 1/2	16 5/8	17 7/8	5x7	6
10x12x22	5G, 5H	37	1 1/2	17	7/8	12	35 1/16	22 1/2	70 3/16	35 1/8	15 9/16	19 3/16	5x7	8
10x12x22	6D	37	1 1/2	17	7/8	12	37 9/16	22 1/2	72 11/16	35 1/8	15 9/16	19 3/16	5x7	8
12x12x22	6E	37	1 1/2	17	7/8	12	37 5/8	22 1/2	72 3/4	35 1/8	15 9/16	19 3/16	5x7	8
12x14x22A	5G, 5H	37	2 1/2	17	7/8	14	35 1/8	24	70 1/4	35 1/8	13 7/8	21 1/4	5x7	8
12x14x22A	6D	37	2 1/2	17	7/8	14	37 5/8	24	72 3/4	35 1/8	13 7/8	21 1/4	5x7	8
12x14x22B	5G, 5H	37	2 1/2	17	7/8	14	35 1/8	24	70 1/4	35 1/8	13 7/8	21 1/4	5x7	8
12x14x22B	6D	37	2 1/2	17	7/8	14	37 5/8	24	72 3/4	35 1/8	13 7/8	21 1/4	5x7	8
14x14x22A	6E	37	2 1/2	17	7/8	14	37 5/8	24	72 3/4	35 1/8	13 7/8	21 1/4	5x7	8



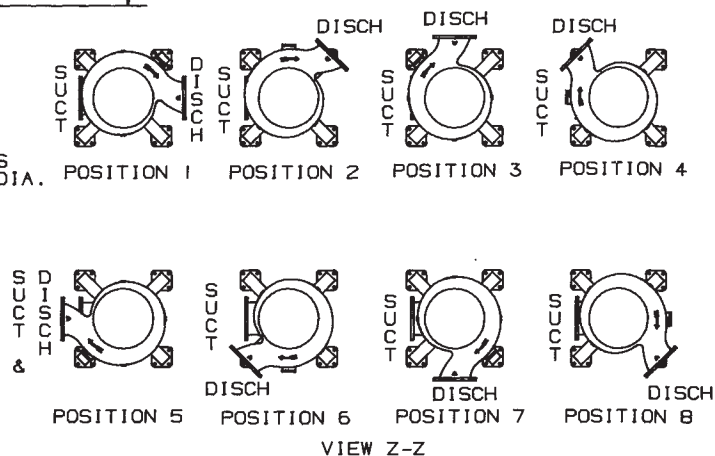
Supersedes Section 610 Page 204
Dated November 1988



CASE BORE			
SUCT.			
DISCH.			
POWER FRAME	8	8	8
A	53	53	53
E	24 3/4	24 3/4	24 3/4
G	3/4	3/4	3/4
H	7/8	7/8	7/8
KI	11	11	11
PI	7 1/2	7 1/2	7 1/2
W	54 3/8	55 1/8	55 5/8
X	34	37	42
Y	3/4	1	1
Z	36	38	44 1/4
CP	74 1/2	78	77 11/16
HG	5/8	5/8	5/8
VD	20 1/8	22 7/8	22 1/16
VE	12 15/16	14 1/8	21 15/16
VR	26 11/16	29 1/8	37 15/16
VS	33 1/16	37	44
VT	13 3/4	15	16
VY	24	26 1/2	29
HANDHOLE DISCH.	6	6	6
HANDHOLE SUCT.	8	8	8

U	V	KEYWAY		
		LENGTH	WIDTH	DEPTH
3 1/2	6 1/2	4 3/4	7/8	7/16

- NOTES:
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 2. DIMENSIONS MAY VARY $\pm 1/2"$.
 3. NOT FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED.
 4. TWO (2) $1/2"$ NPT CONNECTIONS 180° APART, ON THE STUFFING BOX FOR LUBRICATION PURPOSES ARE FURNISHED AS STANDARD. ON PACKED PUMPS AN ALEMITE FITTING IS PROVIDED IN ONE TAP AND THE REMAINING TAP IS PLUGGED.
 5. DISCHARGE POSITION 1 IS FURNISHED AS STANDARD UNLESS SPECIFIED.
 6. SUCTION AND DISCHARGE FLANGES ARE AMERICAN STANDARD 125 LBS.

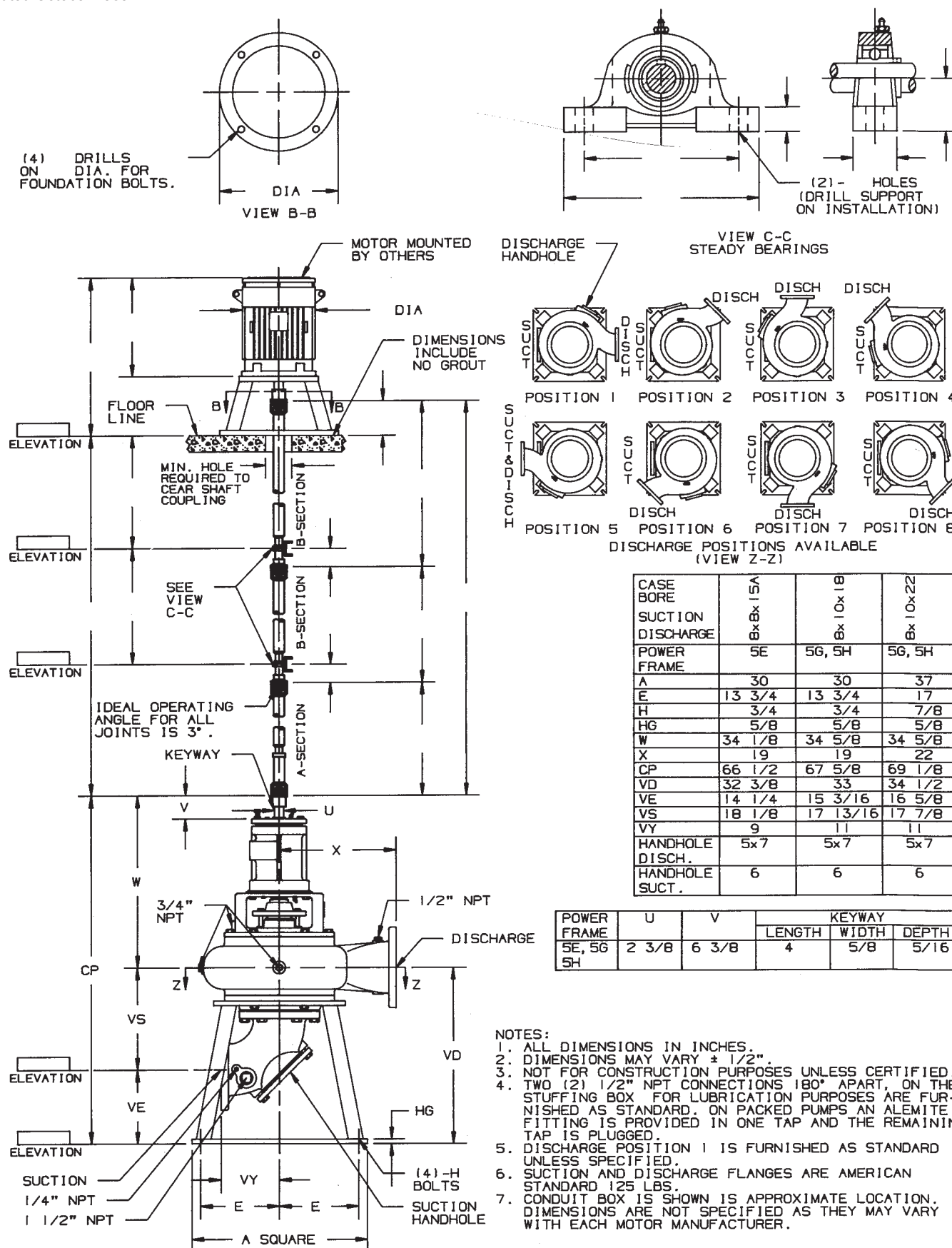


Date **October 2017**

Supersedes Section 610 Page 206

Dated October 1989

8" PUMPS
FLEXIBLE SHAFT

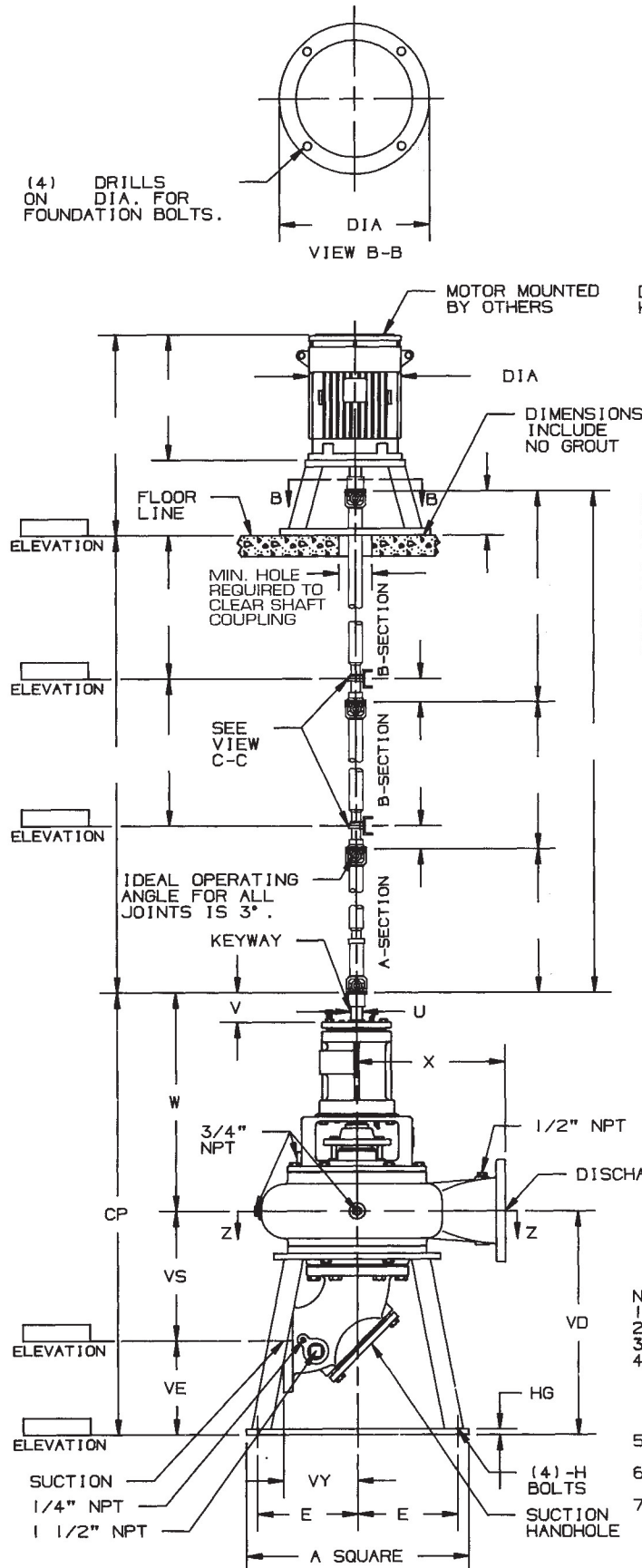


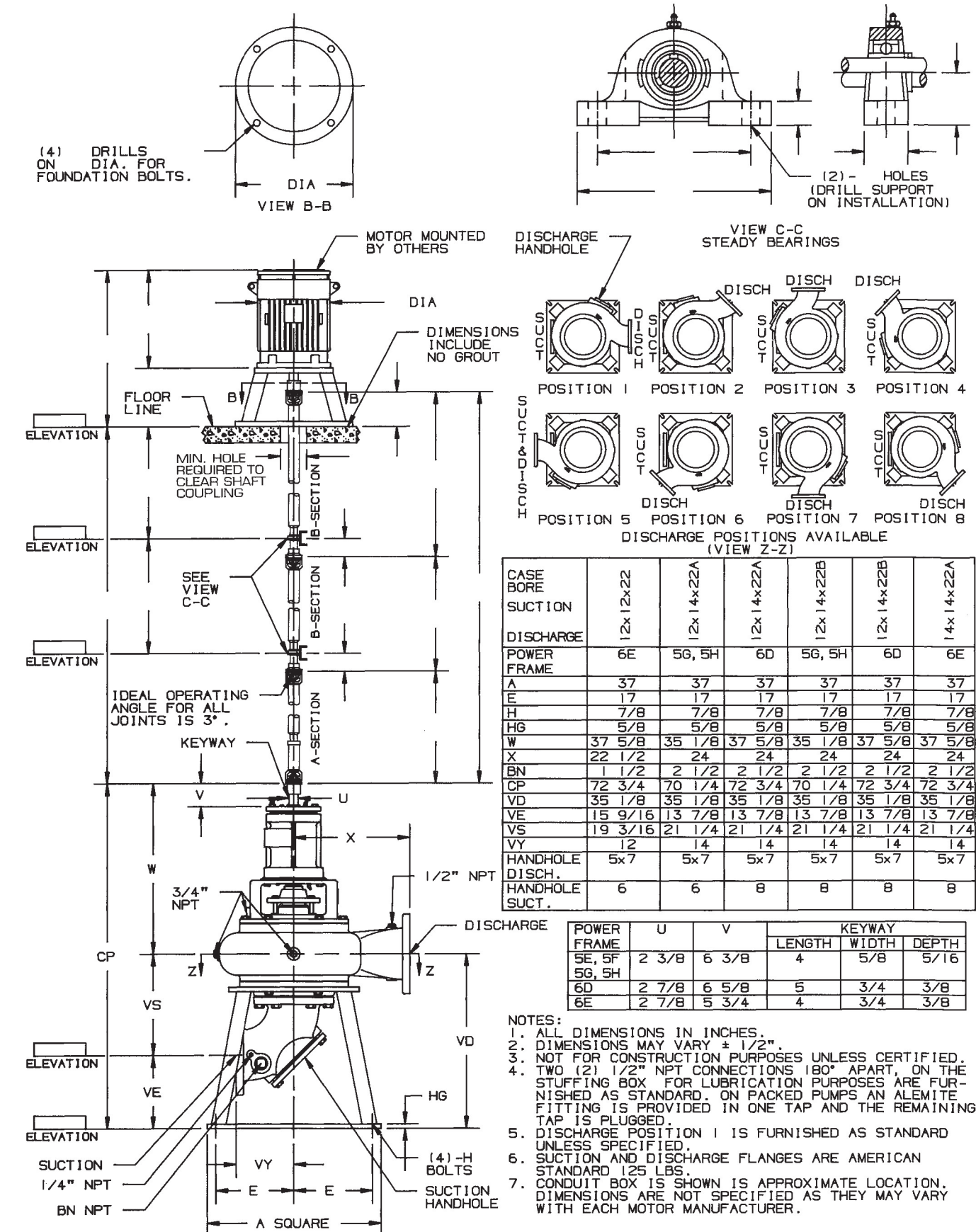
CASE BORE SUCTION DISCHARGE	5x 15x	8x 10x 18	8x 10x 22
POWER FRAME	5E	5G, 5H	5G, 5H
A	30	30	37
E	13 3/4	13 3/4	17
H	3/4	3/4	7/8
HG	5/8	5/8	5/8
W	34 1/8	34 5/8	34 5/8
X	19	19	22
CP	66 1/2	67 5/8	69 1/8
VD	32 3/8	33	34 1/2
VE	14 1/4	15 3/16	16 5/8
VS	18 1/8	17 13/16	17 7/8
VY	9	11	11
HANDHOLE DISCH.	5x7	5x7	5x7
HANDHOLE SUCTION	6	6	6

POWER FRAME	U	V	KEYWAY		
			LENGTH	WIDTH	DEPTH
5E, 5G 5H	2 3/8	6 3/8	4	5/8	5/16

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6. SUCTION AND DISCHARGE FLANGES ARE AMERICAN STANDARD 125 LBS.
7. CONDUIT BOX IS SHOWN IS APPROXIMATE LOCATION. DIMENSIONS ARE NOT SPECIFIED AS THEY MAY VARY WITH EACH MOTOR MANUFACTURER.





AURORA® MODEL 612A PUMP

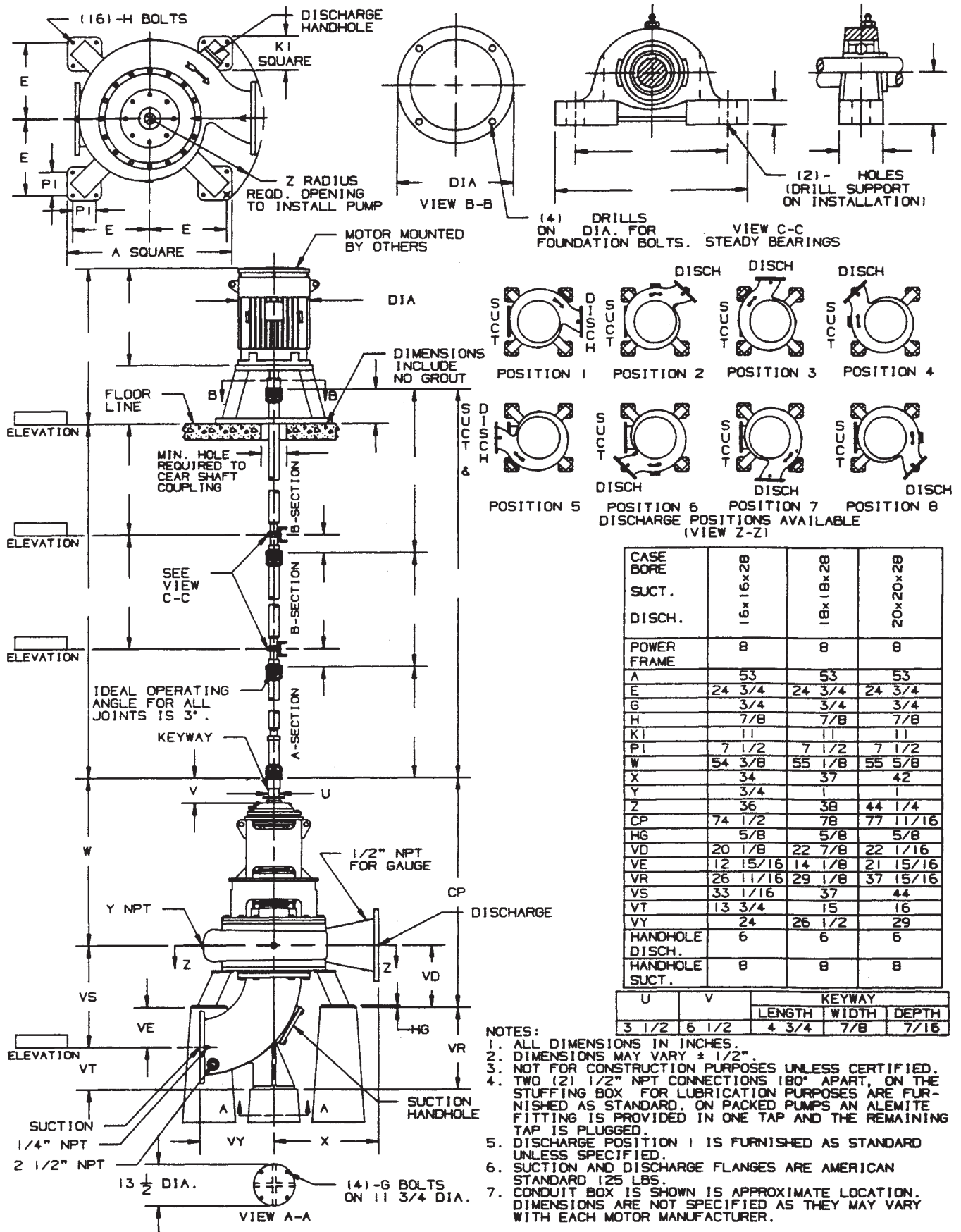
16", 18" & 20" PUMPS
FLEXIBLE SHAFT

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Date **October 2017**

Supersedes Section 610 Page 209

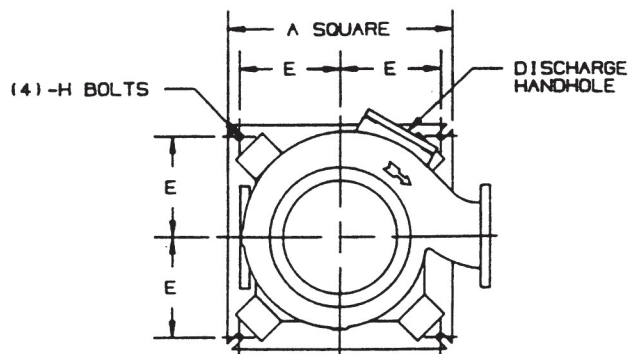
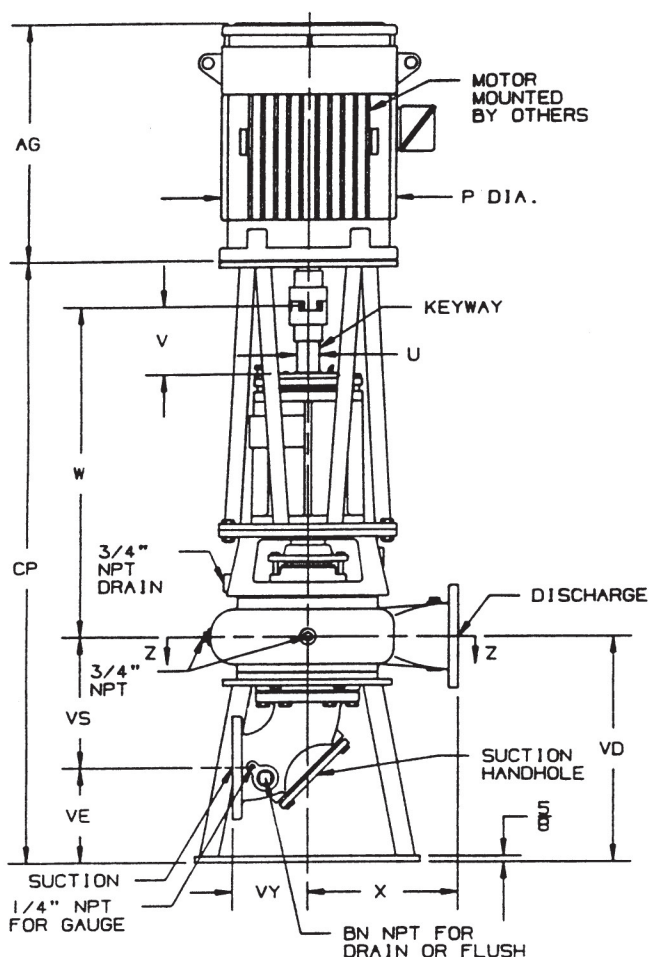
Dated March 1989



Date October 2017

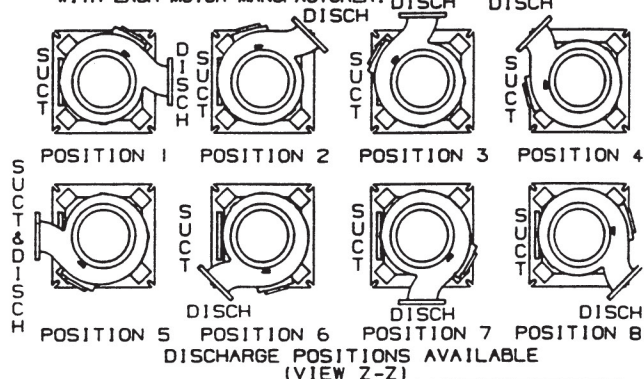
Supersedes Section 610 Page 210

Dated October 1992



NOTES:

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5. DISCHARGE POSITION 1 IS FURNISHED AS STANDARD UNLESS SPECIFIED.
6. SUCTION AND DISCHARGE FLANGES ARE AMERICAN STANDARD 125 LBS.
7. HEIGHT (AG) AND DIAMETERS (P) DIMENSIONS OF MOTOR WILL VARY BASED ON MAKE AND STYLE OF MOTOR. DIMENSIONS SHOWN REFLECT AURORA STANDARD MOTORS. SEE INDIVIDUAL MOTOR SUPPLIER DIMENSIONAL DATA SHEETS FOR YOUR APPLICATION. CONDUIT BOX IS SHOWN IN APPROXIMATE LOCATION. DIMENSIONS ARE NOT SPECIFIED AS THEY VARY WITH EACH MOTOR MANUFACTURER.

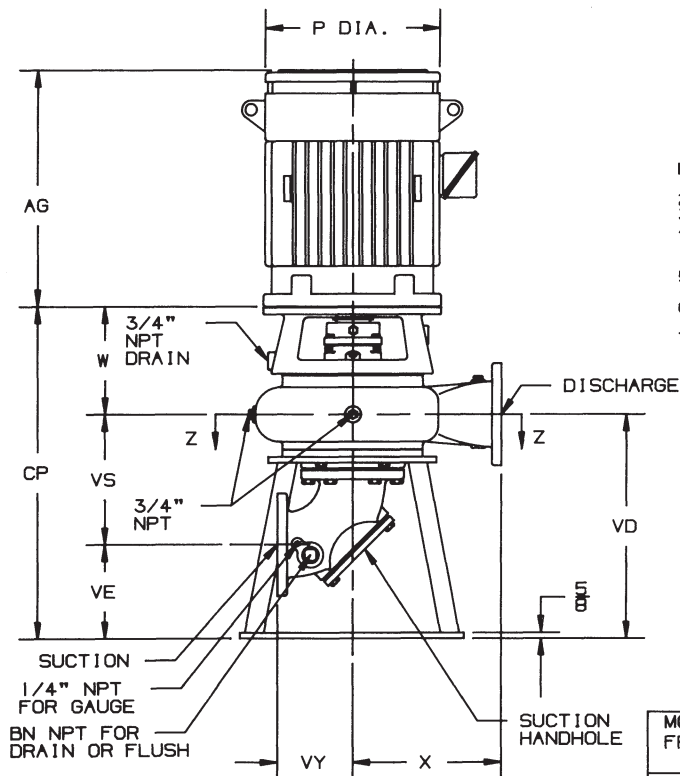
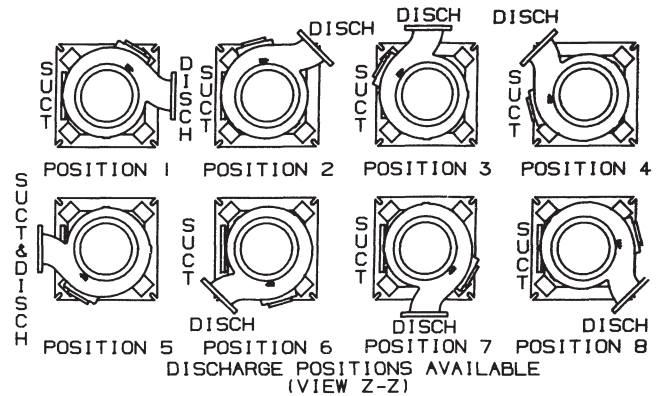
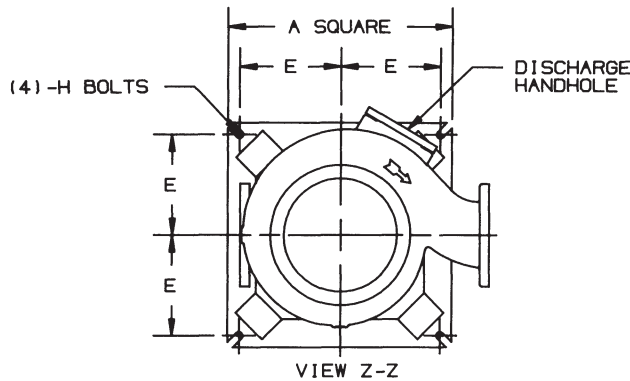


POWER FRAME	U	V	KEYWAY		
			LENGTH	WIDTH	DEPTH
4C, 4D	1 1/4	3 3/16	2	1/4	1/8
5E, 5F 5G, 5H	2 3/8	6 3/8	4	5/8	5/16
6D	2 7/8	6 5/8	5	3/4	3/8
6E	2 7/8	5 3/4	4	3/4	3/8

MOTOR FRAME	254HP TO 256HP	284HPH TO 286HPH	324HP TO 326HP	364HP TO 365HP	404HP TO 405HP	LARGER THAN 405HP
P APPROX.	13	16	18	21	22	REFER TO FACTORY
AG APPROX.	20 21	22 23	25 26	25	28	

DISCH SUCT CASE BORE	POWER FRAME	A	BN	E	H	VY	W	X	CP	VD	VE	VS	HANDHOLE	
													DISCH.	SUCT.
6x6x12	4C, 4D	24	1 1/2	10 3/4	5/8	8	23 5/16	14	51 5/16	24 1/4	10 1/8	14 1/8	5x5	6
6x6x12	5E, 5F	24	1 1/2	10 3/4	5/8	8	34 3/16	14	64	24 1/4	10 1/8	14 1/8	5x5	6
6x6x12B	4C, 4D	24	1 1/2	10 3/4	5/8	8	23 7/16	16	51 5/16	24 1/8	10 1/8	14	5x5	6
6x6x12B	5E, 5F	24	1 1/2	10 3/4	5/8	8	34 5/16	16	64	24 1/8	10 1/8	14	5x5	6
6x8x15	5E, 5F	30	1 1/2	13 3/4	3/4	9	33 3/4	16	71 7/16	32 1/8	17	15 1/8	5x5	6
6x8x18	5E, 5F	30	1 1/2	13 3/4	3/4	9	34 1/16	18	72	32 3/8	17	15 3/8	5x5	6
8x8x15A	5E	30	1 1/2	13 3/4	3/4	9	34 1/8	19	72 1/16	32 3/8	14 1/4	18 1/8	5x7	6
8x10x18	5G, 5H	30	1 1/2	13 3/4	3/4	11	34 5/8	19	73 3/16	33	15 3/16	17 13/16	5x7	6
8x10x22	5G, 5H	37	1 1/2	17	7/8	11	34 5/8	22	74 11/16	34 1/2	16 5/8	17 7/8	5x7	6
10x10x15	5E, 5F	30	1 1/2	13 3/4	3/4	11	34 13/16	20	73 5/16	32 15/16	11 7/8	21 1/16	5x7	6
10x10x22	6E	37	1 1/2	17	7/8	11	37 1/8	22	77 1/16	34 1/2	16 5/8	17 7/8	5x7	6
10x12x22	5G, 5H	37	1 1/2	17	7/8	12	35 1/16	22 1/2	75 3/4	35 1/8	15 9/16	19 3/16	5x7	8
10x12x22	6D	37	1 1/2	17	7/8	12	37 9/16	22 1/2	78 1/8	35 1/8	15 9/16	19 3/16	5x7	8
12x12x22	6E	37	1 1/2	17	7/8	12	37 5/8	22 1/2	78 3/16	35 1/8	15 9/16	19 3/16	5x7	8
12x14x22A	5G, 5H	37	2 1/2	17	7/8	14	35 1/8	24	75 13/16	35 1/8	13 7/8	21 1/4	5x7	8
12x14x22A	6D	37	2 1/2	17	7/8	14	37 5/8	24	78 3/16	35 1/8	13 7/8	21 1/4	5x7	8
12x14x22B	5G, 5H	37	2 1/2	17	7/8	14	35 1/8	24	75 13/16	35 1/8	13 7/8	21 1/4	5x7	8
12x14x22B	6D	37	2 1/2	17	7/8	14	37 5/8	24	78 3/16	35 1/8	13 7/8	21 1/4	5x7	8
14x14x22A	6E	37	2 1/2	17	7/8	14	37 5/8	24	78 3/16	35 1/8	13 7/8	21 1/4	5x7	8

ADD 3/4" TO CP FOR PUMPS ON P.F. 4C, 4D WITH MOTOR FRAMES 284 HPH TO 324 HP.

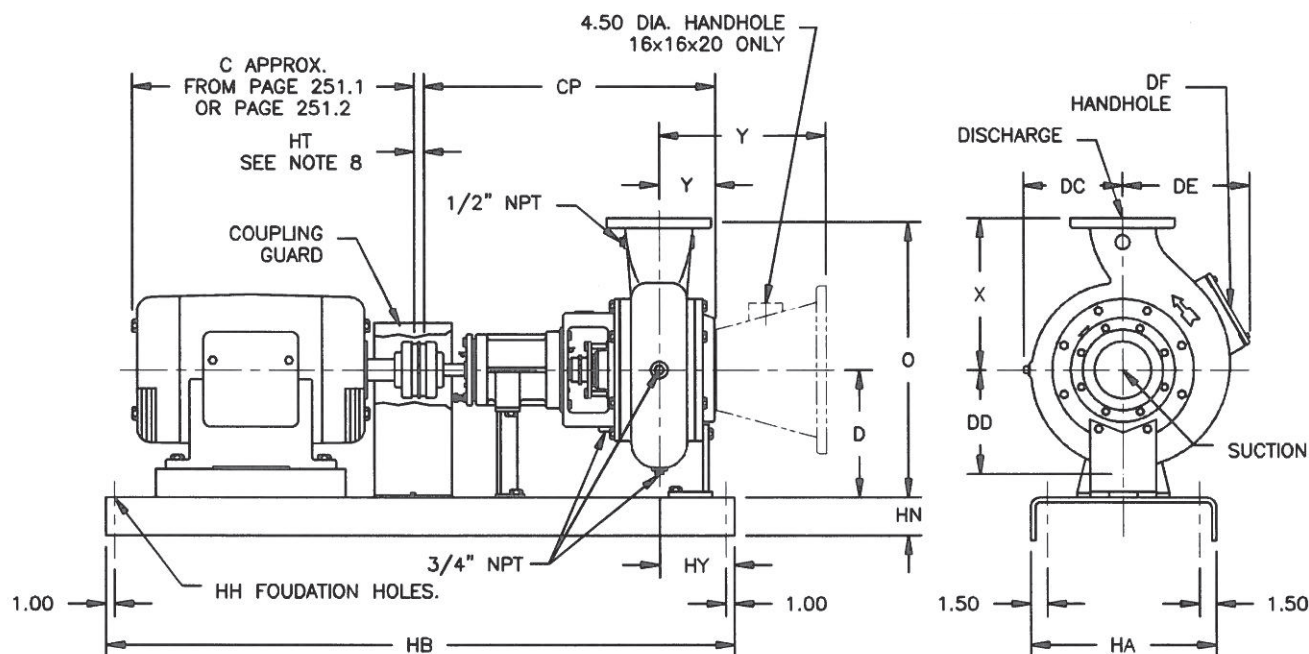


NOTES:

1. ALL DIMENSIONS IN INCHES.
2. DIMENSIONS MAY VARY $\pm 1/2"$.
3. NOT FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED.
4. TWO (2) 1/2" NPT CONNECTIONS 180° APART, ON THE STUFFING BOX FOR LUBRICATION PURPOSES ARE FURNISHED AS STANDARD.
5. DISCHARGE POSITION 1 IS FURNISHED AS STANDARD UNLESS SPECIFIED.
6. SUCTION AND DISCHARGE FLANGES ARE AMERICAN STANDARD 125 LBS.
7. HEIGHT (AG) AND DIAMETERS (P) DIMENSIONS OF MOTOR WILL VARY BASED ON MAKE AND STYLE OF MOTOR. DIMENSIONS SHOWN REFLECT AURORA STANDARD MOTORS. SEE INDIVIDUAL MOTOR SUPPLIER DIMENSIONAL DATA SHEETS FOR YOUR APPLICATION. CONDUIT BOX IS SHOWN IN APPROXIMATE LOCATION. DIMENSIONS ARE NOT SPECIFIED AS THEY VARY WITH EACH MOTOR MANUFACTURER.

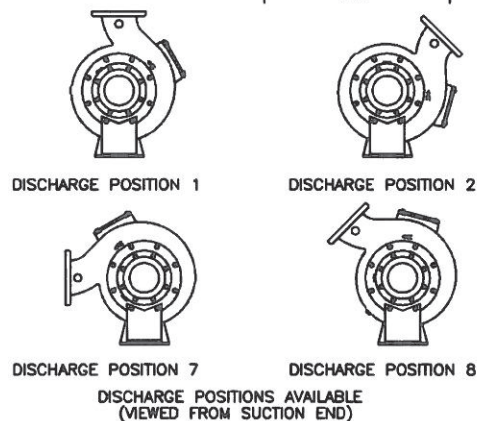
MOTOR FRAME	254TCV TO 256TCV	284TCV TO 286TCV	324TCV TO 326TCV	364TCV TO 365TCV	404TCV TO 405TCV	LARGER THAN 405TCV
P APPROX.	13	16	18	21	22	REFER TO FACTORY
AG APPROX.	20 21	22 23	25 26	25	28	

DISCH SUCT CASE BORE	MOTOR SHAFT EXT. TYPE	A	BN	E	H	VY	W	X	CP	VD	VE	VS	HANDHOLE	
													DISCH.	SUCT.
6x6x12	4C, 4D	24	1 1/2	10 3/4	5/8	8	10 1/8	14	34 3/8	24 1/4	10 1/8	14 1/8	5x5	6
6x6x12	5E, 5F	24	1 1/2	10 3/4	5/8	8	11 3/16	14	35 7/16	24 1/4	10 1/8	14 1/8	5x5	6
6x6x12B	4C, 4D	24	1 1/2	10 3/4	5/8	8	10 1/4	16	34 3/8	24 1/8	10 1/8	14	5x5	6
6x6x12B	5E, 5F	24	1 1/2	10 3/4	5/8	8	11 5/16	16	35 7/16	24 1/8	10 1/8	14	5x5	6
6x8x15	5E, 5F	30	1 1/2	13 3/4	3/4	9	10 3/4	16	42 7/8	32 1/8	17	15 1/8	5x5	6
6x8x18	5E, 5F	30	1 1/2	13 3/4	3/4	9	11 1/16	18	43 7/16	32 3/8	17	15 3/8	5x5	6
8x8x15A	5E, 5F	30	1 1/2	13 3/4	3/4	9	11 1/8	19	43 1/2	32 3/8	14 1/4	18 1/8	5x7	6
10x10x15	5E, 5F	30	1 1/2	13 3/4	3/4	11	11 1/16	20	44 5/8	32 15/16	11 7/8	21 1/16	5x7	6



NOTES:

1. ALL DIMENSIONS IN INCHES.
2. DIMENSIONS MAY VARY $\pm .50$ ".
3. NOT FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED.
4. TWO (2) 1/2" NPT CONNECTIONS 180° APART, ON THE STUFFING BOX FOR LUBRICATION PURPOSES ARE FURNISHED AS STANDARD. ON PACKED PUMPS AN ALEMITE FITTING IS PROVIDED IN ONE TAP AND THE REMAINING TAP IS PLUGGED.
5. DISCHARGE POSITION 1 IS FURNISHED AS STANDARD UNLESS SPECIFIED.
6. SUCTION AND DISCHARGE FLANGES ARE AMERICAN STANDARD 125 LBS.
7. CONDUIT BOX IS SHOWN IS APPROXIMATE LOCATION. DIMENSIONS ARE NOT SPECIFIED AS THEY MAY VARY WITH EACH MOTOR MANUFACTURER.
8. STANDARD COUPLING ILLUSTRATED. "HT" DIMENSION .25"-2.50". SPACER COUPLING "HT" IS 3.50"-9.00".
9. REFER TO PAGE 251.1 FOR STANDARD COUPLING BASE NUMBER SELECTION. REFER TO PAGE 251.2 FOR SPACER COUPLING BASE NUMBER SELECTION.



DISCH SUCT BORE CASE	FRAME POWER	D	O	X	Y	CP	DC	DD	DE	DF	HY	BASE	HA	HB	HH	HN
6x6x12	4C	13.50	27.50	14.00	6.19	29.50	9.50	10.50	13.88	5x5	8.00	3	15.00	54.00	.75	3.38
6x6x12	5E,5F	13.50	27.50	14.00	6.19	40.38	9.50	10.50	13.88	5x5	8.00	4	15.00	60.00	.75	3.38
6x6x12B	4C	13.50	29.50	16.00	6.06	29.50	10.38	11.06	13.88	5x5	8.00	5	15.00	64.00	.75	3.38
6x6x12B	5E,5F	13.50	29.50	16.00	6.06	40.38	10.38	11.06	13.88	5x5	8.00	6	15.00	70.00	.75	3.38
6x8x15	5E,5F	15.25	31.25	16.00	6.13	39.88	11.38	12.50	15.38	5x5	8.00	8	18.00	68.00	.75	4.00
6x8x18	5E,5F	17.50	35.50	18.00	6.44	40.50	13.00	14.38	16.88	5x5	8.00	9	18.00	76.00	.75	4.00
8x8x15A	5F	15.25	34.25	19.00	9.13	43.25	12.63	13.50	15.75	5x7	9.75	10	18.00	84.00	.75	4.00
8x10x18	5G,5H	17.50	36.50	19.00	6.75	41.38	12.88	14.56	16.00	5x7	8.00	16	22.00	72.00	.75	4.00
8x10x22	5G,5H	21.00	43.00	22.00	6.88	41.50	14.88	16.50	17.88	5x7	8.00	17	22.00	84.00	.75	4.00
10x10x15	5E,5F	15.25	35.25	20.00	10.06	44.88	11.63	13.63	17.50	5x7	10.00	18	22.00	96.00	.75	4.00
10x10x22	6F	21.00	43.00	22.00	6.88	44.00	15.00	16.50	18.50	5x7	8.00					
10x12x22	5G,5H	21.00	43.50	22.50	7.19	42.25	15.50	17.88	20.13	5x7	8.00					
10x12x22	6D	21.00	43.50	22.50	7.19	44.75	15.50	17.88	20.13	5x7	8.00					
12x12x22	6E	21.00	43.50	22.50	7.25	44.88	15.63	17.75	21.00	5x7	8.00					
12x14x22A	5G,5H	21.00	45.00	24.00	7.25	42.38	15.88	18.75	22.25	5x7	8.00					
12x14x22A	6D	21.00	45.00	24.00	7.25	44.88	15.88	18.75	22.25	5x7	8.00					
12x14x22B	5G,5H	21.00	45.00	24.00	7.25	42.38	15.88	18.75	22.25	5x7	8.00					
12x14x22B	6D	21.00	45.00	24.00	7.25	44.88	15.88	18.75	22.25	5x7	8.00					
14x14x22A	6E	21.00	45.00	24.00	7.25	44.88	15.88	18.75	22.25	5x7	8.00					
16x16x20	6F	24.00	56.00	32.00	23.50	63.38	17.75	20.50	24.00	6 DIA	10.25					

AURORA® MODEL 611A PUMP

FORMED STEEL BASE

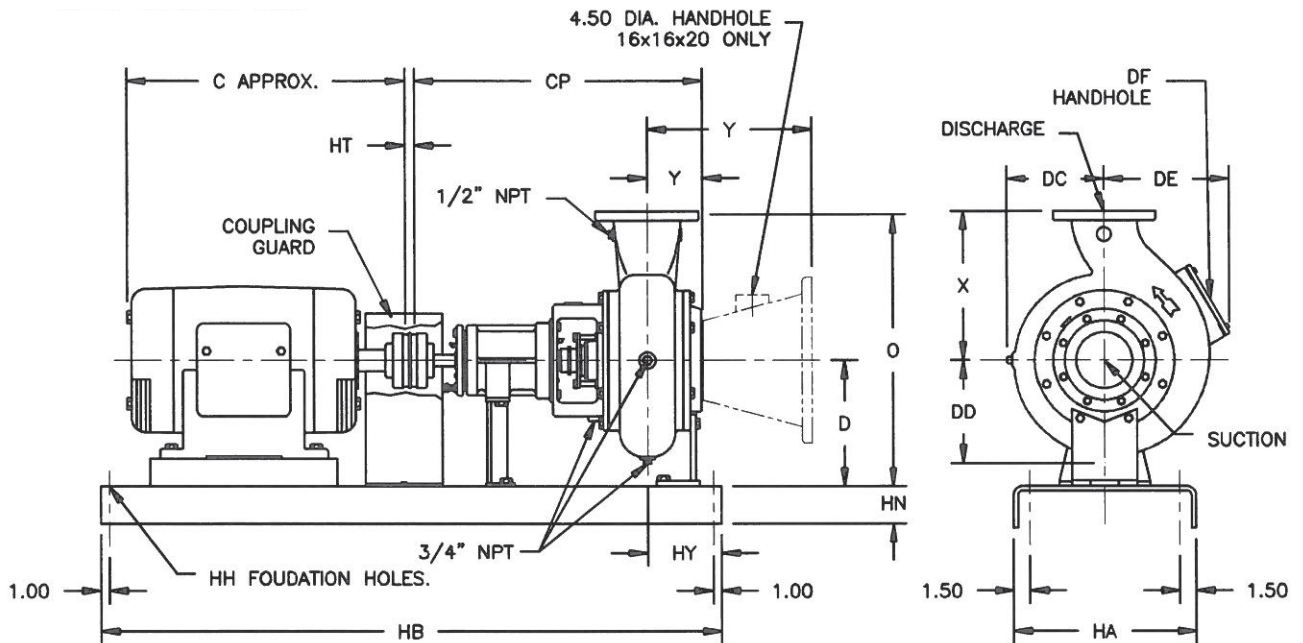
BASE SELECTIONS FOR STANDARD COUPLING

Section **610** Page **251.1**

Date **October 2017**

Supersedes Section 610 Page 351-354

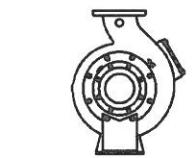
Dated January 2017



NOTES:

1. ALL DIMENSIONS IN INCHES.
2. DIMENSIONS MAY VARY $\pm .50$ ".
3. NOT FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED.
4. THIS PAGE IS FOR BASE DIMENSIONS FOR ALL OTHER DIMENSIONS REFER TO PAGE 251.

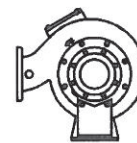
BASE	HA	HB	HH	HN
2	15.00	48.00	.75	3.38
3	15.00	54.00	.75	3.38
4	15.00	60.00	.75	3.38
5	15.00	64.00	.75	3.38
6	15.00	70.00	.75	3.38
8	18.00	68.00	.75	4.00
9	18.00	76.00	.75	4.00
10	18.00	84.00	.75	4.00
16	22.00	72.00	.75	4.00
17	22.00	84.00	.75	4.00
18	22.00	96.00	.75	4.00



DISCHARGE POSITION 1



DISCHARGE POSITION 2



DISCHARGE POSITION 7



DISCHARGE POSITION 8

DISCHARGE POSITIONS AVAILABLE
(VIEWED FROM SUCTION END)

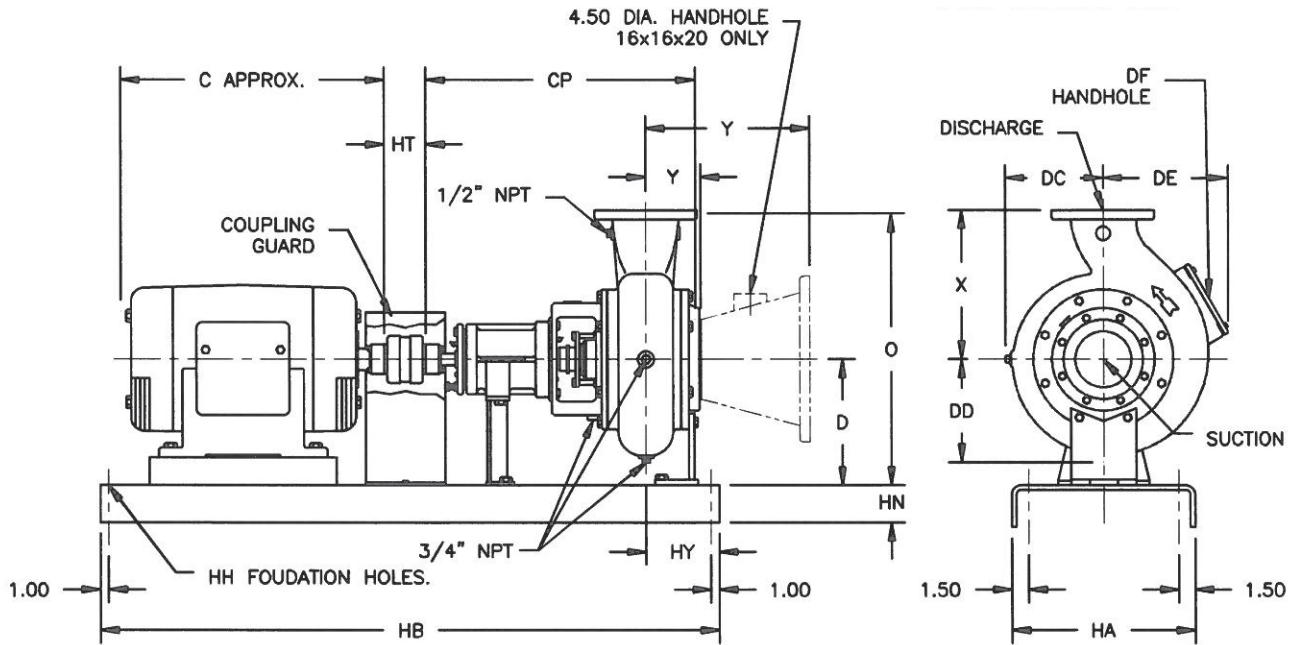
DISCH SUCTION BORE CASE	FRAME POWER	FRAME	182T	184T	213T	215T	254T	256T	284T	284TS	286T	286TS	324T	324TS	326T	326TS	364T	364TS	365T	365TS	404T	404TS	405T	405TS	444T	444TS	445T	445TS
		C	13	14	16	18	21	23	24	22	25	24	26	25	28	26	29	27	30	28	33	30	34	31	38	34	40	36
6x6x12	4C		2	2	2	2	3	3	4	4	4	4																
6x6x12	5E,5F					5	5	6	6	6	6	6	9	9	9	9	16	16	16	16	17	17						
6x6x12B	4C		2	2	2	2	3	3	4	4	4	4																
6x6x12B	5E,5F					5	5	6	6	6	6	6	9	9	9	9	16	16	16	16	17	17						
6x8x15	5E,5F							6	6	6	6	6	9	9	9	9	9	9	9	17	17	17	17	17	17	17	17	
6x8x18	5E,5F							8	8	8	8	8	9	9	9	9	8	16	16	16	16	17	16	17	17	17	17	
8x8x15A	5E							6	6	6	6	6	9	9	9	9	9	16	16	16	16	17	17	17	17	17	17	
8x10x18	5G,5H								8	8	8	8	8	8	9	8	8	16	16	16	16	17	16	17	17	17	17	
8x10x22	5G,5H														16	16	16	16	16	16	17	16	17	17	17	17	17	
10x10x15	5E,5F								6	6	6	6	9	9	9	9	17	17	17	17	17	17	17	17	17	17	17	
10x10x22	6E																17	17	17	17	17	17	17	17	17	17		
10x12x22	5G,5H														16	16	16	16	16	16	17	17	17	17	17	17		
10x12x22	6D																17	17	17	17	17	17	17	17	17	17		
12x12x22	6E																17	17	17	17	17	17	17	17	17	17		
12x14x22A	5G,5H														16	16	16	16	16	16	17	17	17	17	17	17		
12x14x22A	6D																17	17	17	17	17	17	17	17	17	17		
12x14x22B	5G,5H														16	16	16	16	16	16	17	17	17	17	17	17		
12x14x22B	6D																17	17	17	17	17	17	17	17	17	17		
14x14x22A	6E																17	17	17	17	17	17	17	17	17	17		
16x16x20	6F																	17	17	17	17	17	17	17	17	17		



AURORA® MODEL 611A PUMP

FORMED STEEL BASE

BASE SELECTIONS FOR OPTIONAL SPACER COUPLING



NOTES:

1. ALL DIMENSIONS IN INCHES.
2. DIMENSIONS MAY VARY $\pm .50$ ".
3. NOT FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED.
4. THIS PAGE IS FOR BASE DIMENSIONS FOR ALL OTHER DIMENSIONS REFER TO PAGE 251.

BASE	HA	HB	HH	HN
2	15.00	48.00	.75	3.38
3	15.00	54.00	.75	3.38
4	15.00	60.00	.75	3.38
5	15.00	64.00	.75	3.38
6	15.00	70.00	.75	3.38
8	18.00	68.00	.75	4.00
9	18.00	76.00	.75	4.00
10	18.00	84.00	.75	4.00
16	22.00	72.00	.75	4.00
17	22.00	84.00	.75	4.00
18	22.00	96.00	.75	4.00

DISCHARGE POSITION 1

DISCHARGE POSITION 2

DISCHARGE POSITION 7

DISCHARGE POSITION 8

DISCHARGE POSITIONS AVAILABLE
(VIEWED FROM SUCTION END)

DISCH SUCT BORE CASE	FRAME POWER	FRAME	182T	184T	213T	215T	254T	256T	284T	284TS	286T	286TS	324T	324TS	326T	326TS	364T	364TS	365T	365TS	404T	404TS	405T	405TS	444T	444TS	445T	445TS
6x6x12	4C	C	13	14	16	18	21	23	24	22	25	24	26	25	28	26	29	27	30	28	33	30	34	31	38	34	40	36
6x6x12	5E,5F		2	2	3	3	4	4	4	4	4	4	9	9	9	9	17	17	17	17	17	17	17	17				
6x6x12B	4C		2	2	3	3	4	4	4	4	4	4	9	9	9	9	17	17	17	17	17	17	17	17				
6x6x12B	5E,5F					5	6	6	9	9	9	9	9	9	9	9	17	17	17	17	17	17	17	17				
6x8x15	5E,5F							6	9	9	9	9	9	9	10	9	17	17	17	17	17	17	17	17	18	17	18	17
6x8x18	5E,5F								9	9	9	9	9	9	9	9	17	17	17	17	17	17	17	17	18	17		
8x8x15A	5E							9	9	9	9	9	10	9	10	10	17	17	17	17	17	17	17	17				
8x10x18	5G,5H												9	9	10	9	17	17	17	17	17	17	17	17	18	18		
8x10x22	5G,5H												17	17	17	17	17	17	17	17	17	17	17	17	18	17	18	18
10x10x15	5E,5F							9	9	9	9	9	10	9	10	10	17	17	17	17	18	17	18	17	18	18	18	18
10x10x22	6E																17	17	17	17	17	17	18	17	18	18	18	18
10x12x22	5G,5H														17	17	17	17	17	17	17	17	18	17	18	18	18	18
10x12x22	6D																17	17	17	17	17	17	18	17	18	18	18	18
12x12x22	6E																17	17	17	17	17	17	18	17	18	18	18	18
12x14x22A	5G,5H														17	17	17	17	17	17	17	17	18	17	18	18	18	18
12x14x22A	6D																17	17	17	17	17	17	18	17	18	18	18	18
12x14x22B	5G,5H														17	17	17	17	17	17	17	17	18	17	18	18	18	18
12x14x22B	6D																17	17	17	17	17	17	18	17	18	18	18	18
14x14x22A	6E																17	17	17	17	17	17	18	17	18	18	18	18
16x16x20	6F																			18	18	18	18	18	18	18	18	18

AURORA® MODEL 611A PUMP

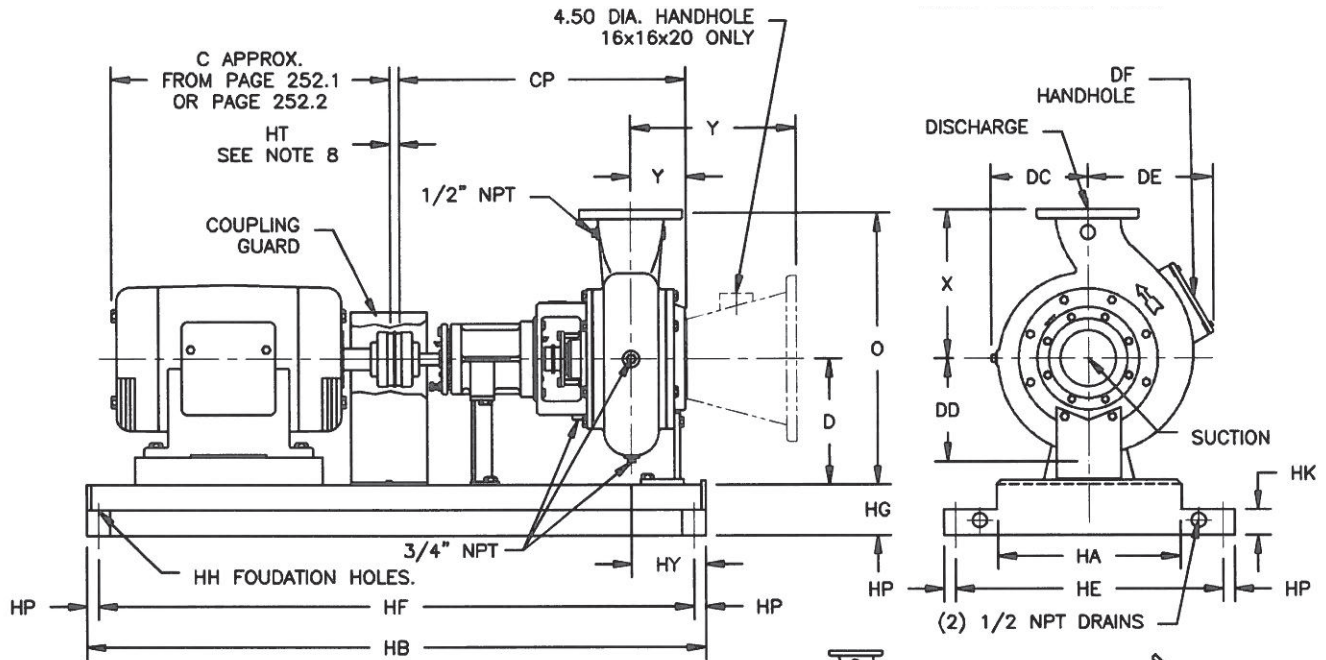
STEEL DRIP RIM BASE

Section **610** Page **252**

Date **October 2017**

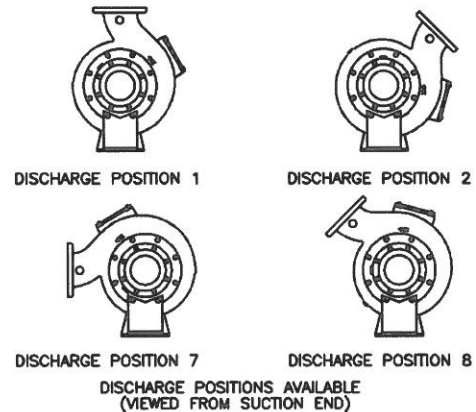
Supersedes Section 610 Page 252

Dated January 2017



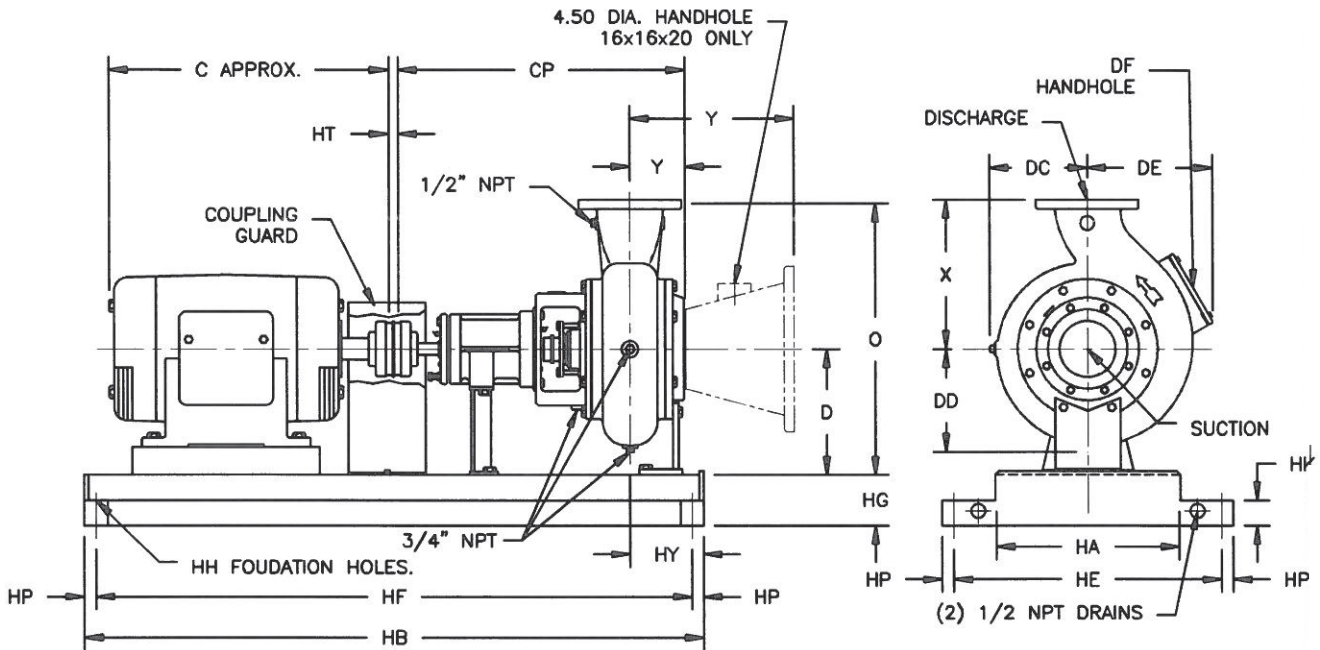
NOTES:

1. ALL DIMENSIONS IN INCHES.
2. DIMENSIONS MAY VARY $\pm .50"$.
3. NOT FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED.
4. TWO (2) 1/2" NPT CONNECTIONS 180° APART, ON THE STUFFING BOX FOR LUBRICATION PURPOSES ARE FURNISHED AS STANDARD. ON PACKED PUMPS AN ALEMITE FITTING IS PROVIDED IN ONE TAP AND THE REMAINING TAP IS PLUGGED.
5. DISCHARGE POSITION 1 IS FURNISHED AS STANDARD UNLESS SPECIFIED.
6. SUCTION AND DISCHARGE FLANGES ARE AMERICAN STANDARD 125 LBS.
7. CONDUIT BOX IS SHOWN IS APPROXIMATE LOCATION. DIMENSIONS ARE NOT SPECIFIED AS THEY MAY VARY WITH EACH MOTOR MANUFACTURER.
8. STANDARD COUPLING ILLUSTRATED. "HT" DIMENSION .25"-.250". SPACER COUPLING "HT" IS 3.50"-9.00".
9. REFER TO PAGE 252.1 FOR STANDARD COUPLING BASE NUMBER SELECTION. REFER TO PAGE 252.2 FOR SPACER COUPLING BASE NUMBER SELECTION.



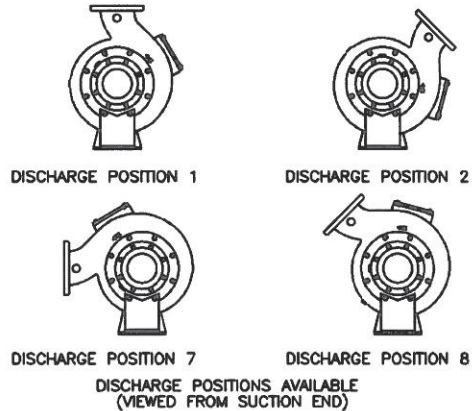
DISCH SUCT BORE CASE	FRAME POWER	D	O	X	Y	CP	DC	DD	DE	DF	HY	BASE	SIZE	HA	HB	HE
6x6x12	4C	13.50	27.50	14.00	6.19	29.50	9.50	10.50	13.88	5x5	8.00	10	14x56	14.00	56.50	19.00
6x6x12	5E,5F	13.50	27.50	14.00	6.19	40.38	9.50	10.50	13.88	5x5	8.00	13	18x64	18.00	64.50	25.13
6x6x12B	4C	13.50	29.50	16.00	6.06	29.50	10.38	11.06	13.88	5x5	8.00	14	18x72	18.00	72.50	25.13
6x6x12B	5E,5F	13.50	29.50	16.00	6.06	40.38	10.38	11.06	13.88	5x5	8.00	17	22x74	22.00	74.50	29.13
6x8x15	5E,5F	15.25	31.25	16.00	6.13	39.88	11.38	12.50	15.38	5x5	8.00	18	22x82	22.00	82.50	29.13
6x8x18	5E,5F	17.50	35.50	18.00	6.44	40.50	13.00	14.38	16.88	5x5	8.00	19	22x90	22.00	90.50	29.13
8x8x15A	5E	15.25	34.25	19.00	9.13	43.25	12.63	13.50	15.75	5x7	9.75	21	30x110	30.00	110.50	37.13
8x10x18	5G,5H	17.50	36.50	19.00	6.75	41.38	12.88	14.56	16.00	5x7	8.00					
8x10x22	5G,5H	21.00	43.00	22.00	6.88	41.50	14.88	16.50	17.88	5x7	8.00					
10x10x15	5E,5F	15.25	35.25	20.00	10.06	44.88	11.63	13.63	17.50	5x7	11.00					
10x10x22	6E	21.00	43.00	22.00	6.88	44.00	15.00	16.50	18.50	5x7	10.00					
10x12x22	5G,5H	21.00	43.50	22.50	7.19	42.25	15.50	17.88	20.13	5x7	10.00					
10x12x22	6D	21.00	43.50	22.50	7.19	44.75	15.50	17.88	20.13	5x7	10.00					
12x12x22	6E	21.00	43.50	22.50	7.25	44.88	15.63	17.75	21.00	5x7	10.00					
12x14x22A	5G,5H	21.00	45.00	24.00	7.25	42.38	15.88	18.75	22.25	5x7	10.00					
12x14x22A	6D	21.00	45.00	24.00	7.25	44.88	15.88	18.75	22.25	5x7	10.00					
12x14x22B	5G,5H	21.00	45.00	24.00	7.25	42.38	15.88	18.75	22.25	5x7	10.00					
12x14x22B	6D	21.00	45.00	24.00	7.25	44.88	15.88	18.75	22.25	5x7	10.00					
14x14x22A	6E	21.00	45.00	24.00	7.25	44.88	15.88	18.75	22.25	5x7	10.00					
16x16x20	6F	24.00	56.00	32.00	23.50	63.38	17.75	20.50	24.00	6 DIA	11.50					

BASE	HF	HG	HH	HK	HP
10	55.00	3.00	1.00	1.50	.75
13	62.88	4.00	1.13	2.00	.81
14	70.88	4.00	1.13	2.00	.81
17	72.88	4.50	1.13	2.00	.81
18	80.88	4.50	1.13	2.00	.81
19	88.88	4.50	1.13	2.00	.81
21	108.88	4.50	1.13	2.00	.81



- NOTES:
 1. ALL DIMENSIONS IN INCHES.
 2. DIMENSIONS MAY VARY $\pm .50"$.
 3. NOT FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED.
 4. THIS PAGE IS FOR BASE DIMENSIONS FOR ALL OTHER DIMENSIONS REFER TO PAGE 252.

BASE	SIZE	HA	HB	HE	HF	HG	HH	HK	HP
9	14x48	14.00	48.50	19.00	57.00	3.00	1.00	1.50	.75
10	14x56	14.00	56.50	19.00	55.00	3.00	1.00	1.50	.75
13	18x64	18.00	64.50	25.13	62.88	4.00	1.13	2.00	.81
14	18x72	18.00	72.50	25.13	70.88	4.00	1.13	2.00	.81
17	22x74	22.00	74.50	29.13	72.88	4.50	1.13	2.00	.81
18	22x82	22.00	82.50	29.13	80.88	4.50	1.13	2.00	.81
19	22x90	22.00	90.50	29.13	88.88	4.50	1.13	2.00	.81
21	30x110	30.00	110.50	37.13	108.88	4.50	1.13	2.00	.81



DISCH SUCTION BORE CASE	FRAME POWER	FRAME	182T	184T	213T	215T	254T	256T	284T	284TS	286T	286TS	324T	324TS	326T	326TS	364T	364TS	365T	365TS	404T	404TS	405T	405TS	444T	444TS	445T	445TS
		C	13	14	16	18	21	23	24	22	25	24	26	25	28	26	29	27	30	28	33	30	34	31	38	34	40	36
6x6x12	4C		9	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
6x6x12	5E,5F					13	14	14	14	14	14	14	14	14	14	14	14	14	14	14	18	18						
6x6x12B	4C		9	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
6x6x12B	5E,5F					13	14	14	14	14	14	14	14	14	14	14	14	14	14	14	18	18						
6x8x15	5E,5F							14	14	14	14	14	14	14	14	14	14	14	14	14	18	18	18	18	18	18	18	18
6x8x18	5E,5F							14	14	14	14	14	14	14	14	14	14	14	14	14	18	18	18	18	18	18	18	18
8x8x15A	5F							14	14	14	14	14	14	14	14	14	17	17	17	17	18	18	18	18	18	18	18	18
8x10x18	5G,5H								14	14	14	14	14	14	14	14	17	17	17	17	18	18	18	18	18	18	18	18
8x10x22	5G,5H												14	14	14	14	17	17	17	17	18	18	18	18	18	18	18	18
10x10x15	5E,5F								17	17	17	17	17	17	17	17	18	18	18	18	18	18	18	18	18	18	18	18
10x10x22	6E																18	18	18	18	18	18	18	18	18	18	18	18
10x12x22	5G,5H														17	17	17	17	17	18	18	18	18	18	18	18	18	18
10x12x22	6D																18	18	18	18	18	18	18	18	18	18	18	18
12x12x22	6E																18	18	18	18	18	18	18	18	18	18	18	18
12x14x22A	5G,5H														17	17	18	18	18	18	18	18	18	18	18	18	18	18
12x14x22A	6D																18	18	18	18	18	18	18	18	18	18	18	18
12x14x22B	5G,5H														17	17	18	18	18	18	18	18	18	18	18	18	18	18
12x14x22B	6D																18	18	18	18	18	18	18	18	18	18	18	18
14x14x22A	6E																18	18	18	18	18	18	18	18	18	18	18	18
16x16x20	6F																	18	18	18	18	18	18	18	18	18	18	18

AURORA® MODEL 611A PUMP

STEEL DRIP RIM BASE

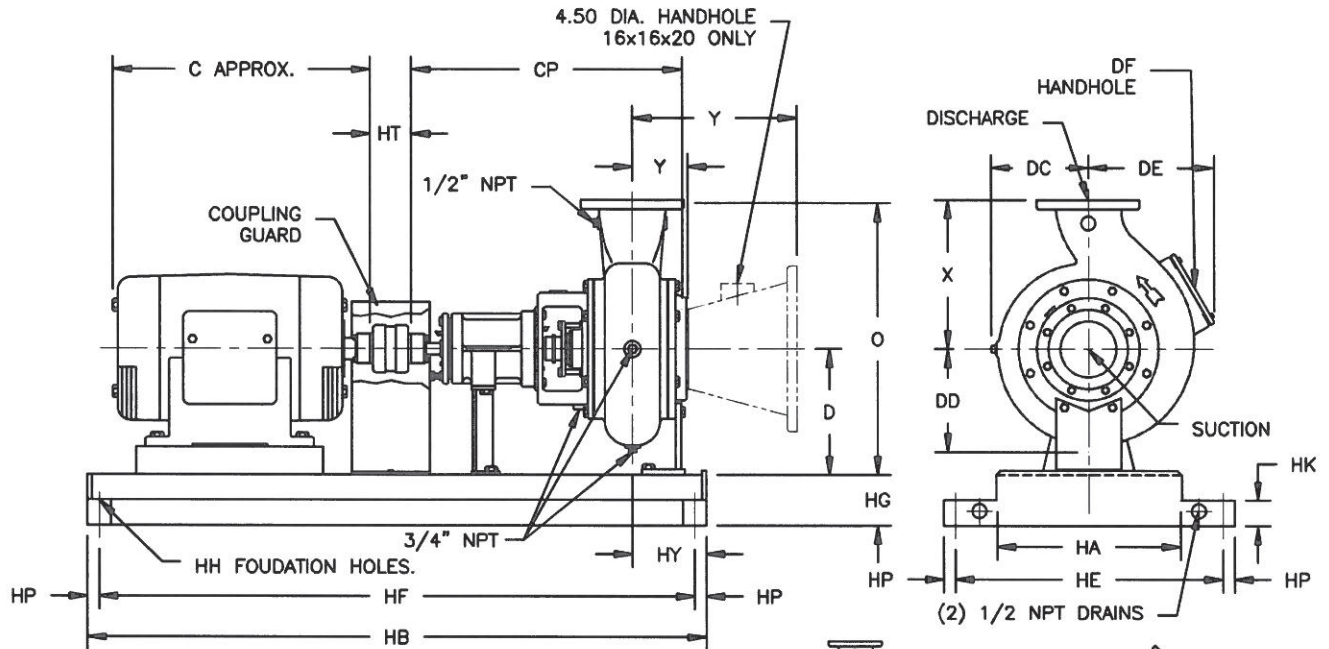
BASE SELECTIONS FOR OPTIONAL SPACER COUPLING

Section **610** Page **252.2**

Date **October 2017**

Supersedes Section 610 Page 359-360

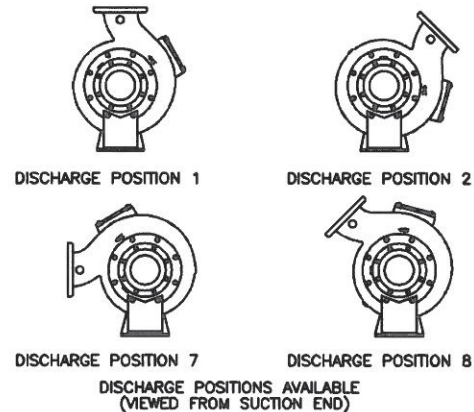
Dated January 2017



NOTES:

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4. THIS PAGE IS FOR BASE DIMENSIONS FOR ALL OTHER DIMENSIONS REFER TO PAGE 252.

BASE	SIZE	HA	HB	HE	HF	HG	HH	HK	HP
9	14x48	14.00	48.50	19.00	57.00	3.00	1.00	1.50	.75
10	14x56	14.00	56.50	19.00	55.00	3.00	1.00	1.50	.75
13	18x64	18.00	64.50	25.13	62.88	4.00	1.13	2.00	.81
14	18x72	18.00	72.50	25.13	70.88	4.00	1.13	2.00	.81
17	22x74	22.00	74.50	29.13	72.88	4.50	1.13	2.00	.81
18	22x82	22.00	82.50	29.13	80.88	4.50	1.13	2.00	.81
19	22x90	22.00	90.50	29.13	88.88	4.50	1.13	2.00	.81
21	30x110	30.00	110.50	37.13	108.88	4.50	1.13	2.00	.81



DISCH SUCTION BORE CASE	FRAME POWER	FRAME	182T	184T	213T	215T	254T	256T	284T	284TS	286T	286TS	324T	324TS	326T	326TS	364T	364TS	365T	365TS	404T	404TS	405T	405TS	444T	444TS	445T	445TS
		C	13	14	16	18	21	23	24	22	25	24	26	25	28	26	29	27	30	28	33	30	34	31	38	34	40	36
6x6x12	4C		9	9	10	10	10	13	13	13	13	13																
6x6x12	5E,5F							14	14	14	14	17	17	17	18	18	18	18	18	18	18	18	18	18				
6x6x12B	4C		9	9	10	10	10	13	13	13	13	13																
6x6x12B	5E,5F							14	14	14	14	17	17	17	18	18	18	18	18	18	18	18	18	18				
6x8x15	5E,5F							13	14	14	17	17	17	17	18	18	18	18	18	18	18	18	18	18	18	19	19	19
6x8x18	5E,5F										17	17	17	17	18	18	18	18	18	18	18	18	18	18	18	19	19	19
8x8x15A	5E							17	17	17	17	17	18	18	18	18	18	18	18	18	18	18	18	18	19	19	19	19
8x10x18	5G,5H												18	18	18	18	18	18	18	18	18	18	18	18	19	19	19	19
8x10x22	5G,5H														18	18	18	18	18	18	18	18	18	18	19	19	19	19
10x10x15	5E,5F								18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	19	19	19	19
10x10x22	6E																19	19	19	19	19	19	19	19	19	19	19	19
10x12x22	5G,5H														18	18	18	18	18	18	18	18	18	18	19	19	19	19
10x12x22	6D																19	19	19	19	19	19	19	19	19	19	19	19
12x12x22	6E																19	19	19	19	19	19	19	19	19	19	19	19
12x14x22A	5G,5H														18	18	18	18	18	18	18	18	18	18	19	19	19	19
12x14x22A	6D																19	19	19	19	19	19	19	19	19	19	19	19
12x14x22B	5G,5H														18	18	18	18	18	18	18	18	18	18	19	19	19	19
12x14x22B	6D																19	19	19	19	19	19	19	19	19	19	19	19
14x14x22A	6E																19	19	19	19	19	19	19	19	19	19	19	19
16x16x20	6F																	19	19	21	21	21	21	21	21	21	21	21