

Steel Base with Optional Casing Foot

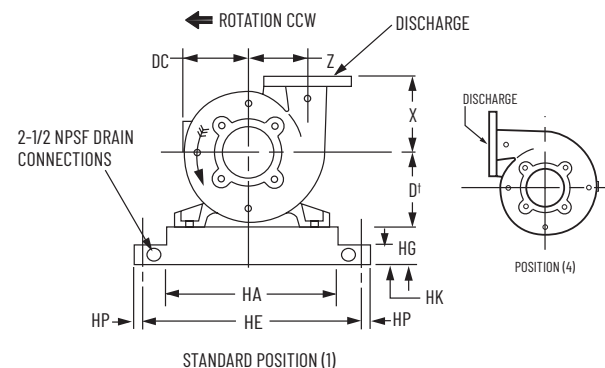
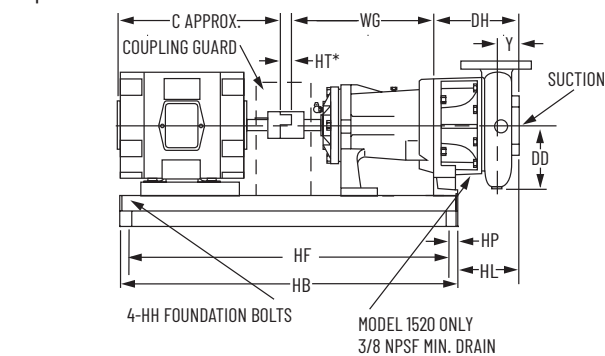
POWER FRAME 1										
PUMP SIZE	BASE	FRAME 56C D	BASE	FRAME 143T-184T D	BASE	FRAME 182T-184T D	BASE	FRAME 213T-215T D	BASE	FRAME 254T D
1-1/4" 1521 - 1-1/4" 2521	1	6-3/4 (171)	1	6-3/4 (171)	1	6-3/4 (171)	2	6-3/4 (171)	3	6-3/4 (171)
1-1/4" 1522 - 1-1/4" 2522	1	6-3/4 (171)	1	6-3/4 (171)	1	6-3/4 (171)	2	6-3/4 (171)	3	6-3/4 (171)
1-1/2" 1521 - 1-1/2" 2521	1	6-3/4 (171)	1	6-3/4 (171)	1	6-3/4 (171)	2	6-3/4 (171)	3	6-3/4 (171)
1-1/2" 1522 - 1-1/2" 2522	1	6-3/4 (171)	1	6-3/4 (171)	1	6-3/4 (171)	2	6-3/4 (171)	3	6-3/4 (171)
2" 1521 - 2" 2521	1	7-1/2 (191)	1	7-1/2 (191)	1	7-1/2 (191)	2	7-1/2 (191)	3	7-1/2 (191)
2" 1522 - 2" 2522	1	7-1/2 (191)	1	7-1/2 (191)	1	7-1/2 (191)	2	7-1/2 (191)	3	7-1/2 (191)
2-1/2" 1521 - 2-1/2" 2521	1	7-1/2 (191)	1	7-1/2 (191)	1	7-1/2 (191)	2	7-1/2 (191)	3	7-1/2 (191)
2-1/2" 1522 - 2-1/2" 2522	1	7-1/2 (191)	1	7-1/2 (191)	1	7-1/2 (191)	2	7-1/2 (191)	3	7-1/2 (191)
3" 1521 - 3" 2521	1	8-1/4 (210)	1	8-1/4 (210)	1	8-1/4 (210)	2	8-1/4 (210)	3	8-1/4 (210)
4" 1521 - 4" 2521	1	8-1/4 (210)	1	8-1/4 (210)	2	8-1/4 (210)	2	8-1/4 (210)	3	8-1/4 (210)

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Dimensional Data – 2520 & 1520 Single Stage End Suction Pumps

Setting Plans

Drip Rim Base



MODEL 2520 ILLUSTRATED

BASE	SIZE	HA	HB	HE	HG	HH	HP	HK	HF
4	11 x 30	11	30-1/2	15-7/8	3	1/2	11/16	1-1/2	29-1/8
5	11 x 36	11	36-1/2	15-7/8	3	1/2	11/16	1-1/2	35-1/8
7	14 x 36	14	36-1/2	19	3	5/8	3/4	1-1/2	35
8	14 x 42	14	42-1/2	19	3	5/8	3/4	1-1/2	41
9	14 x 48	14	48-1/2	19	3	5/8	3/4	1-1/2	47
11	18 x 46	18	46-1/2	25-1/8	4	3/4	13/16	2	44-7/8
12	18 x 54	18	54-1/2	25-1/8	4	3/4	13/16	2	52-7/8
15	22 x 54	22	54-1/2	29-1/8	4-1/2	3/4	13/16	2	52-7/8

NOTE: WHEN TWO D" DIMENSIONS ARE INDICATED ALWAYS USE THE LARGER FIGURE		POWER FRAME	MODEL 2520			MODEL 1520		
			1	2	3	1	2	3
D	340 CASE BORE	WG	10-5/16	13-13/16	13-13/16	10-5/16	13-13/16	13-13/16
		7	5-1/4	6-1/4	-			
		9	6-1/4	7	7			
		11	-	7	7			
		12	-	7	7			
		7	-			5-1/4	6-1/4	-
	360 CASE BORE	9	-			5-1/4	7	7
		11	-			-	7	7
		12	-			-	7	7
		7	-					
		9	-					
		11	-					
		12	-					
MOTOR FRAME	C APPROX	D	BASE NUMBER					
56	12		4	N/A	N/A	4	N/A	N/A
143T	12		4	N/A	N/A	4	N/A	N/A
145T	13		4	7	N/A	4	7	N/A
182T	13		4	7	N/A	4	7	N/A
184T	14		4	7	N/A	4	7	N/A
213T	16	5-1/4	4	7	N/A	5	7	7
215T	18	5-1/4	5	7	N/A	5	7	7
254T	21	6-1/4	7	8	8	N/A	8	8
256T	23	6-1/4	N/A	8	8	N/A	8	8
284T	24	7	N/A	8	8	N/A	8	8
284TS	22	7	N/A	8	8	N/A	8	8
286T	25	7	N/A	8	8	N/A	9	9
286TS	24	7	N/A	8	8	N/A	8	8
324T	26	8	N/A	11	11	N/A	11	11
324TS	25	8	N/A	11	11	N/A	11	11
326T	28	8	N/A	11	11	N/A	11	11
326TS	26	8	N/A	11	11	N/A	11	11
364T	29	9	N/A	11	11	N/A	12	12
364TS	27	9	N/A	11	11	N/A	11	11
365TS	28	9	N/A	11	11	N/A	11	11
404TS	30	10	N/A	15	15	N/A	15	15

PUMPS WITH THREADED CONNECTIONS														
PUMP SIZE	X	Y	Z	DC	DD	2520 DH		1520 DH		2520 HL			1520 HL	
						FRAME 1	FRAME 2&3	FRAME 1	FRAME 2&3	FRAME 1	FRAME 2	FRAME 3	FRAME 1	FRAME 2
1-1/4" 1521 - 1-1/4" 2521	5-1/4	2-7/16	4-3/16	4-15/16	5-3/16	7-3/16	N/A	10-1/4	N/A	4-3/16	N/A	N/A	4-3/4	N/A
1-1/4" 1522 - 1-1/4" 2522	6-5/8	2-9/16	5-3/8	6-3/16	6-3/8	7-1/4	N/A	10-5/16	N/A	4-1/4	N/A	N/A	4-13/16	N/A
1-1/2" 1521 - 1-1/2" 2521	5-3/8	2-1/2	4-5/16	5-1/8	5-3/8	7-5/16	N/A	10-3/8	N/A	4-5/16	N/A	N/A	4-7/8	N/A
1-1/2" 1522 - 1-1/2" 2522	6-3/4	2-5/8	5-1/2	6-5/16	6-9/16	7-3/8	8-3/8	10-7/16	11-1/4	4-3/8	4-7/8	N/A	4-15/16	5
1-1/2" 1523 - 1-1/2" 2523	9	2-13/16	6-1/8	7-1/16	7-1/4	N/A	8-9/16	N/A	11-7/16	N/A	5-3/8	N/A	N/A	7
1-1/2" 1524 - 1-1/2" 2524	7-3/4	2-3/4	7-1/16	8	8-1/4	N/A	8-5/8	N/A	11-1/2	N/A	5-5/8	N/A	N/A	5-1/4
PUMPS WITH ANSI 125 LB. FLANGED CONNECTIONS														
2" 1521 - 2" 2521	5-5/8	1-7/8	4-9/16	5-3/8	5-13/16	6-13/16	7-13/16	9-7/8	10-11/16	3-13/16	4-5/16	N/A	4-3/8	4-7/16
2" 1522 - 2" 2522	7	1-7/8	5-11/16	6-1/2	6-7/8	6-3/4	7-3/4	9-13/16	10-5/8	3-3/4	N/A	3-7/8	4-5/16	N/A
2" 1524 - 2" 2524	8	1-7/8	7-3/16	8-3/16	8-1/2	N/A	7-7/8	N/A	10-3/4	N/A	4-7/8	N/A	N/A	4-1/2
2" 1523 - 2" 2523	8	2-3/8	6-1/2	7	7-3/8	N/A	8 1/2	N/A	11-3/8	N/A	5-1/32	N/A	N/A	5-5/32
2-1/2" 1521 - 2-1/2" 2521	5-7/8	2	4-13/16	5-13/16	6-1/4	7-1/16	8-1/16	10-1/8	10-15/16	4-1/16	4-9/16	N/A	4-5/8	4-11/16
2-1/2" 1522 - 2-1/2" 2522	7-1/4	2	5-15/16	6-3/4	7-1/4	7	8	N/A	10-7/8	4	N/A	4-1/2	N/A	4-5/8
2-1/2" 1523 - 2-1/2" 2523	8-1/4	2	7-3/8	8-3/8	8-3/4	N/A	8-1/8	N/A	11	N/A	5-1/8	N/A	N/A	4-3/4
3" 1521 - 3" 2521	7-1/2	2-1/8	6-1/8	6-7/8	7-7/16	7-1/4	8-1/4	N/A	11-1/8	4-1/4	N/A	4-3/4	N/A	4-7/8
3" 1522 - 3" 2522	9	2-3/4	7	7-9/16	8-3/16	N/A	9-3/16	N/A	12-1/16	N/A	5-11/16	N/A	N/A	5-13/16
3" 1523 - 3" 2523	8-1/2	2-1/8	7-9/16	8-7/16	8-15/16	N/A	8-3/8	N/A	11-1/4	N/A	5-3/8	5-3/8	N/A	5
4" 1521 - 4" 2521	6-1/2	2-1/2	5-1/2	6-7/16	7-5/16	7-15/16	8-15/16	11	11-13/16	4-15/16	5-7/16	N/A	5-1/2	5-9/16
4" 1522A - 4" 2522A	7-1/4	3-1/8	5-3/4	6-11/16	7-3/8	N/A	9-3/8	N/A	12-1/4	N/A	5-7/8	5-7/8	N/A	6
4" 1522B - 4" 2522B	7-3/4	2-5/8	6-5/8	8-1/16	8-11/16	N/A	9	N/A	11-7/8	N/A	5-1/2	N/A	N/A	5-5/8
4" 1523 - 4" 2523	9	3	7-1/4	7-15/16	8-11/16	N/A	9-5/8	N/A	12-1/2	N/A	6-1/8	N/A	N/A	6-1/4
4" 1524 - 4" 2524	8-3/4	2-5/8	7-15/16	8-7/8	9-9/16	N/A	9-1/8	N/A	12	N/A	6-1/8	6-1/8	N/A	5-3/4
5" 1521 - 5" 2521	9	3-1/8	8-1/16	8-11/16	10-1/8	N/A	10-1/8	N/A	13	N/A	6-5/8	6-5/8	N/A	6-3/4
5" 1522 - 5" 2522	9	2-7/8	8-5/16	9-1/4	10-1/8	N/A	9-5/8	N/A	12-1/2	N/A	6-5/8	6-5/8	N/A	6-1/4
6" 1521 - 6" 2521	8-1/4	2-3/4	7	8	9	N/A	9-1/4	N/A	12-1/8	N/A	5-3/4	N/A	N/A	5-7/8
6" 1522 - 6" 2522	9-1/4	3-1/8	8-11/16	9-11/16	10-13/16	N/A	10-1/8	N/A	13	N/A	7-1/8	7-1/8	N/A	6-3/4
6" 1523 - 6" 2523	9-1/4	3-1/8	8-11/16	9-11/16	10-13/16	N/A	10-1/8	N/A	13	N/A	7-1/8	7-1/8	N/A	6-3/4

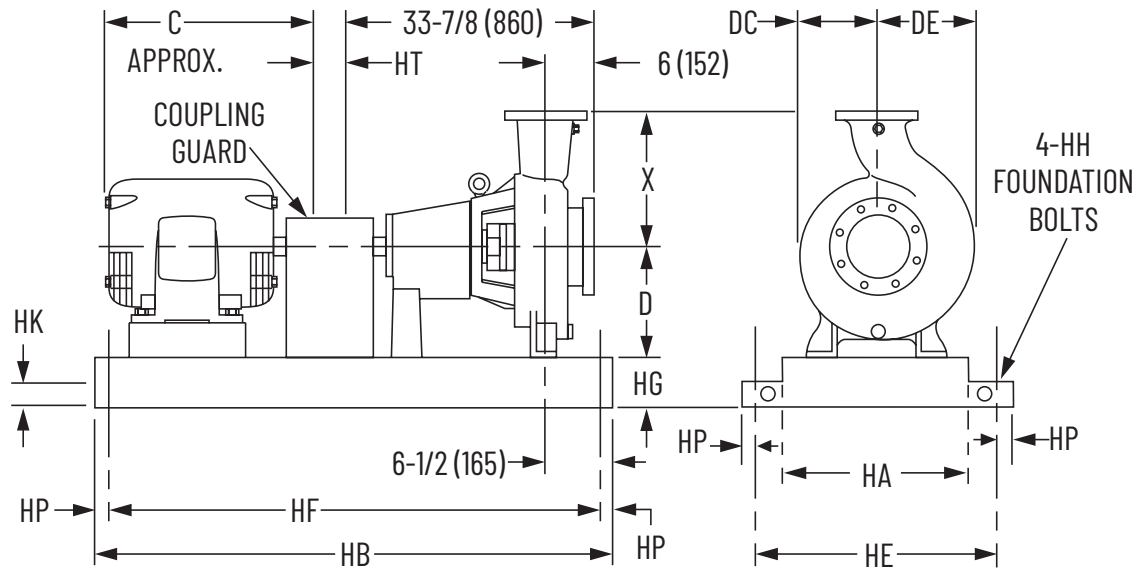
NOTES:

- All dimensions in inches. (mm)
- Dimensions may vary $\pm 1/4$ ".
- Not for construction purposes unless certified.
- N/A = Not Applicable.
- Check discharge position. Casing dimensions that exceed dimension "D" may require pads for the pump and/or motor.
- Conduit box is shown in approximate location. Dimensions are not specified as they vary with each motor manufacturer.

*Dim "HT" may vary 1/8" to 1".
†D Dimension of 5" 2521, 5" 1521, 5" 2522, 5" 1522, 6" 2522, 6" 1522, 6" 2523, 6" 1523 pumps with 213T through 286T motor is 9.

Dimensional Data – 1520 Single Stage End Suction Pumps

Steel Drip Rim Base



FRAME SIZE	C	"D" MOTOR	HA	HB	HE	HF	HG	HH	HP	HK	HT	BASEPLATE DESIGNATION	
286T	25 (635)	7 (178)	22 (559)	64-1/2 (1638)	29-1/8 (740)	62-7/8 (1597)	4 (114)	3/4 (19)	13/16 (21)	2 (51)	1-1/16 (27)	16 (406)	
324T	26 (660)	8 (203)											
326T	28 (711)												
364T	29 (737)	9 (229)											1/4 (6)
364TS	27 (686)												
365T	30 (762)												
365TS	28 (711)												2 (51)
404T	33 (838)			10 (254)		2-1/16 (52)					17 (432)		
404TS	30 (762)	2 (51)											
405TS	34 (864)	2-1/16 (52)											
405TS	31 (787)												
444TS	34 (864)	11 (279)										1-1/4 (32)	
445TS	36 (914)												

CASE BORE 15 (381)
"D" PUMP 14-1/2 (368)

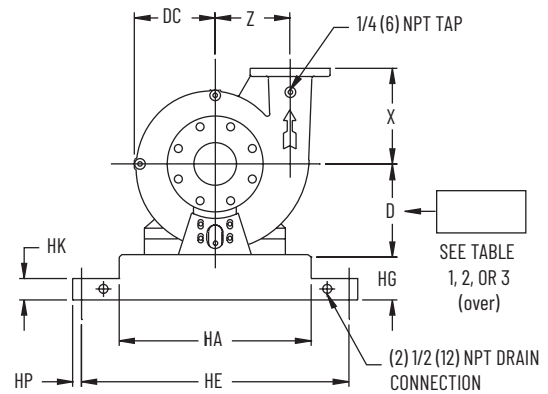
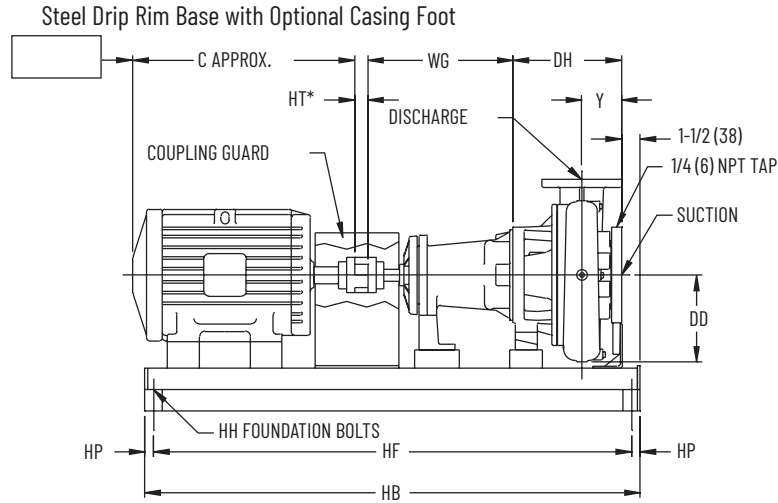
PUMP SIZE	FLANGE SIZE		DC	DE	X
	DISCHARGE	Suction			
6" 1524	6 (152)	8 (203)	10-7/16 (265)	12-7/8 (327)	18 (457)
8" 1524	8 (203)	10 (254)	11 (279)	14-3/8 (365)	19 (483)

Standard flanges 150 lb. per ANSI B16.5

NOTES:

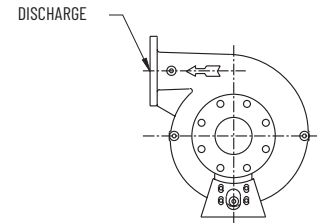
- All dimensions are approximate.
- Dimensions are in inches (mm) and may vary $\pm 1/4"$ (6).
- Not for construction purposes unless certified.
- Three grout holes are provided in top of base.
- Dimension "D" is determined by larger "D" dimension of pump and motor combination.

Dimensional Data – 2520 Single Stage End Suction Pumps Setting Plans



MODEL 2520 ILLUSTRATED

PUMPS WITH FLANGE Suction CONNECTIONS AND THREADED DISCHARGE CONNECTIONS									
PUMP SIZE	X	Y	Z	DC	DD	MODEL 1520		MODEL 2520	
						FRAME 1 DH	FRAME 2&3 DH	FRAME 1 DH	FRAME 2&3 DH
1-1/4" 1521 - 1-1/4" 2521	5-1/4 (133)	3-3/8 (86)	4-3/16 (106)	4-15/16 (125)	5-3/16 (132)	11-3/16 (284)	N/A	8-1/8 (206)	N/A
1-1/4" 1522 - 1-1/4" 2522	6-5/8 (168)	3-1/2 (89)	5-3/8 (137)	6-3/16 (157)	6-3/8 (162)	11-1/4 (286)	N/A	8-3/16 (208)	N/A
1-1/2" 1521 - 1-1/2" 2521	5-3/8 (137)	3-7/16 (87)	4-5/16 (110)	5-1/8 (130)	5-3/8 (137)	11-15/16 (303)	N/A	8-1/4 (210)	N/A
1-1/2" 1522 - 1-1/2" 2522	6-3/4 (171)	3-9/16 (90)	5-1/2 (140)	6-5/16 (160)	6-9/16 (167)	11-3/8 (290)	12-3/16 (310)	8-5/16 (211)	9-5/16 (237)
1-1/2" 1524 - 1-1/2" 2524	7-3/4 (197)	3-11/16 (94)	7-1/16 (179)	8 (203)	8-1/4 (205)	N/A	12-7/16 (316)	N/A	9-5/16 (237)
PUMPS WITH ANSI 125 LB. FLANGED CONNECTIONS									
2" 1521 - 2" 2521	5-5/8 (143)	2-13/16 (71)	4-9/16 (116)	5-3/8 (137)	5-13/16 (148)	10-13/16 (275)	11-5/8 (295)	7-3/4 (197)	8-3/4 (222)
2" 1522 - 2" 2522	7 (78)	2-13/16 (71)	5-11/16 (144)	6-1/2 (165)	6-7/8 (175)	10-3/4 (273)	11-9/16 (294)	7-11/16 (195)	8-11/16 (221)
2" 1524 - 2" 2524	8 (83)	2-13/16 (71)	7-3/16 (183)	8-3/16 (208)	8-1/2 (216)	N/A	11-11/16 (297)	N/A	8-13/16 (224)
2" 1523 - 2" 2523	8 (203)	3-5/16 (84)	6-1/2 (165)	7-1/8 (178)	7-3/8 (187)	N/A	12-5/16 (313)	N/A	9-7/16 (240)
2-1/2" 1521 - 2-1/2" 2521	5-7/8 (148)	2-15/16 (75)	4-13/16 (122)	5-13/16 (148)	6-1/4 (159)	11-1/16 (281)	11-7/8 (302)	8 (203)	9 (229)
2-1/2" 1522 - 2-1/2" 2522	7-1/4 (184)	2-15/16 (75)	5-15/16 (151)	6-3/4 (171)	7-1/4 (184)	7-15/16 (202)	11-13/16 (300)	7-15/16 (202)	8-15/16 (227)
2-1/2" 1523 - 2-1/2" 2523	8-1/4 (210)	2-15/16 (75)	7-3/8 (187)	8-3/8 (213)	8-3/4 (222)	N/A	11-15/16 (303)	N/A	9-1/16 (230)
3" 1521 - 3" 2521	7-1/2 (191)	3-1/16 (78)	6-1/8 (156)	6-7/8 (175)	7-7/16 (189)	N/A	12-1/16 (309)	8-3/16 (208)	9-3/16 (233)
3" 1522 - 3" 2522	9 (229)	3-11/16 (94)	7 (178)	7-9/16 (182)	8-3/16 (208)	N/A	13 (330)	N/A	10-1/8 (257)
3" 1523 - 3" 2523	8-1/2 (216)	3-1/16 (78)	7-9/16 (192)	8-7/16 (214)	8-15/16 (227)	N/A	12-3/16 (310)	N/A	9-5/16 (237)
4" 1521 - 4" 2521	6-1/2 (165)	3-7/16 (87)	5-1/2 (140)	6-7/16 (164)	7-5/16 (186)	11-15/16 (303)	12-3/4 (324)	8-7/8 (225)	9-7/8 (251)
4" 1522A - 4" 2522A	7-1/4 (184)	4-1/16 (103)	5-3/4 (146)	6-11/16 (170)	7-3/8 (187)	N/A	13-3/16 (335)	N/A	10-5/16 (262)
4" 1522B - 4" 2522B	7-3/4 (197)	3-9/16 (90)	6-5/8 (168)	8-1/16 (205)	8-11/16 (221)	N/A	12-13/16 (325)	N/A	9-15/16 (252)
4" 1523 - 4" 2523	9 (229)	3-15/16 (100)	7-1/4 (184)	7-15/16 (202)	8-11/16 (221)	N/A	13-3/16 (335)	N/A	10-9/16 (268)
4" 1524 - 4" 2524	8-3/4 (222)	3-9/16 (90)	7-15/16 (202)	8-7/8 (225)	9-9/16 (243)	N/A	12-13/16 (325)	N/A	10-1/16 (256)
5" 1521 - 5" 2521	9 (229)	4-1/8 (105)	8-1/16 (205)	8-11/16 (221)	10-1/8 (257)	N/A	14 (356)	N/A	11-1/8 (283)
5" 1522 - 5" 2522	9 (229)	3-7/8 (98)	8-5/16 (211)	9-1/4 (235)	10-1/8 (257)	N/A	13-1/2 (343)	N/A	10-5/8 (270)
6" 1521 - 6" 2521	8-1/4 (210)	3-3/4 (95)	7 (178)	8 (203)	9 (229)	N/A	13-1/8 (333)	N/A	10-1/4 (260)
6" 1522 - 6" 2522	9-1/4 (235)	4-1/8 (105)	8-11/16 (221)	9-11/16 (246)	10-13/16 (275)	N/A	14 (356)	N/A	11-1/8 (283)
6" 1523 - 6" 2523	9-1/4 (235)	4-1/8 (105)	8-11/16 (221)	9-11/16 (246)	10-13/16 (275)	N/A	14 (356)	N/A	11-1/8 (283)



POSITION (4)

Base	Size	HA	HB	HE	HG	HH	HP	HK	HF
7 (355)	14x36	14 (355)	36-1/2 (927)	19 (482)	3 (76)	5/8 (15)	3/4 (19)	1-1/2 (38)	35 (889)
8 (355)	14x42	14 (355)	42-1/2 (1079)	19 (482)	3 (76)	5/8 (15)	3/4 (19)	1-1/2 (38)	41 (1041)
11 (457)	18x46	18 (457)	46-1/2 (1181)	25-1/8 (638)	4 (102)	3/4 (19)	13/16 (20)	2 (50)	44-7/8 (1139)
12 (457)	18x54	18 (457)	54-1/2 (1384)	25-1/8 (638)	4 (102)	3/4 (19)	13/16 (20)	2 (50)	52-7/8 (1343)
15 (558)	22x54	22 (558)	54-1/2 (1384)	29-1/8 (739)	4-1/2 (114)	3/4 (19)	13/16 (20)	2 (50)	52-7/8 (1343)
16 (558)	22x64	22 (558)	64-1/2 (1638)	29-1/8 (739)	4-1/2 (114)	3/4 (19)	13/16 (20)	2 (50)	62-7/8 (1597)

NOTES:

- All dimensions in mm.
 - Dimensions may vary $\pm 1/4"$ (6).
 - Not for construction purposes unless certified.
 - N/A = Not Applicable.
 - Conduit box is shown in approximate location.
- Dimensions are not specified as they vary with each motor manufacturer.
- * Dimension "HT" may vary 1/8" (3) to 1" (25).

Dimensional Data – 2550, 2530, 1550 and 1530

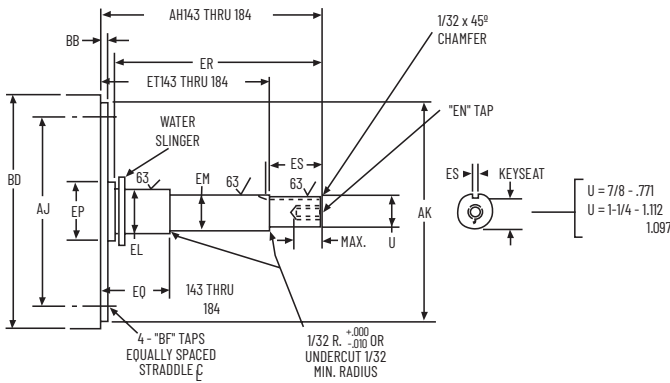
Single Stage End Suction Pumps

POWER FRAME 1												
HP	RPM	C FLANGE MOTORS HORIZONTAL FOOT MOUNTED 143-184JM ONLY – SUPPORT FOOT MOUNTED ON PUMP O.D.P. – TOTALLY ENCLOSED – EXPOSURE PROOF				MAGNETIC STARTER SIZE REQUIRED NEMA 1 ENCLOSURE			APPROXIMATE FULL LOAD AMPS			
		OPEN DRIP PROOF FRAME	SERVICE FACTOR O.D.P.	TEFC & EXP. PROOF FRAME	SERVICE FACTOR TEFC & EXP. PROOF	200V & 230V	460V	575V	200V	230V	460V	575V
1	1750	143	1.15	143	1.0	00	00	00	4.0	3.5	1.8	1.4
	1150	145		145								
1-1/2	3500	143		143								
	1750	145	1.15	145	1.0	00	00	00	5.4	4.7	2.4	1.9
	1150	182		182								
2	3500	145		145								
	1750	145	1.15	145	1.0	0	00	00	6.9	6	3	2.4
	1150	184		184								
3	3500	145		182								
	1750	182	1.15	182	1.0	0	0	0	9.9	8.6	4.3	3.4
	1150	213		213								
5	3500	182		184								
	1750	184	1.15	184	1.0	1	0	0	15.9	13.8	6.9	5.5
	1150	215		215								
7-1/2	3500	184		184								
	1750	213	1.15	213	1.0	1	1	1	24.3	21.1	10.5	8.4
	1150	254		254								
10	3500	213		213								
	1750	215	1.15	215	1.0	2	1	1	31	27	13.5	10.8
	1150	256		256								
15	3500	215		254								
	1750	254	1.15	254	1.0	3	2	2	45	39.2	19.6	15.7
	1150	284		284								
20	3500	254		256								
	1750	256	1.15	256	1.0	3	2	2	58.7	51	25.5	20
	1150	286		286								
25	3500	256		284								
	1750	284	1.15	284	1.0	3	3	3	72.7	63.2	31.6	25
	1150	324		324								
30	3500	284		286								
	1750	286	1.15	286	1.0	4	3	3	97.8	76.7	38.3	31
	1150	326		326								
40	3500	286	1.15	324	1.0	4	3	3	115	100	50	40
	1750	324		324								
50	3500	324	1.15	326	1.0	5	3	3	141	123	61.5	49
	1750	326		326								
60	3500	326	1.15	N/A	1.0	5	4	4	163	142	71	57

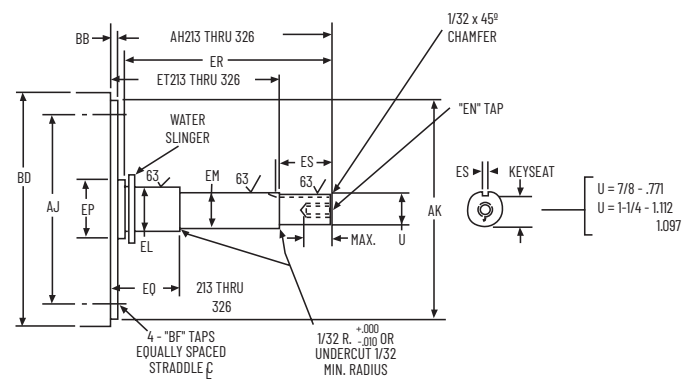
NOTES:

1. Approximate full load amps based on averages for Fairbanks Nijhuis® standard O.D.P. motors.
2. Magnetic starter size based on Fairbanks Nijhuis standard O.D.P. motors.
3. Models 2550 & 2530 use JM motor frames.
4. Models 1550 & 1530 use JP motor frames.

Dimensional Data – 2550, 2530, 1550 and 1530 Single Stage End Suction Pumps



143 - 184 MOTOR FRAME DIMENSIONS



213 - 326 MOTOR FRAME DIMENSIONS

MOTOR FRAME SIZES	340 U	360 U	340 AH	360 AH	AJ	AK	BB	BD	340 EL	360 EL
143 & 145	7/8 .8745 .8740	7/8 .8745 .8740	4-1/4 ±.031	7/5-16 ±.031	5-7/8	4-1/2 +.000 -.003	5/32 +.000 -.031	6-5/8 MAX.	1-5/32 +.000 -.002	1-5/32 +.000 -.002
182 & 184	7/8 .8745 .8740	7/8 .8745 .8740	4-1/4 ±.031	7/5-16 ±.031	5-7/8	4-1/2 +.000 -.003	5/32 +.000 -.031	6-5/8 MAX.	1-5/32 +.000 -.002	1-5/32 +.000 -.002
213 & 215	7/8 .8745 .8740	1-1/4 1.2495 1.2490	4-1/4 ±.031	8-1/8 ±.031	7-1/4	8-1/2 +.000 -.003	5/16 +.000 -.062	9 MAX.	1-1/4 +.000 -.002	1-3/4 +.000 -.002
254 & 256	1-1/4 1.2495 1.2490	1-1/4 1.2495 1.2490	5-1/4 ±.031	8-1/8 ±.031	7-1/4	8-1/2 +.000 -.003	5/16 +.000 -.062	10 MAX.	1-3/4 +.000 -.002	1-3/4 +.000 -.002
284 through 326	1-1/4 1.2490 1.3490	1-1/4 1.2490 1.3490	5-1/4 ±.031	8-1/8 ±.031	11	12-1/2 +.000 -.005	5/16 +.000 -.062	14 MAX.	1-3/4 +.000 -.002	1-3/4 +.000 -.000

MOTOR FRAME SIZES	340 EM	360 EM	EP	340 EQ	360 EQ	340 ER	360 ER	340 ET	360 ET
143 & 145	1 .0000 .0005	1 .0000 .0005	1-5/32 MIN.	5/8 ±.015	1-9/16 ±.015	4-1/4 MIN.	7-5/16 MIN.	2-7/8 ±.015	5-15/16 ±.015
182 & 184	1 .0000 -.0005	1 .0000 -.0005	1-1/4 MIN.	5/8 ±.015	1-9/16 ±.015	4-1/4 MIN.	7-5/16 MIN.	2-7/8 ±.015	5-15/16 ±.015
213 & 215	1 .0000 -.0005	1-3/8 .0000 -.0005	1-3/4 MIN.	5/8 ±.015	2-3/8 ±.015	4-1/4 MIN.	8-1/8 MIN.	2-7/8 ±.015	5-7/8 ±.015
254 & 256	1-3/8 .0000 -.0005	1-3/8 .0000 -.0005	1-3/4 MIN.	5/8 ±.015	2-3/8 ±.015	5-1/4 MIN.	8-1/8 MIN.	3 ±.015	5-7/8 ±.015
284 through 326	1-3/8 .0000 -.0005	1-3/8 .0000 -.0005	2-1/8 MIN.	5/8 ±.020	2-3/8 ±.015	5-1/4 MIN.	8-1/8 MIN.	3 ±.015	5-7/8 ±.020

MOTOR FRAME SIZES	ES	EN	BF
143 & 145	1.65 MIN.	3/16 +.002 -.000	3/8-16 3/8-16 1-1/8 1-1/8 3/4 3/4 3/8-16 9/16
182 & 184	1.65 MIN.	3/16 +.002 -.000	3/8-16 3/8-16 1-1/8 1-1/8 3/4 3/4 3/8-16 9/16
213 & 215	1.65 MIN.	* +.002 -.000	3/8-16 1/2-13 1-1/8 1-1/2 3/4 1 1/2-13 3/4
254 & 256	2.53 MIN.	1/4 +.002 -.000	1/2-13 1/2-13 1-1/2 1-1/2 1 1 1/2-13 3/4
284 through 326	2.50 MIN.	1/4 +.002 -.000	1/2-13 1/2-13 1-1/2 1-1/2 1 1 5/8-11 15/16

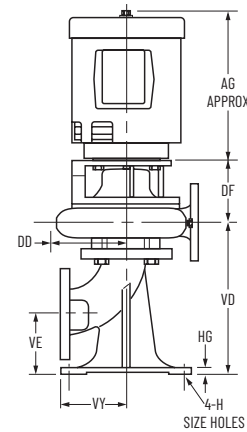
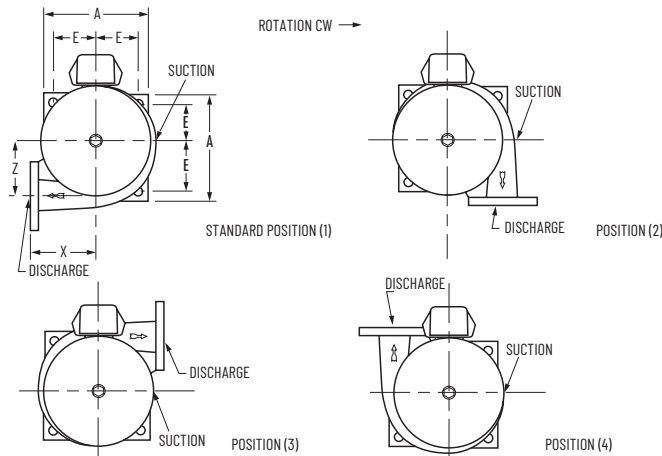
NOTES:

1. Shaft material - AISI 1018 steel.
2. Water slinger to be furnished with motor.
3. End play not to exceed .005.
4. Shaft diameters and rabbet to be concentric within .004 TIR.
5. JM Motors are used on 2500 series pumps. JP Motors are used on 1500 series pumps.

* Keyway width for 213-215 motor frame sizes:
JM Motors = 3/16" wide
JP Motors = 1/4" wide

Dimensional Data – 2530 and 1530 Single Stage End Suction Pumps

FRAME	AG
143	10 (254)
145	11 (276)
182	11 (276)
184	12 (304)
213	14 (255)
215	15 (381)
254	17 (431)
256	19 (482)
284	19 (482)
286	21 (533)
324	22 (558)
326	23 (584)



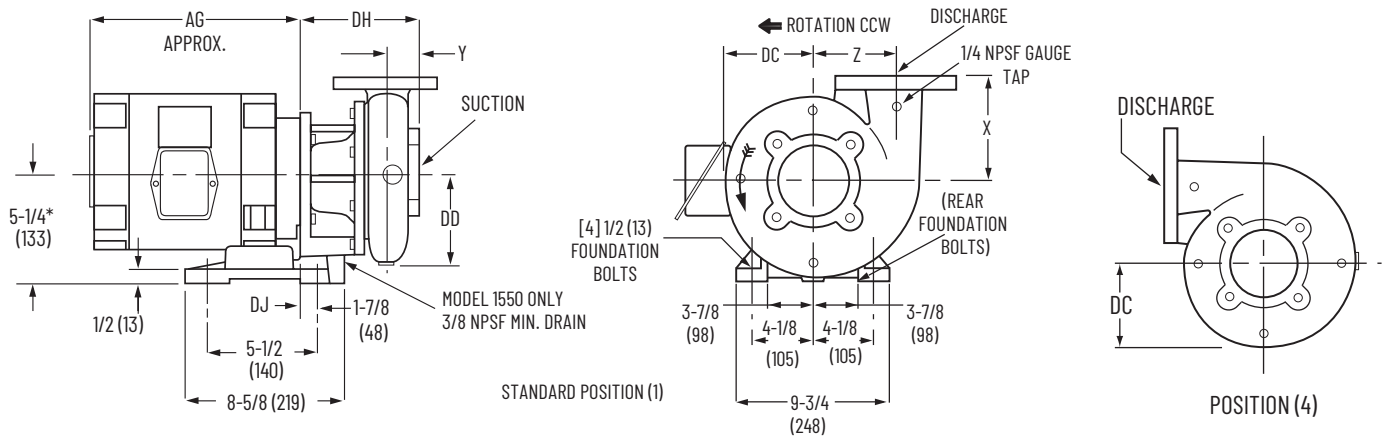
NOTES:

- All dimensions in inches (mm).
- Dimensions may vary $\pm 1/4"$ (6).
- Not for construction purposes unless certified.
- N/A = Not Applicable.
- Conduit box is shown in approximate location. Dimensions are not specified as they vary with each motor manufacturer.

PUMPS WITH FLANGE Suction CONNECTIONS AND THREADED DISCHARGE CONNECTIONS																
PUMP SIZE	DISCH.	Suction	CASE BORE	A	E	H	X	Z	DD	2530 DF			1530 DF		HG	VD
										143JM 215JM	254JM 256JM	284JM 326JM	143JP 184JP	213JP 326JP		
1-1/4" 1531 - 1-1/4" 2531	1-1/4	1-1/2	7	9 (228)	3-3/4 (95)	5/8 (16)	5-1/4 (133)	4-3/16 (106)	5-3/16 (132)	4-3/4 (121)	N/A	N/A	7-13/16 (198)	N/A	1/2 (13)	9-3/8 (238)
1-1/4" 1532 - 1-1/4" 2532	1-1/4	1-1/2	9	9 (228)	3-3/4 (95)	5/8 (16)	6-5/8 (168)	5-3/8 (137)	6-3/8 (162)	4-11/16 (118)	N/A	N/A	7-3/4 (197)	N/A	1/2 (13)	9-3/8 (238)
1-1/2" 1531 - 1-1/2" 2531	1-1/2	2	7	10 (254)	4-1/8 (105)	3/4 (19)	5-3/8 (137)	4-5/16 (110)	5-3/8 (137)	4-13/16 (122)	N/A	N/A	7-7/8 (200)	N/A	1/2 (13)	10-5/16 (262)
1-1/2" 1532 - 1-1/2" 2532	1-1/2	2	9	10 (254)	4-1/8 (105)	3/4 (19)	6-3/4 (171)	5-1/2 (140)	6-9/16 (167)	4-3/4 (121)	5-3/4 (146)	N/A	7-13/16 (198)	8-5/8 (219)	1/2 (13)	10-5/16 (262)
1-1/2" 1533 - 1-1/2" 2533	1-1/2	2	11	10 (254)	4-1/8 (105)	3/4 (19)	9 (229)	6-1/8 (156)	7-1/4 (184)	4-3/4 (121)	N/A	N/A	N/A	8-5/8 (219)	1/2 (13)	10-1/2 (267)
1-1/2" 1534 - 1-1/2" 2534	1-1/2	2	12	10 (254)	4-1/8 (105)	3/4 (19)	7-3/4 (197)	7-1/8 (179)	8-1/4 (210)	4-7/8 (124)	5-7/8 (149)	N/A	N/A	8-3/4 (222)	1/2 (13)	10-7/16 (265)
PUMPS WITH ANSI 125 LB FLANGED CONNECTIONS																
2" 1521 - 2" 2521	2	2-1/2	7	10 (254)	4-1/8 (105)	3/4 (19)	5-5/8 (143)	4-9/16 (116)	5-13/16 (148)	4-15/16 (125)	5-5/8 (151)	N/A	8 (203)	8-13/16 (224)	1/2 (13)	11-7/16 (291)
2" 1532 - 2" 2532	2	2-1/2	9	10 (254)	4-1/8 (105)	3/4 (19)	7 (178)	5-11/16 (144)	6-7/8 (175)	4-7/8 (124)	5-7/8 (149)	5-7/8 (149)	7-15/16 (202)	8-3/4 (222)	1/2 (13)	11-7/16 (291)
2" 1534 - 2" 2534	2	2-1/2	12	10 (254)	4-1/8 (105)	3/4 (19)	8 (203)	7-3/16 (183)	8-1/2 (216)	5 (127)	6 (152)	N/A	N/A	8-7/8 (225)	1/2 (13)	11-7/16 (291)
2" 1533 - 2" 2533	2	3	11	13-1/2 (342)	5-3/4 (146)	3/4 (19)	8 (203)	6-1/2 (165)	7-3/8 (187)	5-1/8 (130)	6-1/8 (156)	6-1/8 (156)	N/A	8-5/8 (219)	1/2 (13)	12-7/16 (327)
2-1/2" 1531 - 2-1/2" 2531	2-1/2	3	7	13-1/2 (342)	5-3/4 (146)	3/4 (19)	5-7/8 (149)	4-13/16 (122)	6-1/4 (159)	5-1/16 (129)	6-1/16 (154)	N/A	8-1/8 (206)	8-15/16 (227)	1/2 (13)	12-9/16 (319)
2-1/2" 1532 - 2-1/2" 2532	2-1/2	3	9	13-1/2 (342)	5-3/4 (146)	3/4 (19)	7-1/4 (184)	5-15/16 (151)	7-1/4 (184)	5 (127)	6 (152)	6 (152)	8-1/16 (205)	8-7/8 (225)	1/2 (13)	12-9/16 (319)
2-1/2" 1533 - 2-1/2" 2533	2-1/2	3	12	13-1/2 (342)	5-3/4 (146)	3/4 (19)	8-1/4 (210)	7-3/8 (187)	8-3/4 (222)	5-1/8 (130)	6-1/8 (156)	6-1/8 (156)	N/A	9 (228)	1/2 (13)	12-9/16 (319)
3" 1531 - 3" 2531	3	4	9	13-1/2 (342)	5-3/4 (146)	3/4 (19)	7-1/2 (191)	6-1/8 (156)	7-7/16 (189)	5-1/8 (130)	6-1/8 (156)	6-1/8 (156)	8-3/16 (208)	9 (229)	5/8 (16)	14-11/16 (373)
3" 1532 - 3" 2532	3	4	11	13-1/2 (342)	5-3/4 (146)	3/4 (19)	9 (229)	7 (178)	8-3/16 (208)	5-7/16 (138)	6-7/16 (164)	6-7/16 (164)	N/A	9-1/8 (232)	5/8 (16)	15-1/4 (387)
3" 1533 - 3" 2533	3	4	12	13-1/2 (342)	5-3/4 (146)	3/4 (19)	8-1/2 (216)	7-9/16 (192)	8-15/16 (227)	5-1/2 (140)	6-1/2 (165)	6-1/2 (165)	N/A	9-1/8 (232)	5/8 (16)	14-11/16 (373)
4" 1531 - 4" 2531	4	4	7	13-1/2 (342)	5-3/4 (146)	3/4 (19)	6-1/2 (165)	5-1/2 (140)	7-5/16 (186)	5-7/16 (138)	6-7/16 (164)	N/A	8-1/2 (216)	9-5/16 (237)	5/8 (16)	14-15/16 (379)
4" 1532A - 4" 2532A	4	5	9A	15 (381)	6-3/8 (162)	7/8 (22)	7-1/4 (184)	5-3/4 (146)	7-3/8 (187)	5-1/4 (133)	6-1/4 (159)	6-1/4 (159)	N/A	9-1/8 (232)	3/4 (19)	17-3/16 (437)
4" 1532B - 4" 2532B	4	5	9B	15 (381)	6-3/8 (162)	7/8 (22)	7-3/4 (197)	6-5/8 (168)	8-11/16 (221)	5-3/8 (137)	6-3/8 (162)	N/A	N/A	9-1/4 (235)	3/4 (19)	16-11/16 (424)
4" 1533 - 4" 2533	4	5	11	15 (381)	6-3/8 (162)	7/8 (22)	7-1/4 (184)	5-5/8 (143)	8-11/16 (221)	5-5/8 (143)	6-5/8 (168)	6-5/8 (168)	N/A	9-1/4 (235)	3/4 (19)	17 (432)
4" 1534 - 4" 2534	4	5	12	15 (381)	6-3/8 (162)	7/8 (22)	8-3/4 (222)	7-15/16 (202)	9-9/16 (243)	N/A	6-3/4 (171)	6-3/4 (171)	N/A	9-3/8 (238)	3/4 (19)	16-11/16 (424)
5" 1531 - 5" 2531	5	6	11	15 (381)	6-3/8 (162)	7/8 (22)	9 (229)	8-1/16 (205)	10-1/8 (257)	6 (152)	7 (178)	7 (178)	N/A	9-5/8 (244)	3/4 (19)	18-1/8 (460)
5" 1532 - 5" 2532	5	6	12	15 (381)	6-3/8 (162)	7/8 (22)	9 (229)	8-5/8 (211)	10-1/8 (257)	N/A	7 (178)	7 (178)	N/A	9-5/8 (244)	3/4 (19)	17-7/8 (454)
6" 1531 - 6" 2531	6	6	9	15 (381)	6-3/8 (162)	7/8 (22)	8-1/4 (210)	7 (178)	9 (229)	5-1/2 (140)	6-1/2 (165)	N/A	N/A	9-3/8 (238)	3/4 (19)	17-13/16 (452)
6" 1532 - 6" 2532	6	6	11	15 (381)	6-3/8 (162)	7/8 (22)	9-1/4 (235)	8-11/16 (221)	11-1/4 (286)	N/A	7-1/4 (184)	7-1/4 (184)	N/A	9-7/8 (251)	3/4 (19)	18-1/4 (464)
6" 1533 - 6" 2533	6	6	12	15 (381)	6-3/8 (162)	7/8 (22)	9-1/4 (235)	8-11/16 (221)	11-1/4 (286)	N/A	7-1/4 (184)	7-1/4 (184)	N/A	9-7/8 (251)	3/4 (19)	18-1/4 (464)

Dimensional Data – 2550 and 1550 Single Stage End Suction Pumps

JM & JP Motor Frames 143 Through 184



PUMPS WITH THREADED CONNECTIONS														
PUMP SIZE	DISCH.	Suction	CASE BORE	X	Y	Z	DC	DD	DH		DJ			
									2550	1550	2550	1550		
1-1/4" 1551 - 1-1/4" 2551	1-1/4	1-1/2	7	5-1/4 (133)	2-7/16 (62)	4-3/16 (106)	4-15/16 (125)	5-3/16 (132)	7-3/16 (183)	10-1/4 (266)	5/8 (16)	1-7/8 (48)		
1-1/4" 1552 - 1-1/4" 2552	1-1/4	1-1/2	9	6-5/8 (168)	2-9/16 (65)	5-3/8 (136)	6-3/16 (157)	6-3/8 (162)	7-1/4 (184)	10-5/16 (261)				
1-1/2" 1551 - 1-1/2" 2551	1-1/2	2	7	5-3/8 (136)	2-1/2 (63)	4-5/16 (109)	5-1/8 (130)	5-3/8 (136)	7-5/16 (186)	10-3/8 (263)				
1-1/2" 1552 - 1-1/2" 2552	1-1/2	2	9	6-3/4 (171)	2-5/8 (67)	5-1/2 (140)	6-5/16 (160)	6-9/16 (167)	7-3/8 (187)	10-7/16 (262)				
PUMPS WITH AM. STD. 125 LB. FLANGED CONNECTIONS														
2" 1551 - 2" 2551	2	2-1/2	7	5-5/8 (143)	1-7/8 (48)	4-9/16 (116)	5-3/8 (136)	5-13/16 (148)	6-13/16 (173)	9-7/8 (250)			5/8 (16)	1-7/8 (48)
2" 1552 - 2" 2552	2	2-1/2	9	7 (178)	1-7/8 (48)	5-11/16 (144)	6-1/2 (165)	6-7/8 (175)	6-3/4 (171)	9-13/16 (249)				
2-1/2" 1551 - 2-1/2" 2551	2-1/2	3	7	5-7/8 (149)	2 (51)	4-13/16 (122)	5-13/16 (148)	6-1/4 (159)	7-1/16 (179)	10-1/8 (257)				
2-1/2" 1552 - 2-1/2" 2552	2-1/2	3	9	7-1/4 (184)	2 (51)	5-15/16 (151)	6-3/4 (171)	7-1/4 (184)	7 (178)	10-1/16 (255)				
3" 1551 - 3" 2551	3	4	9	7-1/2 (190)	2-1/8 (54)	6-1/8 (156)	6-7/8 (175)	7-7/16 (189)	7-1/4 (184)	10-5/16 (261)				
4" 1551 - 4" 2551	4	4	7	6-1/2 (165)	2-1/2 (63)	5-1/2 (140)	6-7/16 (163)	7-5/16 (186)	7-15/16 (202)	11 (279)				
4" 1552A - 4" 2552A	4	5	9A	7-1/4 (184)	3-1/8 (79)	5-3/4 (146)	6-11/16 (169)	7-3/8 (187)	8-3/8 (212)	11-7/16 (290)				
4" 1552B - 4" 2552B	4	5	9B	7-3/4 (196)	2-5/8 (66)	6-5/8 (168)	8-1/16 (204)	8-11/16 (220)	8 (203)	11 (279)				

NOTES:

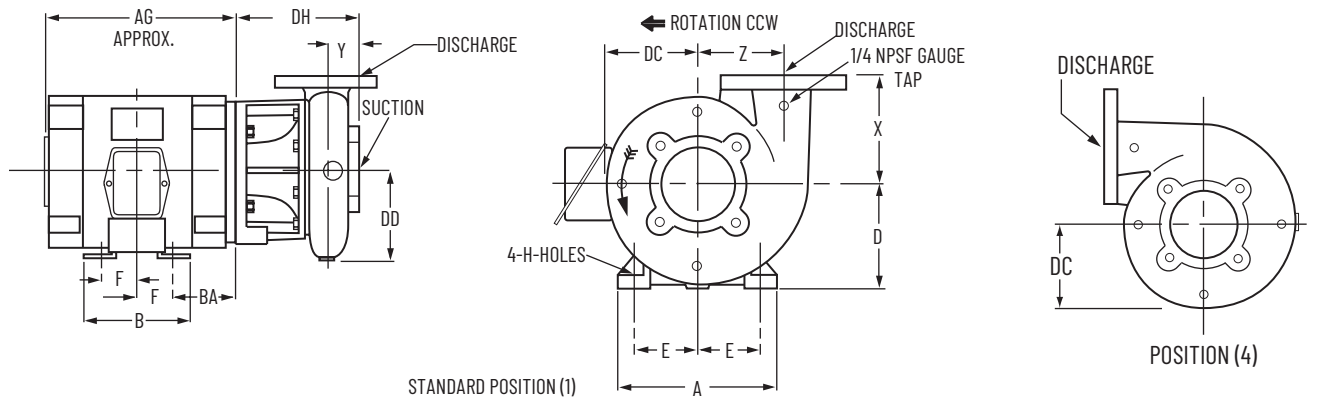
- All dimensions in inches and (mm).
- Dimensions may vary $\pm 1/4"$ (6).
- Not for construction purposes unless certified.
- Check discharge position. Casing dimension that exceeds 5-1/4 (133) height may require pads for the support.
- Conduit box is shown in approximate location. Dimensions are not specified as they vary with each motor manufacturer.
- Model 2550 uses JM motor frames.
Model 1550 uses JP motor frames.
*6-1/4 (159) for 9 (229) case bore pumps (Model 2550 only).

JM OR JP

FRAME	AG
143	10 (254)
145	11 (279)
182	11 (279)
184	12 (305)

Dimensional Data – 2550 and 1550 Single Stage End Suction Pumps

JM & JP Motor Frames 213 Through 326



PUMPS WITH THREADED CONNECTIONS									DH			
PUMP SIZE	DISCH.	Suction	CASE BORE	X	Y	Z	DC	DD	2550			1550
									213JM 215JM	254JM 256JM	284JM 326JM	213JP 326JP
1-1/4" 1551 - 1-1/4" 2551	1-1/4	1-1/2	7	5-1/4 (133)	2-7/16 (62)	4-3/16 (106)	4-15/16 (125)	5-3/16 (132)	7-3/16 (183)	N/A	N/A	N/A
1-1/4" 1552 - 1-1/4" 2552	1-1/4	1-1/2	9	6-5/8 (168)	2-9/16 (65)	5-3/8 (136)	6-3/16 (157)	6-3/8 (162)	7-1/4 (184)	N/A	N/A	N/A
1-1/2" 1551 - 1-1/2" 2551	1-1/2	2	7	5-3/8 (136)	2-1/2 (63)	4-5/16 (109)	5-1/8 (130)	5-3/8 (136)	7-5/16 (186)	N/A	N/A	N/A
1-1/2" 1552 - 1-1/2" 2552	1-1/2	2	9	6-3/4 (171)	2-5/8 (67)	5-1/2 (140)	6-5/16 (160)	6-9/16 (167)	8-3/8 (213)	8-3/8 (213)	11-1/4 (286)	
1-1/2" 1553 - 1-1/2" 2553	1-1/2	2	11	9 (229)	2-13/16 (71)	6-1/8 (156)	7-1/16 (179)	7-1/4 (184)	7-9/16 (192)	8-9/16 (217)	8-9/16 (217)	11-7/16 (290)
1-1/2" 1554 - 1-1/2" 2554	1-1/2	2	12	7-3/4 (197)	2-3/4 (70)	7-1/16 (179)	8 (203)	8-1/4 (210)	7-5/8 (194)	8-5/8 (219)	N/A	11-1/2 (292)
PUMPS WITH ANSI 125 LB. FLANGED CONNECTIONS												
2" 1551 - 2" 2551	2	2-1/2	7	5-5/8 (143)	1-7/8 (48)	4-9/16 (116)	5-3/8 (136)	5-13/16 (148)	6-13/16 (173)	7-13/16 (198)	N/A	10-11/16 (271)
2" 1552 - 2" 2552	2	2-1/2	9	7 (178)	1-7/8 (48)	5-11/16 (144)	6-1/2 (165)	6-7/8 (175)	7-3/4 (197)	7-3/4 (197)	7-3/4 (197)	10-5/8 (270)
2" 1554 - 2" 2554	2	2-1/2	12	8 (203)	1-7/8 (48)	7-3/16 (183)	8-3/16 (208)	8-1/2 (216)	6-7/8 (175)	7-7/8 (200)	N/A	10-3/4 (273)
2" 1553 - 2" 2553	2	3	11	8 (203)	2-3/8 (60)	6-1/2 (165)	7 (178)	7-3/8 (190)	7-1/2 (216)	8-1/2 (216)	8-1/2 (216)	11-3/8 (289)
2-1/2" 1551 - 2-1/2" 2551	2-1/2	3	7	5-7/8 (149)	2 (51)	4-13/16 (122)	5-13/16 (148)	6-1/4 (159)	7-1/16 (179)	8-1/16 (205)	N/A	10-15/16 (278)
2-1/2" 1552 - 2-1/2" 2552	2-1/2	3	9	7-1/4 (184)	2 (51)	5-15/16 (151)	6-3/4 (171)	7-1/4 (184)	7 (178)	8 (203)	8 (203)	10-7/8 (276)
2-1/2" 1553 - 2-1/2" 2553	2-1/2	3	12	8-1/4 (210)	2 (51)	7-3/8 (187)	8-3/8 (213)	8-3/4 (213)	7-1/8 (181)	8-1/8 (206)	8-1/8 (206)	11 (279)
3" 1551 - 3" 2551	3	4	9	7-1/2 (190)	2-1/8 (54)	6-1/8 (156)	6-7/8 (175)	7-7/16 (189)	7-1/4 (184)	8-1/4 (210)	8-1/4 (210)	11-1/8 (283)
3" 1552 - 3" 2552	3	4	11	9 (229)	2-3/4 (70)	7 (179)	7-9/16 (192)	8-3/16 (208)	8-3/16 (208)	9-3/16 (233)	9-3/16 (233)	12-1/16 (306)
3" 1553 - 3" 2553	3	4	12	8-1/2 (216)	2-1/8 (54)	7-9/16 (192)	8-7/16 (214)	8-15/16 (227)	7-5/8 (194)	8-5/8 (219)	8-5/8 (219)	11-1/4 (286)
4" 1551 - 4" 2551	4	4	7	6-1/2 (165)	2-1/2 (63)	5-1/2 (140)	6-7/16 (163)	7-5/16 (186)	7-15/16 (202)	8-15/16 (227)	8-15/16 (227)	11-13/16 (300)
4" 1552A - 4" 2552A	4	5	9A	7-1/4 (184)	3-1/8 (79)	5-3/4 (146)	6-11/16 (170)	7-3/8 (187)	8-3/8 (213)	9-3/8 (238)	9-3/8 (238)	12-1/4 (311)
4" 1552B - 4" 2552B	4	5	9B	7-3/4 (197)	2-5/8 (67)	6-5/8 (168)	8-1/16 (205)	8-11/16 (221)	7-5/8 (203)	8 (229)	N/A	11-7/8 (302)
4" 1553 - 4" 2553	4	5	11	9 (229)	3 (76)	7-1/4 (184)	7-15/16 (202)	8-11/16 (221)	8-5/8 (219)	9-5/8 (244)	9-5/8 (244)	12-1/2 (317)
4" 1554 - 4" 2554	4	6	12	8-3/4 (222)	2-5/8 (67)	7-15/16 (202)	8-7/8 (225)	9-9/16 (243)	N/A	9-3/8 (238)	9-3/8 (238)	12 (305)
5" 1551 - 5" 2551	5	6	11	9 (229)	3-1/8 (79)	8-1/16 (205)	8-11/16 (221)	10-1/8 (257)	9-1/8 (232)	10-1/8 (259)	10-1/8 (259)	13 (330)
5" 1552 - 5" 2552	5	6	12	9 (229)	2-7/8 (73)	8-5/16 (211)	9-1/4 (235)	10-1/8 (257)	N/A	9-7/8 (251)	9-7/8 (251)	12-1/2 (317)
6" 1551 - 6" 2551	6	6	9	8-1/4 (210)	2-3/4 (70)	7 (178)	8 (203)	9 (229)	8-1/4 (210)	9-1/4 (235)	N/A	12-1/8 (308)
6" 1552 - 6" 2552	6	6	11	9-1/4 (235)	3-1/8 (79)	8-11/16 (221)	9-11/16 (246)	11-1/4 (286)	9-7/8 (251)	10-3/8 (264)	10-3/8 (264)	13 (330)
6" 1553 - 6" 2553	6	6	12	9-1/4 (235)	3-1/8 (79)	8-11/16 (221)	9-11/16 (246)	11-1/4 (286)	N/A	10-3/8 (264)	10-3/8 (264)	13 (330)

NOTES:

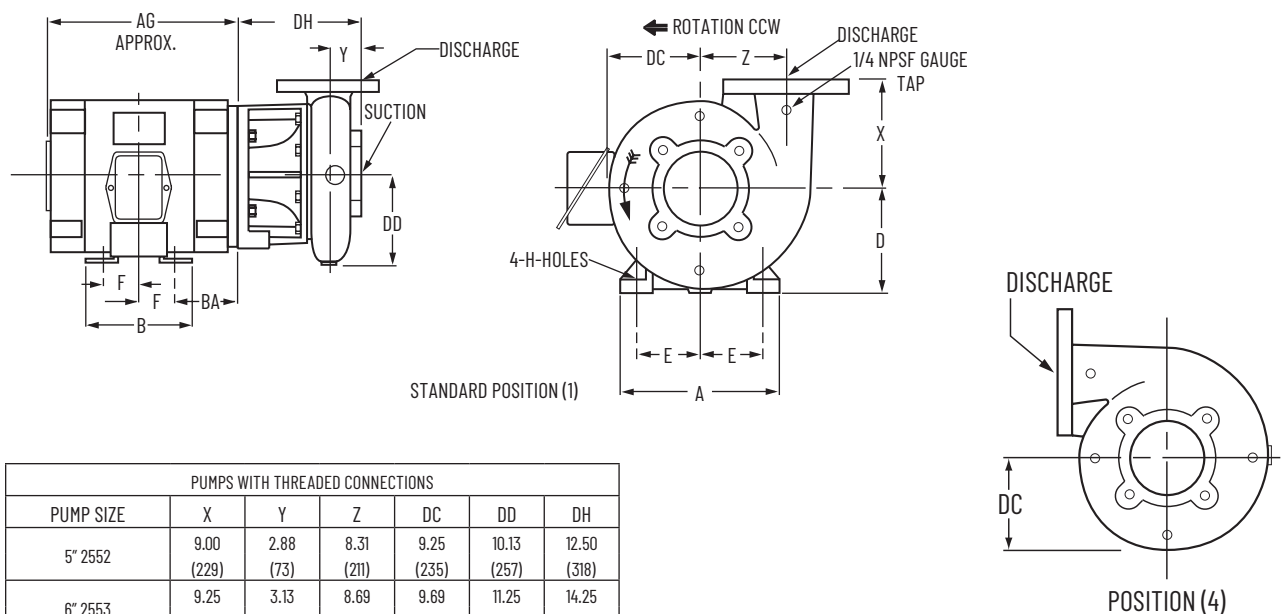
- All dimensions in inches and (mm).
- Dimensions may vary $\pm 1/4"$ (6).
- Not for construction purposes unless certified.
- N/A = Not Applicable.
- Check discharge position. Casing dimensions that exceed dimension "D" may require pads for the motor.
- Conduit box is shown in approximate location. Dimensions are not specified as they vary with each motor manufacturer.

FRAME	213	215	254	256	284	286	324	326
A	10-1/2 (267)	10-1/2 (267)	12-1/2 (317)	12-1/2 (317)	14 (356)	14 (356)	16 (406)	16 (406)
	7-1/2 (190)	9 (229)	10-3/4 (273)	12-1/2 (317)	14 (356)	14 (356)	15-1/2 (394)	15-1/2 (394)
B	5-1/4 (133)	5-1/4 (133)	6-1/4 (159)	6-1/4 (159)	7 (178)	7 (178)	8 (203)	8 (203)
	4-1/4 (108)	4-1/4 (108)	5 (127)	5 (127)	5-1/2 (140)	5-1/2 (140)	6-1/4 (159)	6-1/4 (159)
D	2-3/4 (70)	3-1/2 (89)	4-1/8 (111)	5 (127)	4-3/4 (121)	5-1/2 (140)	5-1/4 (133)	6 (152)
	13/32 (10)	13/32 (10)	17/32 (13)	17/32 (13)	17/32 (13)	17/32 (13)	21/32 (16)	21/32 (16)
E	4-1/4 (108)	4-1/4 (108)	5 (127)	5 (127)	5-1/2 (140)	5-1/2 (140)	6-1/4 (159)	6-1/4 (159)
	2-3/4 (70)	3-1/2 (89)	4-1/8 (111)	5 (127)	4-3/4 (121)	5-1/2 (140)	5-1/4 (133)	6 (152)
F	13/32 (10)	13/32 (10)	17/32 (13)	17/32 (13)	17/32 (13)	17/32 (13)	21/32 (16)	21/32 (16)
	4-1/4 (108)	4-1/4 (108)	5 (127)	5 (127)	5-1/2 (140)	5-1/2 (140)	6-1/4 (159)	6-1/4 (159)
H	2-3/4 (70)	3-1/2 (89)	4-1/8 (111)	5 (127)	4-3/4 (121)	5-1/2 (140)	5-1/4 (133)	6 (152)
	13/32 (10)	13/32 (10)	17/32 (13)	17/32 (13)	17/32 (13)	17/32 (13)	21/32 (16)	21/32 (16)
AG APPROX.	14 (356)	15 (381)	17-1/2 (444)	19 (483)	19 (483)	21 (533)	22 (559)	23 (584)
	4-1/2 (114)	4-1/2 (114)	5 (127)	5 (127)	5 (127)	5 (127)	5-1/2 (140)	5-1/2 (140)

Dimensional Data – 2550 – 5" 2522 and 6" 2553

Single Stage End Suction Pumps

364TCZ FRAME



PUMPS WITH THREADED CONNECTIONS						
PUMP SIZE	X	Y	Z	DC	DD	DH
5" 2552	9.00 (229)	2.88 (73)	8.31 (211)	9.25 (235)	10.13 (257)	12.50 (318)
6" 2553	9.25 (235)	3.13 (80)	8.69 (221)	9.69 (246)	11.25 (286)	14.25 (362)

MOTOR FRAME	364TCZ	365TCZ
A	18.00 (457)	18.00 (457)
B	14.75 (375)	15.75 (400)
D	9.00 (229)	9.00 (229)
E	7.00 (178)	7.00 (178)
F	5.63 (143)	6.13 (156)
H	0.66 (17)	0.66 (17)
AG APPROX.	26 (660)	28 (711)
BA	5.88 (149)	5.88 (149)

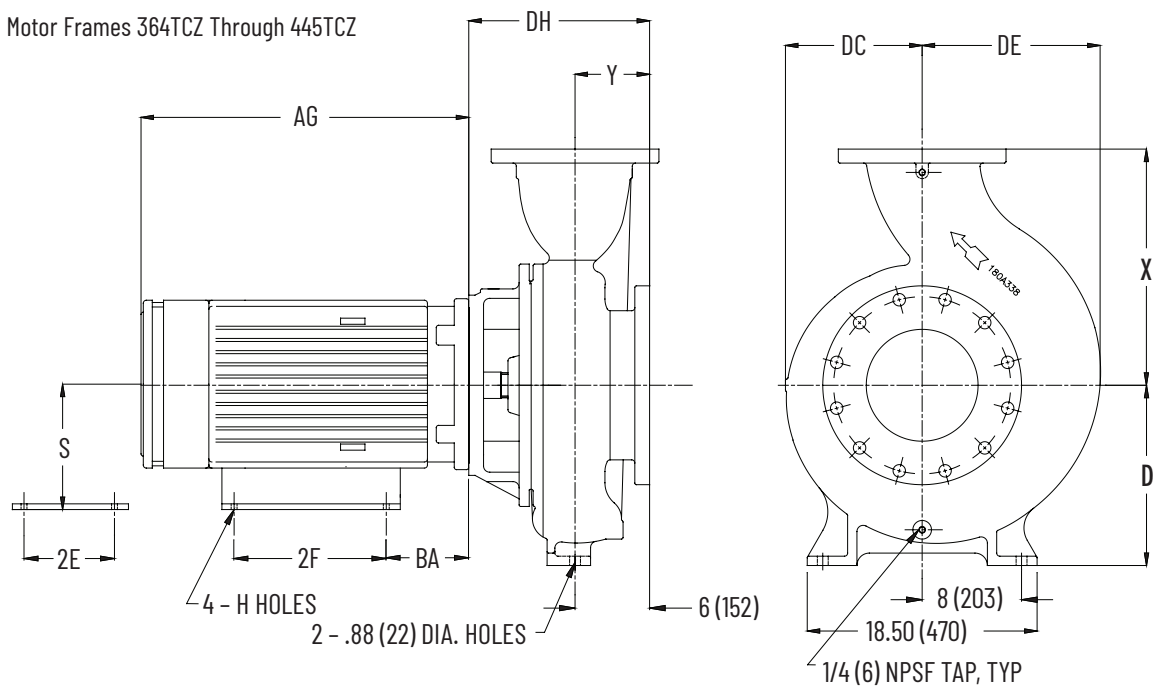
NOTES:

1. All dimensions in inches (mm), weight in pounds (kg).
2. Dimensions may vary $\pm 1/4"$ (6).
3. Not for construction purposes unless certified.
4. Conduit box is not specified as they vary with each motor manufacturer.

Dimensional Data – 2550 – 6" 2554 and 8" 2554

Single Stage End Suction Pumps

JM & JP Motor Frames 364TCZ Through 445TCZ



PUMPS WITH THREADED CONNECTIONS							
PUMP SIZE	X	Y	D	DE	DC	DH	PUMP WEIGHT
6" 2554	18.00 (457)	6.00 (152)	14.50 (368)	12.88 (327)	10.44 (265)	9.56 (243)	365 (166)
8" 2554	19.00 (483)	6.00 (152)	14.50 (368)	14.38 (365)	11.00 (279)	9.56 (243)	505 (229)

MOTOR FRAME	364TCZ	365TCZ	404TCZ	405TCZ	444TCZ	445TCZ
BA	5.88 (149)	5.88 (149)	6.62 (168)	6.62 (168)	7.50 (191)	7.50 (191)
2F	11.25 (286)	12.25 (311)	12.25 (311)	13.75 (349)	14.50 (368)	16.50 (419)
2E	14.00 (356)	14.00 (356)	16.00 (406)	16.00 (406)	18.00 (457)	18.00 (457)
S	9.00 (229)	9.00 (229)	10.00 (254)	10.00 (254)	11.00 (279)	11.00 (279)
H	0.66 (17)	0.66 (17)	0.81 (21)	0.81 (21)	0.81 (21)	0.81 (21)
AG APPROX.	31.5 (800)	32.5 (826)	34 (864)	37.5 (953)	43 (1092)	48 (1219)

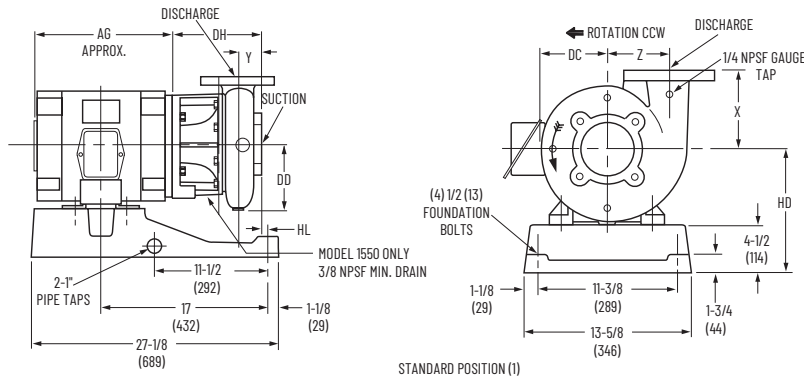
NOTES:

1. All dimensions in inches (mm), weight in pounds (kg).
2. Dimensions may vary $\pm 1/4"$.
3. Not for construction purposes unless certified.
4. Conduit box is not specified as they vary with each motor manufacturer.

Dimensional Data – 2550 and 1550 Single Stage End Suction Pumps

Setting Plans

JM & JP Motor Frames 213 Through 256 on Cast Iron Base



JM OR JP

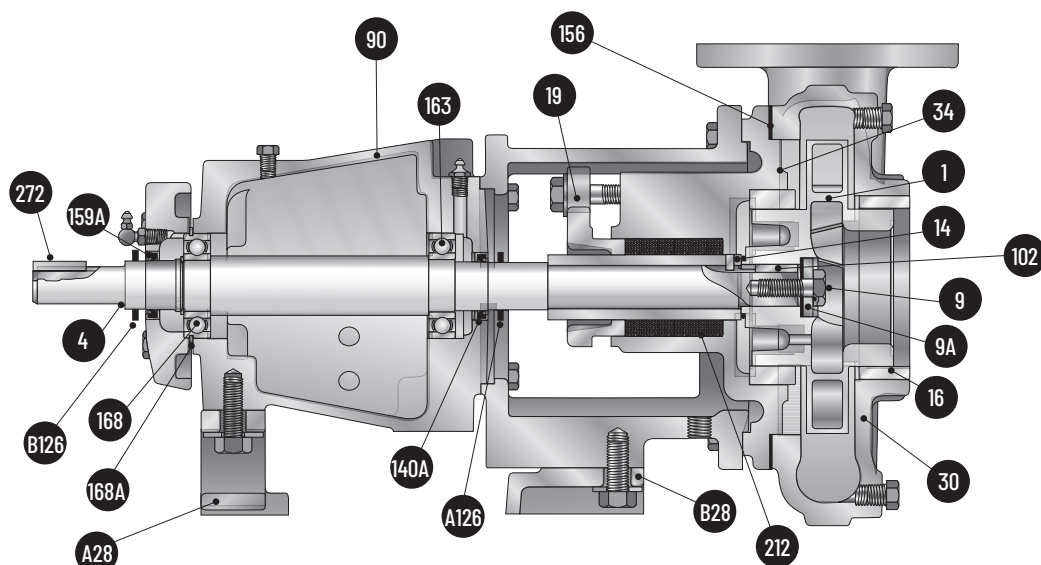
FRAME	AG
213	14 (355)
215	15 (381)
254	17 (431)
256	19 (355)

PUMPS WITH THREADED CONNECTIONS									DH			HD		HL				
PUMP SIZE	DISCH.	Suction	CASE BORE	X	Y	Z	DC	DD	2550		1550	213 215	254 256	2520		213JM 215JM	254JM 256JM	213JP 256JP
									213JM 215JM	254JM 256JM	213JP 256JP			213 215	254 256			
1-1/4" 1551 - 1-1/4" 2551	1-1/4	1-1/2	7	5-1/4 (133)	2- 7/16 (62)	4- 3/16 (106)	4-15/16 (125)	5- 3/16 (132)	7- 3/16 (183)	N/A	N/A	9-3/4* (248)	N/A	1-15/16 (49)	N/A	N/A	N/A	N/A
1-1/4" 1552 - 1-1/4" 2552	1-1/4	1-1/2	9	6-5/8 (168)	2-9/16 (65)	5-3/8 (137)	6-3/16 (157)	6-3/8 (162)	7-1/4 (184)	N/A	N/A	9-3/4* (248)	N/A	1-7/8 (48)	N/A	N/A	N/A	N/A
1-1/2" 1551 - 1-1/2" 2551	1-1/2	2	7	5-3/8 (137)	2-1/2 (64)	4-5/16 (110)	5-1/8 (130)	5-3/8 (137)	7-5/16 (186)	N/A	N/A	9-3/4* (248)	N/A	1-13/16 (46)	N/A	N/A	N/A	N/A
1-1/2" 1552 - 1-1/2" 2552	1-1/2	2	9	6-3/4 (171)	2-5/8 (67)	5-1/2 (140)	6-5/16 (160)	6-9/16 (167)	7-3/8 (187)	8-3/8 (213)	11-1/4 (286)	9-3/4 (248)	10-3/4 (273)	1-3/4 (44)	3/4 (19)	2-1/8 (54)	2-1/8 (54)	2-1/8 (54)
1-1/2" 1553 - 1-1/2" 2553	1-1/2	2	11	9 (229)	2-13/16 (71)	6-1/8 (156)	7-1/16 (179)	7-1/4 (184)	7-9/16 (192)	N/A	11-7/16 (291)	9-3/4 (248)	N/A	1-1/2 (38)	N/A	2-3/8 (60)	2-3/8 (60)	2-3/8 (60)
1-1/2" 1554 - 1-1/2" 2554	1-1/2	2	12	7-3/4 (197)	2-3/4 (70)	7-1/16 (179)	8 (203)	8-1/4 (210)	7-5/8 (194)	8-5/8 (219)	11-1/2 (292)	10-1/2 (267)	10-3/4 (273)	1-1/2 (38)	1/2 (13)	2-3/8 (60)	2-3/8 (60)	2-3/8 (60)
PUMPS WITH ANSI 125 LB. FLANGED CONNECTIONS																		
2" 1551 - 2" 2551	2	2-1/2	7	5-5/8 (143)	1-7/8 (48)	4-9/16 (116)	5-3/8 (137)	5-13/16 (148)	6-13/16 (173)	7-13/16 (198)	10-11/16 (271)	9-3/4 (248)	10-3/4 (273)	2-5/16 (59)	1-5/16 (33)	1-9/16 (40)	1-9/16 (40)	1-9/16 (40)
2" 1552 - 2" 2552	2	2-1/2	9	7 (178)	1-7/8 (48)	5-11/16 (144)	6-1/2 (165)	6-7/8 (175)	6-3/4 (171)	7-3/4 (197)	10-5/8 (270)	9-3/4 (248)	10-3/4 (273)	2-3/8 (60)	1-3/8 (35)	1-1/2 (38)	1-1/2 (38)	1-1/2 (38)
2" 1554 - 2" 2554	2	2-1/2	12	8 (203)	1-7/8 (48)	7-3/16 (183)	8-3/16 (208)	8-1/2 (216)	6-7/8 (175)	7-7/8 (200)	10-3/4 (273)	10-1/2 (267)	10-3/4 (273)	2-1/4 (57)	1-1/4 (32)	1-5/8 (41)	1-5/8 (41)	1-5/8 (41)
2" 1553 - 2" 2553	2	3	11	8 (203)	2-3/8 (60)	6-1/2 (165)	7 (178)	7-3/8 (187)	7-1/2 (191)	8-1/2 (216)	11-3/8 (289)	9-3/4 (248)	10-3/4 (273)	1-1/2 (38)	1/2 (13)	2-1/16 (52)	2-1/16 (52)	2-1/16 (52)
2-1/2" 1551 - 2-1/2" 2551	2-1/2	3	7	5-7/8 (149)	2 (51)	4-13/16 (122)	5-13/16 (148)	6-1/4 (159)	7-1/16 (179)	8-1/16 (205)	10-15/16 (278)	9-3/4 (248)	10-3/4 (273)	2-1/16 (52)	1-1/16 (27)	1-13/16 (46)	1-13/16 (46)	1-13/16 (46)
2-1/2" 1552 - 2-1/2" 2552	2-1/2	3	9	7-1/4 (184)	2 (51)	5-15/16 (151)	6-3/4 (171)	7-1/4 (184)	7 (178)	8 (203)	10-7/8 (276)	9-3/4 (248)	10-3/4 (273)	2-1/8 (54)	1-1/8 (29)	1-3/4 (44)	1-3/4 (44)	1-3/4 (44)
2-1/2" 1553 - 2-1/2" 2553	2-1/2	3	12	8-1/4 (210)	2 (51)	7-3/8 (187)	8-3/8 (213)	8-3/4 (222)	7-1/8 (181)	8-1/8 (206)	11 (279)	10-1/2 (267)	10-3/4 (273)	2 (51)	1 (25)	1-7/8 (48)	1-7/8 (48)	1-7/8 (48)
3" 1551 - 3" 2551	3	4	9	7-1/2 (191)	2-1/8 (54)	6-1/8 (156)	6-7/8 (175)	7-7/16 (189)	7-1/4 (184)	8-1/4 (210)	11-1/8 (283)	9-3/4 (248)	10-3/4 (273)	1-7/8 (48)	7/8 (22)	2 (51)	2 (51)	2 (51)
3" 1552 - 3" 2552	3	4	11	9 (229)	2-3/4 (70)	7 (178)	7-9/16 (192)	8-3/16 (208)	8-3/16 (208)	9-3/16 (233)	12-1/16 (306)	10-1/2 (267)	10-3/4 (273)	13/16 (20)	0	2-3/4 (70)	2-3/4 (70)	2-3/4 (70)
3" 1553 - 3" 2553	3	4	12	8-1/2 (216)	2-1/8 (54)	7-9/16 (192)	8-7/16 (214)	8-15/16 (227)	7-5/8 (194)	8-5/8 (219)	11-1/4 (286)	10-1/2 (267)	10-3/4 (273)	1-3/4 (44)	3/4 (19)	2-1/8 (54)	2-1/8 (54)	2-1/8 (54)
4" 1551 - 4" 2551	4	4	7	6-1/2 (165)	2-1/2 (64)	5-1/2 (140)	6-7/16 (164)	7-5/16 (186)	7-15/16 (202)	8-15/16 (227)	11-13/16 (300)	9-3/4 (248)	10-3/4 (273)	1-3/16 (30)	3/16 (4)	2-11/16 (68)	2-11/16 (68)	2-11/16 (68)
4" 1552A - 4" 2552A	4	5	9A	7-1/4 (184)	3-1/8 (79)	5-3/4 (146)	6-11/16 (170)	7-3/8 (187)	8-3/8 (213)	N/A	12-1/4 (311)	9-3/4 (248)	N/A	3/4 (19)	N/A	3-1/8 (79)	3-1/8 (79)	3-1/8 (79)
4" 1552B - 4" 2552B	4	5	9B	7-3/4 (197)	2-5/8 (67)	6-5/8 (168)	8-1/16 (205)	8-11/16 (221)	8 (203)	9 (229)	11-7/8 (302)	10-1/2 (267)	10-3/4 (273)	1-1/8 (29)	1/8 (3)	2-3/4 (70)	2-3/4 (70)	2-3/4 (70)
4" 1553 - 4" 2553	4	5	11	9 (229)	3 (76)	7-1/4 (184)	7-15/16 (202)	8-11/16 (221)	9-5/8 (219)	9-5/8 (244)	12-1/2 (318)	11-1/4 (286)	11-1/2 (292)	3/8 (10)	0	3-3/16 (81)	3-3/16 (81)	3-3/16 (81)
4" 1554 - 4" 2554	4	5	12	8-3/4 (222)	2-5/8 (67)	7-15/16 (202)	8-7/8 (225)	9-9/16 (243)	N/A	9-3/8 (238)	12 (305)	N/A	10-3/4 (273)	N/A	0	2-7/8 (73)	2-7/8 (73)	2-7/8 (73)
5" 1551 - 5" 2551	5	6	11	9 (229)	3-1/8 (79)	8-1/16 (205)	8-11/16 (221)	10-1/8 (257)	9-1/8 (232)	10-1/8 (257)	13 (330)	12-1/4 (311)	12-1/4 (311)	0	0	3-11/16 (94)	3-11/16 (94)	3-11/16 (94)
6" 1551 - 6" 2551	6	6	9	8-1/4 (210)	2-3/4 (70)	7 (178)	8 (203)	9 (229)	8-1/4 (210)	9-1/4 (235)	12-1/8 (308)	10-1/2 (267)	10-3/4 (273)	7/8 (22)	0	3 (76)	3 (76)	3 (76)

NOTES:

- All dimensions in inches and (mm).
- Dimensions may vary $\pm$ 1/4" (6).
- Not for construction purposes unless certified.
- N/A = Not Applicable.
- Conduit box is shown in approximate location. Dimensions are not specified as they vary with each motor manufacturer.

Technical Data – 1500 Single Stage End Suction Pumps Horizontal Assembly, Material Specification and Parts List



Assembly Drawing – Model 1520

Frame Mounted 1520

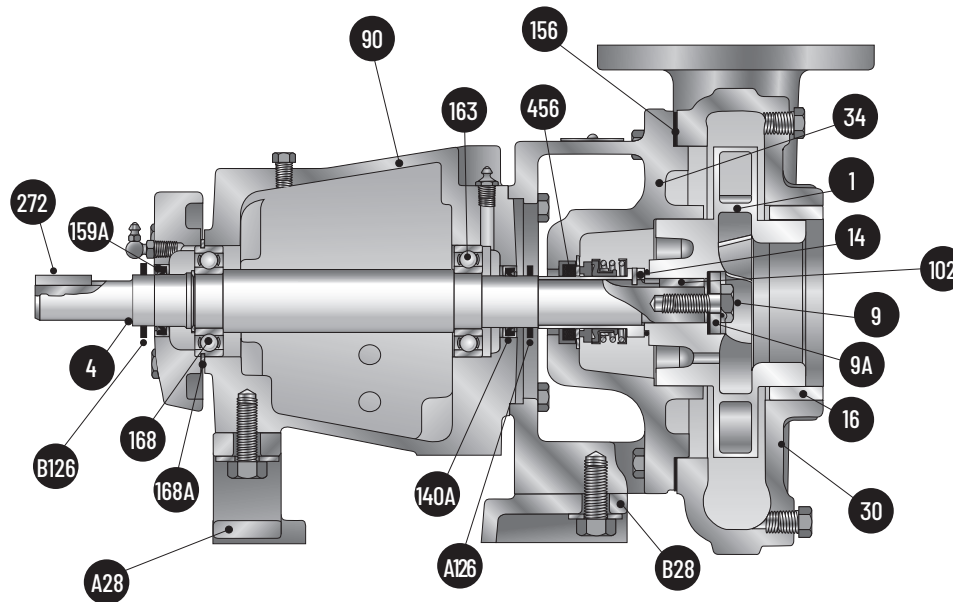
Ref. No.	Description	Standard Fitted		Bronze Fitted		All Iron Fitted		All Bronze Fitted	
		Material	Spec (1)	Material	Spec (1)	Material	Spec (1)	Material	Spec (1)
1	Impeller	Cast Iron	A48-C30	Bronze	B584	Cast Iron	A48-C30	Bronze	B584
4	Shaft	Steel	AISI C1045	Steel	AISI C1045	Steel	AISI C1045	Steel	AISI C1045
9	Bolt, Impeller	Steel	SAE #5	Steel	SAE #5	Steel	SAE #5	Steel	SAE #5
9A	Washer, Impeller	Steel	Wrought	Steel	Wrought	Steel	Wrought	Steel	Wrought
14	Sleeve, Shaft	Bronze	B62	Bronze	B62	Stainless Steel	AISI 316	Bronze	B62
16	Wear Ring, Case (Front)	Bronze	B62	Bronze	B62	Cast Iron	A48-CL30	Bronze	B62
19	Gland	Cast Iron	A48-CL30	Bronze	B62	Cast Iron	A48-CL30	Bronze	B63
A28	Foot, Mounting	Cast Iron	A48-CL30	Cast Iron	A48-CL30	Cast Iron	A48-CL30	Cast Iron	A48-CL30
B28	Foot, Mounting	Steel/Cast Iron	Wrought/A48-CL30	Steel/Cast Iron	Wrought/A48-CL30	Steel/Cast Iron	Wrought/A48-CL30	Steel/Cast Iron	Wrought/A48-CL30
30	Volute	Cast Iron	A48-CL30	Cast Iron	A48-CL30	Cast Iron	A48-CL30	Bronze	B62
34	Cover	Cast Iron	A48-CL30	Cast Iron	A48-CL30	Cast Iron	A48-CL30	Bronze	B63
90	Frame, Bearing	Cast Iron	A48-CL30	Cast Iron	A48-CL30	Cast Iron	A48-CL30	Cast Iron	A48-CL30
102	Key, Impeller	Steel	Wrought	Steel	Wrought	Steel	Wrought	Steel	Wrought
A126	Deflector, Inner	Neoprene	Commercial	Neoprene	Commercial	Neoprene	Commercial	Neoprene	Commercial
B126	Deflector, Outer	Neoprene	Commercial	Neoprene	Commercial	Neoprene	Commercial	Neoprene	Commercial
140A	Seal, Inner Grease	Steel & Buna-N	Commercial	Steel & Buna-N	Commercial	Steel & Buna-N	Commercial	Steel & Buna-N	Commercial
156	Gasket, Volute	Nitrile	Butadiene Cellulose	Nitrile	Butadiene Cellulose	Nitrile	Butadiene Cellulose	Nitrile	Butadiene Cellulose
159A	Seal, Outer Grease	Steel & Buna-N	Commercial	Steel & Buna-N	Commercial	Steel & Buna-N	Commercial	Steel & Buna-N	Commercial
163	Bearing, Radial	Steel	Commercial	Steel	Commercial	Steel	Commercial	Steel	Commercial
168	Bearing, Thrust	Steel	Commercial	Steel	Commercial	Steel	Commercial	Steel	Commercial
168A	Snap Ring, Bearing	Steel	-	Steel	-	Steel	-	Steel	-
212	Packing	Synthetic Packing, Graphite Impregnated	J.C. C1065/C1066 Durametalllic TGF	Synthetic Packing, Graphite Impregnated	J.C. C1065/C1066 Durametalllic TGF	Synthetic Packing, Graphite Impregnated	J.C. C1065/C1066 Durametalllic TGF	Synthetic Packing, Graphite Impregnated	J.C. C1065/C1066 Durametalllic TGF
272	Key, Coupling	Steel		Steel		Steel		Steel	

Options to Basic Pumps

Ref. No.	Description	Material	Spec (1)	Material	Spec (1)	Material	Spec (1)	Material	Spec (1)
10	Lantern Ring	PTFE Coating	Commercial	PTFE Coating	Commercial	PTFE Coating	Commercial	PTFE Coating	Commercial
17	Wear Ring, Impeller (Front)	Bronze	B62	Bronze	B62	Cast Iron	A48-CL30	Bronze	B62
17	Wear Ring, Impeller (Rear)	Bronze	B62	Bronze	B62	Cast Iron	A48-CL30	Bronze	B62
31	Gland, Solid	Cast Iron	A48-CL30	Bronze	B62	Cast Iron	A48-CL30	Bronze	B62
456	Mechanical Seal	-	-	-	-	-	-	-	-

(1) All material designations are ASTM unless otherwise noted.

Technical Data – 2500 Single Stage End Suction Pumps Horizontal Assembly, Material Specification and Parts List



Frame Mounted 2520

Ref. No.	Description	Standard Fitted		Bronze Fitted		All Iron Fitted		All Bronze Fitted	
		Material	Spec (1)	Material	Spec (1)	Material	Spec (1)	Material	Spec (1)
1	Impeller	Cast Iron	A48-C30	Bronze	B584	Cast Iron	A48-C30	Bronze	B584
4	Shaft	Steel	AISI C1045	Steel	AISI C1045	Steel	AISI C1045	Steel	AISI C1045
9	Bolt, Impeller	Steel	SAE #5	Steel	SAE #5	Steel	SAE #5	Steel	SAE #5
9A	Washer, Impeller	Steel	Wrought	Steel	Wrought	Steel	Wrought	Steel	Wrought
14	Sleeve, Shaft	Bronze	B62	Bronze	B62	Stainless Steel	AISI 316	Bronze	B62
16	Wear Ring, Case (Front)	Bronze	B62	Bronze	B62	Cast Iron	A48-CL30	Bronze	B62
A28	Foot, Mounting	Cast Iron	A48-CL30	Cast Iron	A48-CL30	Cast Iron	A48-CL30	Cast Iron	A48-CL30
B28	Foot, Mounting	Steel/Cast Iron	Wrought/A48-CL30	Steel/Cast Iron	Wrought/A48-CL30	Steel/Cast Iron	Wrought/A48-CL30	Steel/Cast Iron	Wrought/A48-CL30
30	Volute	Cast Iron	A48-CL30	Cast Iron	A48-CL30	Cast Iron	A48-CL30	Bronze	B62
34	Cover	Cast Iron	A48-CL30	Cast Iron	A48-CL30	Cast Iron	A48-CL30	Bronze	B63
90	Frame, Bearing	Cast Iron	A48-CL30	Cast Iron	A48-CL30	Cast Iron	A48-CL30	Cast Iron	A48-CL30
102	Key, Impeller	Steel	Wrought	Steel	Wrought	Steel	Wrought	Steel	Wrought
A126	Deflector, Inner	Neoprene	Commercial	Neoprene	Commercial	Neoprene	Commercial	Neoprene	Commercial
B126	Deflector, Outer	Neoprene	Commercial	Neoprene	Commercial	Neoprene	Commercial	Neoprene	Commercial
140A	Seal, Inner Grease	Steel & Buna-N	Commercial	Steel & Buna-N	Commercial	Steel & Buna-N	Commercial	Steel & Buna-N	Commercial
156	Gasket, Volute	Nitrile	Butadiene Cellulose	Nitrile	Butadiene Cellulose	Nitrile	Butadiene Cellulose	Nitrile	Butadiene Cellulose
159A	Seal, Outer Grease	Steel & Buna-N	Commercial	Steel & Buna-N	Commercial	Steel & Buna-N	Commercial	Steel & Buna-N	Commercial
163	Bearing, Radial	Steel	Commercial	Steel	Commercial	Steel	Commercial	Steel	Commercial
168	Bearing, Thrust	Steel	Commercial	Steel	Commercial	Steel	Commercial	Steel	Commercial
168A	Snap Ring, Bearing	Steel	-	Steel	-	Steel	-	Steel	-
272	Key, Coupling	Steel		Steel		Steel		Steel	
456	Mechanical Seal	303 Stainless Steel Metal Parts, Buna-N Elastomer Parts, Ni-Resist Seat and Carbon Washer						303 Stainless Steel Metal Parts, Viton® Elastomer, Ceramic Seat and Carbon Washer	

Options to Basic Pumps

Ref. No.	Description	Material	Spec (1)	Material	Spec (1)	Material	Spec (1)	Material	Spec (1)
17	Wear Ring, Impeller (Front)	Bronze	B62	Bronze	B62	Cast Iron	A48-CL30	Bronze	B62
17	Wear Ring, Impeller (Rear)	Bronze	B62	Bronze	B62	Cast Iron	A48-CL30	Bronze	B62

(1) All material designations are ASTM unless otherwise noted.

Technical Data – 1500 and 2500 Single Stage End Suction Pumps

Vertical Bilttogether Material Specification and Parts List

Vertical Bilttogether Model 1530

Description	Standard Fitted		Bronze Fitted		All Iron Fitted	
	Material	Spec (I)	Material	Spec (I)	Material	Spec (I)
Impeller	Cast Iron	A48-C30	Bronze	B584	Cast Iron	A48-C30
Shaft	Steel	AISI C1045	Steel	AISI C1045	Steel	AISI C1045
Bolt, Impeller	Steel	SAE #5	Steel	SAE #5	Steel	SAE #5
Washer, Impeller	Steel	Wrought	Steel	Wrought	Steel	Wrought
Sleeve, Shaft	Bronze	CDA 83600	Bronze	CDA 83600	Stainless Steel	AISI 316
Wear Ring, Case (Front)	Bronze	B62	Bronze	B62	Cast Iron	A48-CL30
Wear Ring, Case (Rear)	Bronze	B62	Bronze	B62	Cast Iron	A48-CL30
Gland	Cast Iron	A48-CL30	Bronze	B62	Cast Iron	A48-CL30
O-ring, Sleeve	Rubber	Buna-N	Rubber	Buna-N	Rubber	Buna-N
Volute	Cast Iron	A48-CL30	Cast Iron	A48-CL30	Cast Iron	A48-CL30
Cover	Cast Iron	A48-CL30	Cast Iron	A48-CL30	Cast Iron	A48-CL30
Motor Bracket	Cast Iron	A48-CL30	Cast Iron	A48-CL30	Cast Iron	A48-CL30
Key, Impeller	Steel	Wrought	Steel	Wrought	Steel	Wrought
Gasket, Volute	Nitrile	Butadiene Cellulose	Nitrile	Butadiene Cellulose	Nitrile	Butadiene Cellulose
Packing	Synthetic Packing, Graphite Impregnated	J.C. C1065/C1066 Durametallic TGF	Synthetic Packing, Graphite Impregnated	J.C. C1065/C1066 Durametallic TGF	Synthetic Packing, Graphite Impregnated	J.C. C1065/C1066 Durametallic TGF
Combination Base/Elbow	Cast Iron	A48-CL30	Cast Iron	A48-CL30	Cast Iron	A48-CL30

Options to Basic Pumps

Description	Material	Spec (I)	Material	Spec (I)	Material	Spec (I)
Lantern Ring	PTFE Coating	Commercial	PTFE Coating	Commercial	PTFE Coating	Commercial
Wear Ring, Impeller (Front)	Bronze	B62	Bronze	B62	Cast Iron	A48-CL30
Wear Ring, Impeller (Rear)	Bronze	B62	Bronze	B62	Cast Iron	A48-CL30
Gland, Solid	Cast Iron	A48-CL30	Cast Iron	A48-CL30	Cast Iron	A48-CL30
Mechanical Seal	-	-	-	-	-	-

Vertical Bilttogether Model 2530

Description	Standard Fitted		Bronze Fitted		All Iron Fitted	
	Material	Spec (I)	Material	Spec (I)	Material	Spec (I)
Impeller	Cast Iron	A48-C30	Bronze	B584	Cast Iron	A48-C30
Shaft	Steel	AISI C1045	Steel	AISI C1045	Steel	AISI C1045
Bolt, Impeller	Steel	SAE #5	Steel	SAE #5	Steel	SAE #5
Washer, Impeller	Steel	Wrought	Steel	Wrought	Steel	Wrought
Sleeve, Shaft	Bronze	CDA 83600	Bronze	CDA 83600	Stainless Steel	AISI 316
Wear Ring, Case (Front)	Bronze	B62	Bronze	B62	Cast Iron	A48-CL30
Wear Ring, Case (Rear)	Bronze	B62	Bronze	B62	Cast Iron	A48-CL30
O-ring, Sleeve	Rubber	Buna-N	Rubber	Buna-N	Rubber	Buna-N
Volute	Cast Iron	A48-CL30	Cast Iron	A48-CL30	Cast Iron	A48-CL30
Cover	Cast Iron	A48-CL30	Cast Iron	A48-CL30	Cast Iron	A48-CL30
Motor Bracket	Cast Iron	A48-CL30	Cast Iron	A48-CL30	Cast Iron	A48-CL30
Key, Impeller	Steel	Wrought	Steel	Wrought	Steel	Wrought
Gasket, Volute	Nitrile	Butadiene Cellulose	Nitrile	Butadiene Cellulose	Nitrile	Butadiene Cellulose
Mechanical Seal	303 Stainless Steel Metal Parts, Buna-N Elastomer Parts, Ni-Resist Seat and Carbon Washer					
Combination Base/Elbow	Cast Iron	A48-CL30	Cast Iron	A48-CL30	Cast Iron	A48-CL30

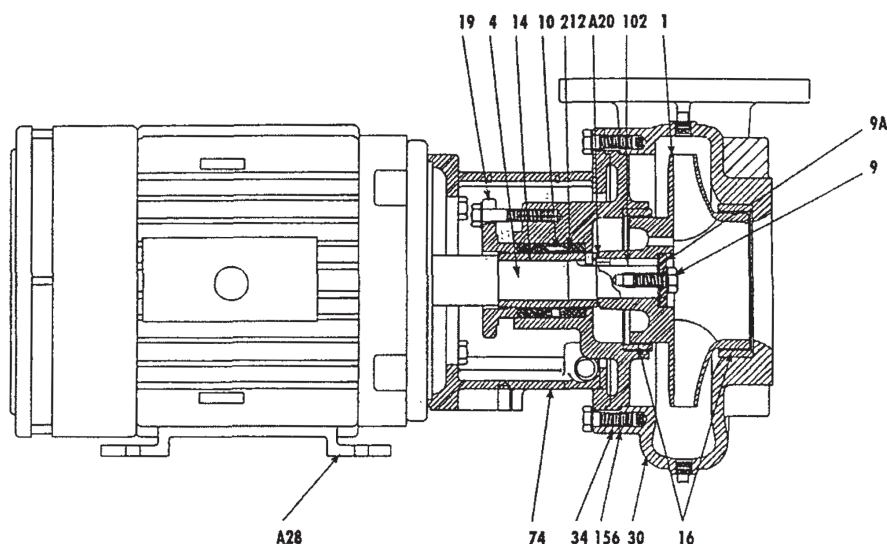
Options to Basic Pumps

Description	Material	Spec (I)	Material	Spec (I)	Material	Spec (I)
Wear Ring, Impeller (Front)	Bronze	B62	Bronze	B62	Cast Iron	A48-CL30
Wear Ring, Impeller (Rear)	Bronze	B62	Bronze	B62	Cast Iron	A48-CL30

(I) All material designations are ASTM unless otherwise noted.

Technical Data – 1500 Single Stage End Suction Pumps

Horizontal Bilttogether Assembly, Material Specification



Horizontal Bilttogether Model 1550

Ref. No.	Description	Standard Fitted		Bronze Fitted		All Iron Fitted		All Bronze Fitted	
		Material	Spec (1)	Material	Spec (1)	Material	Spec (1)	Material	Spec (1)
1	Impeller	Cast Iron	A48-CL30	Bronze	CDA 87500	Cast Iron	A48-CL30	Bronze	CDA 87500
4	Shaft	Steel	AISI C1045	Steel	AISI C1045	Steel	AISI C1045	Steel	AISI C1045
9	Bolt, Impeller	Steel	SAE #5	Steel	SAE #5	Steel	SAE #5	Steel	SAE #5
9A	Washer, Impeller	Steel	Wrought	Steel	Wrought	Steel	Wrought	Steel	Wrought
14	Sleeve, Shaft	Bronze	B62	Bronze	B62	Cast Iron	A48-CL30	Bronze	B62
16	Wear Ring, Case (Front)	Bronze	B62	Bronze	B62	Cast Iron	A48-CL30	Bronze	B62
16	Wear Ring, Case (Rear)	Bronze	B62	Bronze	B62	Cast Iron	A48-CL30	Bronze	B62
19	Gland	Cast Iron	A48-CL30	Bronze	B62	Cast Iron	A48-CL30	Bronze	B62
A20	O-ring, Sleeve	Rubber	Buna-N	Rubber	Buna-N	Rubber	Buna-N	Rubber	Buna-N
30	Volute	Cast Iron	A48-CL30	Cast Iron	A48-CL30	Cast Iron	A48-CL30	Bronze	B62
34	Cover	Cast Iron	A48-CL30	Cast Iron	A48-CL30	Cast Iron	A48-CL30	Bronze	B62
74	Motor Bracket	Cast Iron	A48-CL30	Cast Iron	A48-CL31	Cast Iron	A48-CL32	Cast Iron	A48-CL33
102	Key, Impeller	Steel	Wrought	Steel	Wrought	Steel	Wrought	Steel	Wrought
156	Gasket, Volute	Nitrile	Butadiene Cellulose	Nitrile	Butadiene Cellulose	Nitrile	Butadiene Cellulose	Nitrile	Butadiene Cellulose
212	Packing	Synthetic Packing, Graphite Impregnated	J.C. C1065/C1066 Durametallc TGF	Synthetic Packing, Graphite Impregnated	J.C. C1065/C1066 Durametallc TGF	Synthetic Packing, Graphite Impregnated	J.C. C1065/C1066 Durametallc TGF	Synthetic Packing, Graphite Impregnated	J.C. C1065/C1066 Durametallc TGF

Options to Basic Pumps

Ref. No.	Description	Material	Spec (1)	Material	Spec (1)	Material	Spec (1)	Material	Spec (1)
10	Lantern Ring	PTFE Coating	Commercial	PTFE Coating	Commercial	PTFE Coating	Commercial	PTFE Coating	Commercial
17	Wear Ring, Impeller (Front)	Bronze	B62	Bronze	B62	Cast Iron	A48-CL30	Bronze	B62
17	Wear Ring, Impeller (Rear)	Bronze	B62	Bronze	B62	Cast Iron	A48-CL30	Bronze	B62
31	Gland, Solid	Cast Iron	A48-CL30	Bronze	B62	Cast Iron	A48-CL30	Bronze	B62
456	Mechanical Seal	-	-	-	-	-	-	-	-

(1) All material designations are ASTM unless otherwise noted.

Technical Data – 2500 Single Stage End Suction Pumps

Horizontal Bilttogether Material Specification and Parts List

Horizontal Bilttogether Model 2550

Description	Standard Fitted		Bronze Fitted		All Iron Fitted		All Bronze Fitted	
	Material	Spec (1)	Material	Spec (1)	Material	Spec (1)	Material	Spec (1)
Impeller	Cast Iron	A48-CL30	Bronze	CDA 87500	Cast Iron	A48-CL30	Bronze	CDA 87500
Shaft	Steel	AISI C1045	Steel	AISI C1045	Steel	AISI C1045	Steel	AISI C1045
Bolt, Impeller	Steel	SAE #5	Steel	SAE #5	Steel	SAE #5	Steel	SAE #5
Washer, Impeller	Steel	Wrought	Steel	Wrought	Steel	Wrought	Steel	Wrought
Sleeve, Shaft	Bronze	B62	Bronze	B62	Cast Iron	A48-CL30	Bronze	B62
Wear Ring, Case (Front)	Bronze	B62	Bronze	B62	Cast Iron	A48-CL30	Bronze	B62
Wear Ring, Case (Rear)	Bronze	B62	Bronze	B62	Cast Iron	A48-CL30	Bronze	B62
O-ring, Sleeve	Rubber	Buna-N	Rubber	Buna-N	Rubber	Buna-N	Rubber	Buna-N
Volute	Cast Iron	A48-CL30	Cast Iron	A48-CL30	Cast Iron	A48-CL30	Bronze	B62
Cover	Cast Iron	A48-CL30	Cast Iron	A48-CL30	Cast Iron	A48-CL30	Bronze	B62
Motor Bracket	Cast Iron	A48-CL30	Cast Iron	A48-CL31	Cast Iron	A48-CL32	Cast Iron	A48-CL33
Key, Impeller	Steel	Wrought	Steel	Wrought	Steel	Wrought	Steel	Wrought
Gasket, Volute	Nitrile	Butadiene Cellulose	Nitrile	Butadiene Cellulose	Nitrile	Butadiene Cellulose	Nitrile	Butadiene Cellulose
Mechanical Seal	303 Stainless Steel Metal Parts, Buna-N Elastomer Parts, Ni-Resist Seat and Carbon Washer						303 Stainless Steel Metal Parts, Viton® Elastomer, Ceramic Seat and Carbon Washer	

Options to Basic Pumps

Description	Material	Spec (1)	Material	Spec (1)	Material	Spec (1)	Material	Spec (1)
Wear Ring, Impeller (Front)	Bronze	B62	Bronze	B62	Cast Iron	A48-CL30	Bronze	B62
Wear Ring, Impeller (Rear)	Bronze	B62	Bronze	B62	Cast Iron	A48-CL30	Bronze	B62

(1) All material designations are ASTM unless otherwise noted.

Technical Data – 1500 and 2500 Single Stage End Suction Pumps

Engineering Details

Material of Construction

Model 2520					Model 1520						
PUMP SIZE	3500 RPM	2880 RPM	1750/1440 RPM	1150/960 RPM	PUMP SIZE	3500 RPM	3000 RPM	1750/1440 RPM		1150/960 RPM	
						ENC.	ENC.	ENC.	SEMI.	ENC.	SEMI.
1-1/4" 2521	1	1	1	*	1-1/4" 1521	1	1	1	1	*	*
1-1/4" 2522B	*	*	1	*	1-1/4" 1522B	*	*	1	*	*	*
1-1/2" 2521	1	1	1	*	1-1/2" 1521	1	1	1	1	*	*
1-1/2" 2522A	*	*	1	*	1-1/2" 1522A	*	*	1	2	*	1
1-1/2" 2522B	*	*	1	*	1-1/2" 1522B	*	*	1	*	*	*
1-1/2" 2522C	2	2	1	*	1-1/2" 1522C	2	2	1	*	*	*
1-1/2" 2523	3	3	2	2	1-1/2" 1523	*	*	2	*	2	*
1-1/2" 2524	*	*	2	2	1-1/2" 1524	*	*	2	3	2	2
2" 2521A	2	2	1	*	2" 1521A	2	2	1	1	*	*
2" 2521B	1	1	1	*	2" 1521B	1	1	1	*	*	*
2" 2522	3	3	1	*	2" 1522	3	3	1	*	*	*
2" 2523	*	*	2	2	2" 1523	*	*	2	*	2	*
2" 2524	*	3	2	2	2" 1524	*	*	2	*	2	*
2-1/2" 2521A	1	1	1	*	2-1/2" 1521A	2	2	1	1	*	*
2-1/2" 2521B	2	2	1	*	2-1/2" 1521B	2	2	1	*	*	*
2-1/2" 2522	3	3	1	*	2-1/2" 1522	3	3	2	2	*	2
2-1/2" 2523	*	*	2	2	2-1/2" 1523	*	*	3	3	2	2
3" 2521A	3	3	1	*	3" 1521A	3	3	2	*	*	*
3" 2521B	3	3	1	*	3" 1521B	3	3	2	*	*	*
3" 2522	*	3	2	2	3" 1522	*	*	2	*	2	*
3" 2523	*	*	3	2	3" 1523	*	*	3	3	2	2
4" 2521A	2	2	1	*	4" 1521A	2	2	1	*	*	*
4" 2521B	2	2	1	*	4" 1521B	2	2	1	1	*	*
4" 2522A	3	3	2	*	4" 1522A	3	3	2	*	*	*
4" 2522B	*	*	2	*	4" 1522B	*	*	2	2	*	2
4" 2523	*	3	2	2	4" 1523	*	*	3	*	2	*
4" 2524	*	*	3	2	4" 1524	*	*	3	3	2	2
5" 2521	*	3	3	2	5" 1521	*	*	3	*	2	*
5" 2522	*	*	3	2	5" 1522	*	*	3	3	3	2
6" 2521	*	*	2	2	6" 1521	*	*	2	2	2	2
6" 2522	*	3	3	2	6" 1522	*	*	3	*	2	*
6" 2522A	*	*	3	2	6" 1522A	*	*	3	*	2	*
6" 2523B	*	*	3	3	6" 1523B	*	*	3	*	3	*
6" 2524	*	*	*	*	6" 1524	*	*	21	*	21	*
8" 2524	*	*	*	*	8" 1524	*	*	21	*	21	*

* = Not Available

ENC = Enclosed Impeller

SEMI = Semiopen Impeller (Optional)