PENTAIR

3312 Model

3314 Model

3311 Model

AURORA® 3310 SERIES
HORIZONTAL AND VERTICAL CLOSE-COUPLED PUMPS

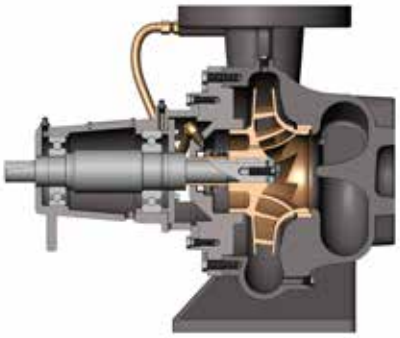
WWW.AURORAPUMP.COM

AURORA® 3310 SERIES
Horizontal and Vertical Close-Coupled Pumps

Capacities to 3800 G.P.M. (863 M³/HR)
Heads to 450 Feet (137 Meters)
Temperatures to 275°F (135°C)
Designed to Conserve Floor Space and Reduce Installation Cost

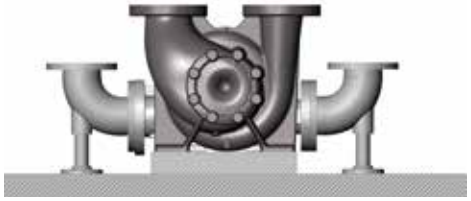
The new 3310 Series pumps are designed to satisfy the increased demand for a compact, low installation cost pump. Available in close-coupled or power frame configurations, these pumps save costs by reducing required floor space by 40% when used in the horizontal configuration, or 60% when used in the vertical configuration.

With capacities from 70 to 3,800 GPM (16 – 863 m³/hr) and heads from 40 to 240 feet (12 – 137 m) these pumps are designed to be piping interchangeable with common vertical split-case pumps. The 300 psi case working pressure supports the expanded range of application of these pumps.



Standard Features

- Horizontal and vertical close-coupled configuration.
- Horizontal power frame configuration.
- Load-bearing suction and discharge flanges.
- Cast iron, bronze fitted construction.
- Double volute on 6" discharge and larger to reduce bearing loads.
- Heavy-duty power frame with regreaseable bearings for long life.
- Grease fittings are conveniently located for quick accessibility and provide positive bearing lubrication.
- Bearings selected for 3 year minimum life at maximum load. Average bearing life 5 x minimum.
- Gauge taps on suction and discharge flanges.
- Casing feet for easy back pullout simplifies disassembly – suction and discharge piping are undisturbed.
- Precision cast, dynamically balanced impeller.
- Hydrostatic test of pumps at factory guarantees casting and seal integrity.
- Bronze shaft sleeve prevents shaft wear, is slip fit over the shaft, and extends the full length of seal box.
- Mechanical seal has carbon against ceramic face for optimum endurance.
- Long mechanical seal life is also assured with 316 stainless steel metal parts and Buna-N elastomer.
- Carbon steel shaft designed for minimum deflection, not to exceed .002" at the sealing faces at maximum load.



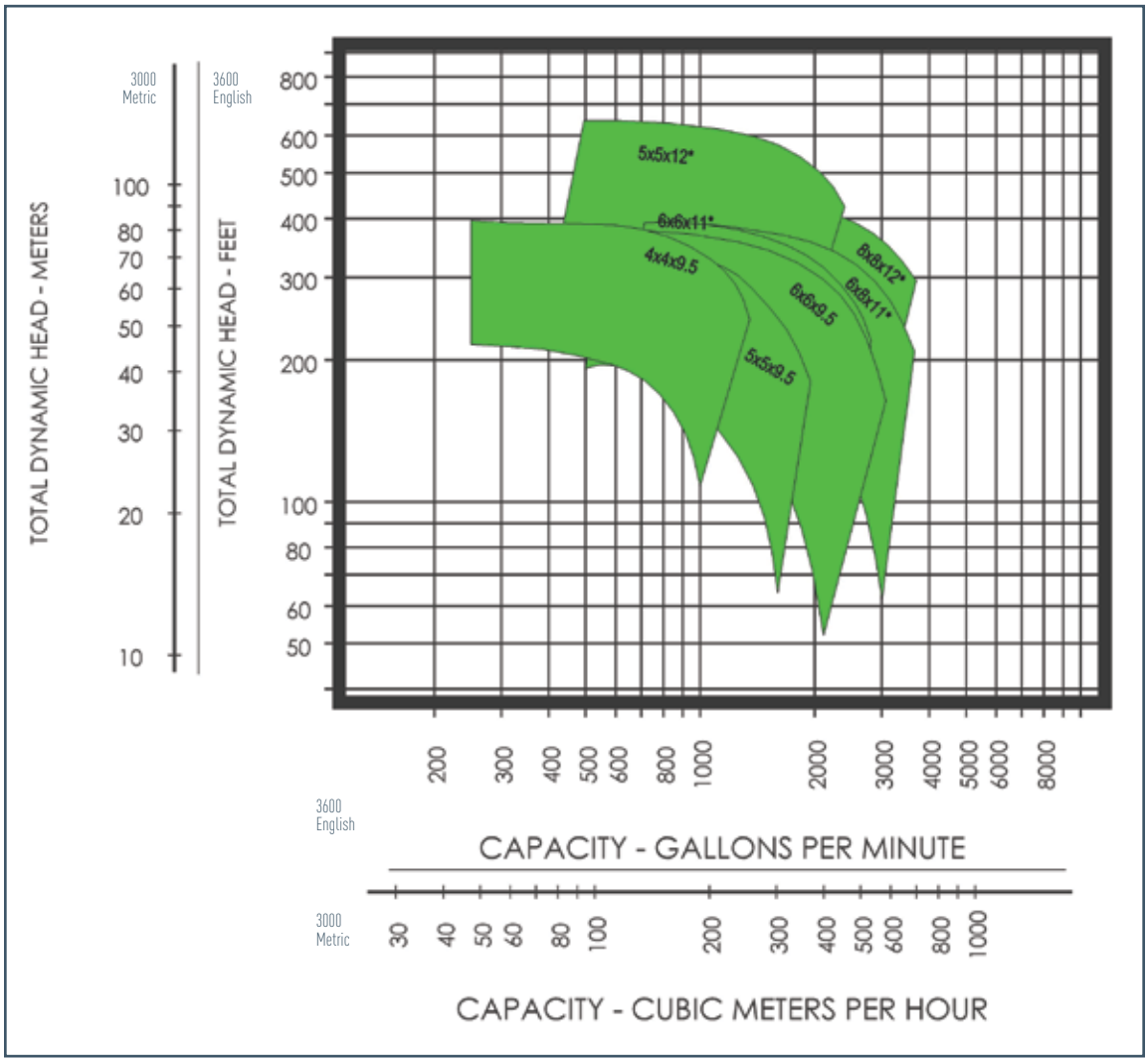
Optional Features

- Coupling guard.
- Formed steel bases.
- Fabricated steel drip-rim bases.
- 316 stainless steel sleeve.
- Stainless steel shaft.
- Bronze casing wear ring.
- External flush lines.
- High-temperature mechanical seals.
- #250 suction and discharge flange drillings.
- Abrasive separators.

- Reduces required floor space by up to 40% with horizontal configuration.
- Reduces required floor space by up to 60% with vertical configuration
- Reduces installation cost by minimizing the need for piping supports.

Performance Data

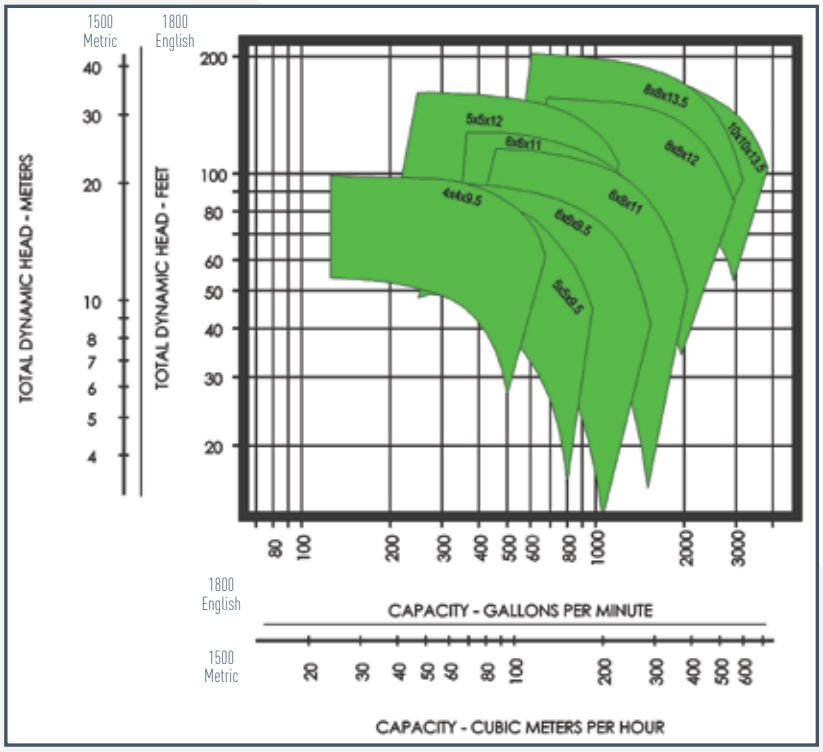
3000/3600 RPM



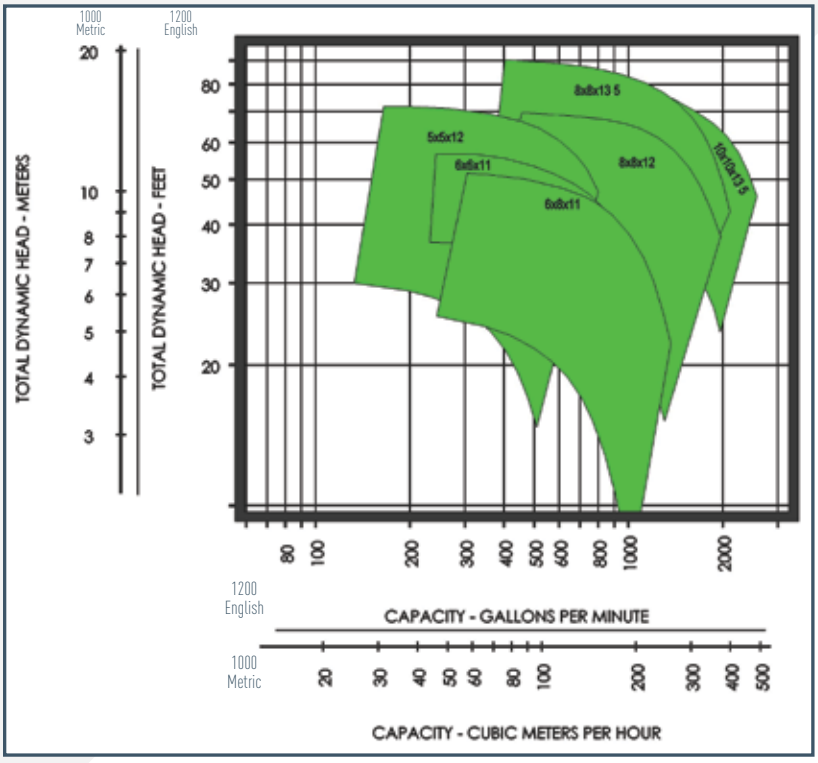
NOTE: Individual performance curves should be checked for final selection.
For selections not shown on this chart, please refer to the factory.

Performance Data

1500/1800 RPM

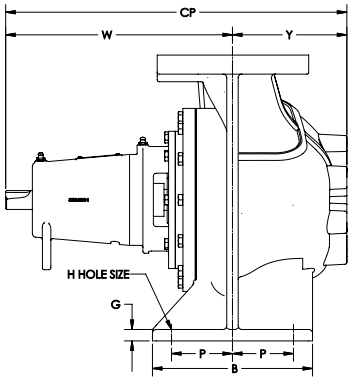


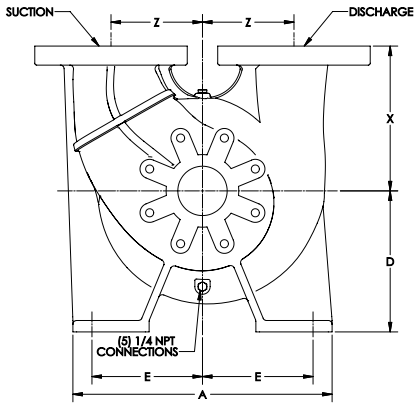
1000/1200 RPM



NOTE: Individual performance curves should be checked for final selection
For selections not shown on this chart, please refer to the factory.

Dimensional Data – 3314



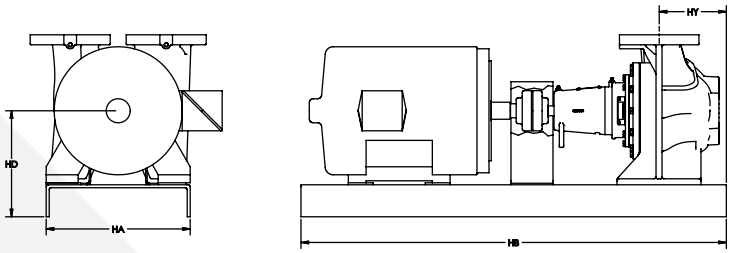


Pump Size	Discharge	Suction	D	X	Y	Z	P	B	G	H	E	A	W	CP	U	V	Key
4x4x9.5S	4	4	9.25 (235)	9.50 (241)	7.50 (191)	6.00 (152)	4.00 (102)	10.50 (267)	0.75 (019)	0.75 (019)	7.50 (191)	17.00 (432)	11.56 (294)	19.06 (484)	1.00 (025)	1.63 (041)	.25(6) SQ. x 1.250(30) LNG
4x4x9.5L	4	4	9.25 (235)	9.50 (241)	7.50 (191)	6.00 (152)	4.00 (102)	10.50 (267)	0.75 (019)	0.75 (019)	7.50 (191)	17.00 (432)	14.81 (376)	22.31 (567)	1.25 (032)	1.75 (044)P	.25(6) SQ. x 1.250(30) LNG
5x5x9.5S	5	5	9.25 (235)	10.50 (267)	8.75 (222)	7.25 (184)	4.00 (102)	11.50 (292)	0.75 (019)	0.75 (019)	7.50 (191)	19.50 (495)	11.75 (298)	20.50 (521)	1.00 (025)	1.63 (041)	.25(6) SQ. x 1.250(30) LNG
5x5x9.5L	5	5	9.25 (235)	10.50 (267)	8.75 (222)	7.25 (184)	4.00 (102)	11.50 (292)	0.75 (019)	0.75 (019)	7.50 (191)	19.50 (495)	14.88 (378)	23.63 (600)	1.25 (032)	1.75 (044)	.25(6) SQ. x 1.250(30) LNG
5x5x12S	5	5	9.25 (235)	11.50 (292)	8.75 (222)	8.00 (203)	4.00 (102)	11.50 (292)	0.75 (019)	0.75 (019)	7.50 (191)	19.00 (483)	12.08 (307)	20.83 (529)	1.00 (025)	1.63 (041)	.25(6) SQ. x 1.250(30) LNG
5x5x12L	5	5	9.25 (235)	11.50 (292)	8.75 (222)	8.00 (203)	4.00 (102)	11.50 (292)	0.75 (019)	0.75 (019)	7.50 (191)	19.00 (483)	14.46 (367)	23.21 (590)	1.25 (032)	1.75 (044)	.25(6) SQ. x 1.250(30) LNG
5x5x12XL	5	5	9.25 (235)	11.50 (292)	8.75 (222)	8.00 (203)	4.00 (102)	11.50 (292)	0.75 (019)	0.75 (019)	7.50 (191)	19.00 (483)	18.61 (473)	27.36 (695)	1.88 (048)	3.50 (089)	.50(13) SQ. x 2.63(67) LNG
6x6x9.5S	6	6	10.50 (267)	11.50 (292)	9.75 (248)	8.00 (203)	7.00 (178)	17.00 (432)	0.88 (022)	0.88 (022)	10.50 (267)	26.00 (660)	12.06 (306)	21.81 (554)	1.00 (025)	1.63 (041)	.25(6) SQ. x 1.250(30) LNG
6x6x9.5L	6	6	10.50 (267)	11.50 (292)	9.75 (248)	8.00 (203)	7.00 (178)	17.00 (432)	0.88 (022)	0.88 (022)	10.50 (267)	26.00 (660)	15.19 (386)	24.94 (633)	1.25 (032)	1.75 (044)	.25(6) SQ. x 1.250(30) LNG
6x6x11S	6	6	10.88 (276)	12.13 (308)	10.25 (260)	8.75 (222)	7.00 (178)	17.00 (432)	0.75 (019)	0.88 (022)	10.50 (267)	26.00 (660)	11.04 (280)	21.29 (541)	1.00 (025)	1.63 (041)	.25(6) SQ. x 1.250(30) LNG
6x6x11L	6	6	10.88 (276)	12.13 (308)	10.25 (260)	8.75 (222)	7.00 (178)	17.00 (432)	0.75 (019)	0.88 (022)	10.50 (267)	26.00 (660)	13.75 (349)	24.00 (610)	1.25 (032)	1.75 (044)	.25(6) SQ. x 1.250(30) LNG
6x8x11L	6	8	10.88 (276)	12.13 (308)	11.13 (283)	8.25 (210)	7.00 (178)	17.00 (432)	0.75 (019)	0.88 (022)	10.50 (267)	24.00 (610)	15.17 (385)	26.30 (668)	1.25 (032)	1.75 (044)	.25(6) SQ. x 1.250(30) LNG
6x8x11XL	6	8	10.88 (276)	12.13 (308)	11.13 (283)	8.25 (210)	7.00 (178)	17.00 (432)	0.75 (019)	0.88 (022)	10.50 (267)	24.00 (610)	19.28 (490)	30.41 (772)	1.88 (048)	3.50 (089)	.50(13) SQ. x 2.63(67) LNG
8x8x12L	8	8	10.88 (276)	13.63 (346)	10.13 (257)	8.50 (216)	7.00 (178)	17.00 (432)	0.75 (019)	0.88 (022)	10.50 (267)	26.00 (660)	15.17 (385)	25.30 (643)	1.25 (032)	1.75 (044)	.25(6) SQ. x 1.250(30) LNG
8x8x12XL	8	8	10.88 (276)	13.63 (346)	10.13 (257)	8.50 (216)	7.00 (178)	17.00 (432)	0.75 (019)	0.88 (022)	10.50 (267)	26.00 (660)	19.28 (490)	29.41 (747)	1.88 (048)	3.50 (089)	.50(13) SQ. x 2.63(67) LNG
8x8x13.5XL	8	8	13.13 (333)	12.88 (327)	10.88 (276)	9.50 (241)	7.00 (178)	17.00 (432)	0.75 (019)	0.88 (022)	10.50 (267)	24.00 (610)	18.56 (471)	29.44 (748)	1.88 (048)	3.50 (089)	.50(13) SQ. x 2.63(67) LNG
10x10x13.5XL	10	10	14.63 (371)	16.38 (416)	12.88 (327)	11.00 (279)	7.50 (191)	19.00 (483)	0.88 (022)	0.88 (022)	13.00 (330)	32.00 (813)	18.44 (468)	31.32 (795)	1.88 (048)	3.50 (089)	.50(13) SQ. x 2.63(67) LNG

S - denotes small power frame
L - denotes large power frame
XL - denotes extra large power frame

Notes:
1. Dimensions are approximate.
2. All dimensions are in inches (mm) and may vary +/- 1/4 (6).
3. Not for construction purposes unless certified.

Dimensional Data – 3314



Catalog Dimensions			145T	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
Motor "C" Dimension =>				12.75	13.75	16.00	17.00	20.50	22.25	23.25	22.00	25.00	23.50	26.00	24.50	27.50	26.00	28.50	26.50	29.50	27.50	32.50	29.50	34.00	31.00	37.75	34.00	39.75	36.00
Pump Size	Frame	Unit Dims																											
4x4x9.5	S	"HA" x "HB"		18 x 38	18 x 38	18 x 44	18 x 44	18 x 44	18 x 44		18 x 48		18 x 48		18 x 48		18 x 48												
		"HY"		8.25	8.25	8.25	8.25	8.25	8.25		8.25		8.25		8.25		8.25												
		"HD"		13.25	13.25	13.25	13.25	13.25	13.25		13.25		13.25		13.25		13.25												
	L	"HA" x "HB"																	18 x 54		18 x 54		22 x 54						
		"HY"																	8.25		8.25		8.25						
		"HD"																	13.25		13.25		14.00						
5x5x9.5	S	"HA" x "HB"			22 x 44	22 x 44	22 x 44	22 x 44	22 x 44				22 x 48		22 x 48		22 x 48												
		"HY"			8.25	8.25	8.25	8.25	8.25				8.25		8.25		8.25												
		"HD"			13.25	13.25	13.25	13.25	13.25				13.25		13.25		13.25												
	L	"HA" x "HB"																	22 x 54		22 x 54		22 x 60		22 x 60				
		"HY"																	8.25		8.25		8.25		8.25				
		"HD"																	13.25		13.25		14.00		14.00				
5x5x12	S	"HA" x "HB"				22 x 44	22 x 44	22 x 44	22 x 44	22 x 54		22 x 54																	
		"HY"				8.25	8.25	8.25	8.25	8.25		8.25																	
		"HD"				13.25	13.25	13.25	13.25	13.25		13.25																	
	L	"HA" x "HB"												22 x 54		22 x 54												
		"HY"												8.25		8.25												
		"HD"												13.25		13.25												
	XL	"HA" x "HB"																	22 x 60		22 x 60		22 x 60		22 x 64		22 x 64	22 x 64	22 x 64
		"HY"																	8.25		8.25		8.25		8.25		8.25	8.25	8.25
		"HD"																	13.25		13.25		14.00		14.00		15.00	15.00	15.00
6x6x9.5	S	"HA" x "HB"				26 x 54	26 x 54	26 x 54	26 x 54	26 x 54		26 x 54																	
		"HY"				11.50	11.50	11.50	11.50	11.50		11.50																	
		"HD"				14.50	14.50	14.50	14.50	14.50		14.50																	
	L	"HA" x "HB"															26 x 60		26 x 60		26 x 60		26 x 60		26 x 60		26 x 66	26 x 66	26 x 66
		"HY"															11.50		11.50		11.50		11.50		11.50		11.50	11.50	11.50
		"HD"															15.00		15.00		15.00		15.00		15.00		15.50	15.50	15.50
6x6x11	S	"HA" x "HB"				26 x 54	26 x 54	26 x 54	26 x 54	26 x 54																			
		"HY"				11.50	11.50	11.50	11.50	11.50																			
		"HD"				14.88	14.88	14.88	14.88	14.88																			
	L	"HA" x "HB"										26 x 54		26 x 54		26 x 60	26 x 60		26 x 60		26 x 60		26 x 60		26 x 66		26 x 66		
		"HY"										11.50		11.50		11.50	11.50		11.50		11.50		11.50		11.50		11.50		
		"HD"										14.88		14.88		15.38	15.38		15.38		15.38		15.38		15.38		15.50		
6x8x11	L	"HA" x "HB"				26 x 54	26 x 54	26 x 54	26 x 54	26 x 54		26 x 54		26 x 54		26 x 60	26 x 60		26 x 60										
		"HY"				11.50	11.50	11.50	11.50	11.50		11.50		11.50		11.50	11.50		11.50										
		"HD"				14.88	14.88	14.88	14.88	14.88		14.88		14.88		15.38	15.38		15.38										
	XL	"HA" x "HB"																			26 x 60		26 x 60		26 x 66		26 x 66		
		"HY"																			11.50		11.50		11.50		11.50		
		"HD"																			15.38		15.38		15.38		15.50		
8x8x12	L	"HA" x "HB"						26 x 54	26 x 54	26 x 54		26 x 54		26 x 54		26 x 60			26 x 60		26 x 60				26 x 60				
		"HY"						11.50	11.50	11.50		11.50		11.50		11.50			11.50		11.50				11.50				
		"HD"						14.88	14.88	14.88		14.88		14.88		15.38			15.38		15.38				15.38				
	XL	"HA" x "HB"																							26 x 60		26 x 66	26 x 72	26 x 72
		"HY"																							11.50		11.50	11.50	16.38
		"HD"																							15.38		15.50	15.50	15.50
8x8x13.5	XL	"HA" x "HB"								26 x 60		26 x 60		26 x 60		26 x 60		26 x 60		26 x 66	26 x 66		26 x 66		26 x 66		26 x 66		
		"HY"								11.50		11.50		11.50		11.50		11.50		11.50	11.50		11.50		11.50		11.50		
		"HD"								17.63		17.63		17.63		17.63		17.63		17.63	17.63		17.63		17.63		17.63		
10x10x13.5	XL	"HA" x "HB"								34 x 60		34 x 60		34 x 60		34 x 60		34 x 60	34 x 66	34 x 66	34 x 66		34 x 66		34 x 66		34 x 66		
		"HY"								12.50		12.50		12.50		12.50		12.50	12.50	12.50	12.50		12.50		12.50		12.50		
		"HD"								19.13		19.13		19.13		19.13		19.13	19.13	19.13	19.13		19.13		19.13		19.13		

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Notes:
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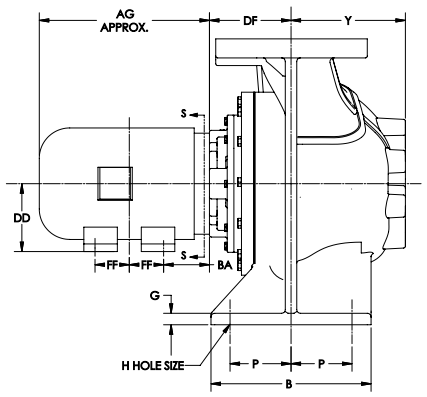
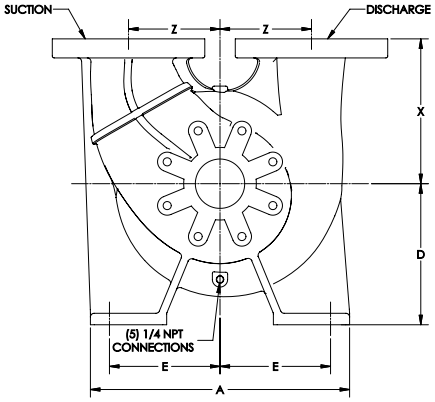
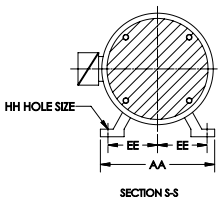
Dimensional Data – 3311/3312

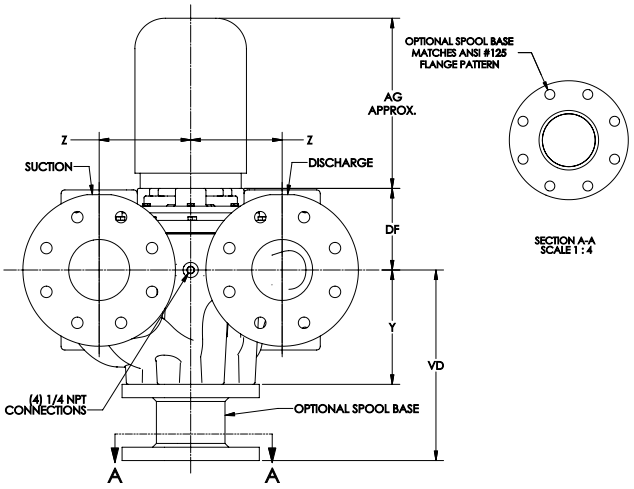






															143-184	213-215	254-256	284-326	364-405	444-449
Pump Size	Discharge	Suction	D	X	Y	Z	P	B	G	H	E	A	VD	OPTIONAL SPOOL BASE SIZE	DF	DF	DF	DF	DF	DF
4 x 4 x 9.5	4	4	9.25 (235)	9.50 (241)	7.50 (191)	6.00 (152)	4.00 (102)	10.50 (267)	0.75 (019)	0.75 (019)	7.50 (191)	17.00 (432)	12.50 (318)	4" FLANGE	4.60 (117)	4.57 (116)	5.09 (129)	5.09 (129)	7.28 (185)	7.28 (185)
5 x 5 x 9.5	5	5	9.25 (235)	10.50 (267)	8.75 (222)	7.25 (184)	4.00 (102)	11.50 (292)	0.75 (019)	0.75 (019)	7.50 (191)	19.50 (495)	13.75 (349)	6" FLANGE	4.75 (121)	4.76 (121)	5.14 (131)	5.14 (131)	7.40 (188)	7.40 (188)
5 x 5 x 12	5	5	9.25 (235)	11.50 (292)	8.75 (222)	8.00 (203)	4.00 (102)	11.50 (292)	0.75 (019)	0.75 (019)	7.50 (191)	19.00 (483)	13.75 (349)	6" FLANGE	5.38 (137)	5.38 (137)	5.37 (136)	8.59 (218)	7.41 (188)	7.41 (188)
6 x 6 x 9.5	6	6	10.50 (267)	11.50 (292)	9.75 (248)	8.00 (203)	7.00 (178)	17.00 (432)	0.88 (022)	0.88 (022)	10.50 (267)	26.00 (660)	14.75 (375)	6" FLANGE	4.58 (116)	4.59 (116)	5.46 (139)	5.46 (139)	7.65 (194)	7.65 (194)
6 x 6 x 11	6	6	10.88 (276)	12.13 (308)	10.25 (260)	8.75 (222)	7.00 (178)	17.00 (432)	0.75 (019)	0.88 (022)	10.50 (267)	26.00 (660)	15.25 (387)	6" FLANGE	–	4.311 (109)	4.821 (122)	7.712 (196)	6.953 (177)	6.953 (177)
6 x 8 x 11	6	8	10.88 (276)	12.13 (308)	11.13 (283)	8.25 (210)	7.00 (178)	17.00 (432)	0.75 (019)	0.88 (022)	10.50 (267)	24.00 (610)	16.13 (410)	8" FLANGE	–	–	6.267 (159)	9.293 (236)	8.077 (205)	8.077 (205)
8 x 8 x 12	8	8	10.88 (276)	13.63 (346)	10.13 (257)	8.50 (216)	7.00 (178)	17.00 (432)	0.75 (019)	0.88 (022)	10.50 (267)	26.00 (660)	15.13 (384)	8" FLANGE	–	–	6.267 (159)	9.293 (236)	8.077 (205)	8.077 (205)
8 x 8 x 13.5	8	8	13.13 (333)	12.88 (327)	10.88 (276)	9.50 (241)	7.00 (178)	17.00 (432)	0.75 (019)	0.88 (022)	10.50 (267)	24.00 (610)	15.88 (403)	8" FLANGE	–	–	–	8.349 (212)	7.366 (187)	7.366 (187)
10 x 10 x 13.5	10	10	14.63 (371)	16.38 (416)	12.88 (327)	11.00 (279)	7.50 (191)	19.00 (483)	0.88 (022)	0.88 (022)	13.00 (330)	32.00 (813)	17.88 (454)	8" FLANGE	–	–	–	7.739 (197)	7.241 (184)	7.241 (184)

JM/JP/TCZ Motor Frames							
Frame	AG Approx	AA	DD	EE	FF	HH	BA
143	10.00 (254)	7.00 (178)	3.50 (089)	2.75 (070)	2.00 (051)	0.34 (009)	2.38 (060)
145	11.00 (279)	7.00 (178)	3.50 (089)	2.75 (070)	2.50 (064)	0.34 (009)	2.38 (060)
182	11.00 (279)	9.00 (229)	4.50 (114)	3.75 (095)	2.25 (057)	0.41 (010)	2.88 (073)
184	12.00 (305)	9.00 (229)	4.50 (114)	3.75 (095)	2.75 (070)	0.41 (010)	2.88 (073)
213	14.00 (356)	10.50 (267)	5.25 (133)	4.25 (108)	2.75 (070)	0.41 (010)	3.75 (095)
215	15.00 (381)	10.50 (267)	5.25 (133)	4.25 (108)	3.50 (089)	0.41 (010)	3.75 (095)
254	17.50 (445)	12.50 (318)	6.25 (159)	5.00 (127)	4.13 (105)	0.53 (013)	4.50 (114)
256	19.00 (483)	12.50 (318)	6.25 (159)	5.00 (127)	5.00 (127)	0.53 (013)	4.50 (114)
284	19.00 (483)	14.00 (356)	7.00 (178)	5.50 (140)	4.75 (121)	0.53 (013)	5.00 (127)
286	21.00 (533)	14.00 (356)	7.00 (178)	5.50 (140)	5.50 (140)	0.53 (013)	5.00 (127)
324	22.00 (559)	16.00 (406)	8.00 (203)	6.25 (159)	5.25 (133)	0.66 (017)	5.50 (140)
326	23.00 (584)	16.00 (406)	8.00 (203)	6.25 (159)	6.00 (152)	0.66 (017)	5.50 (140)
364	24.00 (610)	18.00 (457)	9.00 (229)	7.00 (178)	5.63 (143)	0.66 (017)	6.13 (156)
365	24.00 (610)	18.00 (457)	9.00 (229)	7.00 (178)	6.13 (156)	0.66 (017)	6.13 (156)
404	27.25 (692)	20.00 (508)	10.00 (254)	8.00 (203)	6.13 (156)	0.81 (021)	6.88 (175)
405	28.75 (730)	20.00 (508)	10.00 (254)	8.00 (203)	6.88 (175)	0.81 (021)	6.88 (175)
444	31.13 (791)	22.00 (559)	11.00 (279)	9.00 (229)	7.25 (184)	0.81 (021)	7.75 (197)
445	31.13 (791)	22.00 (559)	11.00 (279)	9.00 (229)	8.25 (210)	0.81 (021)	7.75 (197)
447	39.63 (1006)	22.00 (559)	11.00 (279)	9.00 (229)	10.00 (254)	0.81 (021)	7.75 (197)
449	39.63 (1006)	22.00 (559)	11.00 (279)	9.00 (229)	12.50 (318)	0.81 (021)	7.75 (197)



3312 Model

Engineering Specifications

Flexible Close-Coupled Pumps

The contractor shall furnish (and install as shown on the plans) Aurora model (3311 horizontal close coupled) (3312 vertical close coupled) (3314 horizontal flexible coupled) back pullout centrifugal pump size___x___x___ of bronze fitted construction. Each pump shall have a capacity of___GPM at___ft. of total head, with a temperature of___°F,___specific gravity. Each pump is to be furnished with a mechanical seal with all metal parts to be 316 stainless steel with Buna-N elastomers, ceramic seat, and carbon washer. The unit must be equipped with (bronze) (stainless steel) shaft sleeve that extends the length of the seal plate. The pump shaft extension shall be gasket sealed from the pumped liquid. Impellers to be cast bronze, dynamically balanced, and key locked to the shaft.

Flexible Coupled-Frame Mounted (3314)

Pump and motor are to be mounted on a common (steel fabricated drip rim) (steel) baseplate. The shaft is to be (steel) (stainless steel), installed in a cast iron power frame. Pumps shall have a shaft design of .002" deflection at the seal face with the pump running under maximum load condition. Grease ball bearings have a 3-year minimum life (AFBMA B10) under the maximum condition of load. The pump shall be flexible coupled to a standard horizontal NEMA___hp___ phase___hertz___ volts ___RPM (open drip-proof) (totally enclosed fan cooled) (hazardous location) motor. Alignment shall be checked in accordance with the standards of the Hydraulic Institute after installation and there shall be no strain transmitted to the pumps.

Horizontal Close-Coupled (3311)

Each pump is to be close-coupled to a HI-NEMA-(JM) (JP) (TCZ) Series___ hp___ Phase___hertz___ volts ___RPM (open drip-proof) (totally enclosed fan cooled) motor. All 3311 models shall have motors supplied with feet.

Vertical Close-Coupled (3312)

Each pump is to be close-coupled to a HI-NEMA-(JM) (JP) (TCZ) Series.... hp.... Phase...hertz... volts ...RPM (open drip-proof) (totally enclosed fan cooled) motor.

Material of Construction	
Pump Part	Bronze Fitted
Casing	Cast Iron ASTM A48
Impeller	Bronze Various
Seal Plate/Motor Bracket	Cast Iron ASTM A48
Shaft	Steel AISI 1018
Sleeve	Bronze ASTM B62
Power Frame (3314) (Small, Large or X-Large)	Cast Iron ASTM A48
Mechanical Seal	316 Stainless Steel Metal Parts, Buna-N Elastomer Parts, Ceramic Seat And Carbon Washer

Design Details				
Area	Description	Power Frame		
		Small	Large	X-Large
Pump Shaft	Rotation–from driver end	CW	CW	CW
	Diameter at impeller	.88	1.25	1.63
	Diameter at shaft sleeve	1	1.38	1.75
	Diameter between bearings	1.94	2.50	2.56
	Diameter at coupling end	1	1.25	1.88
	Coupling key–square	.25	.25	.50
	Max. deflection at seal face	.002	.002	.002
Ball Bearings	Bearing (inboard radial)	6208	6309	6213
	Bearing (outboard thrust)	6308	6311	6313
	Bearing centers	3.63	5.44	7.25
	Bearing type	Ball	Ball	Ball
	Min B10 bearing life under maximum load	3 years	3 years	3 years
Sleeve	Outside diameter of sleeve	1.25	1.63	2

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