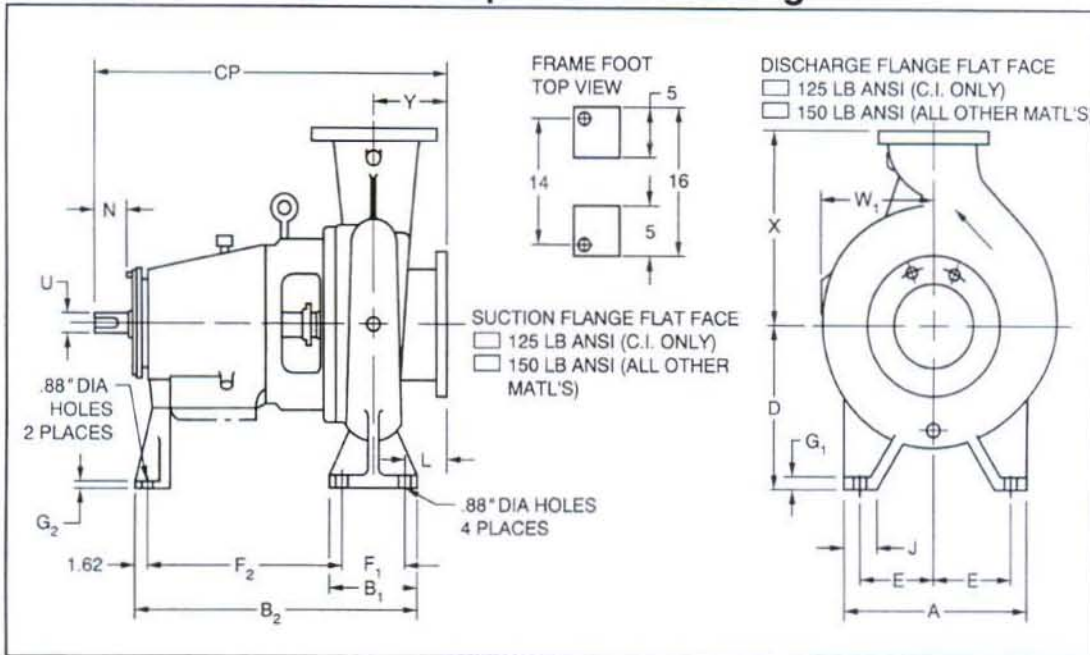




Heavy Duty Process Pumps Series 8175 Bare Pump Outline Drawing



DIMENSIONS DETERMINED BY PUMP SIZE																			
FRAME SIZE	DISCH SIZE	SUCT SIZE	CASE CLASS	A	B ₁	B ₂	D	E	F ₁	F ₂	G ₁	G ₂	J	L	X	Y	CP	W ₁	APPROX WT.
S	3	6	14	19.50	7	29.12	12.50	8.50	5	21.50	1	.75	3.50	4.75	13	7.25	39.75	9.75	745
S	4	6	14	19.50	7	29.12	12.50	8.50	5	21.50	1	.75	3.50	4.75	14.50	7.25	39.75	9.62	795
S	4	6	18	19.50	7	29.12	12.50	8.50	5	21.50	1	.75	3.50	4.75	16	7.25	39.75	11.38	920
S	6	8	14	19.50	7	29.12	12.50	8.50	5	21.50	1	.75	3.50	4.75	16	7.25	39.75	10.50	995
M	6	8	18	19.50	7	29.12	14.50	8.50	5	21.50	1	.75	3.50	4.75	18	7.25	39.75	11.88	1320
M	6	8	22	19.50	7	29.12	17	8.50	5	21.50	1	.75	3.50	4.75	21	7.25	39.75	14.38	1495
M	8	10	14	23.50	7	29.62	14.50	10.25	5	22	1	.75	3.50	5.62	19	8.12	41.12	11.38	1320
M	8	10	18	23.50	7	29.62	14.50	10.25	5	22	1	.75	3.50	5.62	21	8.12	41.12	12.50	1370
M	8	10	18H	23.50	7	29.62	17	10.25	5	22	1	.75	3.50	5.62	21	8.12	41.12	13.12	1495
M	8	10	22	23.50	7	29.62	17	10.25	5	22	1	.75	3.50	5.62	23	8.12	41.12	15	1570
M	10	12	18	23.50	7	29.62	20	10.25	5	22	1.25	1	3.50	5.62	23	8.12	41.12	14.31	1665
L	10	12	22	23.50	9	29.62	20	10.25	5	22	1.25	1	3.50	5.62	25	8.12	41.12	16.12	1750
L	12	14	18	26.75	9	31.25	20	12	7	21.62	1.25	1	4	5.38	25	8.88	42.50	15.50	1645
L	12	14	22	26.75	9	31.25	20	12	7	21.62	1.25	1	4	5.38	27	8.88	42.50	16.88	1995
L	14	14	18(H)	26.75	9	31.25	20	12	7	21.62	1.25	1	4	5.38	27	8.88	42.50	16.50	1710
L	14	14	22(H)	26.75	9	31.25	22	12	7	21.62	1.25	1	4	5.38	30	8.88	42.50	18.12	2385
L	16	18	22	26.75	9	31.25	28	12	7	21.62	1.25	1	4	9.25	32	12.75	47.38	18.12	3600
L	18	18	22	26.75	9	31.25	28	12	7	21.62	1.25	1	4	6.38	34	9.88	43.50	21	4500

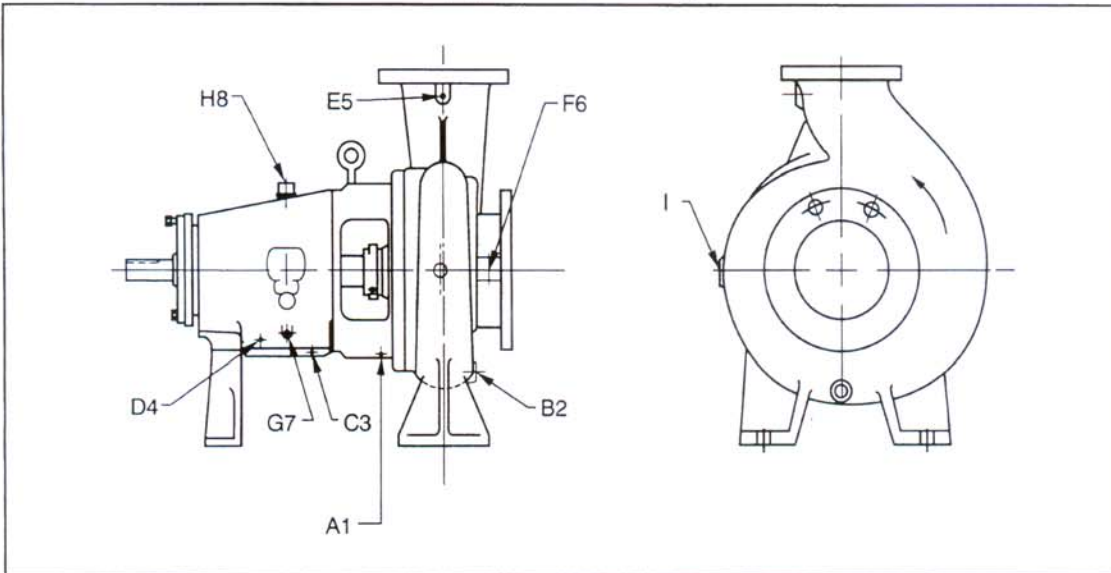
FLANGE DIMENSIONS - ANSI DIM			
I. D.	THICKNESS	NO. OF HOLES	SIZE OF HOLES
3	.75	4	.75
4	.937	8	.75
6	1	8	.87
8	1.13	8	.87
10	1.19	12	1
12	1.25	12	1
14	1.38	12	1.13
16	1.44	16	1.13
18	1.56	16	1.25
20	1.69	20	1.25

FRAME SIZE	DIMENSIONS DETERMINED BY FRAME SIZE		
	N	U	KEYWAY
S	4.88	1.875 1.874	.50 x .25 x 4.00
M	5	2.375 2.374	.63 x .31 x 4.75
L	5.50	3.375 3.374	.88 x .43 x 5.50

ALL DIMENSIONS IN INCHES.



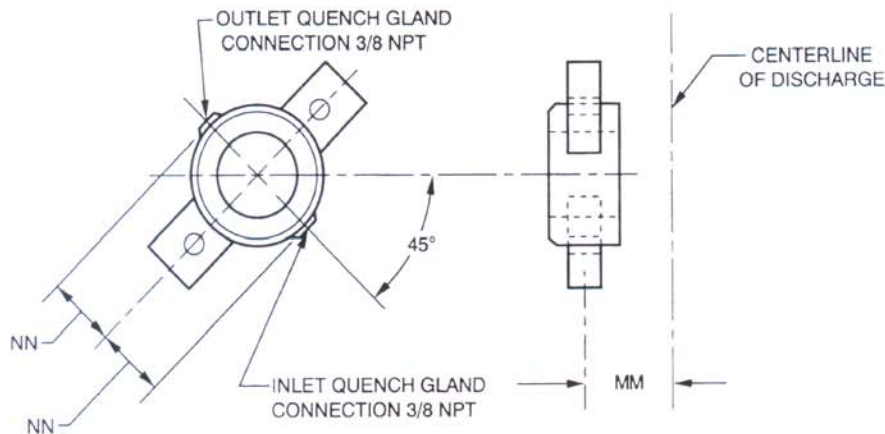
Heavy Duty Process Pumps Series 8175 Tapped Openings



TAPPED OPENINGS					
NO.	SIZE-NPT	NO. OF TAPS	PURPOSE	FURNISHED	
				YES	NO
A1	1	1	FRAME ADAPTER DRAIN	X	
B2	.75	1	CASING DRAIN	X*	
C3	.75	1	BEARING FRAME COOLING "IN"		
D4	.75	1	BEARING FRAME COOLING "OUT"		
E5	.5	1	DISCHARGE GAUGE CONNECTION	X*	
F6	.5	1	SUCTION GAUGE CONNECTION	X*	
G7	.375	1	BEARING FRAME DRAIN	X	
H8	.75	1	BEARING FRAME BREATHER	X	
I9	.5	1	STUFFING BOX CIRCULATION LINE		

* STANDARD ON C.I. AND 316 SS ONLY. OPTIONAL ON ALL OTHER MATERIALS

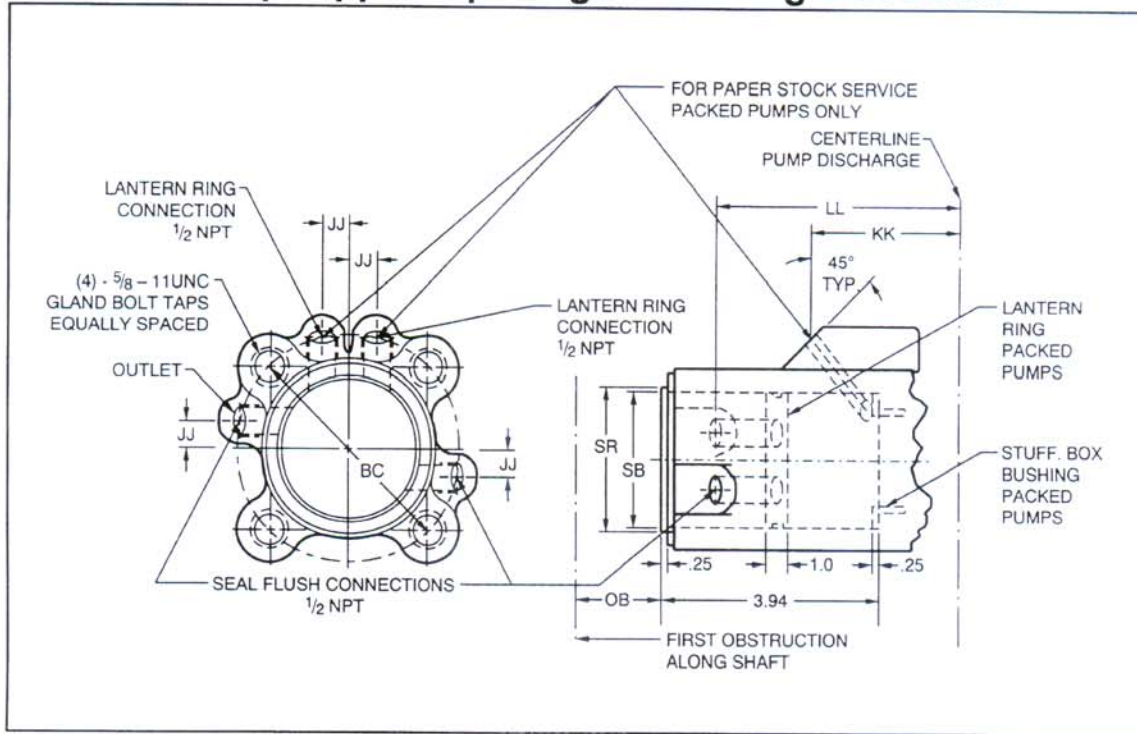
Packing Gland Detail



Subject to change without notice



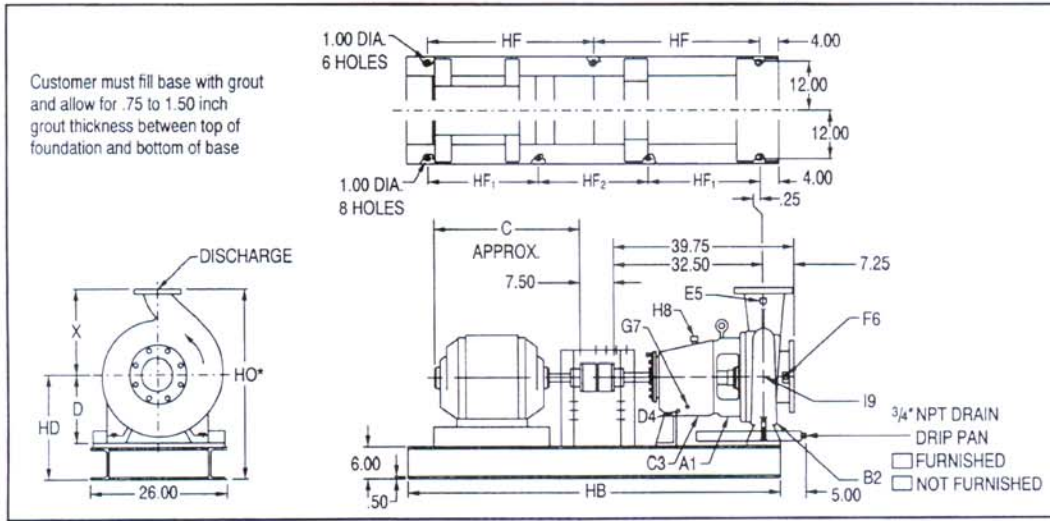
Heavy Duty Process Pumps Series 8175 Pump Tapped Openings & Stuffing Box Detail



PUMP SIZE				DIMENSIONS IN INCHES											
DISCH	SUUCT	CASING CLS.	PUMP FRAME	BC	JJ	KK	LL	MM	NN	OB	SB +.003 -.001	SR +.000 -.003	PACKING SIZE SQUARE	NO. OF PACKING RINGS	SHAFT SLEEVE DIA +.000 -.002
				3	6	14	S	6.25	1.00	4.00	5.00	7.38	2.25	3.13	4.000
4	6	14	S	6.25	1.00	4.00	5.00	7.38	2.25	3.13	4.000	4.748	.5	5	3.000
4	6	18	S	6.25	1.00	4.00	4.88	7.38	2.25	3.13	4.000	4.748	.5	5	3.000
6	8	14	S	6.25	1.00	4.00	5.00	7.38	2.25	3.13	4.000	4.748	.5	5	3.000
6	8	18	M	7.00	1.06	4.00	4.88	7.31	2.62	3.13	4.750	5.498	.5	5	3.750
6	8	22	M	7.00	1.06	4.12	4.88	7.31	2.62	3.13	4.750	5.498	.5	5	3.750
8	10	14	M	7.00	1.06	3.62	5.62	7.69	2.62	3.13	4.750	5.498	.5	5	3.750
8	10	18	M	7.00	1.06	4.50	5.38	7.69	2.62	3.13	4.750	5.498	.5	5	3.750
8	10	18H	M	7.00	1.06	4.50	5.38	7.69	2.62	3.13	4.750	5.498	.5	5	3.750
8	10	22	M	7.00	1.06	4.50	5.25	7.69	2.62	3.13	4.750	5.498	.5	5	3.750
10	12	18	M	7.00	1.06	4.50	5.38	7.69	2.62	3.13	4.750	5.498	.5	5	3.750
10	12	22	L	8.00	1.44	4.50	5.38	7.71	2.62	3.25	5.750	6.498	.5	5	4.750
12	14	18	L	8.00	1.44	4.94	5.80	8.15	3.12	3.25	5.750	6.498	.5	5	4.750
12	14	22	L	8.00	1.44	4.94	5.80	8.15	3.12	3.25	5.750	6.498	.5	5	4.750
14	14	18	L	8.00	1.44	4.94	5.80	8.15	3.12	3.25	5.750	6.498	.5	5	4.750
14	14	18H	L	8.00	1.44	4.94	5.80	8.15	3.12	3.25	5.750	6.498	.5	5	4.750
14	14	22	L	8.00	1.44	4.80	5.80	8.15	3.12	3.25	5.750	6.498	.5	5	4.750
14	14	22H	L	8.00	1.44	4.80	5.80	8.15	3.12	3.25	5.750	6.498	.5	5	4.750
16	18	22	L	8.00	1.44	5.00	6.00	8.34	3.12	3.25	5.750	6.498	.5	5	4.750
18	18	22	L	8.00	1.44	5.12	6.12	8.46	3.12	3.25	5.750	6.498	.5	5	4.750



Heavy Duty Process Pumps Series 8175 - S/M Frame Pump/Motor Outline Drawing



DIMENSIONS DETERMINED BY PUMP								
DISCH. SIZE	SUCTION SIZE	CASING CLASS	D	X	HD	HO*	BRG. FRAME	APPROX. WEIGHT (PUMP)
3	6	14	12.50	13	19.50	32.50	S	745
4	6	14	12.50	14.50	19.50	34.00	S	795
4	6	18	12.50	16	19.50	35.50	S	920
6	8	14	12.50	16	19.50	35.50	S	895
6	8	18	14.50	18	21.50	39.50	M	1320
6	8	22	17	21	24.00	45.00	M	1495

TAPPED OPENINGS					
NO.	SIZE	# OF TAP B	PURPOSE	FURNISHED AS STANDARD	
				YES	NO
A1	1	1	FRAME ADAPTER DRAIN	X	
B2	.75	1	CASING DRAIN (1)	X	
C3	.75	1	BRG. FRAME COOLING "IN"		
D4	.75	1	BRG. FRAME COOLING "OUT"		
E5	.5	1	DISCHARGE GAUGE CONN. (1)	X	
F6	.5	1	SUCTION GAUGE CONN. (1)	X	
G7	.375	1	BRG. FRAME DRAIN	X	
H8	.75	1	BRG. FRAME BREATHER	X	
I9	.50	1	STUFF BOX CIRCULATING LINE		

DIMENSIONS DETERMINED BY MOTOR		
MOTOR FRAME SIZE	ENCLOSED MOTORS	
	C	WT. INCL CPLG
213T	19	170
215T	21	190
254T	24	265
256T	26	300
284T	27	400
284TS	25	370
286T	28	435
286TS	27	425
324T	30	560
324TS	29	535
326T	32	620
326TS	30	600
364T	34	790
364TS	31	780
365T	35	875
365TS	32	860
404T	37	1095
404TS	37	1095
405T	37	1215
405TS	37	1205
444T	44	1500
444TS	41	1490
445T	46	1705
445TS	43	1670
447T	—	2300
447TS	—	2300

CERTIFIED DOCUMENT

APPROVAL CONSTRUCTION

SERIAL #: _____

ITEM: _____

DATE: _____

SIGNED: _____

ALL FLANGES
125# FF, ANSI STD. C.I. ONLY
150# FF, ANSI STD. ALL OTHER MATERIALS

(1) STANDARD ON CAST IRON AND 316SS PUMPS ONLY. OPTIONAL ON ALL OTHER MATERIALS.

*HO - ± .25 INCHES.

UNIT INSTALLATION AND FINAL COUPLING ALIGNMENT MUST BE DONE BY THE INSTALLING CONTRACTOR PER PEERLESS PUMP COMPANY INSTALLATION BULLETIN 2880549.

ALL DIMENSIONS IN INCHES.

CUSTOMER _____

PO# _____

SERVICE _____

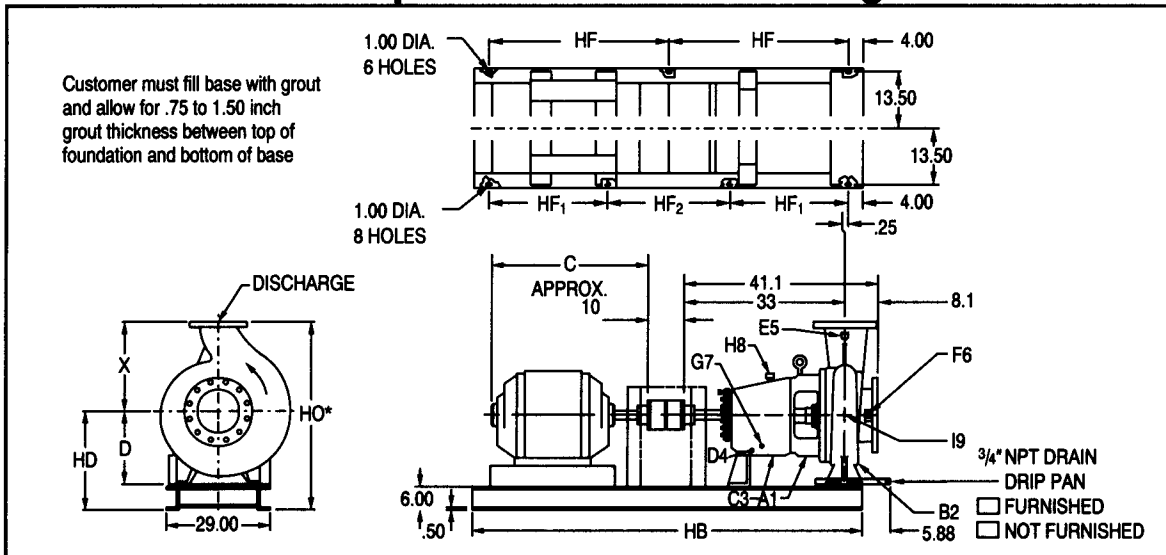
PUMP SIZE _____ MAT'L _____

GPM _____ TDH _____ RPM _____

BASEPLATE DIMENSIONS					
FABRICATED STEEL					
MOTOR FRAME	HB	HF	HF ₁	HF ₂	WGT.
213 - 215	66	29	-	-	530
254 - 286	72	32	-	-	700
324 - 405	84	38	-	-	740
444 - 445	96	-	29	30	780



Heavy Duty Process Pumps Series 8175 - M/L Frame Pump/Motor Outline Drawing



DIMENSIONS DETERMINED BY PUMP								
DISCH. SIZE	SUCTION SIZE	CASING CLASS	D	X	HD	HO*	BRG. FRAME	APPROX. WEIGHT (PUMP)
8	10	14	14.50	19	21.50	40.50	M	1320
8	10	18	14.50	21	21.50	42.50	M	1370
8	10	18H	17	21	24.00	45.00	M	1490
8	10	22	17	23	24.00	47.00	M	1570
10	12	18	20	23	27.00	50.00	M	1605
10	12	22	20	25	27.00	52.00	L	1755

TAPPED OPENINGS					
NO.	SIZE	# OF TAP B	PURPOSE	FURNISHED AS STANDARD	
				YES	NO
A1	1	1	FRAME ADAPTER DRAIN	X	
B2	.75	1	CASING DRAIN (1)		
C3	.75	1	BRG. FRAME COOLING "IN"		
D4	.75	1	BRG. FRAME COOLING "OUT"		
E5	.5	1	DISCHARGE GAUGE CONN. (1)	X	
F6	.5	1	SUCTION GAUGE CONN. (1)	X	
G7	.375	1	BRG. FRAME DRAIN	X	
H8	.75	1	BRG. FRAME BREATHER	X	
I9	.50	1	STUFF. BOX CIRCULATING LINE		

DIMENSIONS DETERMINED BY MOTOR		
MOTOR FRAME SIZE	ENCLOSED MOTORS	
	C	WT. INCL. CPLG.
254T	24	265
256T	26	300
284T	27	400
284TS	25	370
286T	28	435
286TS	27	425
324T	30	560
324TS	29	535
326T	32	620
326TS	30	600
364T	34	790
364TS	31	780
365T	35	875
365TS	32	860
404T	37	1095
404TS	37	1095
405T	37	1215
405TS	37	1205
444T	44	1500
444TS	41	1490
445T	46	1705
445TS	43	1670
447T	—	2300
447TS	—	2300

CERTIFIED DOCUMENT

APPROVAL CONSTRUCTION

SERIAL #: _____

ITEM: _____

DATE: _____

SIGNED: _____

ALL FLANGES
125# FF, ANSI STD. C.I. ONLY
150# FF, ANSI STD. ALL OTHER MATERIALS

(1) STANDARD ON CAST IRON AND 316SS PUMPS ONLY. OPTIONAL ON ALL OTHER MATERIALS.

*HO - ± .25 INCHES.

UNIT INSTALLATION AND FINAL COUPLING ALIGNMENT MUST BE DONE BY THE INSTALLING CONTRACTOR PER PEERLESS PUMP COMPANY INSTALLATION BULLETIN 2880549.

ALL DIMENSIONS IN INCHES.

CUSTOMER _____

PO# _____

SERVICE _____

PUMP SIZE _____ MAT'L _____

GPM _____ TDH _____ RPM _____

BASEPLATE DIMENSIONS					
FABRICATED STEEL					
MOTOR FRAMES	HB	HF	HF ₁	HF ₂	WGT.
254 - 256	72	32	—	—	700
284 - 365	84	38	—	—	740
404 - 447	96	—	29	30	810
449	102	—	31	32	860

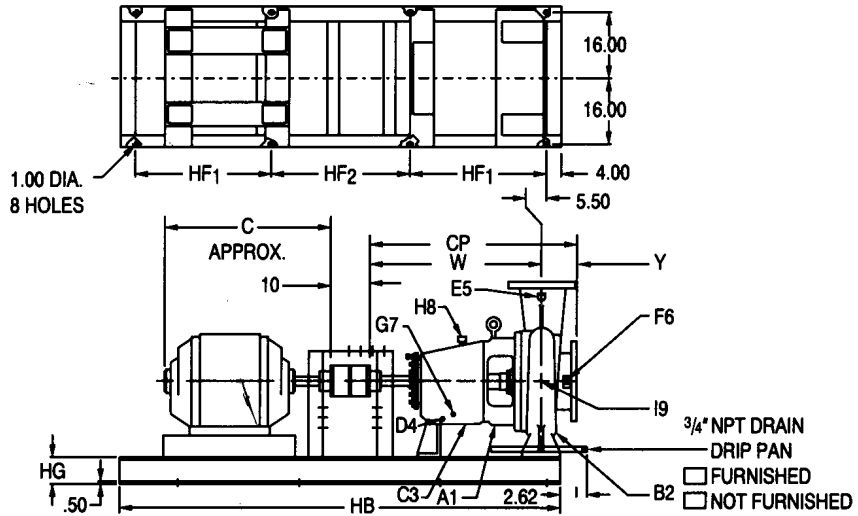
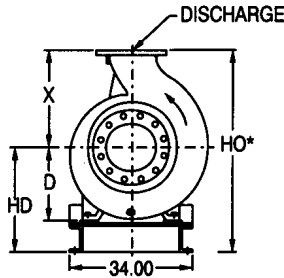
Subject to change without notice

**HEAVY DUTY PROCESS PUMPS
SERIES 8175 - L FRAME
Pump/Motor Outline Drawing**



Peerless Pump Company
Indianapolis, IN 46207-7026

Customer must fill base with grout and allow for .75 to 1.50 inch grout thickness between top of foundation and bottom of base



DIMENSIONS DETERMINED BY PUMP												
DISCH. SIZE	SUCTION SIZE	CASING CLASS	HD	HO	HG	D	X	Y	W	CP	BRG. FRAME	APPROX. WEIGHT (PUMP)
12	14	18	28.56	53.56	7.00	20.00	25.00	8.88	33.62	42.50	L	1645
12	14	22	28.56	55.56	7.00	20.00	27.00	8.88	33.62	42.50	L	1995
14	14	18 (H)	28.56	55.56	7.00	20.00	27.00	8.88	33.62	42.50	L	1710
14	14	22 (H)	30.56	60.56	7.00	22.00	30.00	8.88	33.62	42.50	L	2385
16	18	22	36.56	68.56	7.00	28.00	32.00	12.75	34.62	47.38	L	3900
18	18	22	36.56	70.56	7.00	28.00	34.00	9.88	33.62	43.50	L	4500

TAPPED OPENINGS					
NO.	SIZE	NO. OF TAPS B	PURPOSE	FURNISHED AS STANDARD	
				YES.	NO
A1	1	1	FRAME ADAPTER DRAIN	X	
B2	3/4	1	CASING DRAIN (3)	X	
C3	3/4	1	BRG. FRAME COOLING 'IN'		
D4	3/4	1	BRG. FRAME COOLING 'OUT'		
E5	1/2	1	DISCHARGE GAUGE CONN.	X	
F6	1/2	1	SUCTION GAUGE CONN.(3)	X	
G7	3/8	1	BRG. FRAME DRAIN (3)	X	
H8	3/4	1	BRG. FRAME BREATHER	X	
19	1/2	1	STUFF. BOX CIRCULATING LINE		

DIMENSIONS DETERMINED BY MOTOR		
MOTOR	ENCLOSED MOTORS	
FRAME SIZE	C	WT. INCL CPLG.
364T	34	790
364TS	31	780
365T	35	875
365TS	32	860
404T	38	1095
404TS	35	1095
405T	37	1215
405TS	36	1205
444T	45	1500
444TS	42	1490
445T	47	1705
445TS	44	1670
447T	51	2300
447TS	47	2300

CERTIFIED DOCUMENT
[] APPROVAL [] CONSTRUCTION
SERIAL NO. _____
ITEM: _____
DATE _____
SIGNED _____

ALL FLANGES
125 LB FF, C.I. ONLY
150 LB FF ANSI STD.,
ANSI STD. ALL
OTHER MATERIALS
*HO ± .25 INCHES.

CUSTOMER _____
P. O. NO. _____
SERVICE _____
PUMP SIZE _____ MAT'L _____
GPM _____ HEAD _____ RPM _____

- IMPORTANT NOTES**
- (1) UNIT INSTALLATION AND FINAL COUPLING ALIGNMENT MUST BE DONE BY THE INSTALLING CONTRACTOR PER PEERLESS PUMP COMPANY INSTALLATION BULLETIN 2880549.
 - (2) THIS DRAWING IS FOR FABRICATED STEEL BASEPLATES ONLY. CONTACT FACTORY FOR C.I. OUTLINE DRAWINGS.
 - (3) FURNISHED AS STANDARD ON ALL CAST IRON OR 316SS PUMPS. OPTIONAL ON ALL OTHER MATERIALS.
 - (4) ALL DIMENSIONS ARE IN INCHES..

BASEPLATE DIMENSIONS				
FABRICATED STEEL				
MOTOR FRAME	HB	HF1	HF2	WT. LBS
364-405	92	28	28	760
444-445	100	31	30	830
447-449	108	33	34	955

Subject to change without notice