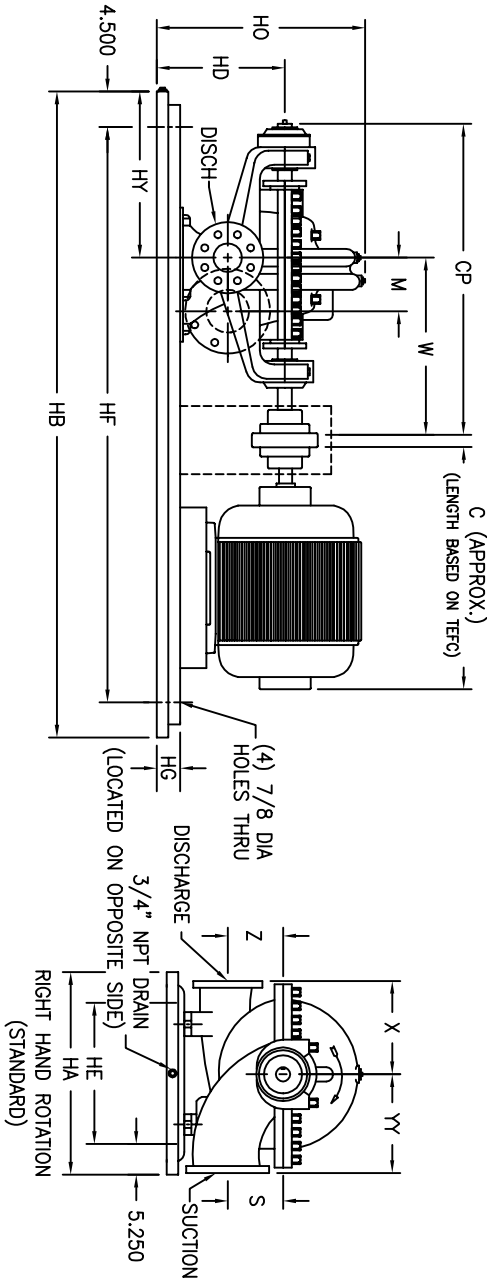


380 SERIES HH

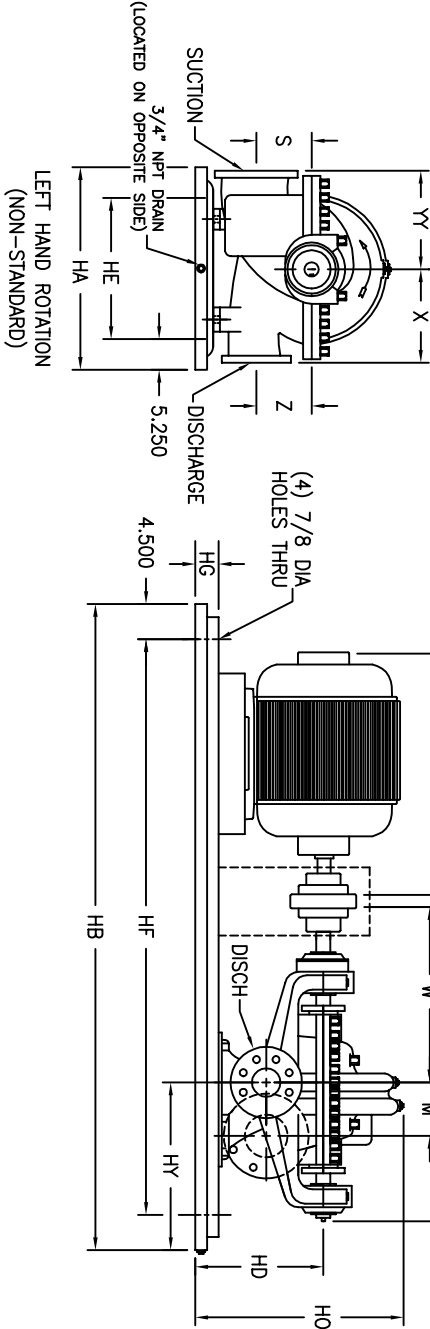


DRIP-DRIP RIM STEEL BASEPLATE

SUCTION	DISCHARGE
STD. 125# FLANGE	STD. 250# FLANGE
OPT. 250# FLANGE	



BASE #	BASEPLATE	HA	HB	HE	HF	HG
1	12 x 38	18,500	43,000	8,000	34,000	4,250
2	12 x 50	18,500	55,000	8,000	46,000	4,250
3	15 x 46	21,500	51,000	11,000	42,000	4,250
4	15 x 60	21,500	65,000	11,000	56,000	4,250
5	18 x 58	24,500	63,000	14,000	54,000	4,250
6	18 x 69	24,500	74,000	14,000	65,000	4,250
7	22 x 65	28,500	70,000	18,000	61,000	4,250
8	22 x 75	28,500	80,000	18,000	71,000	4,250
9	22 x 85	28,500	90,000	18,000	81,000	4,250



ALL DIMENSIONS ARE IN INCHES AND ± 0.375
NOT FOR CONSTRUCTION, UNLESS CERTIFIED BY ENGINEERING

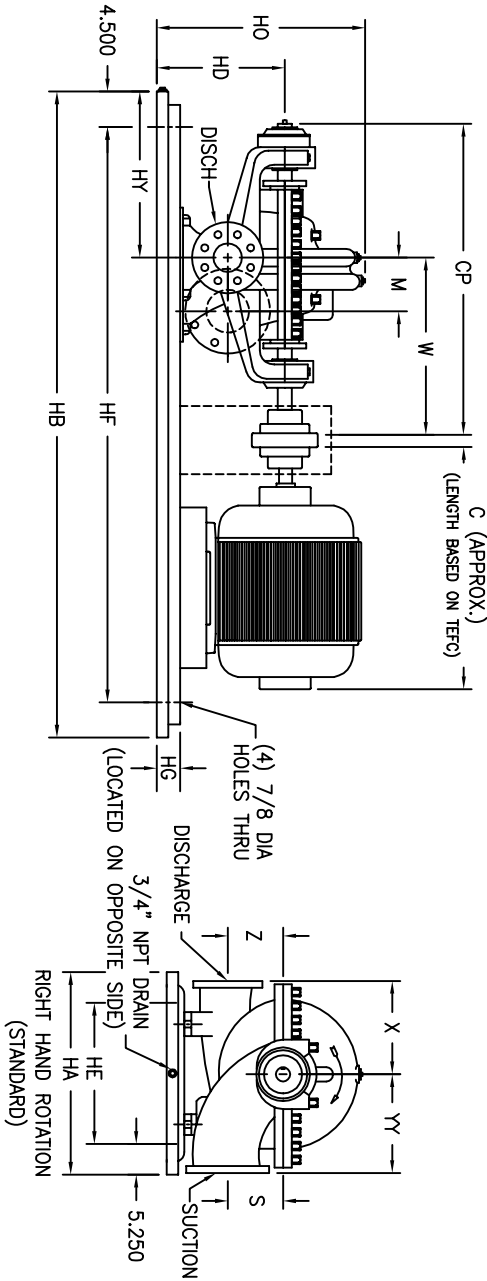
*ALL DIMENSIONS ARE IN INCHES AND ± 0.375																		
*NOT FOR CONSTRUCTION, UNLESS CERTIFIED BY ENGINEERING																	FRAME	
PUMP SIZE	CASE BORE	M	S	PURGE W (RH)	PURGE OIL W (LH)	OIL W (RH)	OIL W (LH)	X	Z	PURGE CP	OIL CP	HY (RH)	HY (LH)	YY	HD	HO		
DISCH	SUCT																	
1.5	2.5	8	3.438	4.563	15.938	14.563	16.313	14.938	7.500	4.563	26.125	28.750	11.813	14.188	8.000	12.563	18.313	C 13 13 16 17 19 20 24 26 28 27 31 29 31 29 33 31 33 31 36 33 38 35 43 40 45 42 49 45 55 51
1.5	2.5	10	3.500	5.563	15.938	14.563	16.313	14.938	8.500	5.563	26.125	28.750	11.688	13.938	9.000	13.563	19.438	
2	3	8	4.125	4.750	16.438	14.813	16.438	14.813	7.500	4.750	26.563	28.813	11.688	14.313	8.000	13.000	19.000	
2	3	10	4.750	5.688	15.813	13.813	17.500	15.500	8.500	5.688	26.438	30.375	12.063	14.938	9.000	14.438	21.188	
2.5	3	9	5.063	5.375	17.563	15.438	17.563	15.438	8.250	5.375	28.125	30.375	12.000	15.000	9.000	13.625	20.375	
3	4	9	5.938	5.500	17.813	15.438	18.188	15.813	8.750	5.500	28.563	31.188	12.375	16.125	9.750	14.750	21.750	
3	4	11	5.938	6.500	21.188	18.813	21.188	18.813	10.000	6.500	33.438	36.625	13.375	13.438	11.000	15.500	24.375	
4	5	11	7.000	6.625	19.938	17.063	22.438	19.563	11.000	6.625	33.125	38.250	14.500	17.500	12.000	16.500	25.000	
														</				

380 SERIES HH

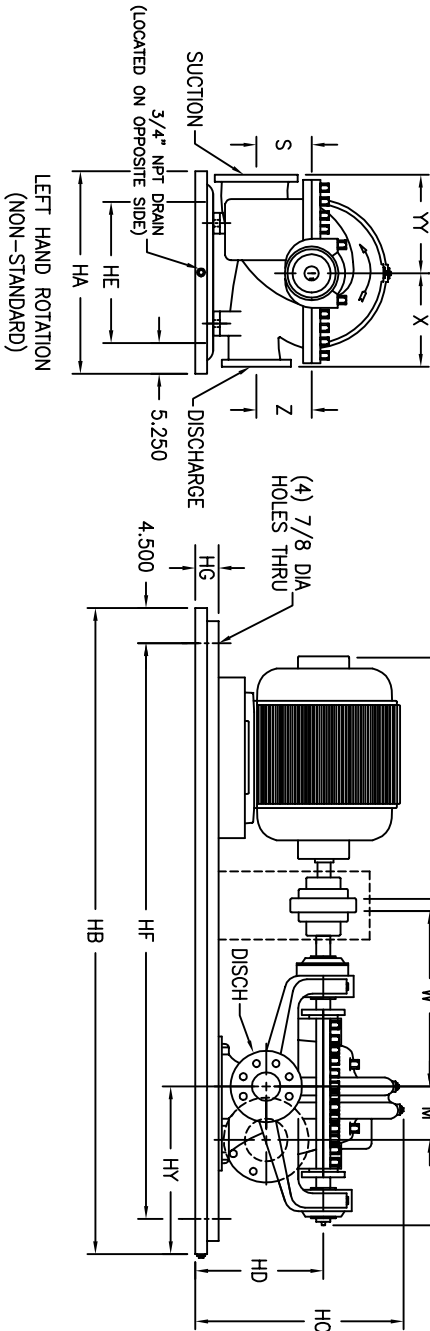


DRIP-DRIP RIM STEEL BASEPLATE

SUCTION	DISCHARGE
STD. 125# FLANGE	STD. 250# FLANGE
OPT. 250# FLANGE	



BASE #	BASEPLATE	HA	HB	HE	HF	HG
1	12 x 38	18,500	43,000	8,000	34,000	4,250
2	12 x 50	18,500	55,000	8,000	46,000	4,250
3	15 x 46	21,500	51,000	11,000	42,000	4,250
4	15 x 60	21,500	65,000	11,000	56,000	4,250
5	18 x 58	24,500	63,000	14,000	54,000	4,250
6	18 x 69	24,500	74,000	14,000	65,000	4,250
7	22 x 65	28,500	70,000	18,000	61,000	4,250
8	22 x 75	28,500	80,000	18,000	71,000	4,250
9	22 x 85	28,500	90,000	18,000	81,000	4,250



ALL DIMENSIONS ARE IN INCHES AND ± 0.375

*NOT FOR CONSTRUCTION, UNLESS CERTIFIED BY ENGINEERING

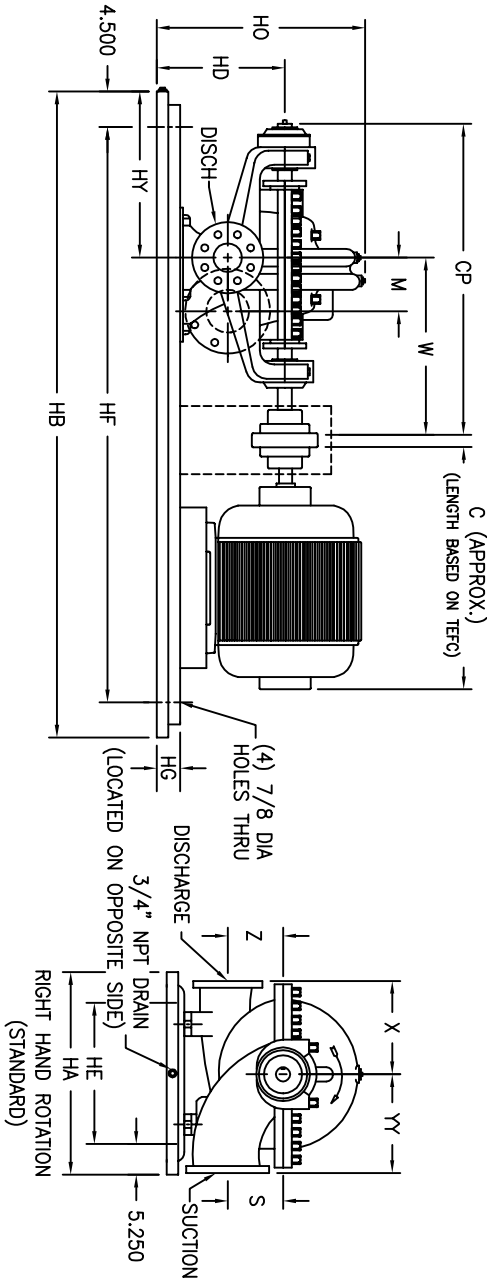
PUMP SIZE																	NOT FOR CONSTRUCTION, UNLESS CERTIFIED BY ENGINEERING																	FRAME																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
DISCH	SUCT	CASE BORE	M	S	PURGE W (RH)	PURGE W (LH)	OIL W (RH)	OIL W (LH)	X	Z	PURGE CP	OIL CP	HY (RH)	HY (LH)	YY	HD	HO	C	13	13	16	17	19	20	24	26	28	27	31	29	31	29	33	31	33	31	36	33	38	35	43	40	45	42	49	45	55	51																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
1.5	2.5	8	3,438	4,563	15,938	14,563	16,313	14,938	7,500	4,563	26,125	28,750	11,813	14,188	8,000	12,563	18,313																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									</

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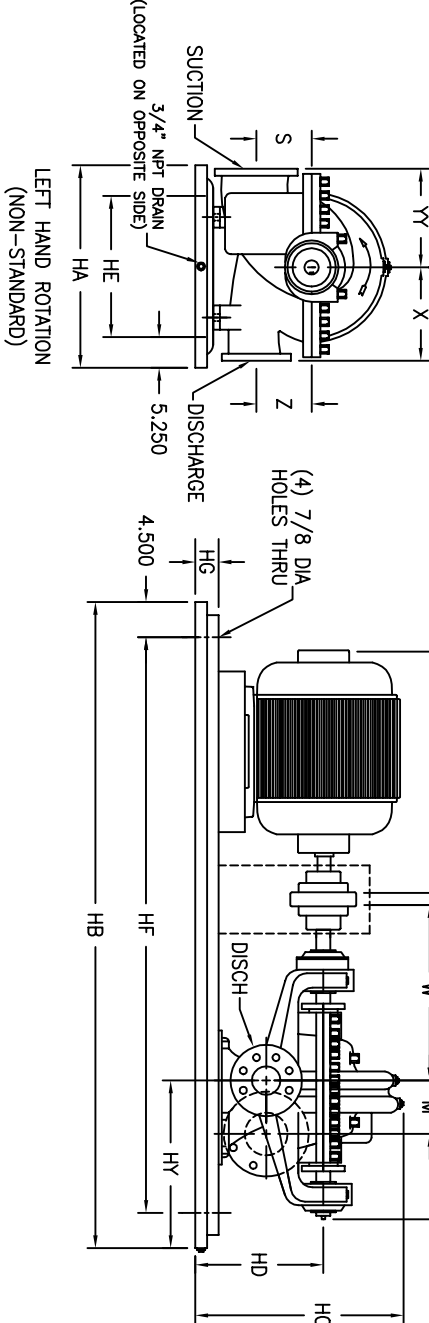


DRIP-DRIP RIM STEEL BASEPLATE

SUCTION	DISCHARGE
STD. 125# FLANGE	STD. 250# FLANGE
OPT. 250# FLANGE	



BASE #	BASEPLATE	HA	HB	HE	HF	HG
1	12 x 38	18,500	43,000	8,000	34,000	4,250
2	12 x 50	18,500	55,000	8,000	46,000	4,250
3	15 x 46	21,500	51,000	11,000	42,000	4,250
4	15 x 60	21,500	65,000	11,000	56,000	4,250
5	18 x 58	24,500	63,000	14,000	54,000	4,250
6	18 x 69	24,500	74,000	14,000	65,000	4,250
7	22 x 65	28,500	70,000	18,000	61,000	4,250
8	22 x 75	28,500	80,000	18,000	71,000	4,250
9	22 x 85	28,500	90,000	18,000	81,000	4,250



ALL DIMENSIONS ARE IN INCHES AND ± 0.375
NOT FOR CONSTRUCTION, UNLESS CERTIFIED BY ENGINEERING

DISCH	SUCT	CASE BORE	M	S	PURGE W (RH)	PURGE W (LH)	OIL W (RH)	OIL W (LH)	X	Z	PURGE CP	OIL CP	HY (RH)	HY (LH)	YY	HD	HO	FRAME
1.5	2.5	8	3,438	4,563	15,938	14,563	16,313	14,938	7,500	4,563	26,125	28,750	11,813	14,188	8,000	12,563	18,313	C 13 13 16 17 19 20 24 26 28 27 31 29 31 29 33 31 33 31 36 33 38 35 43 40 45 42 49 45 55 51
1.5	2.5	10	3,500	5,563	15,938	14,563	16,313	14,938	8,500	5,563	26,125	28,750	11,688	13,938	9,000	13,563	19,438	2 2 2 2 4 4 5 5 5 5 7 7 7 7 8 8 8 8 9
2	3	8	4,125	4,750	16,438	14,813	16,438	14,813	7,500	4,750	26,563	28,813	11,688	14,313	8,000	13,000	19,000	
2	3	10	4,750	5,688	15,813	13,813	17,500	15,500	8,500	5,688	26,438	30,375	12,063	14,938	9,000	14,438	21,188	
2.5	3	9	5,063	5,375	17,563	15,438	17,563	15,438	8,250	5,375	28,125	30,375	12,000	15,000	9,000	13,625	20,375	
3	4	9	5,938	5,500	17,813	15,438	18,188	15,813	8,750	5,500	28,563	31,188	12,375	16,125	9,750	14,750	21,750	
3	4	11	5,938	6,500	21,188	18,813	21,188	18,813	10,000	6,500	33,438	36,625	13,375	13,438	11,000	15,500	24,375	
4	5	11	7,000	6,625	19,938	17,063	22,438	19,563	11,000	6,625	33,125	38,250	14,500	17,500	12,000	16,500	25,000	

A WILLO BRAND

*ALL DIMENSIONS ARE IN INCHES AND ± 0.375																	
PUMP SIZE		*NOT FOR CONSTRUCTION, UNLESS CERTIFIED BY ENGINEERING															
DISCH	SUCT	CASE BORE	M	S	PURGE W (RH)	PURGE W (LH)	OIL W (RH)	OIL W (LH)	X	Z	PURGE CP	OIL CP	HY (RH)	HY (LH)	YY	HD	HO
1.5	2.5	8	3.438	4.563	15.938	14.563	16.313	14.938	7.500	4.563	26.125	28.750	11.813	14.188	8.000	12.563	18.313
1.5	2.5	10	3.500	5.563	16.938	14.563	16.313	14.938	8.500	5.563	26.125	28.750	11.688	13.938	9.000	13.563	19.438
2	3	8	4.125	4.750	16.438	14.813	16.438	14.813	7.500	4.750	26.563	28.813	11.688	14.313	8.000	13.000	19.000
2	3	10	4.750	5.688	16.813	13.813	17.500	15.500	8.500	5.688	26.438	30.375	12.063	14.938	9.000	14.438	21.188
2.5	3	9	5.063	5.375	17.563	15.438	17.563	15.438	8.250	5.375	28.125	30.375	12.000	15.000	9.000	13.625	20.375
3	4	9	5.938	5.500	17.813	15.438	18.168	15.813	8.750	5.500	28.563	31.188	12.375	16.125	9.750	14.750	21.750
3	4	11	5.938	6.500	21.188	18.813	21.188	18.813	10.000	6.500	33.438	36.625	13.375	13.438	11.000	15.500	24.375
4	5	11	7.000	6.625	19.938	17.063	22.438	19.563	11.000	6.625	33.125	38.250	14.500	17.500	12.000	16.500	25.000
FRAME																	
					C 13	13	16	17	19	20	24	26	28	27	28	27	31
									2	2	2	2		4		4	
										</							

380 SERIES HH

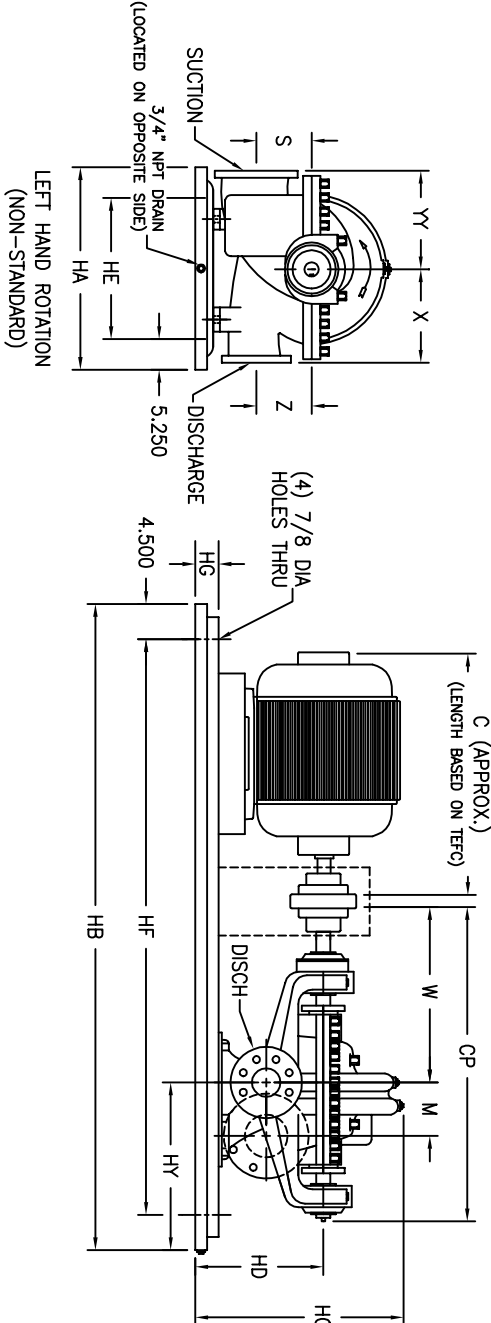
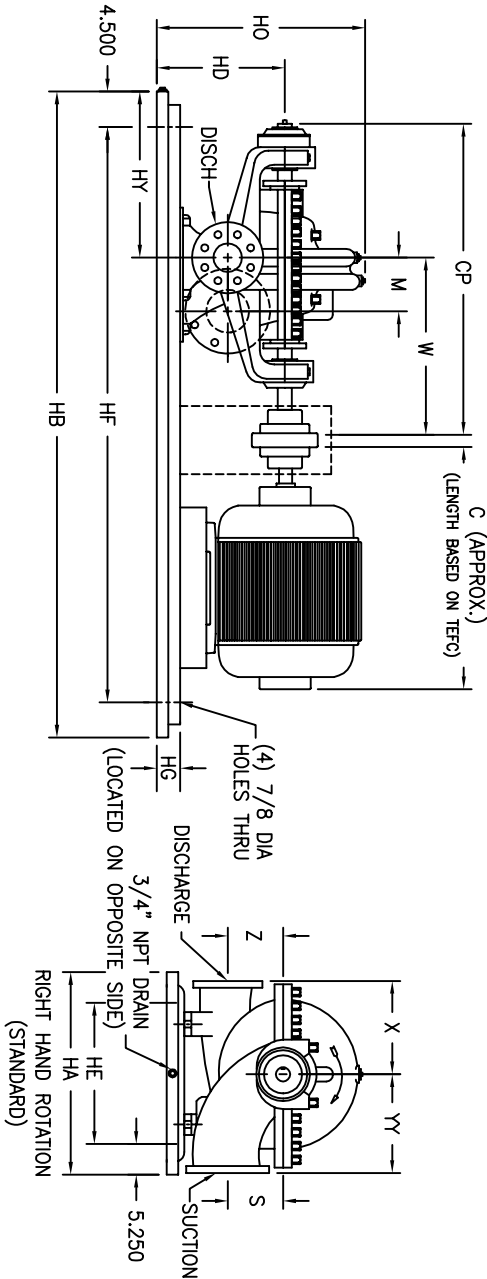
DRIP-DRIP RIM STEEL BASEPLATE



A WILCO BRAND

SUCTION	DISCHARGE
STD. 125# FLANGE	STD. 250# FLANGE
OPT. 250# FLANGE	

BASE #	BASEPLATE	HA	HB	HE	HF	HG
1	12 x 38	18,500	43,000	8,000	34,000	4,250
2	12 x 50	18,500	55,000	8,000	46,000	4,250
3	15 x 46	21,500	51,000	11,000	42,000	4,250
4	15 x 60	21,500	65,000	11,000	56,000	4,250
5	18 x 58	24,500	63,000	14,000	54,000	4,250
6	18 x 69	24,500	74,000	14,000	65,000	4,250
7	22 x 65	28,500	70,000	18,000	61,000	4,250
8	22 x 75	28,500	80,000	18,000	71,000	4,250
9	22 x 85	28,500	90,000	18,000	81,000	4,250



ALL DIMENSIONS ARE IN INCHES AND ± 0.375
NOT FOR CONSTRUCTION, UNLESS CERTIFIED BY ENGINEERING

*ALL DIMENSIONS ARE IN INCHES AND ± 0.375 NOT FOR CONSTRUCTION, UNLESS CERTIFIED BY ENGINEERING																	FRAME	
PUMP SIZE	CASE BORE	M	S	PURGE W (RH)	PURGE OIL W (LH)	OIL W (RH)	OIL W (LH)	X	Z	PURGE CP	OIL CP	HY (RH)	HY (LH)	YY	HD	HO		
DISCH	SUCT																C 13 13 16 17	
1.5	2.5	8	3.438	4.563	15.938	14.563	16.313	14.938	7.500	4.563	26.125	28.750	11.813	14.188	8.000	12.563	18.313	143T
1.5	2.5	10	3.500	5.563	15.938	14.563	16.313	14.938	8.500	5.563	26.125	28.750	11.688	13.938	9.000	13.563	19.438	145T
2	3	8	4.125	4.750	16.438	14.813	16.438	14.813	7.500	4.750	26.563	28.813	11.688	14.313	8.000	13.000	19.000	182T
2	3	10	4.750	5.688	15.813	13.813	17.500	15.500	8.500	5.688	26.438	30.375	12.063	14.938	9.000	14.438	21.188	184T
2.5	3	9	5.063	5.375	17.563	15.438	17.563	15.438	8.250	5.375	28.125	30.375	12.000	15.000	9.000	13.625	20.375	213T
3	4	9	5.938	5.500	17.813	15.438	18.188	15.813	8.750	5.500	28.563	31.188	12.375	16.125	9.750	14.750	21.750	215T
3	4	11	5.938	6.500	21.188	18.813	21.188	18.813	10.000	6.500	33.438	36.625	13.375	13.438	11.000	15.500	24.375	256T
4	5	11	7.000	6.625	19.938	17.063	22.438	19.563	11.000	6.625	33.125	38.250	14.500	17.500	12.000	16.500	25.000	284T
																		284TS
																		286T
																		286TS
																		324T
																		324TS
																		326T
																		326TS
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A WILLO BRAND

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A WILLO BRAND

Technical drawing of a 1000 Series Vertical Turbine Pump, showing front and side views with dimensions and labels.

Front View Dimensions and Labels:

- HO:** Overall height from base to top of pump assembly.
- HD:** Height from base to the discharge flange.
- HY:** Height from base to the motor mounting flange.
- 4.500:** Motor mounting flange diameter.
- CP:** Center-to-center distance between the pump and motor.
- W:** Motor width.
- M:** Motor mounting flange diameter.
- DISCH:** Discharge flange.
- HB:** Total height from base to the top of the motor.
- HF:** Height from base to the motor mounting flange.
- C (APPROX.):** Motor length (based on TFC).
- HG:** Height from base to the motor mounting flange.
- (4) 7/8 DIA HOLES THRU:** Four 7/8 inch diameter holes through the motor mounting flange.
- DISCHARGE:** Discharge pipe connection.
- 3/4" NPT DRAIN (LOCATED ON OPPOSITE SIDE):** 3/4 inch NPT drain connection.
- RIGHT HAND ROTATION (STANDARD):** Indicated by a curved arrow.
- HA:** Height from base to the motor mounting flange.
- HE:** Height from base to the motor mounting flange.
- 5.250:** Motor mounting flange diameter.
- S:** Suction pipe connection.
- X:** Motor mounting flange diameter.
- Y:** Motor mounting flange diameter.

Side View Dimensions and Labels:

- HA:** Height from base to the motor mounting flange.
- HE:** Height from base to the motor mounting flange.
- 5.250:** Motor mounting flange diameter.
- S:** Suction pipe connection.
- X:** Motor mounting flange diameter.
- Y:** Motor mounting flange diameter.

Technical drawing of a pump assembly showing two views: a top view (left) and a side view (right).

Top View (Left):

- Labels: SUCTION (S), DISCHARGE (Z), 3/4" NPT DRAIN (LOCATED ON OPPOSITE SIDE), HA, HE, 5.250.
- Dimensions: X, Y.

Side View (Right):

- Labels: C (APPROX.) (LENGTH BASED ON TEFC), (4) 7/8 DIA HOLES THRU, DISCH, HB, HF, HD, HY.
- Dimensions: HG, CP, W, M.

LEFT HAND ROTATION (NON-STANDARD)

*ALL DIMENSIONS ARE IN INCHES AND ± 0.375																		
PUMP SIZE		*NOT FOR CONSTRUCTION, UNLESS CERTIFIED BY ENGINEERING																
DISCH	SUCT	CASE BORE	M	S	PURGE W (RH)	PURGE W (LH)	OIL W (RH)	OIL W (LH)	X	Z	PURGE CP	OIL CP	HY (RH)	HY (LH)	YY	HD	HO	
1.5	2.5	8	3.438	4.563	15.938	14.563	16.313	14.938	7.500	4.563	26.125	28.750	11.813	14.188	8.000	12.563	18.313	
1.5	2.5	10	3.500	5.563	16.938	14.563	16.313	14.938	8.500	5.563	26.125	28.750	11.688	13.938	9.000	13.563	19.438	
2	3	8	4.125	4.750	16.438	14.813	16.438	14.813	7.500	4.750	26.563	28.813	11.688	14.313	8.000	13.000	19.000	
2	3	10	4.750	5.688	16.813	13.813	17.500	15.500	8.500	5.688	26.438	30.375	12.063	14.938	9.000	14.438	21.188	
2.5	3	9	5.063	5.375	17.563	15.438	17.563	15.438	8.250	5.375	28.125	30.375	12.000	15.000	9.000	13.625	20.375	
3	4	9	5.938	5.500	17.813	15.438	18.168	15.813	8.750	5.500	28.563	31.188	12.375	16.125	9.750	14.750	21.750	
3	4	11	5.938	6.500	21.188	18.813	21.188	18.813	10.000	6.500	33.438	36.625	13.375	13.438	11.000	15.500	24.375	
4	5	11	7.000	6.625	19.938	17.063	22.438	19.563	11.000	6.625	33.125	38.250	14.500	17.500	12.000	16.500	25.000	
FRAME																		
			C	13	13	16	17	19	20	24	26	28	27	31	29	31	33	31
								2	2	2				4		4		

A WILLO BRAND

The technical drawing illustrates the 1000 Series Vertical Turbine Pump in two views: a front view (top) and a side view (bottom).

Front View Dimensions and Labels:

- HO:** Overall height from the base to the top of the pump assembly.
- HD:** Height from the base to the discharge flange.
- HY:** Height from the base to the center of the discharge flange.
- 4.500:** Total height of the pump assembly.
- HB:** Height from the base to the motor mounting flange.
- HF:** Height from the base to the motor mounting flange.
- CP:** Center-to-center distance between the pump and motor.
- W:** Width of the pump assembly.
- M:** Motor mounting flange.
- DISCH:** Discharge flange.
- C (APPROX.):** Motor length (based on TFC).
- HG:** Height from the base to the motor mounting flange.
- (4) 7/8 DIA HOLES THRU:** Four 7/8 inch diameter holes through the base plate.

Side View Dimensions and Labels:

- X:** Distance from the base to the center of the discharge flange.
- Y:** Distance from the base to the center of the discharge flange.
- Z:** Distance from the base to the center of the discharge flange.
- S:** Distance from the base to the center of the discharge flange.
- 5.250:** Total height of the pump assembly.
- HA:** Height from the base to the center of the discharge flange.
- HE:** Height from the base to the center of the discharge flange.
- RIGHT HAND ROTATION (STANDARD):** Indicated by a curved arrow showing the direction of rotation.
- SUCKION:** Suction port.
- DISCHARGE:** Discharge port.
- 3/4" NPT DRAIN (LOCATED ON OPPOSITE SIDE):** A 3/4 inch NPT drain located on the opposite side of the pump.

Technical drawing of the 1000 Series Vertical Turbine Pump, showing front and side views with dimensions and labels.

Front View Labels:

- SUCTION
- 3/4" NPT DRAIN (LOCATED ON OPPOSITE SIDE)
- DISCHARGE
- 5.250
- 4.500
- HG
- (4) 7/8 DIA HOLES THRU

Side View Labels:

- C (APPROX.) (LENGTH BASED ON TEFC)
- W
- CP
- M
- DISCH
- HY
- HD
- HC
- HF
- HB

Dimensions:

- XX
- X
- Z
- HA
- HE

Orientation:

LEFT HAND ROTATION (NON-STANDARD)

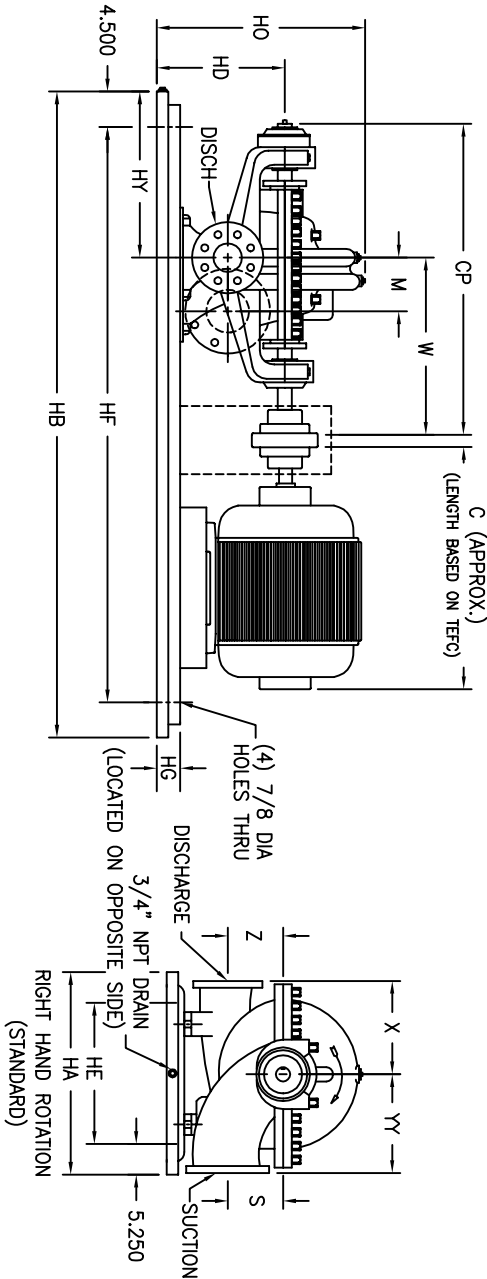
*ALL DIMENSIONS ARE IN INCHES AND ± 0.375																		
PUMP SIZE		*NOT FOR CONSTRUCTION, UNLESS CERTIFIED BY ENGINEERING																
DISCH	SUCT	CASE BORE	M	S	PURGE W (RH)	PURGE W (LH)	OIL W (RH)	OIL W (LH)	X	Z	PURGE CP	OIL CP	HY (RH)	HY (LH)	YY	HD	HO	FRAME
1.5	2.5	8	3.436	4.563	15.938	14.563	16.313	14.938	7.500	4.563	26.125	28.750	11.813	14.188	8.000	12.563	18.313	C 13
2.5	5	10	3.500	5.563	16.938	14.563	16.313	14.938	8.500	5.563	26.125	28.750	11.688	13.938	8.000	13.563	19.438	13 16 17
1.5	2.5	10	4.125	4.750	16.438	14.813	16.438	14.813	7.500	4.750	26.563	28.813	11.688	14.313	8.000	13.000	19.000	19 20 24 26 28 27 31 29 31 29 33 31 33 31 36 33 38 35 43 40 45 42 49 45 55 55 55
2	3	8	4.125	4.750	16.438	14.813	16.438	14.813	7.500	4.750	26.563	28.813	11.688	14.313	8.000	13.000	19.000	2 2 2 2 2 4 4 5 5 5 5 5 5 5 5 7 7
2	3	10	4.750	5.688	15.813	13.813	17.500	15.500	8.500	5.688	26.438	30.375	12.063	14.938	9.000	14.438	21.188	4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 7 7
2.5	3	8	5.063	5.375	17.563	15.438	18.168	15.438	8.250	5.375	28.125	30.375	12.000	15.000	9.000	13.625	20.375	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 7 7
3	4	9	5.938	5.500	17.813	15.438	18.168	15.438	8.750	5.500	28.563	31.188	12.375	16.125	9.750	14.750	21.750	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 7 7
3	4	11	5.938	6.500	21.188	18.813	21.188	18.813	10.000	6.500	33.438	36.625	13.375	13.438	11.000	15.500	24.375	7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
4	5	11	7.000	6.625	19.938	17.063	22.438	19.563	11.000	6.625	33.125	38.250	14.500	17.500	12.000	16.500	25.000	7 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9
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380 SERIES HH

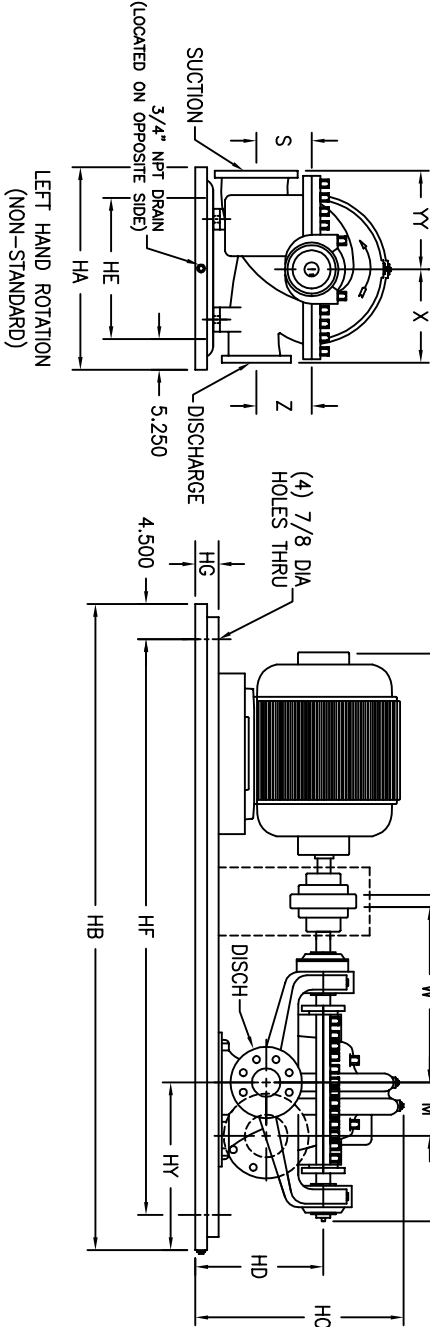


DRIP-DRIP RIM STEEL BASEPLATE

SUCTION	DISCHARGE
STD. 125# FLANGE	STD. 250# FLANGE
OPT. 250# FLANGE	



BASE #	BASEPLATE	HA	HB	HE	HF	HG
1	12 x 38	18,500	43,000	8,000	34,000	4,250
2	12 x 50	18,500	55,000	8,000	46,000	4,250
3	15 x 46	21,500	51,000	11,000	42,000	4,250
4	15 x 60	21,500	65,000	11,000	56,000	4,250
5	18 x 58	24,500	63,000	14,000	54,000	4,250
6	18 x 69	24,500	74,000	14,000	65,000	4,250
7	22 x 65	28,500	70,000	18,000	61,000	4,250
8	22 x 75	28,500	80,000	18,000	71,000	4,250
9	22 x 85	28,500	90,000	18,000	81,000	4,250



ALL DIMENSIONS ARE IN INCHES AND ± 0.375
NOT FOR CONSTRUCTION, UNLESS CERTIFIED BY ENGINEERING

PUMP SIZE																	NOT FOR CONSTRUCTION, UNLESS CERTIFIED BY ENGINEERING																	FRAME																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
DISCH	SUCT	CASE BORE	M	S	PURGE W (RH)	PURGE W (LH)	OIL W (RH)	OIL W (LH)	X	Z	PURGE CP	OIL CP	HY (RH)	HY (LH)	YY	HD	HO	C	13	13	16	17	19	20	24	26	28	27	31	29	31	29	33	31	33	31	36	33	38	35	43	40	45	42	49	45	55	51																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
1.5	2.5	8	3,438	4,563	15,938	14,563	16,313	14,938	7,500	4,563	26,125	28,750	11,813	14,188	8,000	12,563	18,313																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							