



B-SERIES

***BACKWARD-INCLINED IMPELLERS
- STEELS, STAINLESS STEELS, & ALUMINUM -***

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Richmond, IL 60071***

***815.678.4516
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MATERIALS, FINISHES, AND FEATURES

STANDARD MATERIALS AND FINISHES:

STEEL - ASTM A1008 TYPE B Commercial Steel Waterborne Paint (Gray): Impellers rated up to 180°F High-Temperature Paint: Impellers rated up to 600°F Powder Coat #258 (Black): Impellers rated up to 300°F Hubs made of Cast Iron and Dura-Bar G2	304L STAINLESS STEEL - Economical stainless steel Impellers rated up to 800°F Electropolishing available for a chrome-like finish Hubs made of 303L Stainless Steel
5052 ALUMINUM - Marine Grade Aluminum Impellers rated up to 200°F Anodizing finishes available by request Hubs made from 319 Cast Al or 6061 Al	316L STAINLESS STEEL - (2% Molybdenum) Impellers rated up to 1000°F Electropolishing available for a chrome-like finish Hubs made of 316L Stainless Steel

NON-STANDARD MATERIALS:

HSLA STEELS - Cor-Ten® or Strenx™/Domex® - High-Strength & Excellent Abrasion Resistance (up to 600°F)
6061 ALUMINUM - High-Strength Marine Grade (Impellers rated up to 200°F)
MONEL 400 - Ultimate corrosion resistant properties (63% Nickel, Impellers rated up to 900°F)
430L STAINLESS STEEL - Economical & corrosion resistant (17% Chromium, Impellers rated up to 800°F)

NON-STANDARD FINISHES:

Powder Coat #378 (Black): Impellers rated up to 600°F / stationary parts up to 1000°F (only for steels).
Zinc plating & Hot-Dip Galvanization: parts up to 130°F (only for steels); availability varies by product.

IMPELLER APPLICATIONS:

COMMONLY FOR	Product cooling & drying, combustion air, supply & exhaust, fume & dust collection, and more.
HIGH-EFFICIENCY	A good choice for low power consumption with non-overloading brake power curves.
HARSH INDUSTRIAL	Impeller has a slight tolerance for dust and moisture in harsher industrial applications.

IMPELLER STANDARD REINFORCEMENT FEATURES:

PERIPHERAL ROD	For steel and stainless steel, a rod is added around the perimeter of the blades to prevent blade buckling at high speeds. The rod is welded to each blade and overlapped at its seam.
PERIPHERAL RINGS	For aluminum impellers, a ring is added around the perimeter of the blades to prevent blade buckling at high speeds. The ring is welded to each blade on both sides; the ring is commonly .090" thick aluminum and matches the blade thickness.

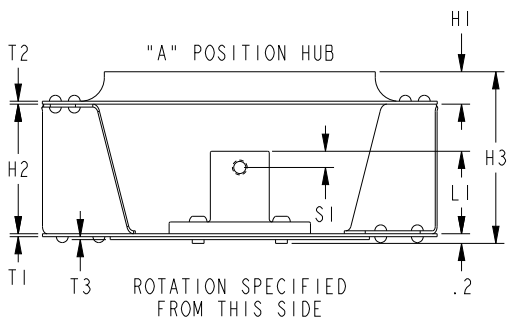
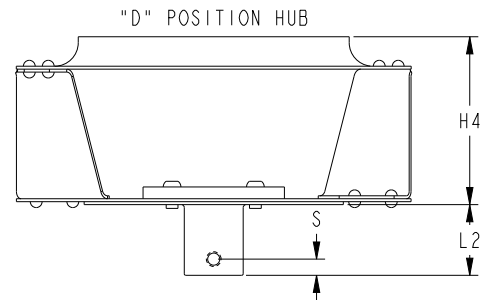
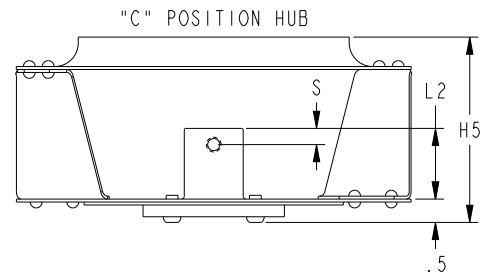
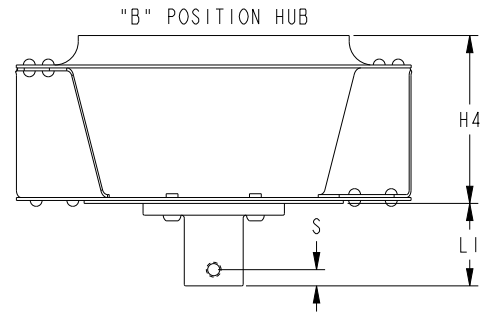
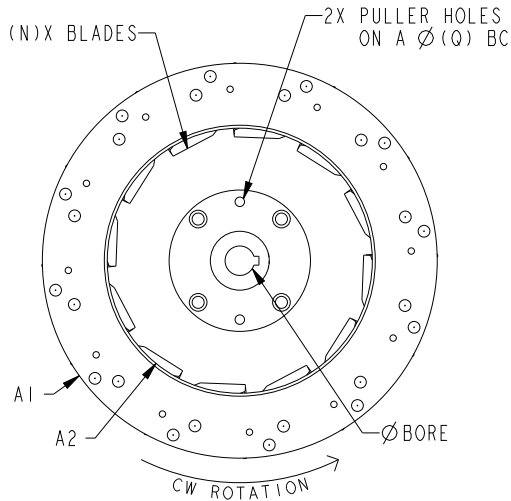
IMPELLER NON-STANDARD FEATURES:

FLAT FRONT RING	The impeller can be modified to have a flat front ring with only slight losses in performance.
WELDED BLADES	Additional stitch welds can be added to each blade for an extra rigid construction.
INNER BLADE ROD	An additional rod can be used on the inside blade edge in addition to an external peripheral rod. The internal rod stiffens the blade for the maximum possible resistance to blade buckling.

IMPELLER CONSTRUCTION STYLES:

STEELS & STAINLESS	Riveted blades with additional spot welds; 16 ga spot welded reinforcement disk on outside.
ALUMINUM	0.125" thick back disk; 0.09" thick blades and Ø3/16" solid rivets are available in larger sizes.

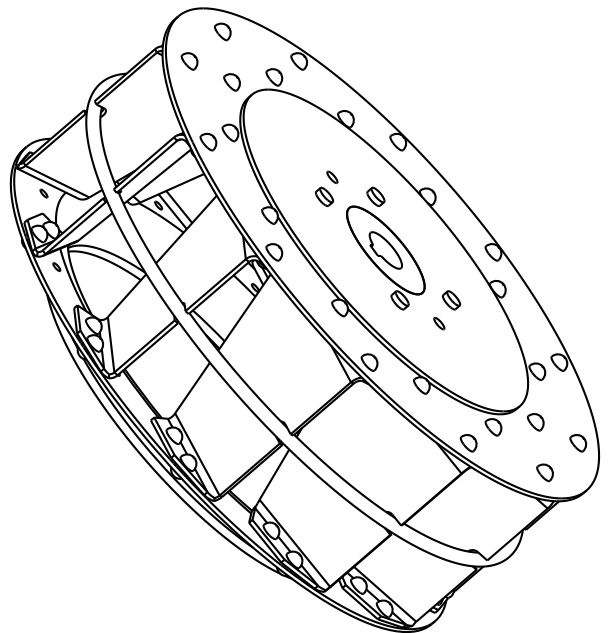
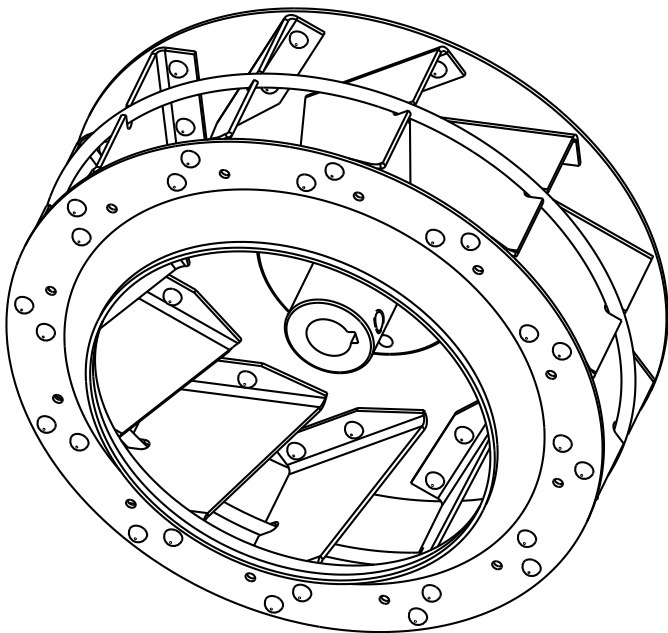
BACKWARD-INCLINED IMPELLERS



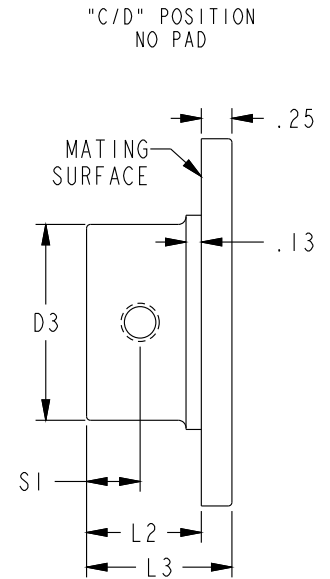
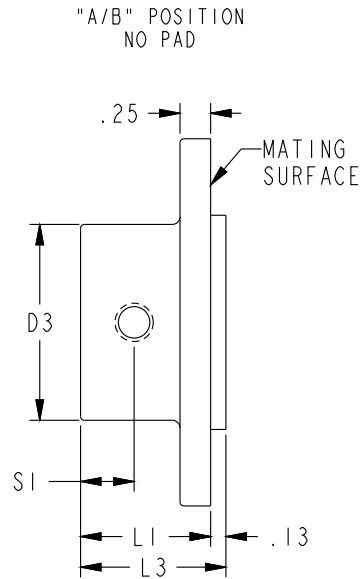
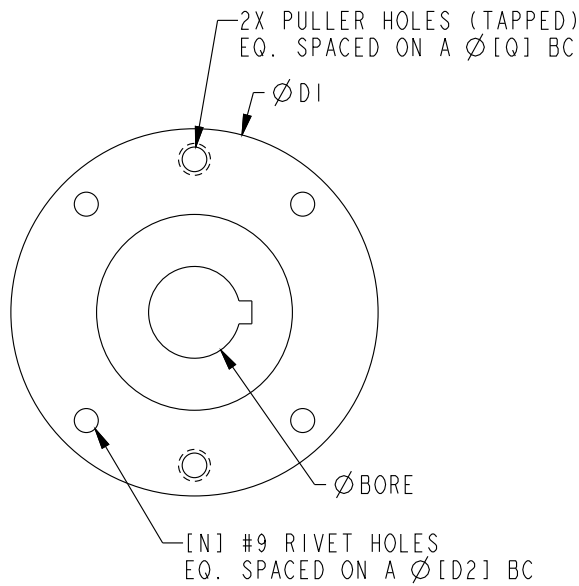
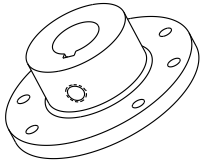
STANDARD IMPELLER DIMENSIONS									DIMS BY POSITION			HUB
OD	ID	BD THK	FR THK	RD THK	BLDS	FR HT	BLD HT	PART NUMER	"A"	"B/D"	"C"	MTG GROUP
A1	A2	T1	T2	T3	N	H1	H2	(ROOT ONLY)	H3	H4	H5	
7- ¹ / ₁₆	5- ⁵ / ₈	16 GA .125 AL	16 GA .063 AL	16 GA None AL	14	¹³ / ₁₆	2- ¹ / ₄	BZ123036	3.26	3.18	3.56	#1
							2- ³ / ₄	BZ123044	3.76	3.68	4.06	
8- ³ / ₈	5- ² / ₃₂	16 GA .125 AL	16 GA .063 AL	16 GA None AL	12	¹³ / ₁₆	2- ¹ / ₄	BZ134036	3.26	3.18	3.56	#1 #2
							2- ³ / ₄	BZ134044	3.76	3.68	4.06	
9- ³ / ₁₆	6- ⁵ / ₁₆	16 GA .125 AL	16 GA .063 AL	16 GA None AL	15	⁷ / ₈	2- ¹ / ₄	BZ147036	3.33	3.25	3.63	#2 #3
							2- ³ / ₄	BZ147044	3.83	3.75	4.13	
							3- ¹ / ₈	BZ147050	4.20	4.12	4.50	
9- ¹⁵ / ₁₆	6- ⁵ / ₈	16 GA .125 AL	16 GA .063 AL	16 GA None AL	12	1- ¹ / ₁₆	2- ¹ / ₄	BZ159036	3.51	3.43	3.81	#2 #3
							2- ³ / ₄	BZ159044	4.01	3.93	4.31	
							3- ¹ / ₈	BZ159050	4.39	4.31	4.69	
10- ⁵ / ₈	7- ⁵ / ₁₆	16 GA .125 AL	16 GA .063 AL	16 GA None AL	15	1- ¹ / ₃₂	2- ¹ / ₄	BZ170036	3.48	3.40	3.78	#2 #3
							2- ³ / ₄	BZ170044	3.98	3.90	4.28	
							3- ¹ / ₈	BZ170050	4.36	4.28	4.66	
							3- ³ / ₄	BZ170060	4.98	4.90	5.28	

STANDARD IMPELLER DIMENSIONS									DIMS BY POSITION			HUB
OD	ID	BD THK	FR THK	RD THK	BLDS	FR HT	BLD HT	PART NUMER	"A"	"B/D"	"C"	MTG GROUP
A1	A2	T1	T2	T3	N	H1	H2	(ROOT ONLY)	H3	H4	H5	
11- ³ / ₁₆	7- ⁵ / ₁₆	16 GA .125 AL	16 GA .063 AL	16 GA None AL	15	1- ¹ / ₃₂	2- ¹ / ₄	BZ179036	3.61	3.53	3.91	#3
							2- ³ / ₄	BZ179044	4.11	4.03	4.41	
							3- ¹ / ₈	BZ179050	4.48	4.40	4.78	
							3- ³ / ₄	BZ179060	5.11	5.03	5.41	
12- ³ / ₁₆	8- ⁹ / ₁₆	16 GA .125 AL	16 GA .063 AL	16 GA None AL	14	1- ¹ / ₈	2- ¹ / ₄	BZ195036	3.61	3.53	3.91	#3
							2- ³ / ₄	BZ195044	4.11	4.03	4.41	
							3- ¹ / ₈	BZ195050	4.48	4.40	4.78	
							3- ³ / ₄	BZ195060	5.11	5.03	5.41	
13- ¹ / ₂	9- ¹ / ₄	16 GA .125 AL	16 GA .063 AL	16 GA None AL	15	1- ³ / ₁₆	2- ¹ / ₄	BZ216036	3.67	3.59	3.97	#3
							2- ³ / ₄	BZ216044	4.17	4.09	4.47	
							3- ¹ / ₈	BZ216050	4.54	4.46	4.84	
							3- ³ / ₄	BZ216060	5.17	5.09	5.47	
15	10- ⁵ / ₁₆	16 GA .125 AL	16 GA .063 AL	16 GA None AL	16	1- ⁵ / ₁₆	2- ¹ / ₄	BZ240036	3.76	3.68	6.22	#3
							2- ³ / ₄	BZ240044	4.26	4.18	4.56	
							3- ¹ / ₈	BZ240050	4.64	4.56	4.94	
							3- ³ / ₄	BZ240060	5.26	5.18	5.56	
							4- ¹ / ₂	BZ240072	6.01	5.93	6.31	
							5	BZ240080	6.51	6.43	6.81	

- Consult factory for product weights.
- Mounting Groups (MTG. GROUP) and Reinforcement Rings ("R") are assigned by required speed rating. See speed rating tables on page 80 for more details. Once the mounting group is known, a hub can be selected (p. 7-9) based on required bore size.
- Front ring height ("FR HT") is $\pm \frac{1}{32}$ "; Dimensions H3, H4, and H5 are $\pm \frac{1}{16}$ "; $\frac{1}{2}$ ", $\frac{1}{4}$ ", and $\frac{3}{8}$ " dimensions are $\pm \frac{1}{32}$ ".
- Dimensions T1, T2, and T3: First line is for steels and stainless steels; second line is for aluminum; T3 does not exist for aluminum.



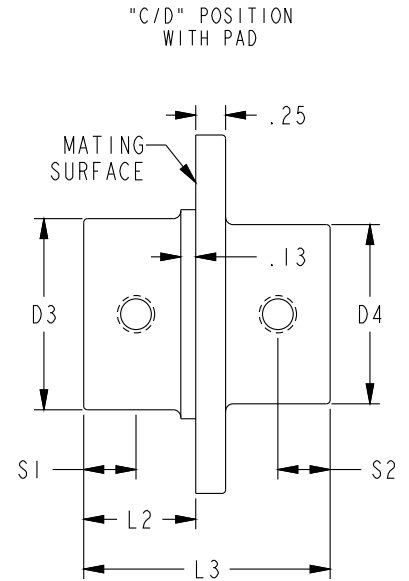
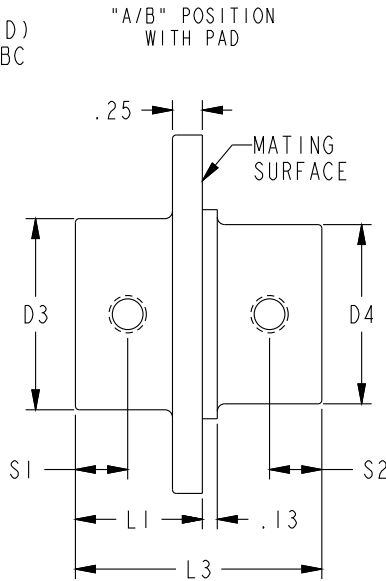
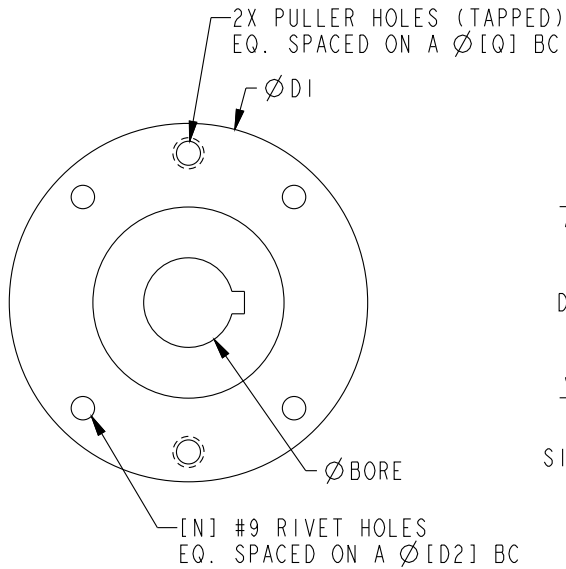
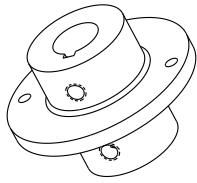
STANDARD HUBS



MTG GROUP	HUB SHAPE	STANDARD	IMPERIAL BORES (in)		METRIC BORES (mm)		HUB LENGTHS			FLNG DIA	DBC	BRL DIA	PAD DIA	RIVET HOLES	PULLER HOLES	
			MIN	MAX	MIN	MAX	L1	L2	L3	D1	D2	D3	D4	N	SIZE	Q
#1	1-093	✓	5/16	3/4	8	19	15/16	13/16	1-1/16	2-3/8	1-7/8	1-5/16	-	3	NONE	-
	1-143		5/16	3/4	8	19	1-7/16	1-5/16	1-9/16	2-3/8	1-7/8	1-5/16	-	3	NONE	-
#2	2-106	✓	3/8	15/16	10	22	1-1/16	15/16	1-3/16	3	2-1/2	1-23/32	-	4	1/4-20	2-1/2
	2-159		1/2	15/16	13	23	1-19/32	1-15/32	1-23/32	3	2-1/2	1-23/32	-	4	1/4-20	2-1/2
	2-173	✓	1/2	15/16	13	23	1-47/64	1-39/64	1-55/64	3	2-1/2	1-23/32	-	4	1/4-20	2-1/2
	2-174		1/2	15/16	13	23	1-3/4	1-5/8	1-7/8	3	2-1/2	1-23/32	-	4	1/4-20	2-1/2
	2-250		1/2	15/16	13	23	2-1/2	2-3/8	2-5/8	3	2-1/2	1-23/32	-	4	1/4-20	2-1/2
	2-125		5/16	3/4	8	19	1-1/4	1-1/8	1-3/8	3	2-1/2	1-5/16	-	4	1/4-20	2-1/2
	2-112	✓	1/2	1-3/16	13	30	1-1/8	1	1-1/4	3	2-1/2	2*	-	4	1/4-20	2-1/2
	2-175		1/2	1-3/16	13	30	1-3/4	1-5/8	1-7/8	3	2-1/2	2*	-	4	1/4-20	2-1/2
#3	3-175	✓	5/8	15/16	16	23	1-3/4	1-5/8	1-7/8	6	5-1/2	1-23/32	-	6 / 12	3/8-16	3-3/4
	3-237	✓	15/16	1-1/2	16	38	2-3/8	2-1/4	2-1/2	6	5-1/2	2-3/8*	-	6 / 12	3/8-16	3-3/4
	3-250	✓	1-1/2	1-15/16	39	49	2-1/2	2-3/8	2-5/8	6	5-1/2	3	-	6 / 12	3/8-16	3-3/4

- Consult factory for product weights.
- Hubs normally selected by factory according to torque requirement and bore size - consult factory for details.
- Dimensions noted by (*) may vary slightly by material selection (e.g. cast aluminum products have a drafted barrel).

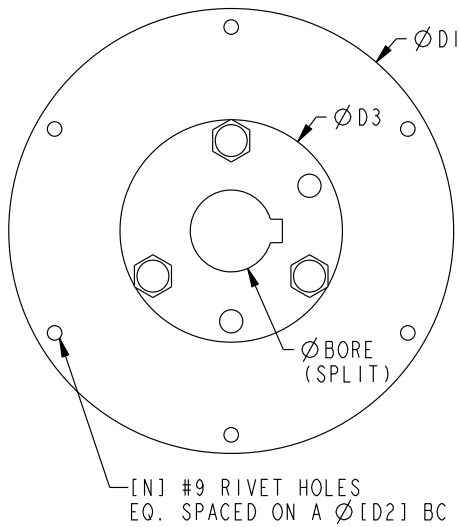
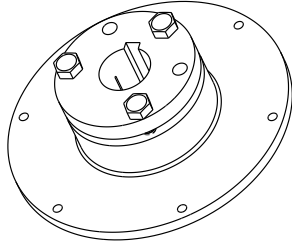
PADDED HUBS



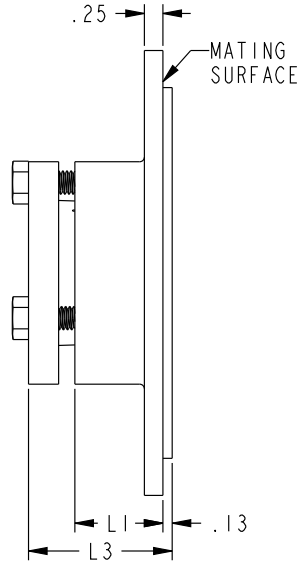
MTG GROUP	HUB SHAPE	STANDARD	IMPERIAL BORES (in)		METRIC BORES (mm)		HUB LENGTHS			FLNG DIA	DBC	BRL DIA	PAD DIA	RIVET HOLES	PULLER HOLES	
			MIN	MAX	MIN	MAX	L1	L2	L3	D1	D2	D3	D4	N	SIZE	Q
#2	2-084P	✓	3/8	7/8	10	22	27/32	23/32	1-7/32	2-3/8	2-1/2	1-27/32	1-27/32	4	1/4-20	2-1/2
#3	3-162P	✓	5/8	1-1/8	16	28	1-5/8	1-1/2	2-3/8	6	5-1/2	2	2	6 / 12	3/8-16	3-3/4
	3-237P	✓	5/8	1-3/8	16	38	2-3/8	2-1/4	3-3/16	6	5-1/2	2-9/16*	2-9/16*	6 / 12	3/8-16	3-3/4

- Consult factory for product weights.
- Hubs normally selected by factory according to torque requirement and bore size - consult factory for details.
- Dimensions noted by (*) may vary slightly by material selection (e.g. cast aluminum products have a drafted barrel).

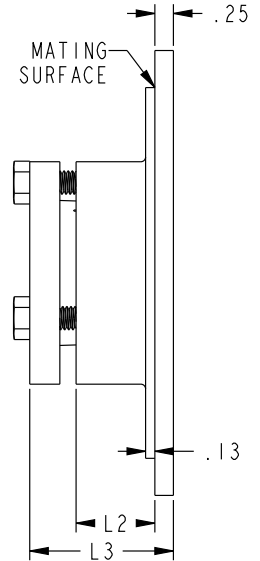
BUSHING HUBS



"A/B" POSITION WITH PAD



"C/D" POSITION WITH PAD

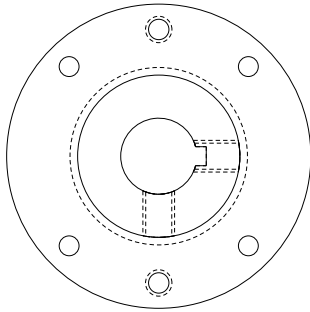


MTG GROUP	HUB SHAPE	STANDARD	DST #	IMPERIAL BORES (in)		METRIC BORES (mm)		HUB LENGTHS			FLNG DIA	DBC	BRL DIA	RIVET HOLES	PULLER HOLES	
				MIN	MAX	MIN	MAX	L1	L2	L3	D1	D2	D3	N	SIZE	Q
#2	2-050	✓	G	3/8	15/16	10	25	1/2	-	1	3	2-1/2	2	4	-	-
#3	3-075	✓	H	3/8	1-3/8	10	38	3/4	5/8	1-1/4	6	5-1/2	2-1/2	6 / 12	-	-
	3-118	✓	P1	1/2	1-3/4	14	42	1-3/16	1-1/16	1-15/16	6	5-1/2	3	6 / 12	-	-

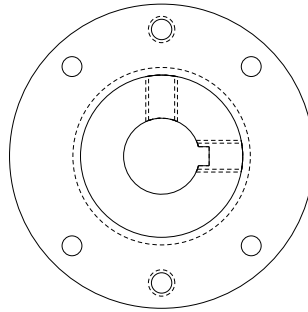
- Consult factory for product weights.
- Hubs normally selected by factory according to torque requirement and bore size - consult factory for details.
- Dimensions noted by (*) may vary slightly by material selection (e.g. cast aluminum products have a drafted barrel).

SET SCREW PLACEMENT AND TYPE

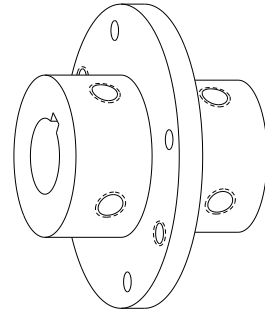
NORMAL PLACEMENT
[90° CW FROM KEYWAY]



OPPOSITE PLACEMENT
[90° CCW FROM KEYWAY]



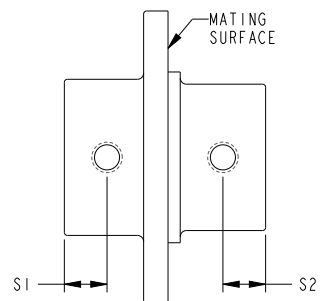
PLACEMENT ON PAD
[SET SCREWS ARE IN LINE]



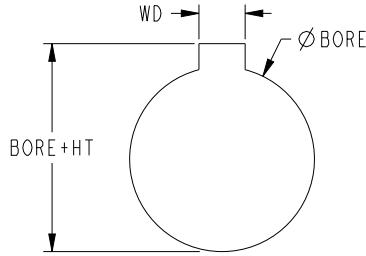
SET SCREW DESIGNATIONS				
SYMBOL	QTY	SIZE	"S"	REF
0	-	-	-	-
1	1	5/16-18	ST'D	-
2	1	5/16-18	SHORT	-
3	1	5/16-18	LONG	-
A	2	5/16-18	ST'D	NORMAL
B	2	5/16-18	SHORT	NORMAL
C	2	5/16-18	LONG	NORMAL
D	2	5/16-18	ST'D	OPPOSITE
E	2	5/16-18	SHORT	OPPOSITE
F	2	5/16-18	LONG	OPPOSITE
4	1	1/4-20	ST'D	-
5	1	1/4-20	SHORT	-
6	1	1/4-20	LONG	-
G	2	1/4-20	ST'D	NORMAL
H	2	1/4-20	SHORT	NORMAL
J	2	1/4-20	LONG	NORMAL
K	2	1/4-20	ST'D	OPPOSITE
M	2	1/4-20	SHORT	OPPOSITE
N	2	1/4-20	LONG	OPPOSITE
7	1	3/8-16	ST'D	-
8	1	3/8-16	SHORT	-
9	1	3/8-16	LONG	-
P	2	3/8-16	ST'D	NORMAL
Q	2	3/8-16	SHORT	NORMAL
R	2	3/8-16	LONG	NORMAL
S	2	3/8-16	ST'D	OPPOSITE
T	2	3/8-16	SHORT	OPPOSITE
U	2	3/8-16	LONG	OPPOSITE

NORMAL HUBS				
HUB SHAPE	SET SCREW PLACEMENT			
	"S1" - ST'D	"S1" - SHORT	"S1" - LONG	"S2" - PAD
1-093	0.34	-	0.44	-
1-143	0.63	0.34	0.93	-
1-125	0.43	0.34	0.62	-
2-106	0.38	0.34	0.56	-
2-159	0.88	0.38	1.00	-
2-173	0.88	0.38	1.12	-
2-174	0.56	0.38	1.12	-
2-250	0.50	0.38	1.88	-
2-112	0.43	0.38	0.62	-
2-175	0.56	0.38	1.12	-
3-175	0.63	0.38	1.12	-
3-237	1.13	0.38	1.75	-
3-250	1.13	0.38	1.88	-

PADDED HUBS				
HUB SHAPE	SET SCREW PLACEMENT			
	"S1" - ST'D	"S1" - SHORT	"S1" - LONG	"S2" - PAD
2-084P	0.38	0.34	0.50	-
3-162P	0.50	0.38	0.88	0.38
3-237P	1.13	0.38	1.75	0.38



BORES AND KEYWAYS



Bore has tolerances of (+0.001"/-0.000")

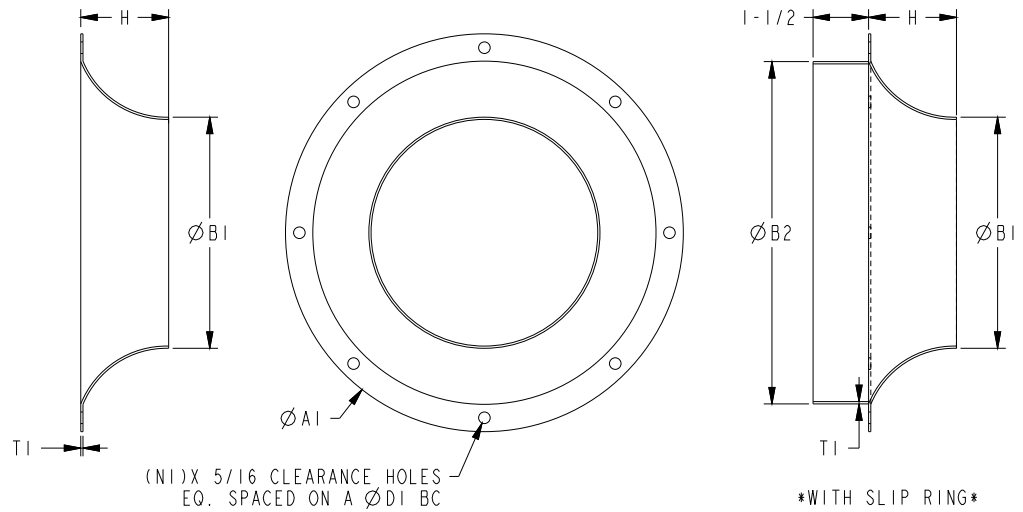
Keyways are per ANSI B17.1

IMPERIAL BORES & KEYWAYS		
BORE	KEYWAY	SYM [BBB]
	WD X HT	
5/16"	None	031
3/8"	None	037
7/16"	None	043
1/2"	None	050
9/16"	1/8" X 1/16"	056
5/8"	3/16" X 3/32"	062
11/16"	3/16" X 3/32"	068
3/4"	3/16" X 3/32"	075
13/16"	3/16" X 3/32"	081
7/8"	3/16" X 3/32"	087
15/16"	1/4" X 1/8"	093
1"	1/4" X 1/8"	100
1-1/16"	1/4" X 1/8"	106
1-1/8"	1/4" X 1/8"	112
1-3/16"	1/4" X 1/8"	118
1-1/4"	1/4" X 1/8"	125
1-5/16"	5/16" X 5/32"	131
1-3/8"	5/16" X 5/32"	137
1-7/16"	3/8" X 3/16"	143
1-1/2"	3/8" X 3/16"	150
1-9/16"	3/8" X 3/16"	156
1-5/8"	3/8" X 3/16"	162
1-11/16"	3/8" X 3/16"	168
1-3/4"	3/8" X 3/16"	175
1-13/16"	1/2" X 1/4"	181
1-7/8"	1/2" X 1/4"	187
1-15/16"	1/2" X 1/4"	193
2"	1/2" X 1/4"	200

METRIC BORES & KEYWAYS		
BORE	KEYWAY	SYM [BBB]
	WD X HT	
8 mm	None	08M
10 mm	None	10M
11 mm	None	11M
12 mm	None	12M
13 mm	5 mm X 2.3 mm	13M
14 mm	5 mm X 2.3 mm	14M
15 mm	5 mm X 2.3 mm	15M
16 mm	5 mm X 2.3 mm	16M
17 mm	5 mm X 2.3 mm	17M
18 mm	6 mm X 2.8 mm	18M
19 mm	6 mm X 2.8 mm	19M
20 mm	6 mm X 2.8 mm	20M
22 mm	6 mm X 2.8 mm	22M
24 mm	8 mm X 3.3 mm	24M
25 mm	8 mm X 3.3 mm	25M
27 mm	8 mm X 3.3 mm	27M
28 mm	8 mm X 3.3 mm	28M
30 mm	8 mm X 3.3 mm	30M
32 mm	10 mm X 3.3 mm	32M
35 mm	10 mm X 3.3 mm	35M
36 mm	10 mm X 3.3 mm	36M
38 mm	10 mm X 3.3 mm	38M
39 mm	12 mm X 3.3 mm	39M
40 mm	12 mm X 3.3 mm	40M
42 mm	12 mm X 3.3 mm	42M
45 mm	14 mm X 3.8 mm	45M
48 mm	14 mm X 3.8 mm	48M
50 mm	14 mm X 3.8 mm	50M

- Bores less than 1/2" (or 12mm) are not keyed and have (1) 1/4"-20 set screw - see set screw designations 4, 5, or 6.
- Bores equal to 1/2" (or 12mm) are not keyed and have (1) 5/16"-18 set screw - see set screw designations 1, 2, or 3.
- Bores > 1/2" (or 12mm) have ANSI Standard keyways and have (2) 5/16"-18 set screws - see set screw designations A, B, or C.
- Some bore sizes may not be available in standard straight bore hubs; special tooling or the use of a double split taper bushing may be required.

STANDARD BACKWARD-INCLINED INLET CONES



STANDARD BACKWARD INCLINE INLET CONE DIMENSIONS

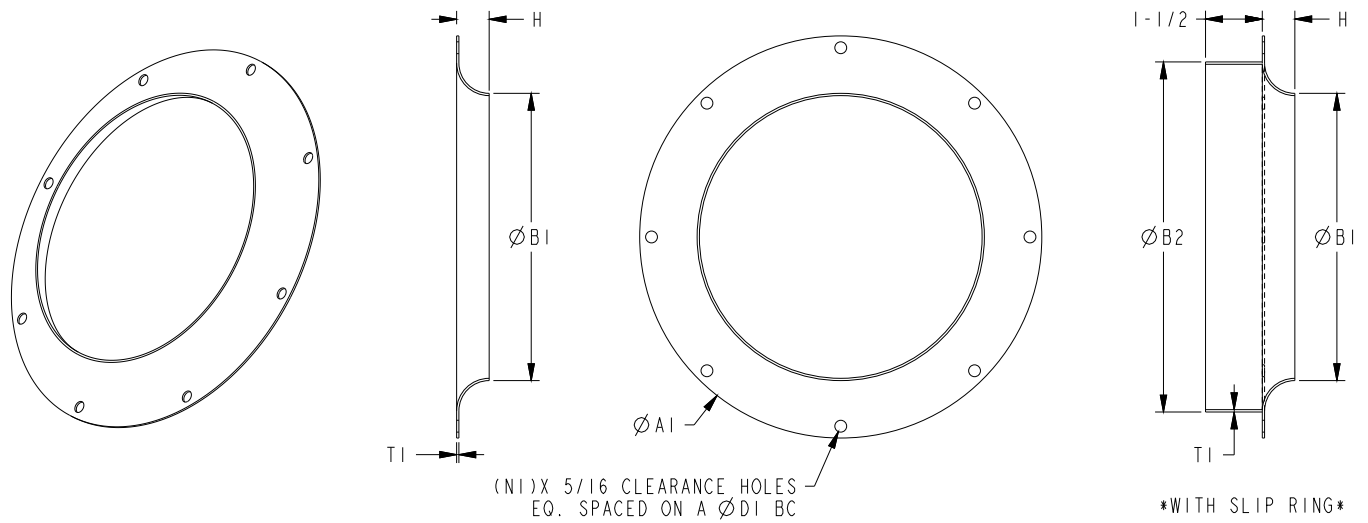
IMP DIA	ROOT PART NUMBER	OD	ID	HT	THK	MTG	DBC	OD
		A1	B1	H	T1	N1	D1	B2
7-1 ¹ / ₁₆	YNA123BY-04	9-1 ¹ / ₈	5-3 ³ / ₈	2-3 ³ / ₈	16 GA / .063 AL	4	8-5 ⁵ / ₈	-
8-3 ³ / ₈	YNA134BY-04	10-1 ¹ / ₁₆	5-5 ⁵ / ₁₆	2-7 ⁷ / ₁₆	16 GA / .063 AL	4	9-5 ⁵ / ₁₆	-
9-3 ³ / ₁₆	YNA147BY-08	10-3 ³ / ₄	6-1 ¹ / ₈	2-3 ³ / ₈	16 GA / .063 AL	8	10	-
9-15 ¹⁵ / ₁₆	YNA159BY-08	12-1 ¹ / ₄	6-1 ¹ / ₂	2-1 ¹ / ₂	16 GA / .063 AL	8	11	-
10-5 ⁵ / ₈	YNA170BY-08	12-1 ¹ / ₂	7-1 ¹ / ₈	2-1 ¹ / ₂	16 GA / .063 AL	8	11-3 ³ / ₈	-
12-3 ³ / ₁₆	YNA195BY-08	14	8-1 ¹ / ₂	3-13 ¹³ / ₁₆	16 GA / .063 AL	8	13-1 ¹ / ₈	-
13-1 ¹ / ₂	YNA216BY-08	15	9-1 ¹ / ₁₆	4-1 ¹ / ₈	16 GA / .063 AL	8**	14-3 ³ / ₄	-
15	YNA240BY-08	15	10-1 ¹ / ₈	4-1 ¹ / ₂	16 GA / .063 AL	8	16-1 ¹ / ₂	-

STANDARD BI INLET CONE DIMENSIONS WITH 1-1¹/₂" SLIP RINGS

IMP DIA	ROOT PART NUMBER	OD	ID	HT	THK	MTG	DBC	OD
		A1	B1	H	T1	N1	D1	B2
7-1 ¹ / ₁₆	YNA123BY-04AF	9-1 ¹ / ₈	5-3 ³ / ₈	2-3 ³ / ₈	16 GA / .063 AL	4	8-5 ⁵ / ₈	7-7 ⁷ / ₈
8-3 ³ / ₈	YNA134BY-04AF	10-1 ¹ / ₁₆	5-5 ⁵ / ₁₆	2-7 ⁷ / ₁₆	16 GA / .063 AL	4	9-5 ⁵ / ₁₆	7-7 ⁷ / ₈
9-3 ³ / ₁₆	YNA147BY-08AG	10-3 ³ / ₄	6-1 ¹ / ₈	2-3 ³ / ₈	16 GA / .063 AL	8	10	8-7 ⁷ / ₈
9-15 ¹⁵ / ₁₆	YNA159BY-08AH	12-1 ¹ / ₄	6-1 ¹ / ₂	2-1 ¹ / ₂	16 GA / .063 AL	8	11	9-7 ⁷ / ₈
10-5 ⁵ / ₈	YNA170BY-08AH	12-1 ¹ / ₂	7-1 ¹ / ₈	2-1 ¹ / ₂	16 GA / .063 AL	8	11-3 ³ / ₈	9-7 ⁷ / ₈
12-3 ³ / ₁₆	YNA195BY-08AK	14	8-1 ¹ / ₂	3-13 ¹³ / ₁₆	16 GA / .063 AL	8	13-1 ¹ / ₈	11-7 ⁷ / ₈
13-1 ¹ / ₂	YNA216BY-08AM	15	9-1 ¹ / ₁₆	4-1 ¹ / ₈	16 GA / .063 AL	8**	14-3 ³ / ₄	13-7 ⁷ / ₈
15	YNA240BY-08AN	15	10-1 ¹ / ₈	4-1 ¹ / ₂	16 GA / .063 AL	8	16-1 ¹ / ₂	15-7 ⁷ / ₈

** Notches (not holes) are used around the perimeter of the cone to accommodate the DBC listed.

LOW PROFILE BACKWARD-INCLINED INLET CONES



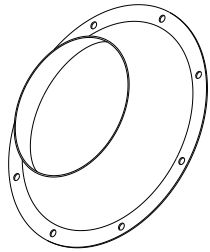
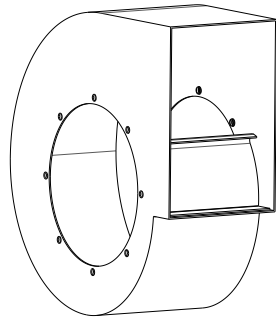
LOW PROFILE BACKWARD INCLINE INLET CONE DIMENSIONS

IMP DIA	ROOT PART NUMBER	OD	ID	HT	THK	MTG	DBC	OD
		A1	B1	H	T1	N1	D1	B2
7- ¹ / ₁₆	YNA123BZ-04	9- ³ / ₁₆	5- ³ / ₄	¹³ / ₁₆	16 GA / .063 AL	4	8- ⁵ / ₈	-
8- ³ / ₈	YNA134BZ-04	9- ⁷ / ₈	5- ³ / ₄	¹³ / ₁₆	16 GA / .063 AL	4	9- ⁵ / ₁₆	-
9- ³ / ₁₆	YNA147BZ-08	10- ⁹ / ₁₆	6- ¹ / ₁₆	⁷ / ₈	16 GA / .063 AL	8	10	-
9- ¹⁵ / ₁₆	YNA159BZ-08	11- ⁵ / ₈	6- ³ / ₄	1- ¹ / ₃₂	16 GA / .063 AL	8	11	-
10- ⁵ / ₈	YNA170BZ-08	12	7- ³ / ₈	⁷ / ₈	16 GA / .063 AL	8	11- ³ / ₈	-
11- ³ / ₁₆	YNA179BZ-08	13- ¹ / ₄	7- ⁷ / ₁₆	1- ¹ / ₃₂	16 GA / .063 AL	8	12- ¹ / ₄	-
12- ³ / ₁₆	YNA195BZ-08	13- ³ / ₄	8- ¹ / ₁₆	1- ⁵ / ₃₂	16 GA / .063 AL	8	13- ¹ / ₈	-
13- ¹ / ₂	YNA216BZ-08	15- ¹ / ₂	9- ³ / ₈	1- ⁷ / ₃₂	16 GA / .063 AL	8	14- ³ / ₄	-
15	YNA240BZ-08	17- ¹ / ₈	10- ⁷ / ₁₆	1- ⁵ / ₁₆	16 GA / .063 AL	8	16- ¹ / ₂	-

LOW PROFILE BI INLET CONE DIMENSIONS WITH 1-1/2" SLIP RINGS

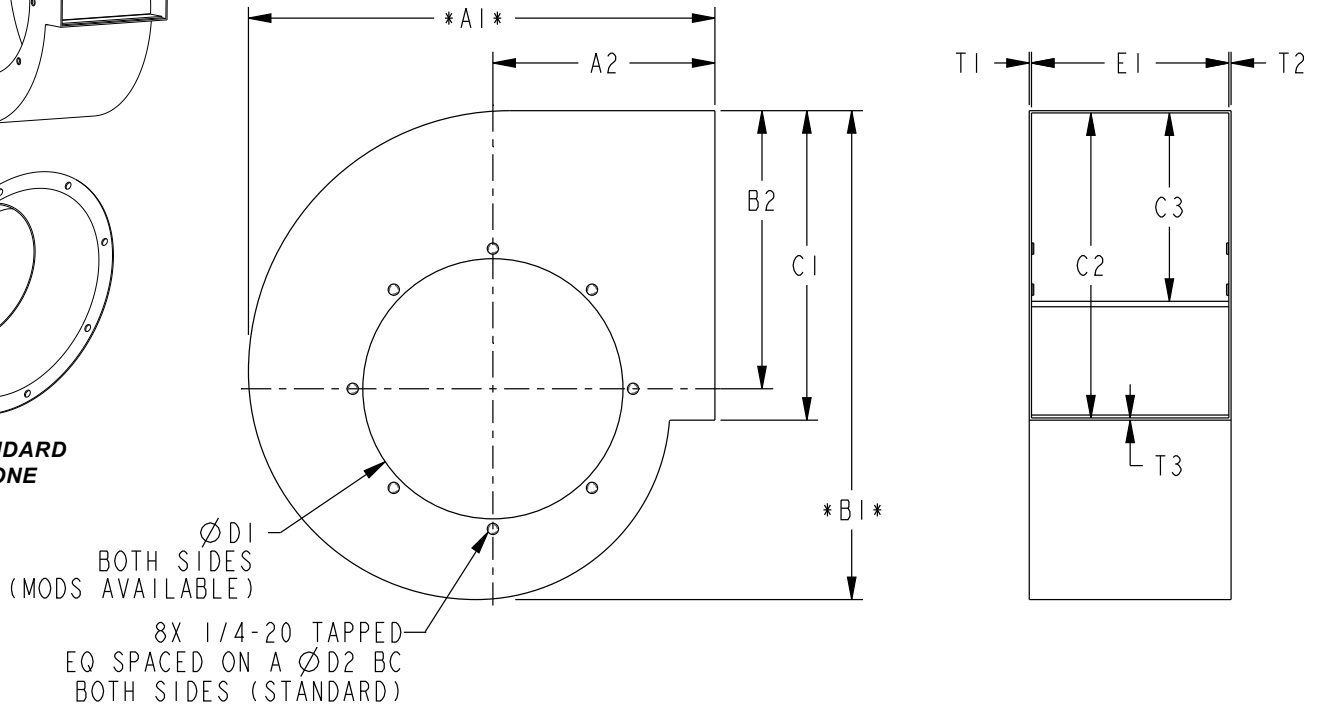
IMP DIA	ROOT PART NUMBER	OD	ID	HT	THK	MTG	DBC	OD
		A1	B1	H	T1	N1	D1	B2
7- ¹ / ₁₆	YNZ123BZ-04AF	9- ³ / ₁₆	5- ³ / ₄	¹³ / ₁₆	16 GA / .063 AL	4	8- ⁵ / ₈	7- ⁷ / ₈
8- ³ / ₈	YNZ134BZ-04AF	9- ⁷ / ₈	5- ³ / ₄	¹³ / ₁₆	16 GA / .063 AL	4	9- ⁵ / ₁₆	7- ⁷ / ₈
9- ³ / ₁₆	YNZ147BZ-08AG	10- ⁹ / ₁₆	6- ¹ / ₁₆	⁷ / ₈	16 GA / .063 AL	8	10	8- ⁷ / ₈
9- ¹⁵ / ₁₆	YNZ159BZ-08AH	11- ⁵ / ₈	6- ³ / ₄	1- ¹ / ₃₂	16 GA / .063 AL	8	11	9- ⁷ / ₈
10- ⁵ / ₈	YNZ170BZ-08AH	12	7- ³ / ₈	⁷ / ₈	16 GA / .063 AL	8	11- ³ / ₈	9- ⁷ / ₈
11- ³ / ₁₆	YNZ179BZ-08AK	13- ¹ / ₄	7- ⁷ / ₁₆	1- ¹ / ₃₂	16 GA / .063 AL	8	12- ¹ / ₄	10- ⁷ / ₈
12- ³ / ₁₆	YNZ195BZ-08AK	13- ³ / ₄	8- ¹ / ₁₆	1- ⁵ / ₃₂	16 GA / .063 AL	8	13- ¹ / ₈	11- ⁷ / ₈
13- ¹ / ₂	YNA216BZ-08AM	15- ¹ / ₂	9- ³ / ₈	1- ⁷ / ₃₂	16 GA / .063 AL	8	14- ³ / ₄	13- ⁷ / ₈
15	YNA240BZ-08AN	17- ¹ / ₈	10- ⁷ / ₁₆	1- ⁵ / ₁₆	16 GA / .063 AL	8	16- ¹ / ₂	15- ⁷ / ₈

STANDARD HOUSINGS (FOR STANDARD INLET CONES)



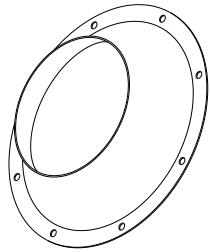
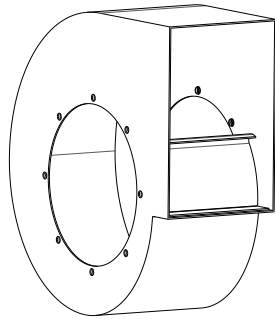
**STANDARD
CONE**

**- FOR USE WITH STANDARD BI CONES -
(CONE SOLD SEPARATELY, SEE P. 10)**



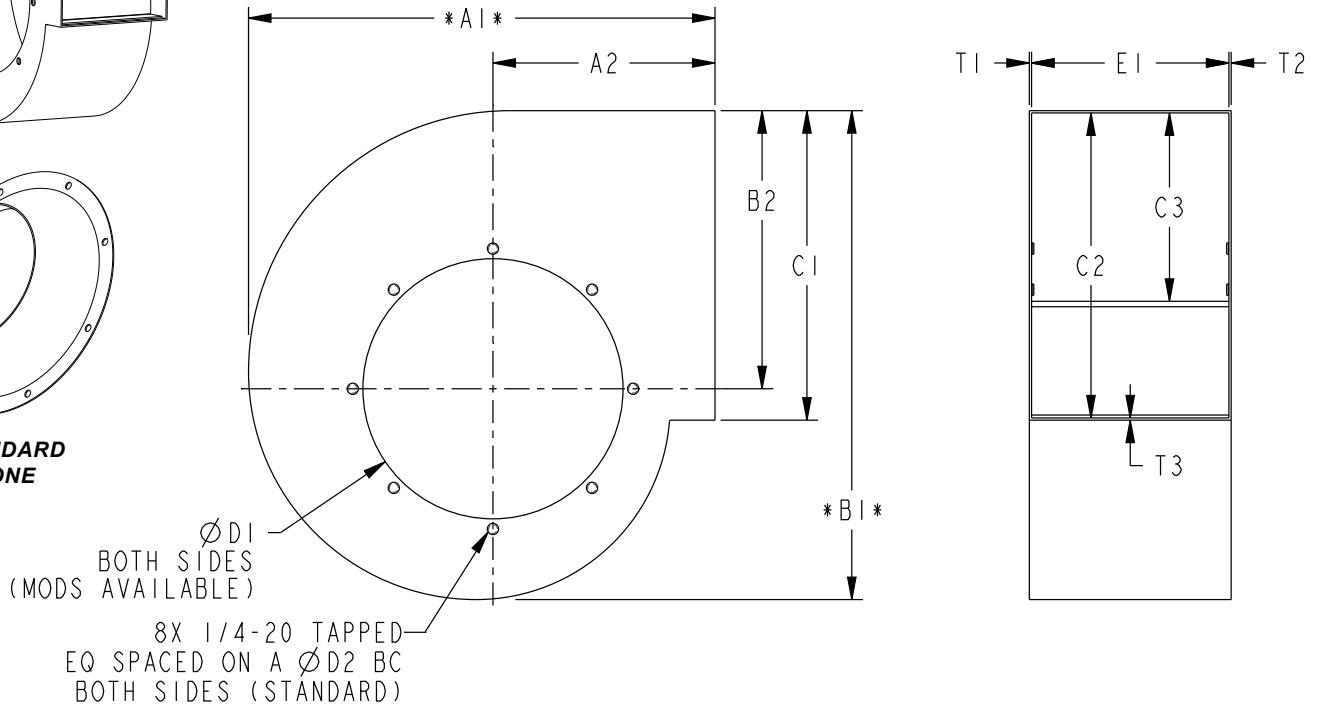
STANDARD HOUSING DIMENSIONS (FOR USE WITH STANDARD INLET CONE)											PART NUMBERS		
IMP DIA	WIDTH		HEIGHT		DISCHARGE			ID	DBC	BLD HT	BSP	[PREFIXES ONLY]	
	A1	A2	*B1*	B2	C1	C2	C3	D1	D2		E1	ALL-WELDED	SLIP SEAM
7- ¹ / ₁₆	13- ¹ / ₄	6- ⁷ / ₁₆	13- ⁵ / ₈	7- ³ / ₄	8- ⁵ / ₈	8- ¹ / ₂	5- ¹ / ₄	7- ¹⁵ / ₁₆	8- ⁵ / ₈	2- ¹ / ₄	5- ⁷ / ₈	HYN123094	HZN123094
										2- ³ / ₄	6- ³ / ₈	HYN123102	HZN123102
8- ³ / ₈	14- ³ / ₈	7	14- ³ / ₄	8- ³ / ₈	9- ³ / ₈	9- ¹ / ₄	5- ³ / ₄	8- ³ / ₄	9- ⁵ / ₁₆	2- ¹ / ₄	6	HYN134096	HZN134096
										2- ³ / ₄	6- ¹ / ₂	HYN134104	HZN134104
9- ³ / ₁₆	15- ⁵ / ₈	7- ¹ / ₂	16- ¹ / ₄	9- ¹ / ₄	10- ¹ / ₄	10- ⁷ / ₈	6- ³ / ₈	9- ⁷ / ₁₆	10	2- ¹ / ₄	6	HYN147096	HZN147096
										2- ³ / ₄	6- ¹ / ₂	HYN147104	HZN147104
										3- ¹ / ₈	6- ⁷ / ₈	HYN147110	HZN147110
9- ¹⁵ / ₁₆	16- ⁷ / ₈	8	17- ³ / ₄	10- ¹ / ₈	11- ¹ / ₈	11	7- ¹ / ₈	10- ³ / ₁₆	11	2- ¹ / ₄	6- ¹ / ₄	HYN159100	HZN159100
										2- ³ / ₄	6- ³ / ₄	HYN159108	HZN159108
										3- ¹ / ₈	7- ¹ / ₈	HYN159114	HZN159114
10- ⁵ / ₈	18- ³ / ₈	8- ¹⁵ / ₁₆	18- ⁷ / ₈	10- ³ / ₄	11- ⁷ / ₈	11- ³ / ₄	7- ¹ / ₂	10- ⁷ / ₈	11- ³ / ₈	2- ¹ / ₄	6- ¹ / ₄	HYN170100	HZN170100
										2- ³ / ₄	6- ³ / ₄	HYN170108	HZN170108
										3- ¹ / ₈	7- ¹ / ₈	HYN170114	HZN170114
										3- ³ / ₄	7- ³ / ₄	HYN170124	HZN170124
11- ³ / ₁₆	19- ¹ / ₈	9- ³ / ₁₆	19- ⁷ / ₈	11- ⁵ / ₁₆	12- ¹ / ₂	12- ³ / ₈	8	11- ³ / ₄	12- ¹ / ₄	Standard Cone Not Available - See "Low Profile" Options p. 14 -			

STANDARD HOUSINGS (FOR STANDARD INLET CONES, CONTINUED...)



**STANDARD
CONE**

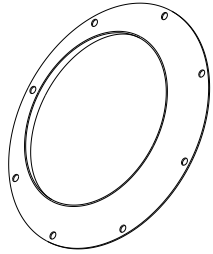
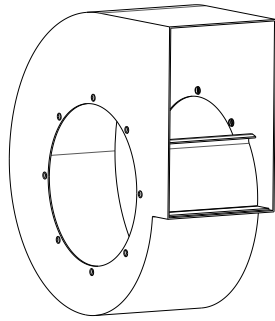
**- FOR USE WITH STANDARD BI CONES -
(CONE SOLD SEPARATELY, SEE P. 10)**



STANDARD HOUSING DIMENSIONS (FOR USE WITH STANDARD INLET CONE)											PART NUMBERS		
IMP DIA	WIDTH		HEIGHT		DISCHARGE			ID	DBC	BLD HT	BSP	[PREFIXES ONLY]	
	A1	A2	*B1*	B2	C1	C2	C3	D1	D2		E1	ALL-WELDED	SLIP SEAM
12- ³ / ₁₆	20- ³ / ₄	9- ¹⁵ / ₁₆	21- ⁵ / ₈	12- ⁵ / ₁₆	13- ⁵ / ₈	13- ¹ / ₂	8- ³ / ₄	12- ⁹ / ₁₆	13- ¹ / ₈	2- ¹ / ₄	7- ³ / ₄	HYN195124	HZN195124
										2- ³ / ₄	8- ¹ / ₄	HYN195132	HZN195132
										3- ¹ / ₈	8- ⁵ / ₈	HYN195138	HZN195138
										3- ³ / ₄	9- ¹ / ₄	HYN195148	HZN195148
13- ¹ / ₂	22- ³ / ₄	10- ¹¹ / ₁₆	24- ¹ / ₈	13- ¹ / ₄	15	14- ⁷ / ₈	9- ⁷ / ₈	14- ¹ / ₈	14- ³ / ₄	2- ¹ / ₄	8- ¹ / ₈	HYN216130	Not Available
										2- ³ / ₄	8- ⁵ / ₈	HYN216138	
										3- ¹ / ₈	9	HYN216144	
										3- ³ / ₄	9- ⁵ / ₈	HYN216154	
										4- ¹ / ₂	10- ³ / ₈	HYN216166	
15	25- ¹ / ₈	11- ³ / ₄	26- ³ / ₄	15- ¹ / ₄	16- ³ / ₄	16- ⁵ / ₈	11	15- ⁵ / ₈	16- ¹ / ₂	2- ¹ / ₄	8- ¹ / ₂	HYN240136	Not Available
										2- ³ / ₄	9	HYN240144	
										3- ¹ / ₈	9- ³ / ₈	HYN240150	
										3- ³ / ₄	10	HYN240160	
										4- ¹ / ₂	10- ³ / ₄	HYN240172	
										5	11- ¹ / ₄	HYN240180	

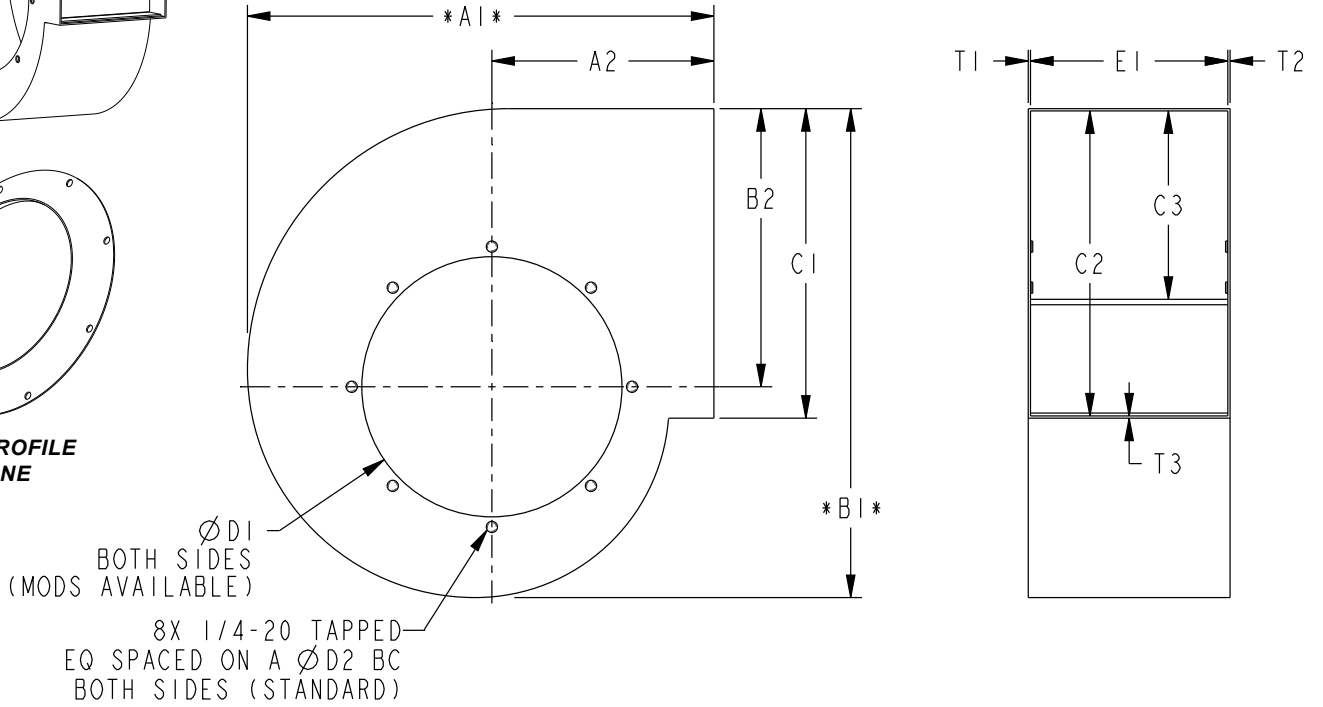
- All-Welded seam illustrated above and on previous page - alternate options available; see next page (p. 14) for details.
- * Slip Seam Construction Only: Dimension is ¹/₁₆" greater than the value listed.
- Consult factory for product weights.

HOUSINGS (*FOR LOW PROFILE INLET CONES)



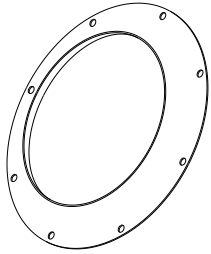
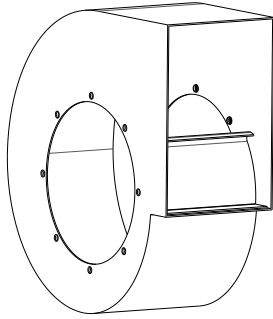
LOW PROFILE CONE

**- FOR USE WITH LOW PROFILE BI CONES -
(CONE SOLD SEPARATELY, SEE P. 11)**



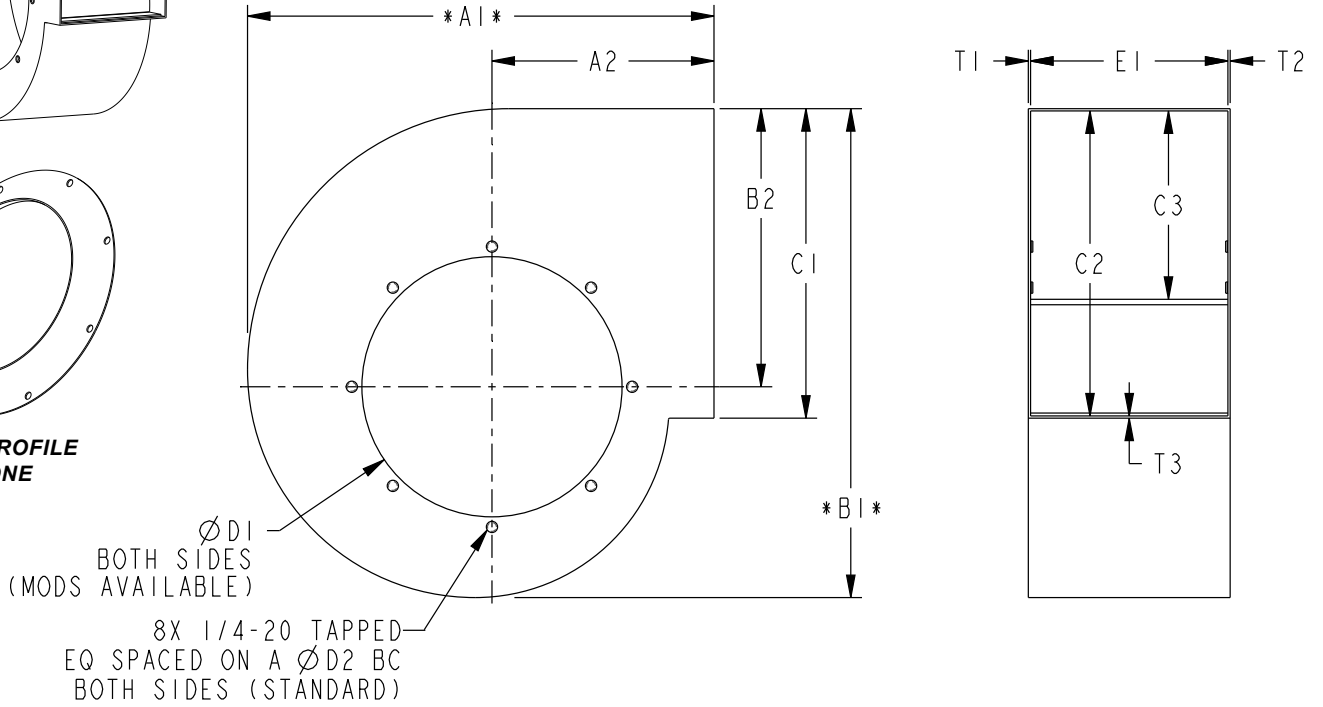
STANDARD HOUSING DIMENSIONS (FOR USE WITH LOW PROFILE INLET CONE)											PART NUMBERS		
IMP DIA	WIDTH		HEIGHT		DISCHARGE			ID	DBC	BLD HT	BSP	[PREFIXES ONLY]	
	A1	A2	*B1*	B2	C1	C2	C3	D1	D2		E1	ALL-WELDED	SLIP SEAM
7- ¹ / ₁₆	13- ¹ / ₄	6- ⁷ / ₁₆	13- ⁵ / ₈	7- ³ / ₄	8- ⁵ / ₈	8- ¹ / ₂	5- ¹ / ₄	7- ¹⁵ / ₁₆	8- ⁵ / ₈	2- ¹ / ₄	4- ³ / ₈	HYN123070	HZN123070
										2- ³ / ₄	4- ⁷ / ₈	HYN123078	HZN123078
8- ³ / ₈	14- ³ / ₈	7	14- ³ / ₄	8- ³ / ₈	9- ³ / ₈	9- ¹ / ₄	5- ³ / ₄	8- ³ / ₄	9- ⁵ / ₁₆	2- ¹ / ₄	4- ³ / ₈	HYN134070	HZN134070
										2- ³ / ₄	4- ⁷ / ₈	HYN134078	HZN134078
9- ³ / ₁₆	15- ⁵ / ₈	7- ¹ / ₂	16- ¹ / ₄	9- ¹ / ₄	10- ¹ / ₄	10- ⁷ / ₈	6- ³ / ₈	9- ⁷ / ₁₆	10	2- ¹ / ₄	4- ¹ / ₂	HYN147072	HZN147072
										2- ³ / ₄	5	HYN147080	HZN147080
										3- ¹ / ₈	5- ³ / ₈	HYN147086	HZN147086
9- ¹⁵ / ₁₆	16- ⁷ / ₈	8	17- ³ / ₄	10- ¹ / ₈	11- ¹ / ₈	11	7- ¹ / ₈	10- ³ / ₁₆	11	2- ¹ / ₄	4- ⁷ / ₈	HYN159078	HZN159078
										2- ³ / ₄	5- ³ / ₈	HYN159086	HZN159086
										3- ¹ / ₈	5- ³ / ₄	HYN159092	HZN159092
10- ⁵ / ₈	18- ³ / ₈	8- ¹⁵ / ₁₆	18- ⁷ / ₈	10- ³ / ₄	11- ⁷ / ₈	11- ³ / ₄	7- ¹ / ₂	10- ⁷ / ₈	11- ³ / ₈	2- ¹ / ₄	4- ³ / ₈	HYN170076	HZN170076
										2- ³ / ₄	5- ¹ / ₈	HYN170084	HZN170084
										3- ¹ / ₈	5- ¹ / ₂	HYN170090	HZN170090
										3- ³ / ₄	6- ¹ / ₈	HYN170100	HZN170100
11- ³ / ₁₆	19- ¹ / ₈	9- ³ / ₁₆	19- ⁷ / ₈	11- ⁵ / ₁₆	12- ¹ / ₂	12- ³ / ₈	8	11- ³ / ₄	12- ¹ / ₄	2- ¹ / ₄	4- ⁷ / ₈	HYN179078	HZN179078
										2- ³ / ₄	5- ³ / ₈	HYN179086	HZN179086
										3- ¹ / ₈	5- ³ / ₄	HYN179092	HZN179092
										3- ³ / ₄	6- ³ / ₈	HYN179102	HZN179102

HOUSINGS (*FOR LOW PROFILE INLET CONES, CONTINUED...)



**LOW PROFILE
CONE**

**- FOR USE WITH LOW PROFILE BI CONES -
(CONE SOLD SEPARATELY, SEE P. 11)**



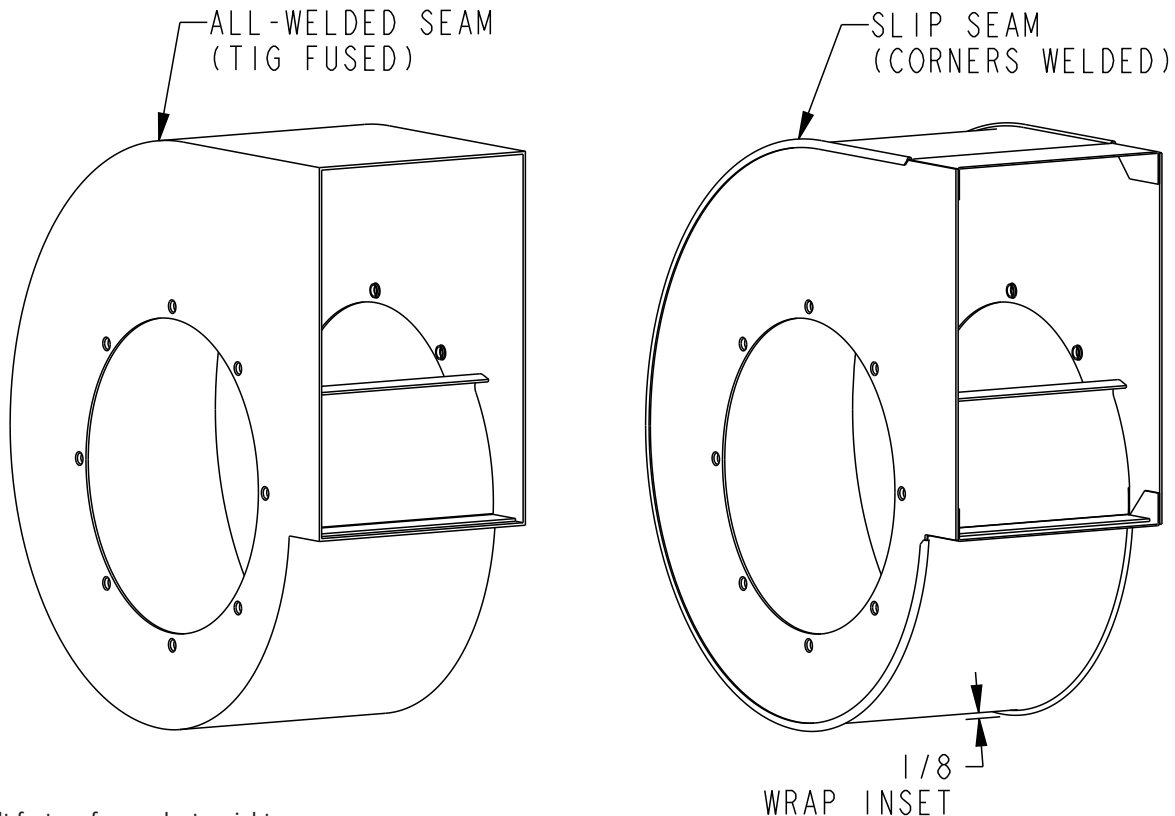
STANDARD HOUSING DIMENSIONS (FOR USE WITH LOW PROFILE INLET CONE)											PART NUMBERS		
IMP DIA	WIDTH		HEIGHT		DISCHARGE			ID	DBC	BLD HT	BSP	[PREFIXES ONLY]	
	A1	A2	*B1*	B2	C1	C2	C3	D1	D2		E1	ALL-WELDED	SLIP SEAM
12- ³ / ₁₆	20- ³ / ₄	9- ¹⁵ / ₁₆	21- ⁵ / ₈	12- ⁵ / ₁₆	13- ⁵ / ₈	13- ¹ / ₂	8- ³ / ₄	12- ³ / ₁₆	13- ¹ / ₈	2- ¹ / ₄	5	HYN195080	HZN195080
										2- ³ / ₄	5- ¹ / ₂	HYN195088	HZN195088
										3- ¹ / ₈	5- ⁷ / ₈	HYN195094	HZN195094
										3- ³ / ₄	6- ¹ / ₂	HYN195104	HZN195104
13- ¹ / ₂	22- ³ / ₄	10- ¹¹ / ₁₆	24- ¹ / ₈	13- ¹ / ₄	15	14- ⁷ / ₈	9- ⁷ / ₈	14- ¹ / ₈	14- ³ / ₄	2- ¹ / ₄	5- ¹ / ₈	HYN216082	Not Available
										2- ³ / ₄	5- ⁵ / ₈	HYN216090	
										3- ¹ / ₈	6	HYN216096	
										3- ³ / ₄	6- ³ / ₈	HYN216106	
										4- ¹ / ₂	7- ³ / ₈	HYN216118	
15	25- ¹ / ₈	11- ³ / ₄	26- ³ / ₄	15- ¹ / ₄	16- ³ / ₄	16- ⁵ / ₈	11	15- ⁵ / ₈	16- ¹ / ₂	2- ¹ / ₄	5- ³ / ₈	HYN240086	Not Available
										2- ³ / ₄	5- ⁷ / ₈	HYN240094	
										3- ¹ / ₈	6- ¹ / ₄	HYN240100	
										3- ³ / ₄	6- ⁷ / ₈	HYN240110	
										4- ¹ / ₂	7- ⁵ / ₈	HYN240122	
										5	8- ¹ / ₈	HYN240130	

- All-Welded seam illustrated above and on previous page - alternate options available; see next page (p. 14) for details.
- * Slip Seam Construction Only: Dimension is ¹/₁₆" greater than the value listed.
- Consult factory for product weights.

HOUSINGS: CONSTRUCTION MODIFICATIONS

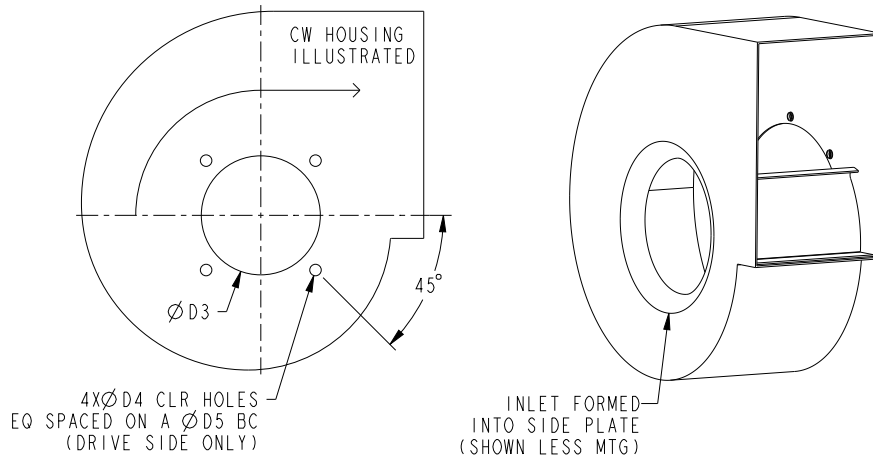
[T] = CONSTRUCTION AND MATERIAL THICKNESS MODIFICATIONS (SEE FIGURE A)					
MODIFICATION DESCRIPTION	THICKNESSES (SIDE PLATES & WRAP)			STYLE	SYMBOL
	T1	T2	T3		
ALL-WELDED 16 GA CONSTRUCTION	16 GA / .063 AL	16 GA / .063 AL	16 GA / .063 AL	AW	6
ALL-WELDED 14 GA CONSTRUCTION	14 GA / .090 AL	14 GA / .090 AL	14 GA / .090 AL	AW	4
ALL-WELDED 12 GA CONSTRUCTION	12 GA / .125 AL	12 GA / .125 AL	12 GA / .125 AL	AW	2
ALL-WELDED, 14 GA SIDE PLATES	14 GA / .090 AL	14 GA / .090 AL	16 GA / .063 AL	AW	A
ALL-WELDED, 12 GA SIDES, 14 GA WRAP	12 GA / .125 AL	12 GA / .125 AL	14 GA / .090 AL	AW	B
ALL-WELDED, 14 GA "CW" SIDE PLATE	14 GA / .090 AL	16 GA / .063 AL	16 GA / .063 AL	AW	E
ALL-WELDED, 14 GA "CCW" SIDE PLATE	16 GA / .063 AL	14 GA / .090 AL	16 GA / .063 AL	AW	F
ALL-WELDED, 12 GA "CW" SIDE PLATE	12 GA / .125 AL	16 GA / .063 AL	16 GA / .063 AL	AW	G
ALL-WELDED, 12 GA "CCW" SIDE PLATE	16 GA / .063 AL	12 GA / .125 AL	16 GA / .063 AL	AW	H
ALL-WELDED 14 GA, 12 GA "CW" SIDE PLATE	12 GA / .125 AL	14 GA / .090 AL	14 GA / .090 AL	AW	M
ALL-WELDED 14 GA, 12 GA "CCW" SIDE PLATE	14 GA / .090 AL	12 GA / .125 AL	14 GA / .090 AL	AW	N
SLIP-SEAM, STANDARD (STEEL & STAINLESS ONLY)	16 GA	16 GA	20 GA	SLIP	3
SLIP-SEAM, THICK WRAP (STEEL & STAINLESS ONLY)	16 GA	16 GA	18 GA	SLIP	5
SLIP-SEAM, EXTRA THICK (STEEL & STAINLESS ONLY)	14 GA	14 GA	18 GA	SLIP	7
SLIP-SEAM, THICK PLATES (STEEL & STAINLESS ONLY)	14 GA	14 GA	20 GA	SLIP	9

FIGURE A: ALL-WELDED VS. SLIP SEAM CONSTRUCTION



- Consult factory for product weights.
- Material thicknesses are listed by gauge for steels and stainless steels followed by decimal thicknesses in aluminum.

HOUSINGS: SIDE PLATE MODIFICATIONS

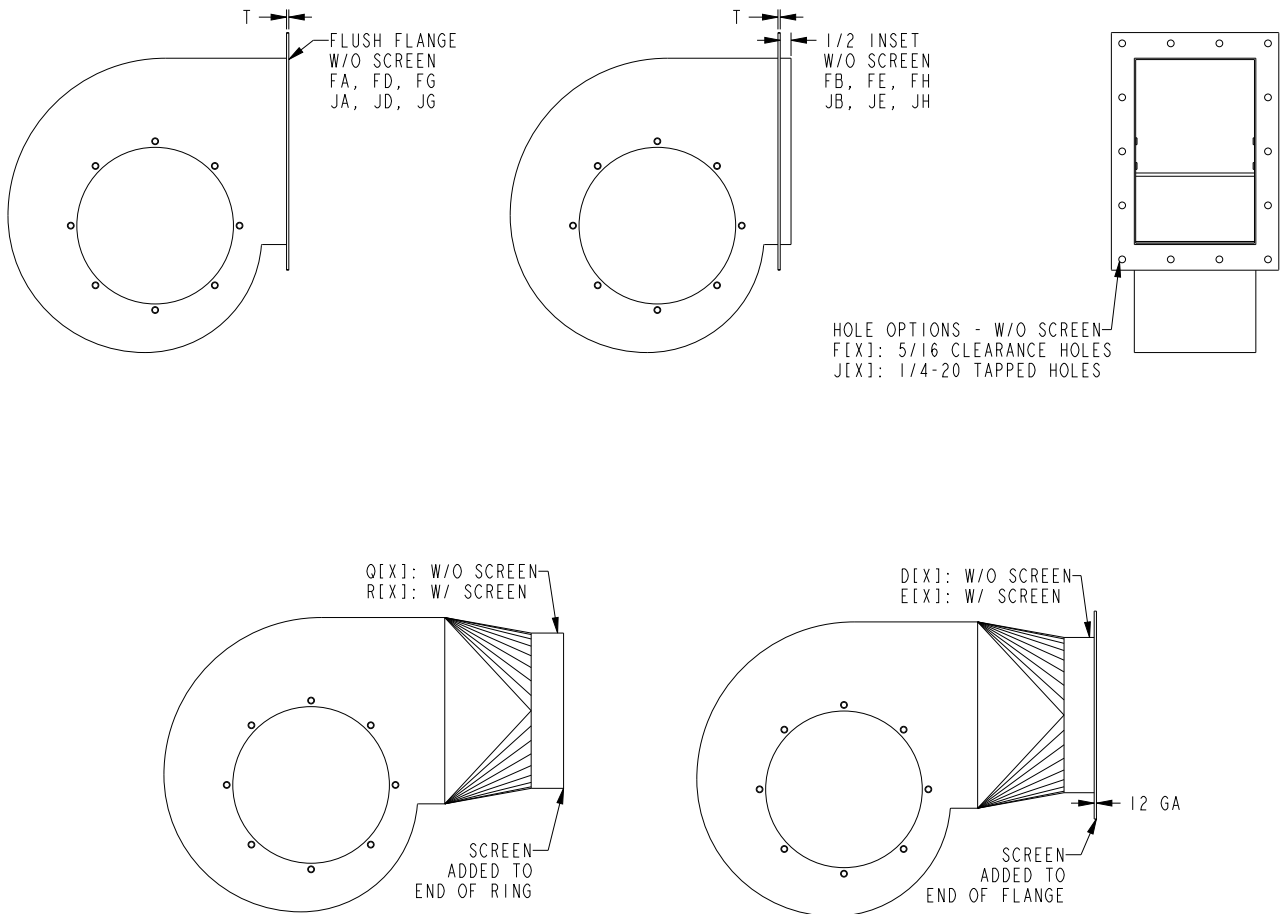


[P] = DRIVE SIDE PLATE MODIFICATIONS (*ROTATION SPECIFIED BY DRIVE SIDE PLATE*)				
DRIVE SIDE PLATE MODIFICATIONS	D3	D4	D5	SYMBOL
STANDARD ID / STANDARD DBC / MOUNTING HOLES	-	-	-	X
42-48 CFACE	3	0.31	3-¾	A
56-184 (NOT 182T OR 184T) CFACE	4-½	0.43	5-⅞	B
182T-256T CFACE	2	0.53	7-¼	C
284-286 CFACE	2-½	0.53	9	D
324-405 CFACE	3-½	0.65	11	E
1-½" ID, WITH STANDARD MOUNTING HOLES	1-½	-	-	F
2" ID, WITH STANDARD MOUNTING HOLES	2	-	-	G
2-½" ID, WITH STANDARD MOUNTING HOLES	2-½	-	-	H
2-¾" ID, WITH STANDARD MOUNTING HOLES	2-¾	-	-	J
3-½" ID, WITH STANDARD MOUNTING HOLES	3-½	-	-	K
STANDARD ID / STANDARD DBC / MTG STUDS	-	-	-	M
1-½" ID / STANDARD DBC / MTG STUDS	1-½	-	-	N
2" ID / STANDARD DBC / MTG STUDS	2	-	-	P
2-½" ID / STANDARD DBC / MTG STUDS	2-½	-	-	Q
2-¾" ID / STANDARD DBC / MTG STUDS	2-¾	-	-	R
3-½" ID / STANDARD DBC / MTG STUDS	3-½	-	-	S
STANDARD ID / NO MOUNTING HOLES OR STUDS	-	-	-	T
1-½" ID / NO MOUNTING HOLES OR STUDS	1-½	-	-	U
2" ID / NO MOUNTING HOLES OR STUDS	2	-	-	V
2-½" ID / NO MOUNTING HOLES OR STUDS	2-½	-	-	W
2-¾" ID / NO MOUNTING HOLES OR STUDS	2-¾	-	-	Y
3-½" ID / NO MOUNTING HOLES OR STUDS	3-½	-	-	Z
CLOSED (NO ID OR MOUNTING HOLES)	-	-	-	0

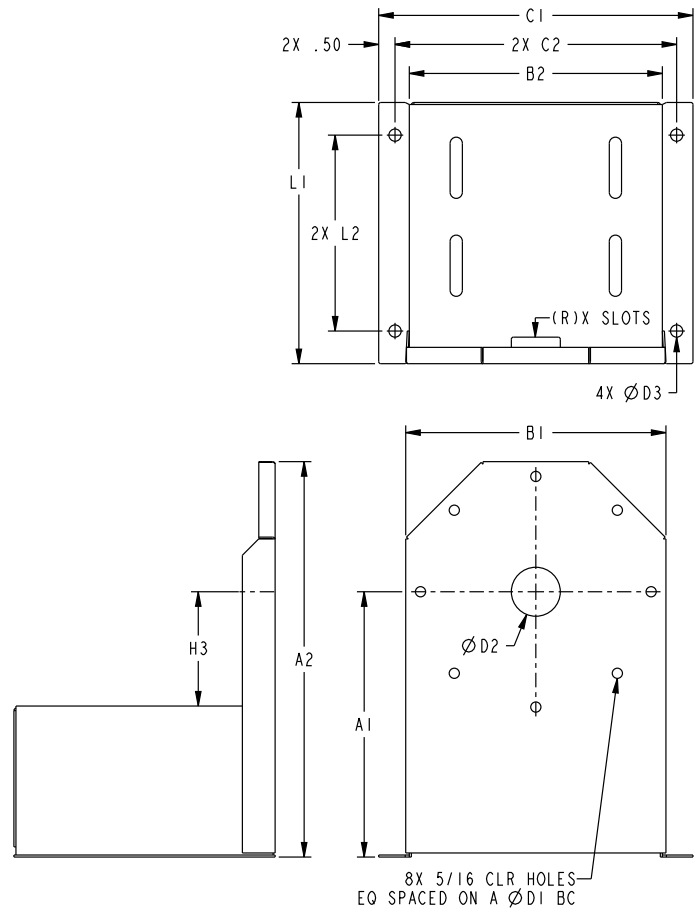
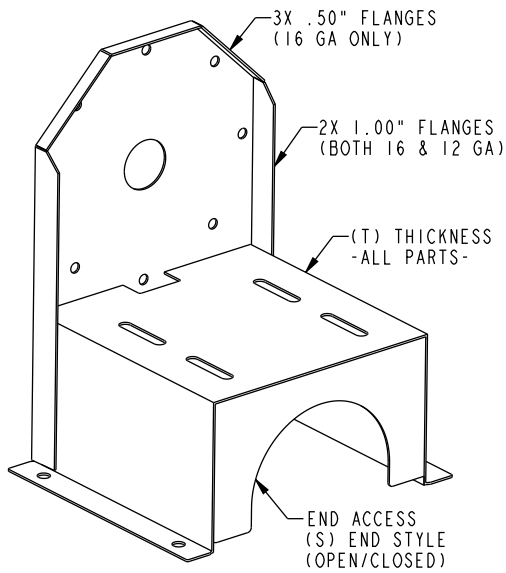
[P] = INLET SIDE PLATE MODIFICATIONS (*ROTATION SPECIFIED BY DRIVE SIDE PLATE*)	
STANDARD DRIVE SIDE / BUILT-IN CONE (NO MTG) - FOR "LOW PROFILE" B-SERIES FORMED CONES	3
STANDARD DRIVE SIDE / BUILT-IN CONE (MTG HOLES) - FOR "LOW PROFILE" B-SERIES FORMED CONES	4
STANDARD DRIVE SIDE / WELD-IN CONE (NO MTG) - FOR "STANDARD" B-SERIES SPUN CONES	5
STANDARD DRIVE SIDE / WELD-IN CONE (MTG HOLES) - FOR "STANDARD" B-SERIES SPUN CONES	6

HOUSINGS: DISCHARGE MODIFICATIONS

[DD] = DISCHARGE OPTIONS (FLANGES & ROUND TRANSITIONS)			
MODIFICATION DESCRIPTION - FLANGES	SYMBOL BY THICKNESS (T)		
	16 GA/.063	14 GA/.090	12 GA/.125
FLUSH DISCHARGE FLANG WITH 5/16" CLEARANCE HOLES	F6	F4	F2
1/2" INSET DISCHARGE FLANGE WITH 5/16" CLEARANCE HOLES	FA	FB	FC
FLUSH DISCHARGE FLANGE WITH 5/16" CLEARANCE HOLES & 20 GA SCREEN	G6	G4	G2
FLUSH DISCHARGE FLANGE WITH 1/4-20 MOUNTING HOLES	J6	J4	J2
1/2" INSET DISCHARGE FLANGE WITH 1/4-20 MOUNTING HOLES	JA	JB	JC
FLUSH DISCHARGE FLANGE WITH 1/4-20 MOUNTING HOLES & 20 GA SCREEN	K6	K4	K2
MODIFICATION DESCRIPTION - FLANGES SYMBOL	SYMBOL- FILL [X] FROM NEXT TABLE		
RECTANGLE-TO-ROUND TRANSITION - ANGLE RING END	D[X]		
RECTANGLE-TO-ROUND TRANSITION - SLIP RING END	Q[X]		



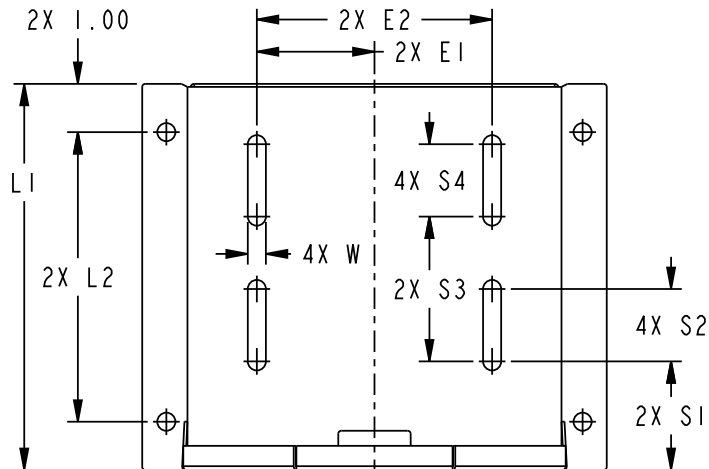
B-SERIES ARR. 4 PEDESTALS



STANDARD PEDESTAL DIMENSIONS (AVAILABLE IN STEEL & STAINLESS STEELS)																		
IMP DIA	AXIS	DBC	HT	PART WIDTHS				MTG	THK	ID	LGTHS	END	SLTS	HT	HS	MOTOR	CATALOG #	
	A1	D1	A2	B1	B2	C1	C2	D3	T	D2	L1	L2	S	R	H3	SIZE	FRAME	[ROOT]
5	6-3/4	5-13/16	10-7/8	6-3/4	6-3/8	8-1/2	7-1/2	13/32	16 GA	1	8	6	Open	1	3	4-3/4	48 ONLY	P4Z080A-6
										1-1/4	10	8	Open	0	3-1/2	4-3/4	56 ONLY	P4Z080B-6
										1-1/2	10	8	Open	0	3-1/2	4-3/4	56-145T	P4Z080D-6
5-1/2	7-1/4	6-1/8	10-7/8	7-1/4	6-7/8	9	8	13/32	16 GA	1	8	6	Open	1	3	4-3/4	48 ONLY	P4Z088A-6
										1-1/4	10	8	Open	0	3-1/2	4-3/4	56 ONLY	P4Z088B-6
										1-1/2	10	8	Open	0	3-1/2	4-3/4	56-145T	P4Z088D-6
6-1/4	7-3/4	7-1/16	11-3/4	8	7-5/8	9-3/4	8-3/4	13/32	16 GA	1	8	6	Open	0	3	4-3/4	48 ONLY	P4Z100A-6
										1-1/4	10	8	Open	1	3-1/2	4-3/4	56 ONLY	P4Z100B-6
										1-1/2	10	8	Open	1	3-1/2	4-3/4	56-145T	P4Z100D-6
7	8-3/4	7-13/16	13-1/4	9	8-5/8	10-3/4	9-3/4	13/32	16 GA	1	8	6	Closed	2	3	4-3/4	48 ONLY	P4Z112A-6
										1-1/4	10	8	Open	0	3-1/2	4-3/4	56 ONLY	P4Z112B-6
										1-1/2	10	8	Open	0	3-1/2	4-3/4	56-145T	P4Z112D-6
7-11/16	9-1/4	8-5/8	14-1/8	9-3/4	9-3/8	11-1/2	10-1/2	13/32	16 GA	1	8	6	Closed	2	3	4-3/4	48 ONLY	P4Z123A-6
										1-1/4	10	8	Closed	0	3-1/2	4-3/4	56 ONLY	P4Z123B-6
										1-1/2	10	8	Closed	0	3-1/2	4-3/4	56-145T	P4Z123D-6
										1-3/4	12	10	Open	1	4-1/2	6	182-184T	P4Z123E-6

IMP DIA	AXIS	DBC	HT	PART WIDTHS				MTG	THK	ID	LGTHS		END	SLTS	HT	HS SIZE	MOTOR FRAME	PART #								
	A1			D1	A2	B1	B2				C1	C2							D3	T	D2	L1	L2	S	R	H3
8-3/8	10	9-5/16	15-1/8	10-1/4	9-7/8	12	11	13/32	16 GA	1	8	6	Closed	2	3	4-3/4	48 ONLY	P4Z134A-6								
										1-1/4	10	8	Closed	2	3-1/2	4-3/4	56 ONLY	P4Z134B-6								
										1-1/2	10	8	Closed	2	3-1/2	4-3/4	56-145T	P4Z134D-6								
										1-3/4	12	10	Open	1	4-1/2	6	182-184T	P4Z134E-6								
9-3/16	10-3/4	10	16-1/4	11	10-3/4	12-3/4	11-3/4	13/32	16 GA	1	8	6	Closed	0	3	4-3/4	48	P4Z147A-6								
										1-1/4	10	8	Closed	2	3-1/2	4-3/4	56 ONLY	P4Z147B-6								
										1-1/2	10	8	Closed	2	3-1/2	4-3/4	56-145T	P4Z147D-6								
										1-3/4	12	10	Closed	0	4-1/2	6	182-184T	P4Z147E-6								
								17/32	12 GA	2-1/4	14	12	Open	1	5-1/4	6	213-215T	P4Z147G-2								
			17-7/8	14-1/4	14	16	15	21/32	12 GA	2-1/2	18	16	Open	0	6-1/4	6	254-256T	P4Z147J-2								
9-15/16	11-3/4	11	17-3/4	12	11-3/4	13-3/4	12-3/4	13/32	16 GA	1	8	6	Closed	0	3	4-3/4	48	P4Z159A-6								
										1-1/4	10	8	Closed	2	3-1/2	4-3/4	56 ONLY	P4Z159B-6								
										1-1/2	10	8	Closed	2	3-1/2	4-3/4	56-145T	P4Z159D-6								
										1-3/4	12	10	Closed	0	4-1/2	6	182-184T	P4Z159E-6								
								17/32	12 GA	2-1/4	14	12	Closed	1	5-1/4	6	213-215T	P4Z159G-2								
			18-7/8	14-1/4	14	16	15	21/32	12 GA	2-1/2	18	16	Closed	0	6-1/4	6	254-256T	P4Z159J-2								
10-5/8	12-1/4	11-3/8	18-1/2	12-1/2	12-1/4	14-1/4	13-1/4	13/32	16 GA	1-1/4	10	8	Closed	0	3-1/2	6	56 ONLY	P4Z170B-6								
										1-1/2	10	8	Closed	0	3-1/2	6	56-145T	P4Z170D-6								
										1-3/4	12	10	Closed	0	4-1/2	6	182-184T	P4Z170E-6								
								17/32	12 GA	2-1/4	14	12	Closed	0	5-1/4	6	213-215T	P4Z170G-2								
								20-3/8	16-1/4	16	18	17	21/32	12 GA				2-1/2	18	16	Closed	0	6-1/4	6	254-256T	P4Z170J-2
																		3	20	18	Closed	0	7	6	284-286TS	P4Z170K-2
3-1/8	22	20	Closed	0	8	6	324-326TS											P4Z170M-2								
11-3/16	13-1/4	12-1/4	19-7/8	13-1/4	13	15	14	13/32	16 GA	1-1/4	10	8	Closed	0	3-1/2	6	56 ONLY	P4Z179B-6								
										1-1/2	10	8	Closed	0	3-1/2	6	56-145T	P4Z179D-6								
										1-3/4	12	12	Closed	2	4-1/2	6	182-184T	P4Z179E-6								
								17/32	12 GA	2-1/4	14	14	Closed	0	5-1/4	7-1/2	213-215T	P4Z179G-2								
										2-1/2	18	18	Closed	1	6-1/4	7-1/2	254-256T	P4Z179J-2								
								21-3/8	18-1/4	18	20	19	21/32	12 GA				3	20	20	Closed	0	7	7-1/2	284-286TS	P4Z179K-2
																		3-1/8	22	22	Closed	0	8	7-1/2	324-326TS	P4Z179M-2
12-3/16	14	13-3/8	21-1/8	14-1/4	14	16	15	13/32	16 GA	1-1/4	10	8	Closed	0	3-1/2	6	56 ONLY	P4Z195B-6								
										1-1/2	10	8	Closed	0	3-1/2	6	56-145T	P4Z195D-6								
										1-3/4	12	10	Closed	2	4-1/2	6	182-184T	P4Z195E-6								
								17/32	12 GA	2-1/4	14	12	Closed	0	5-1/4	7-1/2	213-215T	P4Z195G-2								
										2-1/2	18	16	Closed	1	6-1/4	7-1/2	254-256T	P4Z195J-2								
								22-5/8	17-1/4	17	20	18-1/2	21/32	12 GA				3	20	18	Closed	0	7	7-1/2	284-286TS	P4Z195K-2
																		3-1/8	22	20	Closed	0	8	7-1/2	324-326TS	P4Z195M-2
																		3-1/2	24	22	Closed	0	9	7-1/2	364-365TS	P4Z195N-2

IMP DIA	AXIS A1	DBC D1	HT A2	PART WIDTHS				MTG D3	THK T	ID D2	LGTHS		END S	SLTS R	HT H3	HS SIZE	MOTOR FRAME	PART # [ROOT]
				B1	B2	C1	C2				L1	L2						
13-1/2	14-3/4	14-3/4	22-3/8	15-3/4	15-1/2	18-1/2	17	13/32	12 GA	1-1/2	10	8	Closed	0	3-1/2	6	56-145T	PBZ216D-2
										1-3/4	12	10	Closed	2	4-1/2	6	182-184T	PBZ216E-2
										2-1/4	14	12	Closed	2	5-1/4	7-1/2	213-215T	PBZ216G-2
										2-1/2	18	16	Closed	0	6-1/4	7-1/2	254-256T	PBZ216J-2
			3	20	18	Closed	1	7	7-1/2	284-286TS	PBZ216K-2							
			23-1/16	17-7/8	17-1/2	20-1/2	19	21/32	10 GA	3-1/8	22	20	Closed	1	8	7-1/2	324-326TS	PBZ216M-1
									3-1/2	24	22	Closed	0	9	7-1/2	364-365TS	PBZ216N-1	
15	16-3/4	16-1/2	25-3/8	17-3/4	17-1/2	20-1/2	19	13/32	12 GA	1-1/2	10	8	Closed	0	3-1/2	6	56-145T	PBZ240D-2
										1-3/4	12	10	Closed	0	4-1/2	6	182-184T	PBZ240E-2
										2-1/4	14	12	Closed	0	5-1/4	7-1/2	213-215T	PBZ240G-2
										2-1/2	18	16	Closed	2	6-1/4	7-1/2	254-256T	PBZ240J-2
			3	20	18	Closed	0	7	7-1/2	284-286TS	PBZ240K-2							
			25-3/4	18				21/32	10 GA	3-1/8	22	20	Closed	1	8	7-1/2	324-326TS	PBZ240M-1
									3-1/2	24	22	Closed	1	9	7-1/2	364-365TS	PBZ240N-1	



FRAME RANGE	FRAME BASED DIMENSIONS									
	L1	L2	S1	S2	S3	S4	E1	E2	W	H3
48 ONLY	8	6	2-1/4	1-1/2	2-3/4	1-1/2	2-1/8	4-1/4	11/32	3
56 ONLY	10	8	2-1/2	1-1/2	3	1-1/2	2-7/16	4-7/8	11/32	3-1/2
56-145T	10	8	2	2	3-1/2	2-1/2	2-3/4	5-1/2	11/32	3-1/2
182-184T	12	10	2-1/4	2	4-1/2	3	3-3/4	7-1/2	13/32	4-1/2
213-215T	14	12	3	2	5-1/2	3-1/2	4-1/4	8-1/2	13/32	5-1/4
254-256T	18	16	3-3/4	2-1/4	8-1/4	4	5	10	17/32	6-1/4
284-286TS	20	18	4-1/4	2-1/2	9-1/2	4	5-1/2	11	17/32	7
324-326TS	22	20	4-3/4	2-3/4	10-1/2	4-1/4	6-1/4	12-1/2	21/32	8
364-365TS	24	22	5-3/8	3	11-1/4	4	7	14	21/32	9

• Consult factory for product weights.