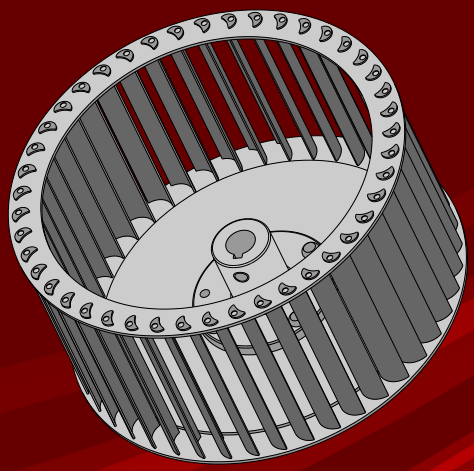
JAN-AIR, INC



F-SERIES

NORMAL-DUTY FORWARD-CURVED IMPELLERS (SWSI)

- STEELS, STAINLESS STEELS, & ALUMINUM -

5801 Ami Drive
Richmond, IL 60071

815.678.4516
www.jan-air.com

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

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

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

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:

HVAC Ventilation	Well-suited for HVAC ventilation with relatively clean or filtered air
Industrial	Ovens, dyers, and other industrial exhaust or circulatory applications

Impeller Standard Reinforcement Features:

Peripheral Ring	Used on high-speed applications where the blade is subject to centrifugal load flexing.

Impeller Non-Standard Reinforcement Features:

Braces	Several rods spanning from the front ring to the back disk to offer additional rotary stiffness. Braces are no longer recommended by Jan-Air because they can be susceptible to fatigue for high-speed or high-vibration applications. Certain sizes can offer fatigue-resistant, straight bracing for extra strength. See Bulletin 105 for additional information. Braces not available in aluminum.
Peripheral Rod	An additional rod is welded in several places to an already existing peripheral ring or front ring to provide additional support and increased tensile strength.
Copper Brazing	Used on steel products for high-vibration and shock loading applications up to 600°F.
Hydrogen Brazing	Used on stainless steel products for high-vibration and shock loading applications up to 1000°F.

Impeller Construction Styles:

Steels & Stainless	Bent-over, spot-welded tabs for a strong and reliable bond; spot-welded reinforcement disk.
Aluminum	Peened-over, non-welded tab with increased shear area; riveted reinforcement disk.

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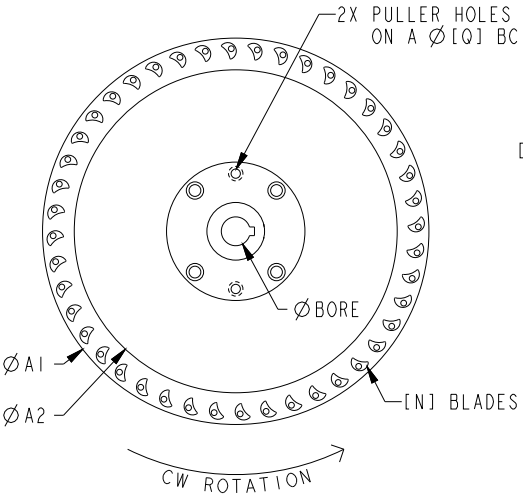
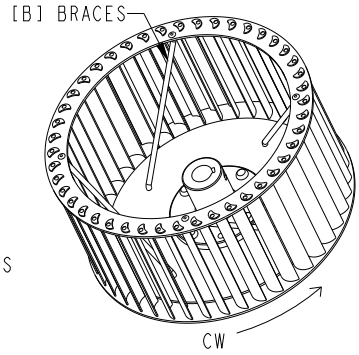
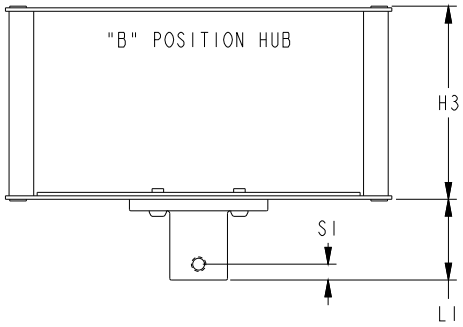
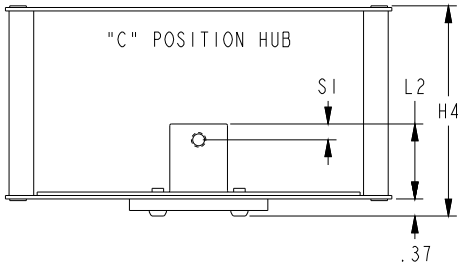
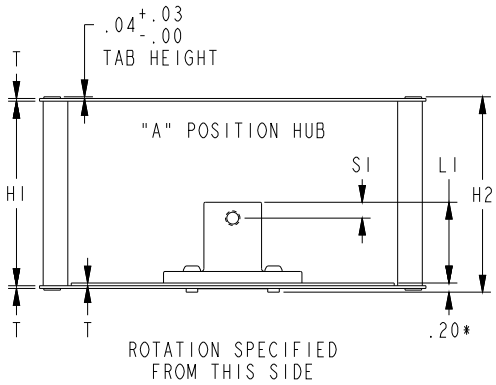
NORMAL-DUTY IMPELLERS:

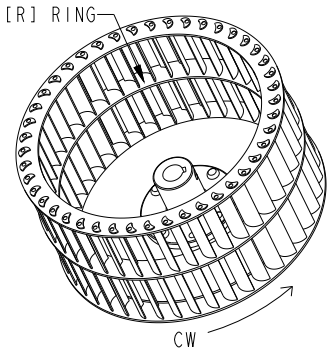


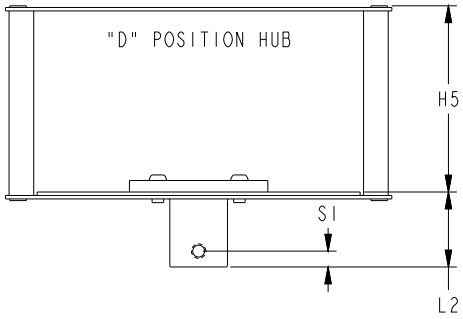












STANDARD IMPELLER DIMENSIONS											HUB
OD	ID	THK	BLDS	BLD HT	CATALOG #	BRCS	"A" POS	"B" POS	"C" POS	"D" POS	MTG GROUP
A1	A2	T	N	H1	(ROOT ONLY)	B	H2*	H3*	H4*	H5	
5	3-11/16	16 GA .063 AL	26	1	FZ080016	-	1.23	1.15	1.51	1.04	#1 #2
				1-½	FZ080024	-	1.73	1.65	2.01	1.54	
				2	FZ080032	-	2.23	2.15	2.51	2.04	
				2-½	FZ080040	-	2.73	2.65	3.01	2.54	
				3	FZ080048	3	3.23	3.15	3.51	3.04	
5-½	4-⅛	16 GA .063 AL	28	1	FZ088016	-	1.23	1.15	1.51	1.04	#1 #2
				1-½	FZ088024	-	1.73	1.65	2.01	1.54	
				2	FZ088032	-	2.23	2.15	2.51	2.04	
				2-½	FZ088040	-	2.73	2.65	3.01	2.54	
				3	FZ088048	3	3.23	3.15	3.51	3.04	
6-¼	5	16 GA .063 AL	32	1	FZ100016	-	1.23	1.15	1.51	1.04	#1 #2
				1-½	FZ100024	-	1.73	1.65	2.01	1.54	
				2	FZ100032	-	2.23	2.15	2.51	2.04	
				2-½	FZ100040	-	2.73	2.65	3.01	2.54	
				3	FZ100048	-	3.23	3.15	3.51	3.04	
				3-½	FZ100056	3	3.73	3.65	4.01	3.54	
				4	FZ100064	3	4.23	4.15	4.51	4.04	

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STANDARD IMPELLER DIMENSIONS											HUB
OD	ID	THK	BLDS	BLD HT	CATALOG #	BRCS	"A" POS	"B" POS	"C" POS	"D" POS	MTG GROUP
A1	A2	T	N	H1	(ROOT ONLY)	B	H2*	H3*	H4*	H5	
7	5-½	16 GA .063 AL	36	1	FZ112016	-	1.23	1.15	1.51	1.04	#1 #2
				1-½	FZ112024	-	1.73	1.65	2.01	1.54	
				2	FZ112032	-	2.23	2.15	2.51	2.04	
				2-½	FZ112040	-	2.73	2.65	3.01	2.54	
				3	FZ112048	-	3.23	3.15	3.51	3.04	
				3-½	FZ112056	3	3.73	3.65	4.01	3.54	
				4	FZ112064	3	4.23	4.15	4.51	4.04	
7- 11/16	6-¼	16 GA .063 AL *14 GA* MILD STEEL	40	1	FZ123016	-	1.23	1.15	1.51	1.04	#1 #2
				1-½	FZ123024	-	1.73	1.65	2.01	1.54	
				2	FZ123032	-	2.23	2.15	2.51	2.04	
				2-½	FZ123040	-	2.73	2.65	3.01	2.54	
				3	FZ123048	-	3.23	3.15	3.51	3.04	
				3-½	FZ123056	3	3.73	3.65	4.01	3.54	
				4	FZ123064	3	4.23	4.15	4.51	4.04	
				4-½	FZ123072	3	4.73	4.65	5.01	4.54	
8-⅜	7	16 GA .063 AL *14 GA* MILD STEEL	44	1	FZ134016	-	1.23	1.15	1.51	1.04	#2 #3
				1-½	FZ134024	-	1.73	1.65	2.01	1.54	
				2	FZ134032	-	2.23	2.15	2.51	2.04	
				2-½	FZ134040	-	2.73	2.65	3.01	2.54	
				3	FZ134048	-	3.23	3.15	3.51	3.04	
				3-½	FZ134056	3	3.73	3.65	4.01	3.54	
				4	FZ134064	3	4.23	4.15	4.51	4.04	
				4-½	FZ134072	3	4.73	4.65	5.01	4.54	
				5	FZ134080	3	5.23	5.15	5.51	5.04	
9-3/16	7-11/16	16 GA .063 AL *14 GA* MILD STEEL	48	1	FZ147016	-	1.23	1.15	1.51	1.04	#2 #3
				1-½	FZ147024	-	1.73	1.65	2.01	1.54	
				2	FZ147032	-	2.23	2.15	2.51	2.04	
				2-½	FZ147040	-	2.73	2.65	3.01	2.54	
				3	FZ147048	-	3.23	3.15	3.51	3.04	
				3-½	FZ147056	3	3.73	3.65	4.01	3.54	
				4	FZ147064	3	4.23	4.15	4.51	4.04	
				4-½	FZ147072	3	4.73	4.65	5.01	4.54	
				5	FZ147080	3	5.23	5.15	5.51	5.04	
9-15/16	8-⅜	16 GA .063 AL *14 GA* MILD STEEL	52	1	FZ159016	-	1.23	1.15	1.51	1.04	#2 #3
				1-½	FZ159024	-	1.73	1.65	2.01	1.54	
				2	FZ159032	-	2.23	2.15	2.51	2.04	
				2-½	FZ159040	-	2.73	2.65	3.01	2.54	
				3	FZ159048	-	3.23	3.15	3.51	3.04	
				3-½	FZ159056	4	3.73	3.65	4.01	3.54	
				4	FZ159064	4	4.23	4.15	4.51	4.04	
				4-½	FZ159072	4	4.73	4.65	5.01	4.54	
				5	FZ159080	4	5.23	5.15	5.51	5.04	
				5-½	FZ159088	4	5.73	5.65	6.01	5.54	

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STANDARD IMPELLER DIMENSIONS											HUB
OD	ID	THK	BLDS	BLD HT	CATALOG #	BRCS	"A" POS	"B" POS	"C" POS	"D" POS	MTG GROUP
A1	A2	T	N	H1	(ROOT ONLY)	B	H2*	H3*	H4*	H5	
10-⅝	9	16 GA .063 AL *14 GA* MILD STEEL	54	1	FZ170016	-	1.23	1.15	1.51	1.04	#2 #3
				1-½	FZ170024	-	1.73	1.65	2.01	1.54	
				2	FZ170032	-	2.23	2.15	2.51	2.04	
				2-½	FZ170040	-	2.73	2.65	3.01	2.54	
				3	FZ170048	-	3.23	3.15	3.51	3.04	
				3-½	FZ170056	4	3.73	3.65	4.01	3.54	
				4	FZ170064	4	4.23	4.15	4.51	4.04	
				4-½	FZ170072	4	4.73	4.65	5.01	4.54	
				5	FZ170080	4	5.23	5.15	5.51	5.04	
				5-½	FZ170088	4	5.73	5.65	6.01	5.54	
				6	FZ170096	4	6.23	6.15	6.51	6.04	
11-3/16	9-⅜	16 GA .063 AL *14 GA* MILD STEEL	58	1	FZ182016	-	1.23	1.15	1.51	1.04	#3
				1-½	FZ182024	-	1.73	1.65	2.01	1.54	
				2	FZ182032	-	2.23	2.15	2.51	2.04	
				2-½	FZ182040	-	2.73	2.65	3.01	2.54	
				3	FZ182048	-	3.23	3.15	3.51	3.04	
				3-½	FZ182056	4	3.73	3.65	4.01	3.54	
				4	FZ182064	4	4.23	4.15	4.51	4.04	
				4-½	FZ182072	4	4.73	4.65	5.01	4.54	
				5	FZ182080	4	5.23	5.15	5.51	5.04	
				5-½	FZ182088	4	5.73	5.65	6.01	5.54	
				6	FZ182096	4	6.23	6.15	6.51	6.04	
				6-½	FZ182104	4	6.73	6.65	7.01	6.54	
12-3/16	10-⅝	16 GA .063 AL *14 GA* MILD STEEL	64	1	FZ195016	-	1.23	1.15	1.51	1.04	#3
				1-½	FZ195024	-	1.73	1.65	2.01	1.54	
				2	FZ195032	-	2.23	2.15	2.51	2.04	
				2-½	FZ195040	-	2.73	2.65	3.01	2.54	
				3	FZ195048	-	3.23	3.15	3.51	3.04	
				3-½	FZ195056	4	3.73	3.65	4.01	3.54	
				4	FZ195064	4	4.23	4.15	4.51	4.04	
				4-½	FZ195072	4	4.73	4.65	5.01	4.54	
				5	FZ195080	4	5.23	5.15	5.51	5.04	
				5-½	FZ195088	4	5.73	5.65	6.01	5.54	
				6	FZ195096	4	6.23	6.15	6.51	6.04	
				6-½	FZ195104	4	6.73	6.65	7.01	6.54	
				7	FZ195112	4	7.23	7.15	7.51	7.04	

- Steel and stainless steel construction illustrated above; aluminum is a non-welded peened over tab; braces are not available in aluminum.
- Dimensions noted with (*) are different for 14 ga components; Constant 0.20", H2, and H3 are 0.03" greater; H4 is 0.05" greater.
- Dimensions T1, T2, and T3: First line is for steels and stainless steels; second line is for aluminum.
- Constants 0.20" and 0.37" are ± 1/32"; Dimensions H2, H3, and H4 are ± 1/16"; Dimensions H5 is ± 1/32".
- Consult factory for product weights and max speeds.

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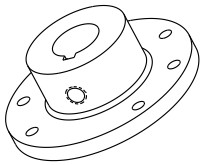
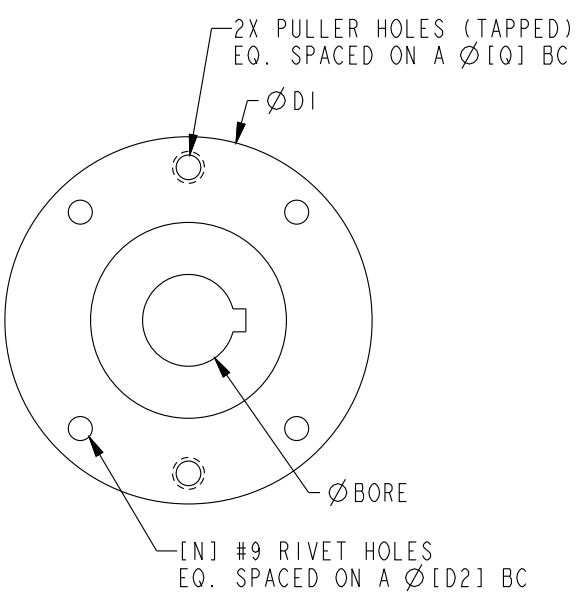
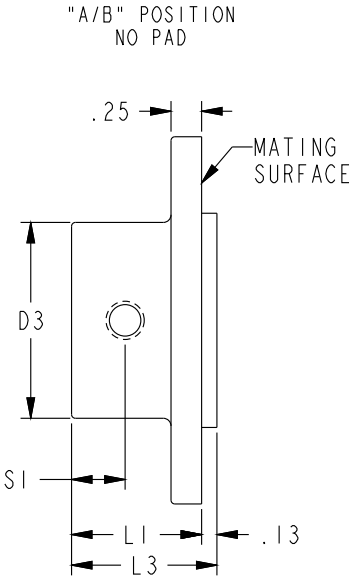
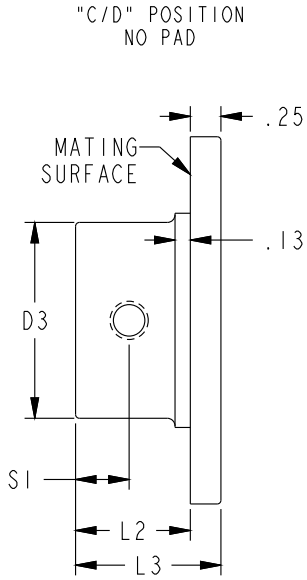
STANDARD HUBS









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 requirment and bore size - consult factory for details.
- Dimensions noted by (*) may very slightly by material selection (e.g. cast aluminum products have a drafted barrel).

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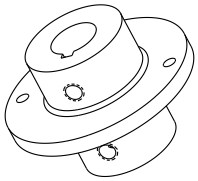
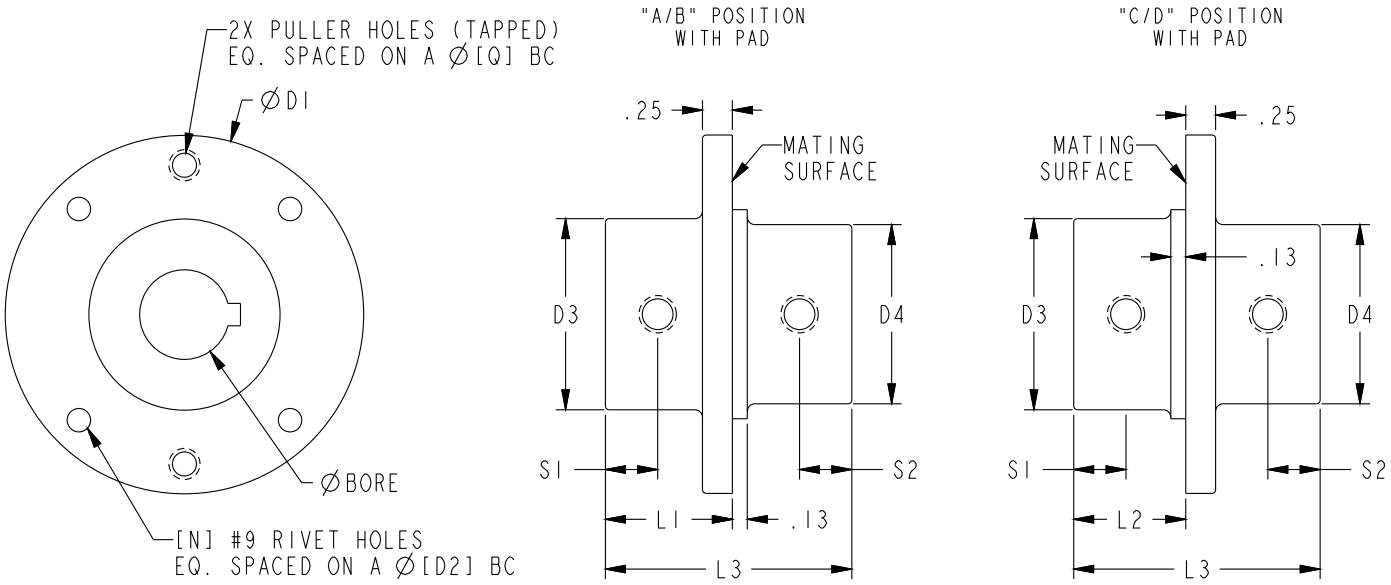
PADDED HUBS





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	✓	⅜	⅞	10	22	27/32	23/32	1-7/32	2-⅜	2-½	1-27/32	1-27/32	4	¼-20	2-½
#3	3-162P	✓	⅝	1-⅛	16	28	1-⅝	1-½	2-⅜	6	5-½	2	2	6 / 12	⅜-16	3-¾
	3-237P	✓	⅝	1-⅜	16	38	2-⅜	2-¼	3-3/16	6	5-½	2-9/16*	2-9/16*	6 / 12	⅜-16	3-¾

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

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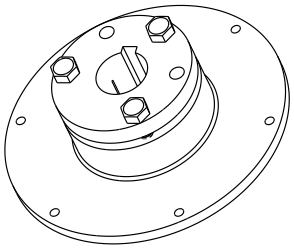
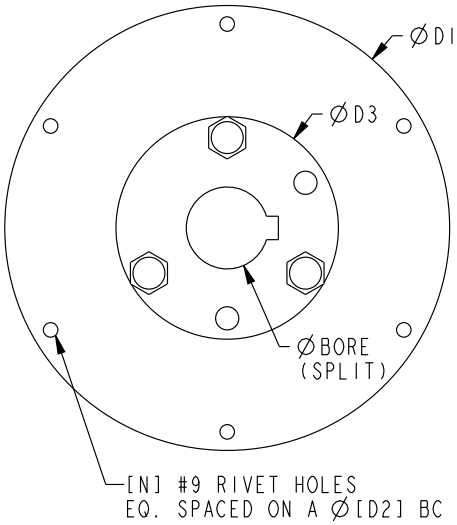
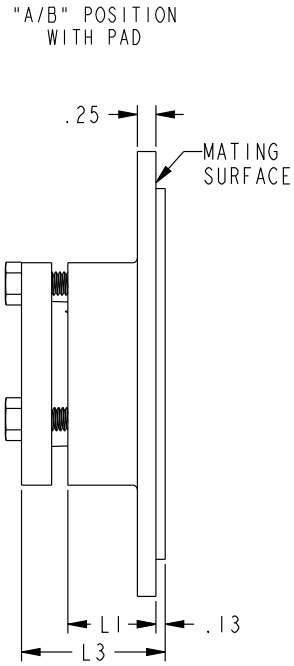
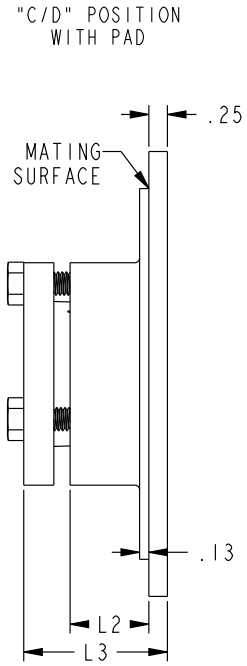
Bushing Hubs









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	⅜	15⁄16	10	25	½	-	1	3	2-½	2	4	-	-
#3	3-075	✓	H	⅜	1-⅜	10	38	¾	⅝	1-¼	6	5-½	2-½	6 / 12	-	-
	3-118	✓	P1	½	1-¾	14	42	1-3⁄16	1-1⁄16	1-15⁄16	6	5-½	3	6 / 12	-	-

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

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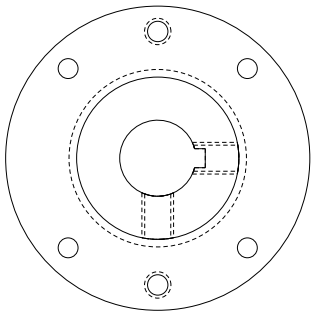
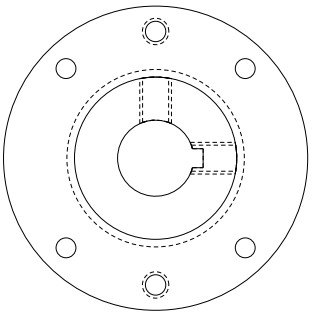
SET SCREW PLACEMENT AND TYPE

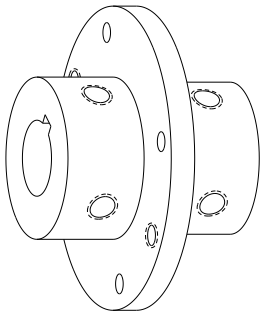
NORMAL PLACEMENT
[90° CW FROM KEYWAY]



OPPOSITE PLACEMENT
[90° CCW FROM KEYWAY]



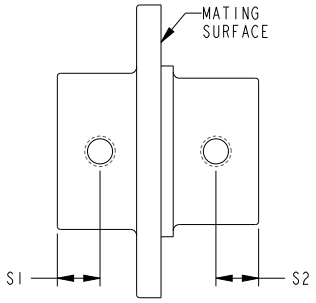
PLACEMENT ON PAD
[SET SCREWS ARE INLINE]



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



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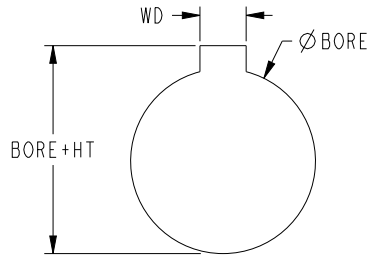
Bores and Keyways



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

Keyways are per ANSI B17.1

IMPERIAL BORES & KEYWAYS		
BORE	KEYWAY WD X HT	SYM [BBB]
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 WD X HT	SYM [BBB]
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 ½” (or 12mm) are not keyed and have (1) ¼-20 set screw - see set screw designations 4, 5, or 6.
- Bores equal to ½” (or 12mm) are not keyed and have (1) 5/16-18 set screw - see set screw designations 1, 2, or 3.
- Bores > ½” (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.

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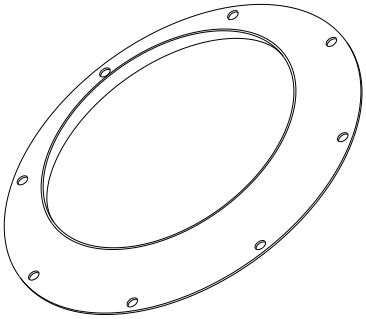
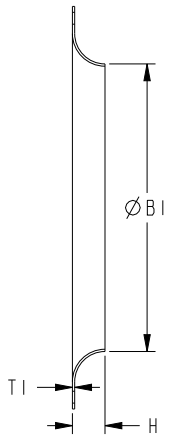
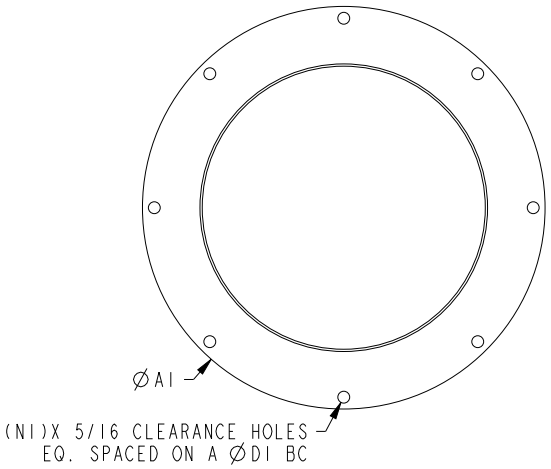
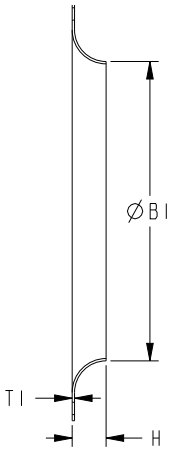
INLET CONES (STANDARD & WITH RINGS)



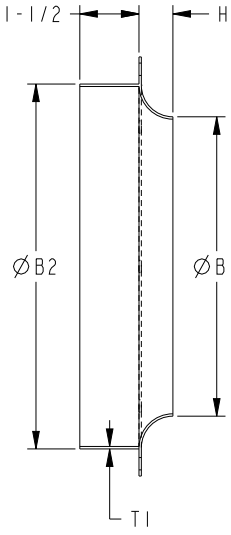




STANDARD INLET CONE DIMENSIONS								
IMP DIA	CATALOG NUMBERS	OD A1	ID B1	HT H	THK T1	MTG N1	DBC D1	OD B2
5	YNA080FZ-04	6-¼	3-⅞	0.46	16 GA	4	5-¹³⁄₁₆	-
5-½	YNA088FZ-04	7	4-¹⁄₁₆	0.50	16 GA	4	6-⅛	-
6-¼	YNA100FZ-04	7-¹¹⁄₁₆	4-¾	0.66	16 GA	4	7-¹⁄₁₆	-
7	YNA112FZ-04	8-⅜	5-¼	0.68	16 GA	4	7-¹³⁄₁₆	-
7-¹¹⁄₁₆	YNA123FZ-04	9-³⁄₁₆	5-¹³⁄₁₆	0.79	16 GA	4	8-⅝	-
8-⅜	YNA134FZ-04	9-¹⁵⁄₁₆	6-¾	1.03	16 GA	4	9-⁵⁄₁₆	-
9-³⁄₁₆	YNA147FZ-08	10-⅝	7-⅜	0.86	16 GA	8	10	-
9-¹⁵⁄₁₆	YNA159FZ-08	12-³⁄₁₆	7-¹³⁄₁₆	0.79	16 GA	8	11	-
10-⅝	YNA170FZ-08	12-³⁄₁₆	8-⅝	1.10	16 GA	8	11-⅜	-
11-³⁄₁₆	YNA179FZ-08	13	9-⅜	1.19	16 GA	8	12-¼	-
12-³⁄₁₆	YNA195FZ-08	15	10-⅜	1.29	16 GA	8	13-⅛	-



INLET CONE DIMENSIONS WITH 1-½" SLIP RINGS								
IMP DIA	CATALOG NUMBERS	OD A1	ID B1	HT H	THK T1	MTG N1	DBC D1	OD B2
5	YNZ080FZ-04AC	6-¼	3-⅞	0.46	16 GA	4	5-¹³⁄₁₆	4-⅞
5-½	YNZ088FZ-04AC	7	4-¹⁄₁₆	0.50	16 GA	4	6-⅛	4-⅞
6-¼	YNZ100FZ-04AD	7-¹¹⁄₁₆	4-¾	0.66	16 GA	4	7-¹⁄₁₆	5-⅞
7	YNZ112FZ-04AE	8-⅜	5-¼	0.68	16 GA	4	7-¹³⁄₁₆	6-⅞
7-¹¹⁄₁₆	YNZ123FZ-04AE	9-³⁄₁₆	5-¹³⁄₁₆	0.79	16 GA	4	8-⅝	6-⅞
8-⅜	YNZ134FZ-04AF	9-¹⁵⁄₁₆	6-¾	1.03	16 GA	4	9-⁵⁄₁₆	7-⅞
9-³⁄₁₆	YNZ147FZ-08AG	10-⅝	7-⅜	0.86	16 GA	8	10	8-⅞
9-¹⁵⁄₁₆	YNZ159FZ-08AH	12-³⁄₁₆	7-¹³⁄₁₆	0.79	16 GA	8	11	9-⅞
10-⅝	YNZ170FZ-08AH	12-³⁄₁₆	8-⅝	1.10	16 GA	8	11-⅜	9-⅞
11-³⁄₁₆	YNZ179FZ-08AJ	13	9-⅜	1.19	16 GA	8	12-¼	10-⅞
12-³⁄₁₆	YNZ195FZ-08AK	15	10-⅜	1.29	16 GA	8	13-⅛	11-⅞



- Aluminum parts are all .063" thick material; stainless steel parts may be 18 GA for flatter formations.
- Height varies by (+/-) 0.03" due to forming process.

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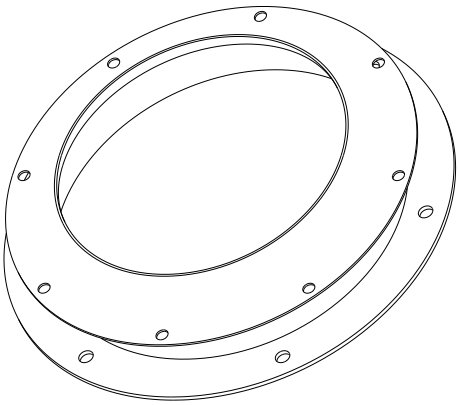
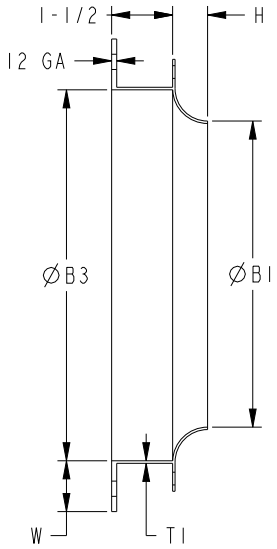
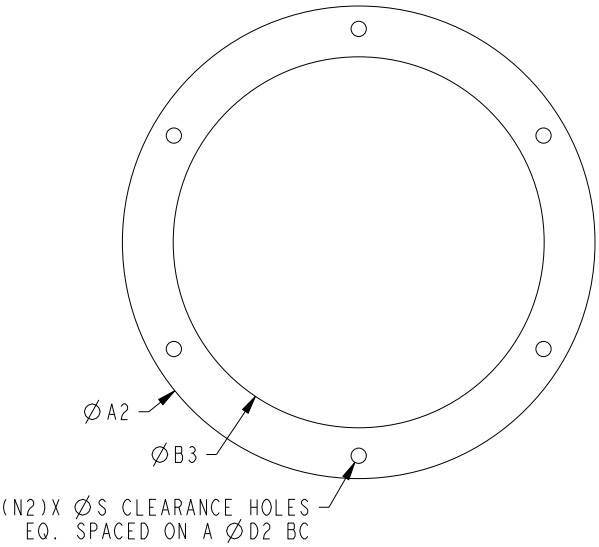
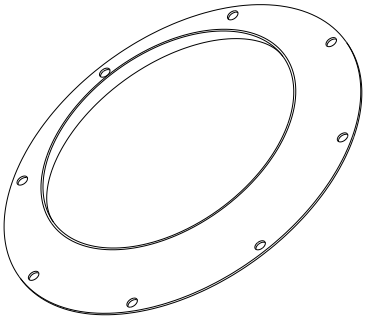
INLET CONES *(WITH ANGLE RINGS)*

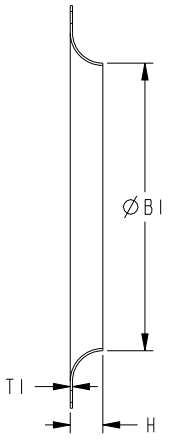


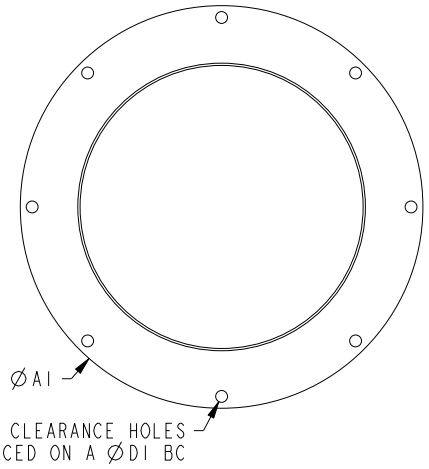




STANDARD INLET CONE DIMENSIONS (BELOW)								ANGLE RING DIMENSIONS (ABOVE)					
IMP DIA	CATALOG NUMBERS	OD	ID	HT	THK	MTG	DBC	ID	OD	WD	MTG	DBC	DIA
		A1	B1	H	T1	N1	D1	B3	A2	W	N2	D2	S
5	YNZ080FZ-04PC	6-¼	3-⅞	0.46	16 GA	4	5-13/16	5-1/16	7-1/16	1	6	6-5/16	9/32
5-½	YNZ088FZ-04PC	7	4-1/16	0.50	16 GA	4	6-⅛	5-1/16	7-1/16	1	6	6-5/16	9/32
6-¼	YNZ100FZ-04PD	7-11/16	4-¾	0.66	16 GA	4	7-1/16	6-⅛	8-⅝	1-¼	6	7-5/16	⅜
7	YNZ112FZ-04PE	8-⅜	5-¼	0.68	16 GA	4	7-13/16	7-⅛	9-⅝	1-¼	6	8-½	⅜
7-11/16	YNZ123FZ-04PE	9-3/16	5-13/16	0.79	16 GA	4	8-⅝	7-⅛	9-⅝	1-¼	6	8-½	⅜
8-⅜	YNZ134FZ-04PF	9-15/16	6-¾	1.03	16 GA	4	9-5/16	8-⅛	10-⅝	1-¼	8	9-9/16	⅜
9-3/16	YNZ147FZ-08PG	10-⅝	7-⅜	0.86	16 GA	8	10	9-⅛	11-⅝	1-¼	8	10-⅝	⅜
9-15/16	YNZ159FZ-08PH	12-3/16	7-13/16	0.79	16 GA	8	11	10-⅛	12-⅝	1-¼	8	11-13/16	⅜
10-⅝	YNZ170FZ-08PH	12-3/16	8-⅝	1.10	16 GA	8	11-⅜	10-⅛	12-⅝	1-¼	8	11-13/16	⅜
11-3/16	YNZ179FZ-08PJ	13	9-⅜	1.19	16 GA	8	12-¼	11-⅛	13-⅝	1-¼	8	12-¾	⅜
12-3/16	YNZ195FZ-08PK	15	10-⅜	1.29	16 GA	8	13-⅛	12-⅛	15-⅛	1-½	12	14	7/16







- Aluminum parts are all .063” thick material; Aluminum angle ring is .125" thick; some stainless steel ones are 18 GA.
- Height varies by (+/-) 0.03" due to forming process.

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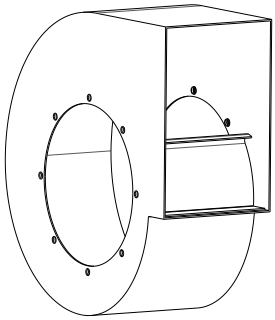
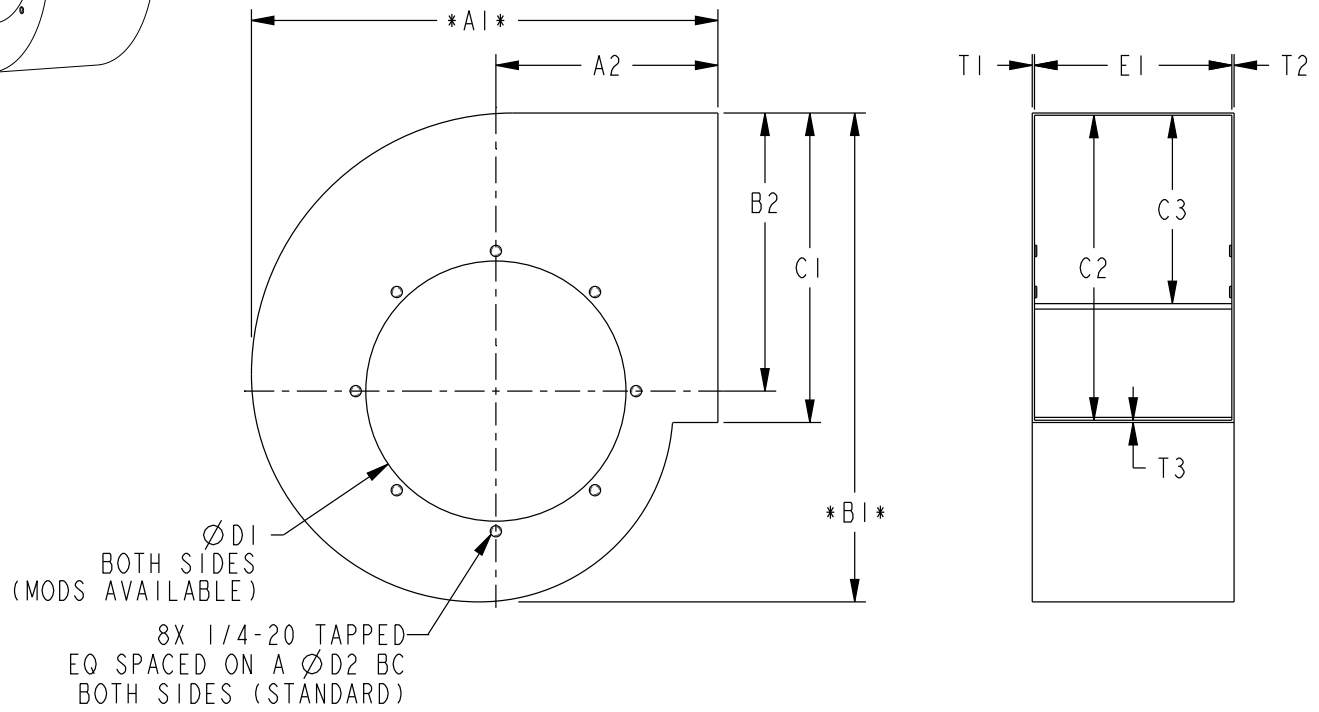
STANDARD HOUSINGS





STANDARD HOUSING DIMENSIONS												CATALOG 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
5	9	4-⅛	9	5-⅛	5-¾	5-⅝	3-⅜	5-³⁄₁₆	5-¹³⁄₁₆	1	2-⅛	HYN080034	HZN080034
										1-½	2-⅝	HYN080042	HZN080042
										2	3-⅛	HYN080050	HZN080050
										2-½	3-⅝	HYN080058	HZN080058
										3	4-⅛	HYN080066	HZN080066
5-½	9-⅞	4-¹⁵⁄₁₆	9-⅞	5-⅝	6-¼	6-⅛	3-¾	5-¹¹⁄₁₆	6-⅛	1	2-⅛	HYN088034	HZN088034
										1-½	2-⅝	HYN088042	HZN088042
										2	3-⅛	HYN088050	HZN088050
										2-½	3-⅝	HYN088058	HZN088058
										3	4-⅛	HYN088066	HZN088066
6-¼	10-¾	5-¼	11	6-¼	7	6-⅞	4-⅛	6-⁹⁄₁₆	7-¹⁄₁₆	1	2-¼	HYN100036	HZN100036
										1-½	2-¾	HYN100044	HZN100044
										2	3-¼	HYN100052	HZN100052
										2-½	3-¾	HYN100060	HZN100060
										3	4-¼	HYN100068	HZN100068
										3-½	4-¾	HYN100076	HZN100076
										4	5-¼	HYN100084	HZN100084

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STANDARD HOUSING DIMENSIONS												CATALOG 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	12	5-¾	12-½	7-⅛	7-¾	7-⅝	4-⅞	7-¼	7-13⁄16	1	2-¼	HYN112036	HZN112036
										1-½	2-¾	HYN112044	HZN112044
										2	3-¼	HYN112052	HZN112052
										2-½	3-¾	HYN112060	HZN112060
										3	4-¼	HYN112068	HZN112068
										3-½	4-¾	HYN112076	HZN112076
										4	5-¼	HYN112084	HZN112084
7-11⁄16	13-¼	6-7⁄16	13-⅝	7-¾	8-⅝	8-½	5-¼	7-15⁄16	8-⅝	1	2-⅜	HYN123038	HZN123038
										1-½	2-⅞	HYN123046	HZN123046
										2	3-⅜	HYN123054	HZN123054
										2-½	3-⅞	HYN123062	HZN123062
										3	4-⅜	HYN123070	HZN123070
										3-½	4-⅞	HYN123078	HZN123078
										4	5-⅜	HYN123086	HZN123086
										4-½	5-⅞	HYN123094	HZN123094
8-⅜	14-⅜	7	14-¾	8-⅜	9-⅜	9-¼	5-¾	8-¾	9-5⁄16	1	2-⅝	HYN134042	HZN134042
										1-½	3-⅛	HYN134050	HZN134050
										2	3-⅝	HYN134058	HZN134058
										2-½	4-⅛	HYN134066	HZN134066
										3	4-⅝	HYN134074	HZN134074
										3-½	5-⅛	HYN134082	HZN134082
										4	5-⅝	HYN134090	HZN134090
										4-½	6-⅛	HYN134098	HZN134098
										5	6-⅝	HYN134106	HZN134106
9-3⁄16	15-⅝	7-½	16-¼	9-¼	10-¼	10-⅛	6-⅜	9-7⁄16	10	1	2-½	HYN147040	HZN147040
										1-½	3	HYN147048	HZN147048
										2	3-½	HYN147056	HZN147056
										2-½	4	HYN147064	HZN147064
										3	4-½	HYN147072	HZN147072
										3-½	5	HYN147080	HZN147080
										4	5-½	HYN147088	HZN147088
										4-½	6	HYN147096	HZN147096
										5	6-½	HYN147104	HZN147104
9-15⁄16	16-⅞	8	17-¾	10-⅛	11-⅛	11	7-⅛	10-3⁄16	11	1	2-½	HYN159040	HZN159040
										1-½	3	HYN159048	HZN159048
										2	3-½	HYN159056	HZN159056
										2-½	4	HYN159064	HZN159064
										3	4-½	HYN159072	HZN159072
										3-½	5	HYN159080	HZN159080
										4	5-½	HYN159088	HZN159088
										4-½	6	HYN159096	HZN159096
										5	6-½	HYN159104	HZN159104
										5-½	7	HYN159112	HZN159112

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STANDARD HOUSING DIMENSIONS												CATALOG 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
10-⅝	18-⅜	8-15/16	18-⅞	10-¾	11-⅞	11-¾	7-½	10-⅞	11-⅜	1	2-¾	HYN170044	HZN170044
										1-½	3-¼	HYN170052	HZN170052
										2	3-¾	HYN170060	HZN170060
										2-½	4-¼	HYN170068	HZN170068
										3	4-¾	HYN170076	HZN170076
										3-½	5-¼	HYN170084	HZN170084
										4	5-¾	HYN170092	HZN170092
										4-½	6-¼	HYN170100	HZN170100
										5	6-¾	HYN170108	HZN170108
										5-½	7-¼	HYN170116	HZN170116
										6	7-¾	HYN170124	HZN170124
11-3/16	19-⅛	9-3/16	19-⅞	11-5/16	12-½	12-⅜	8	11-¾	12-¼	1	2-¾	HYN179044	HZN179044
										1-½	3-¼	HYN179052	HZN179052
										2	3-¾	HYN179060	HZN179060
										2-½	4-¼	HYN179068	HZN179068
										3	4-¾	HYN179076	HZN179076
										3-½	5-¼	HYN179084	HZN179084
										4	5-¾	HYN179092	HZN179092
										4-½	6-¼	HYN179100	HZN179100
										5	6-¾	HYN179108	HZN179108
										5-½	7-¼	HYN179116	HZN179116
										6	7-¾	HYN179124	HZN179124
										6-½	8-¼	HYN179132	HZN179132
12-3/16	20-¾	9-15/16	21-⅝	12-5/16	13-⅝	13-½	8-¾	12-9/16	13-⅛	1	2-⅞	HYN195046	HZN195046
										1-½	3-⅜	HYN195054	HZN195054
										2	3-⅞	HYN195062	HZN195062
										2-½	4-⅜	HYN195070	HZN195070
										3	4-⅞	HYN195078	HZN195078
										3-½	5-⅜	HYN195086	HZN195086
										4	5-⅞	HYN195094	HZN195094
										4-½	6-⅜	HYN195102	HZN195102
										5	6-⅞	HYN195110	HZN195110
										5-½	7-⅜	HYN195118	HZN195118
										6	7-⅞	HYN195126	HZN195126
										6-½	8-⅜	HYN195134	HZN195134
										7	8-⅞	HYN195142	HZN195142

- Thickness modifications are designated on the next page (p. 16); standard designation is [6] for all-welded and [3] for slip-seam construction.
- All-Welded seam illustrated above - alternate options available; see next page (p. 16) for details.
- ∗ Slip Seam Construction Only: Dimension is 1/16" greater than the value listed.
- Slip-Seam construction modifications (p.16) may not be available for all sizes. Consult factor for details.
- Consult factory for product weights.

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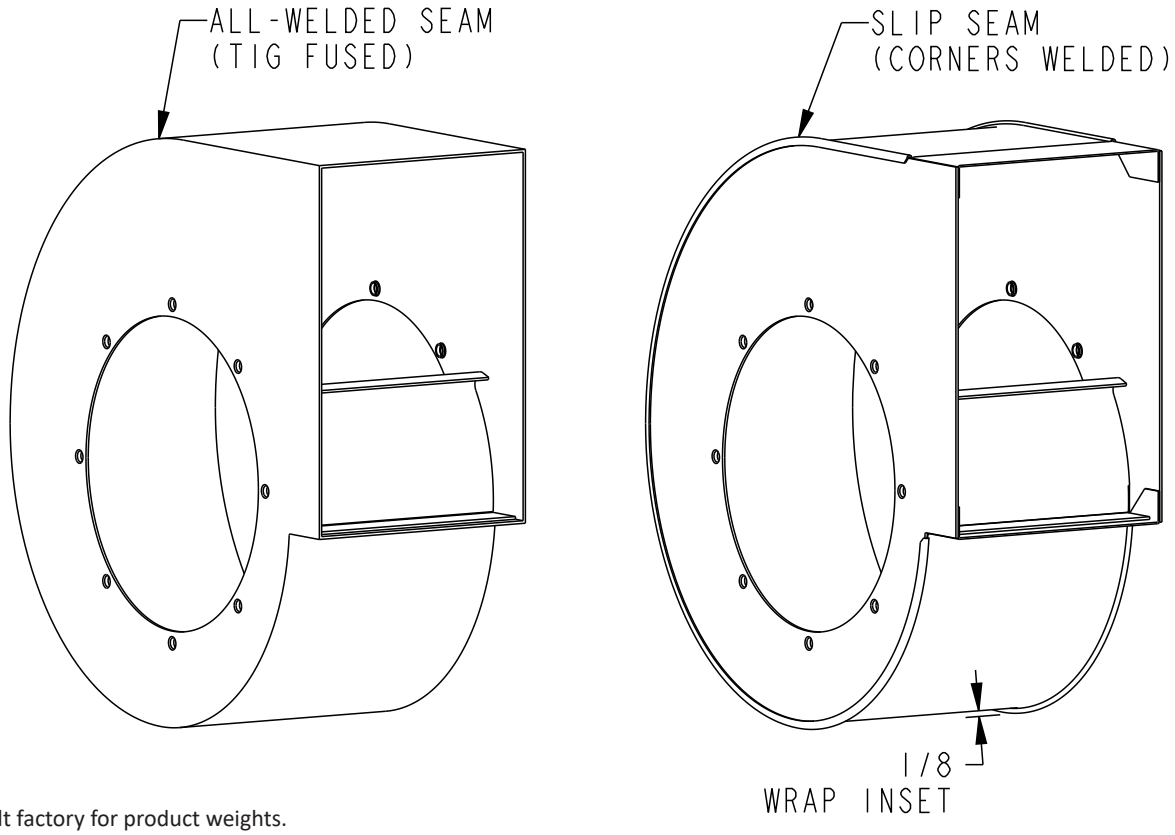
HOUSINGS: CONSTRUCTION MODIFICATIONS

[T] = CONSTRUCTION AND MATERIAL THICKNESS MODIFICATIONS (SEE FIGURE A)					
MODIFCATION 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.

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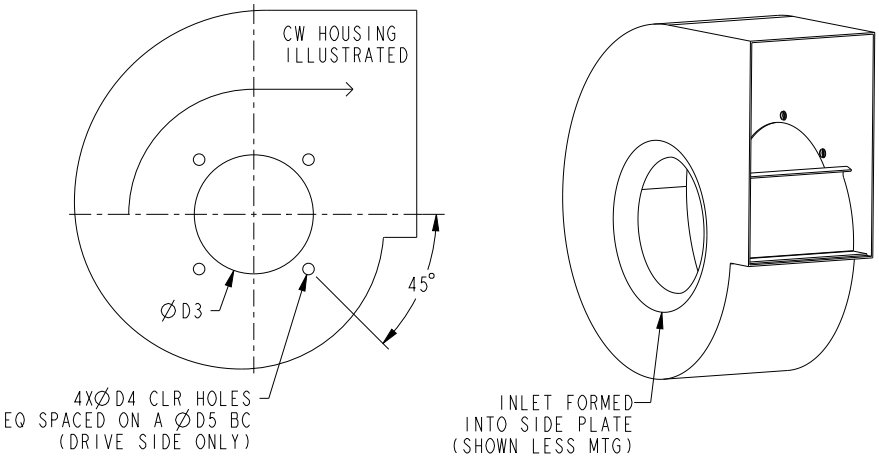
HOUSINGS: SIDE PLATE MODIFICATIONS



[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 F-SERIES FORMED CONES	1
STANDARD DRIVE SIDE / BUILT-IN CONE (MTG HOLES) - FOR F-SERIES FORMED CONES	2

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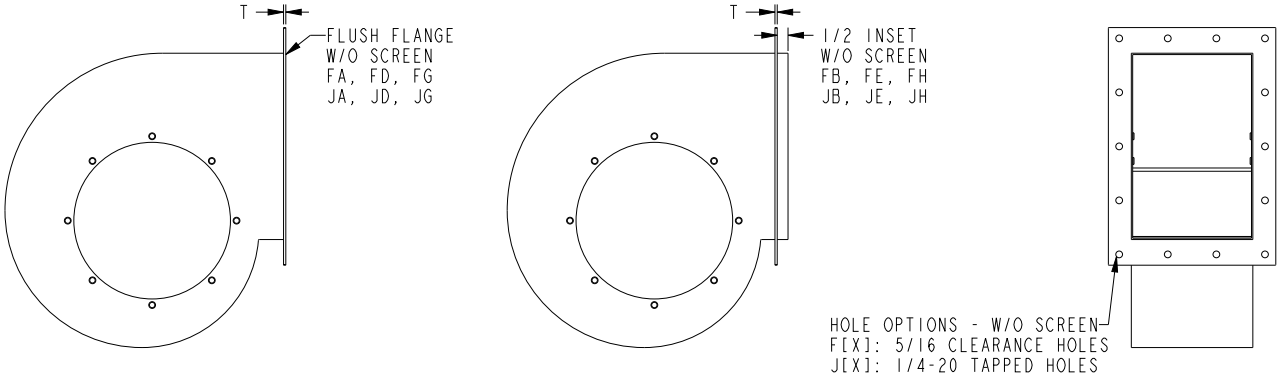
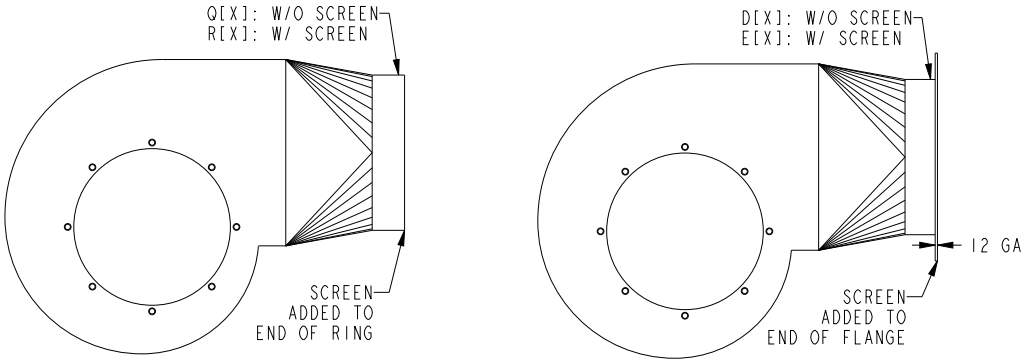
HOUSINGS: DISCHARGE MODIFICATIONS

[DD] = DISCHARGE OPTIONS (FLANGES & ROUND TRANSITIONS)			
MODIFCATION 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
½" 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 ¼-20 MOUNTING HOLES	J6	J4	J2
½" INSET DISCHARGE FLANGE WITH ¼-20 MOUNTING HOLES	JA	JB	JC
FLUSH DISCHARGE FLANGE WITH ¼-20 MOUNTING HOLES & 20 GA SCREEN	K6	K4	K2
MODIFCATION DESCRIPTION - FLANGES SYMBOL	**SYMBOL- FILL [X] FROM NEXT TABLE**		
	DISCHARGE END		
RECTANGLE-TO-ROUND TRANSITION - ANGLE RING END	D[X]		
RECTANGLE-TO-ROUND TRANSITION - SLIP RING END	Q[X]		





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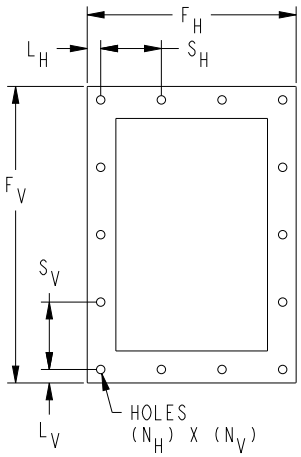
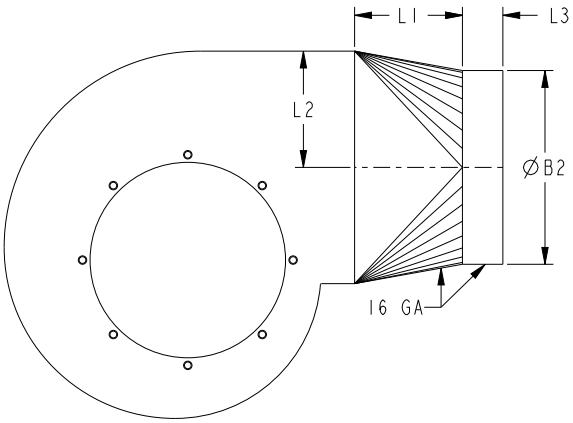
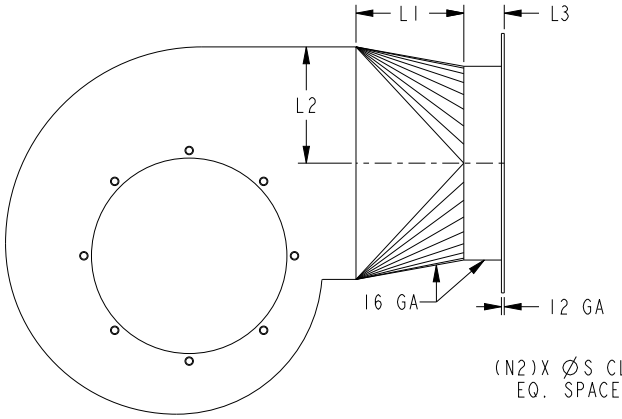
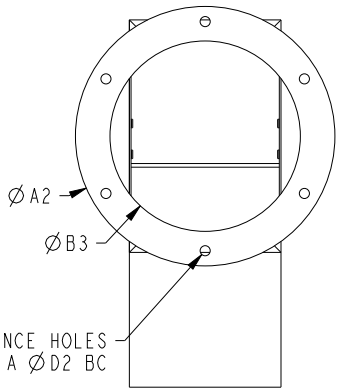
HOUSINGS: DISCHARGE MODIFICATIONS









IMP SIZE		DISCHARGE FLANGE MODIFICATIONS							SLIP RING & ANGLE RING DISCHARGE MODIFICATIONS								
IMP DIA	BLD HT	HORIZONTAL			VERTICAL			HOLES	SYM	LG	DIST	SR OD	AR OD	ID	LG	#	DIA	DBC
		F_H	L_H	S_H	F_V	L_V	S_V	N_H X N_V	[X]	L1	L2	B2	A2	B3	L3	N2	S	D2
5	1	4-¼	½	1-⅝	7-¾	½	2-¼	(3) X (4)	C	4	2-⅞	4-⅞	7-1⁄16	5-1⁄16	1-½	6	9⁄32	6-5⁄16
	1-½	4-¾	½	1-⅞	7-¾	½	2-¼	(3) X (4)										
	2	5-¼	½	2-⅛	7-¾	½	2-¼	(3) X (4)										
	2-½	5-¾	½	2-⅜	7-¾	½	2-¼	(3) X (4)										
	3	6-¼	½	2-⅝	7-¾	½	2-¼	(3) X (4)										
5-½	1	4-¼	½	1-⅝	8	7⁄16	2-⅜	(3) X (4)	C	4	3-⅛	4-⅞	7-1⁄16	5-1⁄16	1-½	6	9⁄32	6-5⁄16
	1-½	4-¾	½	1 ⅞	8	7⁄16	2-⅜	(3) X (4)										
	2	5-¼	½	2-⅛	8	7⁄16	2-⅜	(3) X (4)										
	2-½	5-¾	½	2-⅜	8	7⁄16	2-⅜	(3) X (4)										
	3	6-¼	½	2-⅝	8	7⁄16	2-⅜	(3) X (4)										
6-¼	1	4-¼	½	1-⅝	8-¾	7⁄16	2-⅝	(3) X (4)	D	4	3-½	5-⅞	8-⅝	6-⅛	1-½	6	⅜	7-5⁄16
	1-½	4-¾	½	1-⅞	8-¾	7⁄16	2-⅝	(3) X (4)										
	2	5-¼	½	2-⅛	8-¾	7⁄16	2-⅝	(3) X (4)										
	2-½	5-¾	½	2-⅜	8-¾	7⁄16	2-⅝	(3) X (4)										
	3	6-¼	½	2-⅝	8-¾	7⁄16	2-⅝	(3) X (4)										
	3-½	6-¾	½	2-⅞	8-¾	7⁄16	2-⅝	(3) X (4)										
	4	7-¼	7⁄16	2-⅛	8-¾	7⁄16	2-⅝	(4) X (4)										

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IMP SIZE		DISCHARGE FLANGE MODIFICATIONS							SLIP RING & ANGLE RING DISCHARGE MODIFICATIONS									
IMP DIA	BLD HT	HORIZONTAL			VERTICAL			HOLES	SYM	LG	DIST	SR OD	AR OD	ID	LG	#	DIA	DBC
		F_H	L_H	S_H	F_V	L_V	S_V	N_H X N_V	[X]	L1	L2	B2	A2	B3	L3	N2	S	D2
7	1	4-¼	½	1-⅝	9-½	7/16	2-⅞	(3) X (4)	E	5	3-⅞	6-⅞	9-⅝	7-⅛	1-½	6	⅜	8-½
	1-½	4-¾	½	1-⅞	9-½	7/16	2-⅞	(3) X (4)										
	2	5-¼	½	2-⅛	9-½	7/16	2-⅞	(3) X (4)										
	2-½	5-¾	½	2-⅜	9-½	7/16	2-⅞	(3) X (4)										
	3	6-¼	½	2-⅝	9-½	7/16	2-⅞	(3) X (4)										
	3-½	6-¾	½	2-⅞	9-½	7/16	2-⅞	(3) X (4)										
	4	7-¼	7/16	2-⅛	9-½	7/16	2-⅞	(4) X (4)										
7-11/16	1	4-½	½	1-¾	10-½	½	2-⅜	(3) X (5)	E	5	4-5/16	6-⅞	9-⅝	7-⅛	1-½	6	⅜	8-½
	1-½	5	½	2	10-½	½	2-⅜	(3) X (5)										
	2	5-½	½	2-¼	10-½	½	2-⅜	(3) X (5)										
	2-½	6	½	2-½	10-½	½	2-⅜	(3) X (5)										
	3	6-½	½	2-¾	10-½	½	2-⅜	(3) X (5)										
	3-½	7	½	3	10-½	½	2-⅜	(3) X (5)										
	4	7-¼	7/16	2-⅛	10-½	½	2-⅜	(4) X (5)										
	4-½	8	7/16	2-⅜	10-½	½	2-⅜	(4) X (5)										
8-⅜	1	4-¾	½	1-⅞	11-½	½	2-⅝	(3) X (5)	F	6	4-11/16	7-⅞	10-⅝	8-⅛	1-½	8	⅜	9-9/16
	1-½	5-¼	½	2-⅛	11-½	½	2-⅝	(3) X (5)										
	2	5-¾	½	2-⅜	11-½	½	2-⅝	(3) X (5)										
	2-½	6-¼	½	2-⅝	11-½	½	2-⅝	(3) X (5)										
	3	6-¾	½	2-⅞	11-½	½	2-⅝	(3) X (5)										
	3-½	7-¼	7/16	2-⅛	11-½	½	2-⅝	(4) X (5)										
	4	7-¾	½	2-¼	11-½	½	2-⅝	(4) X (5)										
	4-½	8	7/16	2-⅜	11-½	½	2-⅝	(4) X (5)										
	5	8-¾	7/16	2-⅝	11-½	½	2-⅝	(4) X (5)										
9-3/16	1	4-½	½	1-¾	12-½	½	2-⅞	(3) X (5)	G	6	5-⅛	8-⅞	11-⅝	9-⅛	1-½	8	⅜	10-⅝
	1-½	5	½	2	12-½	½	2-⅞	(3) X (5)										
	2	5-½	½	2-¼	12-½	½	2-⅞	(3) X (5)										
	2-½	6	½	2-½	12-½	½	2-⅞	(3) X (5)										
	3	6-½	½	2-¾	12-½	½	2-⅞	(3) X (5)										
	3-½	7	½	3	12-½	½	2-⅞	(3) X (5)										
	4	7-¾	½	2-¼	12-½	½	2-⅞	(4) X (5)										
	4-½	8	7/16	2-⅜	12-½	½	2-⅞	(4) X (5)										
	5	8-½	½	2-½	12-½	½	2-⅞	(4) X (5)										
9-15/16	1	4-½	½	1-¾	13	½	3	(3) X (5)	H	6	5-9/16	9-⅞	12-⅝	10-⅛	1-½	8	⅜	11-13/16
	1-½	5	½	2	13	½	3	(3) X (5)										
	2	5-½	½	2-¼	13	½	3	(3) X (5)										
	2-½	6	½	2-½	13	½	3	(3) X (5)										
	3	6-½	½	2-¾	13	½	3	(3) X (5)										
	3-½	7	½	3	13	½	3	(3) X (5)										
	4	7-¾	½	2-¼	13	½	3	(4) X (5)										
	4-½	8	7/16	2-⅜	13	½	3	(4) X (5)										
	5	8-½	½	2-½	13	½	3	(4) X (5)										
	5-½	9-¼	½	2-¾	13	½	3	(4) X (5)										

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IMP SIZE		DISCHARGE FLANGE MODIFICATIONS							SLIP RING & ANGLE RING DISCHARGE MODIFICATIONS									
IMP DIA	BLD HT	HORIZONTAL			VERTICAL			HOLES	SYM	LG	DIST	SR OD	AR OD	ID	LG	#	DIA	DBC
		F_H	L_H	S_H	F_V	L_V	S_V	N_H X N_V	[X]	L1	L2	B2	A2	B3	L3	N2	S	D2
10-5/8	1	4-3/4	1/2	1-7/8	14	7/16	2-5/8	(3) X (6)	H	6	5-15/16	9-7/8	12-5/8	10-1/8	1-1/2	8	3/8	11-13/16
	1-1/2	5-1/4	1/2	2-1/8	14	7/16	2-5/8	(3) X (6)										
	2	5-3/4	1/2	2-3/8	14	7/16	2-5/8	(3) X (6)										
	2-1/2	6-1/4	1/2	2-5/8	14	7/16	2-5/8	(3) X (6)										
	3	6-3/4	1/2	2-7/8	14	7/16	2-5/8	(3) X (6)										
	3-1/2	7-1/4	7/16	2-1/8	14	7/16	2-5/8	(4) X (6)										
	4	7-3/4	1/2	2-1/4	14	7/16	2-5/8	(4) X (6)										
	4-1/2	8-1/2	1/2	2-1/2	14	7/16	2-5/8	(4) X (6)										
	5	8-3/4	7/16	2-5/8	14	7/16	2-5/8	(4) X (6)										
	5-1/2	9-1/4	1/2	2-3/4	14	7/16	2-5/8	(4) X (6)										
	6	10	1/2	3	14	7/16	2-5/8	(4) X (6)										
11-3/16	1	4-3/4	1/2	1-7/8	14-3/4	1/2	2-3/4	(3) X (6)	J	8	6-5/16	10-7/8	13-5/8	11-1/8	1-1/2	8	3/8	12-3/4
	1-1/2	5-1/4	1/2	2-1/8	14-3/4	1/2	2-3/4	(3) X (6)										
	2	5-3/4	1/2	2-3/8	14-3/4	1/2	2-3/4	(3) X (6)										
	2-1/2	6-1/4	1/2	2-5/8	14-3/4	1/2	2-3/4	(3) X (6)										
	3	6-3/4	1/2	2-7/8	14-3/4	1/2	2-3/4	(3) X (6)										
	3-1/2	7-1/4	7/16	2-1/8	14-3/4	1/2	2-3/4	(4) X (6)										
	4	7-3/4	1/2	2-1/4	14-3/4	1/2	2-3/4	(4) X (6)										
	4-1/2	8-1/2	1/2	2-1/2	14-3/4	1/2	2-3/4	(4) X (6)										
	5	8-3/4	7/16	2-5/8	14-3/4	1/2	2-3/4	(4) X (6)										
	5-1/2	9-1/4	1/2	2-3/4	14-3/4	1/2	2-3/4	(4) X (6)										
	6	10	1/2	3	14-3/4	1/2	2-3/4	(4) X (6)										
	6-1/2	10-1/2	1/2	2-3/8	14-3/4	1/2	2-3/4	(5) X (6)										
12-3/16	1	5	1/2	2	16	1/2	3	(3) X (6)	K	8	6-13/16	11-7/8	15-1/8	12-1/8	1-1/2	12	7/16	14
	1-1/2	5-1/2	1/2	2-1/4	16	1/2	3	(3) X (6)										
	2	6	1/2	2-1/2	16	1/2	3	(3) X (6)										
	2-1/2	6-1/2	1/2	2-3/4	16	1/2	3	(3) X (6)										
	3	7	1/2	3	16	1/2	3	(3) X (6)										
	3-1/2	7-1/4	7/16	2-1/8	16	1/2	3	(4) X (6)										
	4	8	7/16	2-3/8	16	1/2	3	(4) X (6)										
	4-1/2	8-1/2	1/2	2-1/2	16	1/2	3	(4) X (6)										
	5	8-3/4	7/16	2-5/8	16	1/2	3	(4) X (6)										
	5-1/2	9-1/2	7/16	2-7/8	16	1/2	3	(4) X (6)										
	6	10	1/2	3	16	1/2	3	(4) X (6)										
	6-1/2	10-1/2	1/2	2-3/8	16	1/2	3	(5) X (6)										
	7	11	1/2	2-1/2	16	1/2	3	(5) X (6)										

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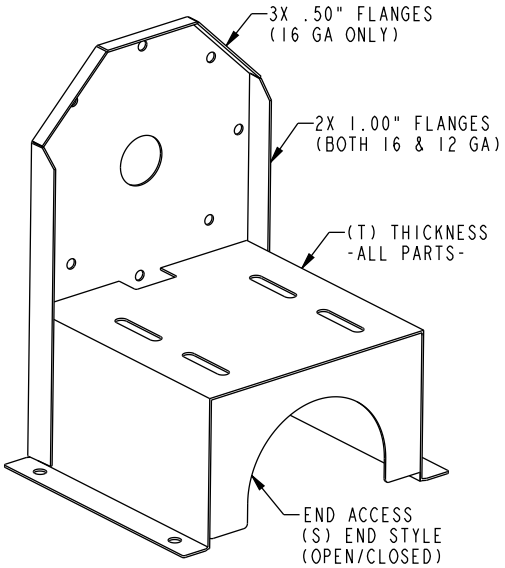
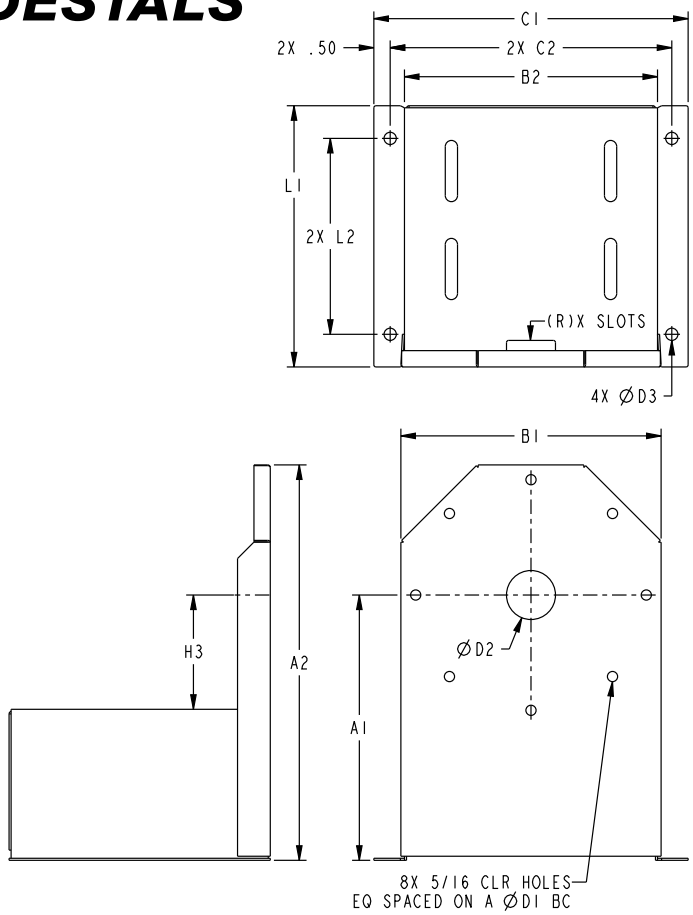
F-Series Arr. 4 Pedestals





STANDARD PEDESTAL DIMENSIONS (AVAILABLE IN STEEL & STAINLESS STEELS)																		
IMP DIA	AXIS	DBC	HT	PART WIDTHS				MTG	THK	ID	LGTHS		END	SLTS	HT	HS SIZE	MOTOR FRAME	CATALOG #
	A1	D1	A2	B1	B2	C1	C2	D3	T	D2	L1	L2	S	R	H3			[ROOT ONLY]
5	6-¾	5-13/16	10-⅛	6-¾	6-⅜	8-½	7-½	13/32	16 GA	¾	8	6	Open	1	3	4-¾	48 ONLY	P4Z080A-6
										1	10	8	Open	0	3-½	4-¾	56 ONLY	P4Z080B-6
										1-¼	10	8	Open	0	3-½	4-¾	56-145T	P4Z080D-6
5-½	7-¼	6-⅛	10-⅞	7-¼	6-⅞	9	8	13/32	16 GA	¾	8	6	Open	1	3	4-¾	48 ONLY	P4Z088A-6
										1	10	8	Open	0	3-½	4-¾	56 ONLY	P4Z088B-6
										1-¼	10	8	Open	0	3-½	4-¾	56-145T	P4Z088D-6
6-¼	7-¾	7-1/16	11-¾	8	7-⅝	9-¾	8-¾	13/32	16 GA	¾	8	6	Open	0	3	4-¾	48 ONLY	P4Z100A-6
										1	10	8	Open	1	3-½	4-¾	56 ONLY	P4Z100B-6
										1-¼	10	8	Open	1	3-½	4-¾	56-145T	P4Z100D-6
7	8-¾	7-13/16	13-¼	9	8-⅝	10-¾	9-¾	13/32	16 GA	¾	8	6	Closed	2	3	4-¾	48 ONLY	P4Z112A-6
										1	10	8	Open	0	3-½	4-¾	56 ONLY	P4Z112B-6
										1-¼	10	8	Open	0	3-½	4-¾	56-145T	P4Z112D-6
7-11/16	9-¼	8-⅝	14-⅛	9-¾	9-⅜	11-½	10-½	13/32	16 GA	¾	8	6	Closed	2	3	4-¾	48 ONLY	P4Z123A-6
										1	10	8	Closed	0	3-½	4-¾	56 ONLY	P4Z123B-6
										1-¼	10	8	Closed	0	3-½	4-¾	56-145T	P4Z123D-6
										1-½	12	10	Open	1	4-½	6	182-184T	P4Z123E-6
8-⅜	10	9-5/16	15-⅛	10-¼	9-⅞	12	11	13/32	16 GA	¾	8	6	Closed	2	3	4-¾	48 ONLY	P4Z134A-6
										1	10	8	Closed	2	3-½	4-¾	56 ONLY	P4Z134B-6
										1-¼	10	8	Closed	2	3-½	4-¾	56-145T	P4Z134D-6
										1-½	12	10	Open	1	4-½	6	182-184T	P4Z134E-6

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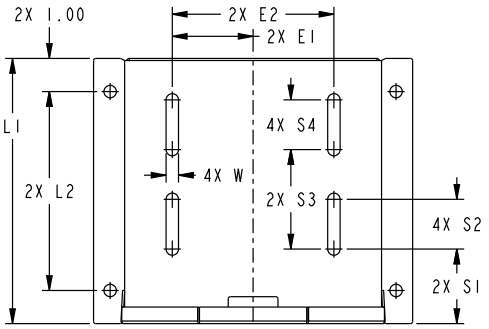
IMP DIA	AXIS	DBC	HT	PART WIDTHS				MTG	THK	ID	LGTHS		END	SLTS	HT	HS SIZE	MOTOR FRAME	PART #
	A1	D1	A2	B1	B2	C1	C2	D3	T	D2	L1	L2	S	R	H3			[ROOT]
9-3/16	10-3/4	10	16-1/4	11	10-3/4	12-3/4	11-3/4	13/32	16 GA	3/4	8	6	Closed	0	3	4-3/4	48	P4Z147A-6
										1	10	8	Closed	2	3-1/2	4-3/4	56 ONLY	P4Z147B-6
		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

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



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