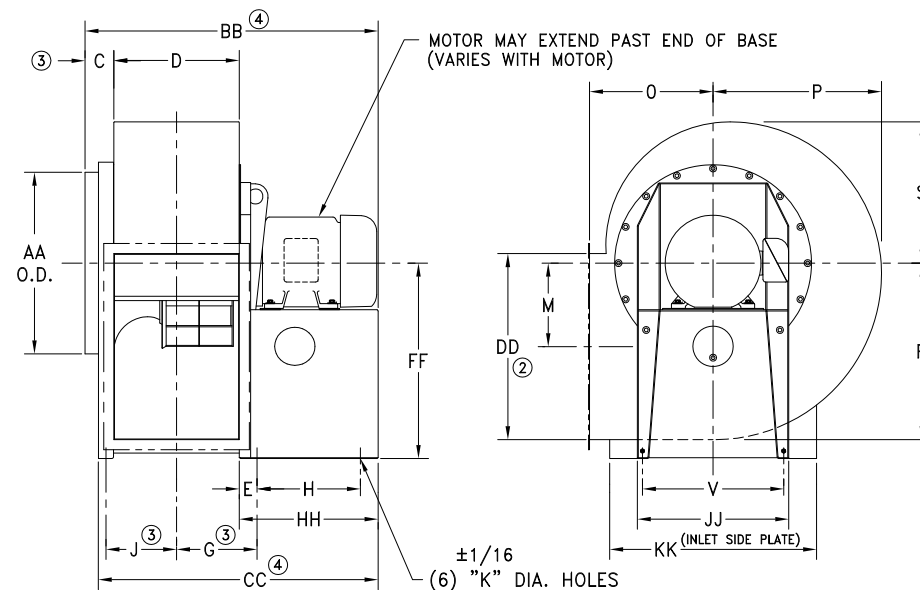


SIZE	MOTOR FRAME	E	③	H	④	④	HH	WEIGHT ⊕		
			G		BB	CC		SM.	LG.	EX. LG.
-120	143T-184T	3	7 $\frac{11}{16}$	5 $\frac{1}{2}$	24 $\frac{15}{16}$	22 $\frac{15}{16}$	11 $\frac{1}{2}$	130		
-130	143T-215T		8 $\frac{3}{16}$	7 $\frac{5}{8}$	28 $\frac{1}{16}$	26 $\frac{1}{16}$	13 $\frac{5}{8}$	160		
-150	SM. 143T-215T		8 $\frac{11}{16}$	7 $\frac{5}{8}$	29 $\frac{1}{16}$	27 $\frac{1}{16}$	13 $\frac{5}{8}$	190	210	
	LG. 254T-256T			16	37 $\frac{7}{16}$	35 $\frac{7}{16}$	22			
-160	SM. 143T-184T		9 $\frac{1}{4}$	7 $\frac{5}{8}$	30 $\frac{3}{16}$	28 $\frac{3}{16}$	13 $\frac{5}{8}$	220	240	
	LG. 213T-256T			17	39 $\frac{9}{16}$	37 $\frac{9}{16}$	23			
-180	SM. 143T-215T		9 $\frac{15}{16}$	8 $\frac{3}{8}$	32 $\frac{5}{16}$	30 $\frac{5}{16}$	14 $\frac{3}{8}$	280	315	320
	LG. 254T-286T			18 $\frac{1}{2}$	42 $\frac{7}{16}$	40 $\frac{7}{16}$	24 $\frac{1}{2}$			
	EX. LG. 324T-326T			21	44 $\frac{15}{16}$	42 $\frac{15}{16}$	27			
-200	SM. 182T-256T		10 $\frac{5}{8}$	11 $\frac{1}{2}$	36 $\frac{13}{16}$	34 $\frac{13}{16}$	17 $\frac{1}{2}$	350	385	390
	LG. 284T-286T			18 $\frac{1}{2}$	43 $\frac{13}{16}$	41 $\frac{13}{16}$	24 $\frac{1}{2}$			
	EX. LG. 324T-326T			21	46 $\frac{5}{16}$	44 $\frac{5}{16}$	27			
-220	SM. 182T-256T		11 $\frac{7}{16}$	11 $\frac{1}{2}$	38 $\frac{7}{16}$	36 $\frac{7}{16}$	17 $\frac{1}{2}$	390	450	
	LG. 284T-326T			21	47 $\frac{15}{16}$	45 $\frac{15}{16}$	27			
-240	SM. 213T-256T		12 $\frac{5}{16}$	11 $\frac{1}{2}$	42 $\frac{1}{8}$	38 $\frac{1}{8}$	17 $\frac{1}{2}$	490	560	
	LG. 284T-326T			21	51 $\frac{5}{8}$	47 $\frac{5}{8}$	27			
-270	SM. 213T-256T		13 $\frac{1}{4}$	11 $\frac{1}{2}$	44	40	17 $\frac{1}{2}$	610	690	
	LG. 284T-326T			21	53 $\frac{1}{2}$	49 $\frac{1}{2}$	27			
-300	SM. 213T-256T		14 $\frac{3}{8}$	11 $\frac{1}{2}$	46 $\frac{5}{16}$	42 $\frac{5}{16}$	17 $\frac{1}{2}$	740	850	
	LG. 284T-326T			21	55 $\frac{13}{16}$	51 $\frac{13}{16}$	27			
-330	SM. 284T-326T	3 $\frac{1}{2}$	15 $\frac{15}{16}$	20	55 $\frac{1}{8}$	54 $\frac{15}{16}$	27	1100	1160	1190
	LG. 364T-405T			25	60 $\frac{1}{8}$	59 $\frac{15}{16}$	32			
	EX. LG. 444T			29	64 $\frac{1}{8}$	63 $\frac{15}{16}$	36			
-360	SM. 284T-326T		17 $\frac{1}{8}$	20	57 $\frac{1}{2}$	57 $\frac{5}{16}$	27	1215	1365	1410
	LG. 364T-405T			25	62 $\frac{1}{2}$	62 $\frac{5}{16}$	32			
	EX. LG. 444T			29	66 $\frac{1}{2}$	66 $\frac{5}{16}$	36			

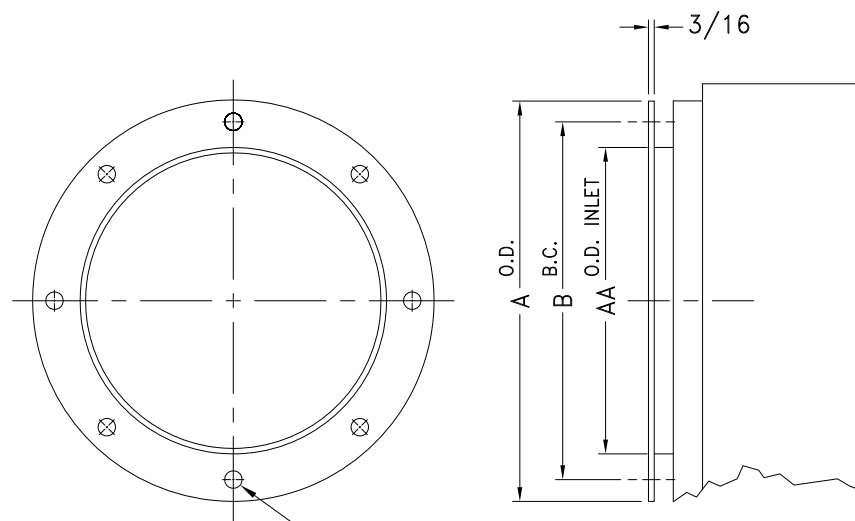
⊕ WEIGHT DOES NOT INCLUDE MOTOR OR OPTIONS.

NOTES:

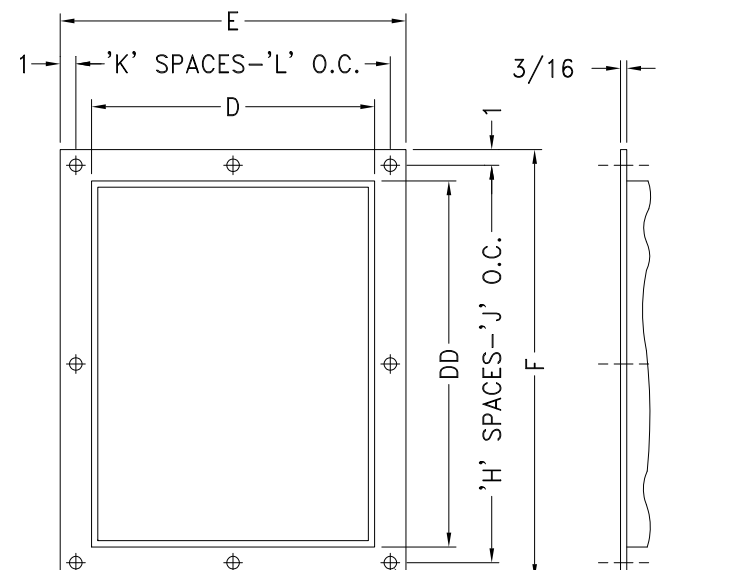
1. MODELS HDBI/HDAF-120 THRU -300 ROTATABLE IN 45° INCREMENTS. HDBI/HDAF-330 & 360-FAN HOUSING IS FIXED.
2. DISCHARGE FLANGE IS STANDARD ON MODELS 270 THRU 360.
3. ADD 1/8" FOR AMCA "C" CONSTRUCTION FANS AND/OR DOWNBLAST DISCHARGE POSITION.
4. ADD 1/4" FOR AMCA "C" CONSTRUCTION FANS AND/OR DOWNBLAST DISCHARGE POSITION.
5. HDBI/HDAF-330 & 360-DOWNBLAST DISCHARGE ORIENTATION NOT AVAILABLE.



	SIZE	③ C	D	③ J	K	M	O	P	R	S	V	AA	DD	FF	JJ	KK
	-120	4 $\frac{1}{16}$	9 $\frac{3}{8}$	5 $\frac{3}{4}$	$\frac{9}{16}$	6 $\frac{3}{16}$	9 $\frac{15}{16}$	12 $\frac{3}{8}$	13	10 $\frac{3}{8}$	14	13 $\frac{1}{4}$	13 $\frac{3}{4}$	15 $\frac{1}{2}$	16	
	-130	4 $\frac{1}{16}$	10 $\frac{3}{8}$	6 $\frac{1}{4}$	$\frac{9}{16}$	6 $\frac{13}{16}$	10 $\frac{13}{16}$	13 $\frac{3}{4}$	14 $\frac{7}{16}$	11 $\frac{9}{16}$	15 $\frac{3}{4}$	14 $\frac{5}{8}$	15 $\frac{1}{4}$	16 $\frac{5}{8}$	17 $\frac{3}{4}$	
	-150	4 $\frac{1}{16}$	11 $\frac{3}{8}$	6 $\frac{3}{4}$	$\frac{9}{16}$	7 $\frac{9}{16}$	11 $\frac{3}{4}$	15 $\frac{3}{16}$	15 $\frac{15}{16}$	12 $\frac{3}{4}$	17 $\frac{1}{4}$	16 $\frac{1}{8}$	16 $\frac{13}{16}$	18 $\frac{1}{8}$	19 $\frac{1}{4}$	
	-160	4 $\frac{1}{16}$	12 $\frac{1}{2}$	7 $\frac{5}{16}$	$\frac{9}{16}$	8 $\frac{5}{16}$	12 $\frac{11}{16}$	16 $\frac{11}{16}$	17 $\frac{1}{2}$	14	19 $\frac{1}{8}$	18	18 $\frac{7}{16}$	19 $\frac{3}{4}$	21 $\frac{1}{8}$	
	-180	4 $\frac{1}{16}$	13 $\frac{7}{8}$	8	$\frac{9}{16}$	9 $\frac{1}{4}$	13 $\frac{13}{16}$	18 $\frac{7}{16}$	19 $\frac{7}{16}$	15 $\frac{1}{2}$	21 $\frac{1}{2}$	20	20 $\frac{3}{8}$	22 $\frac{3}{4}$	23 $\frac{1}{2}$	
	-200	4 $\frac{1}{16}$	15 $\frac{1}{4}$	8 $\frac{11}{16}$	$\frac{9}{16}$	10 $\frac{1}{16}$	14 $\frac{15}{16}$	20 $\frac{1}{4}$	21 $\frac{1}{4}$	17	23 $\frac{1}{2}$	22	22 $\frac{3}{8}$	23 $\frac{1}{2}$	25 $\frac{1}{2}$	
	-220	4 $\frac{1}{16}$	16 $\frac{7}{8}$	9 $\frac{1}{2}$	$\frac{9}{16}$	11 $\frac{3}{16}$	16 $\frac{3}{8}$	22 $\frac{1}{2}$	23 $\frac{5}{8}$	18 $\frac{7}{8}$	26 $\frac{1}{8}$	24 $\frac{5}{8}$	24 $\frac{7}{8}$	26 $\frac{1}{4}$	28 $\frac{1}{8}$	
	-240	6 $\frac{1}{16}$	18 $\frac{9}{16}$	10 $\frac{3}{8}$	$\frac{9}{16}$	12 $\frac{5}{16}$	18 $\frac{13}{16}$	24 $\frac{3}{4}$	26	20 $\frac{3}{4}$	28 $\frac{1}{4}$	27	27 $\frac{3}{8}$	28 $\frac{1}{2}$	30 $\frac{3}{4}$	
	-270	6 $\frac{1}{16}$	20 $\frac{7}{16}$	11 $\frac{5}{16}$	$\frac{9}{16}$	13 $\frac{9}{16}$	20 $\frac{5}{8}$	27 $\frac{1}{4}$	28 $\frac{5}{8}$	22 $\frac{7}{8}$	31	30	30 $\frac{1}{16}$	31 $\frac{1}{4}$	33 $\frac{3}{4}$	
	-300	6 $\frac{1}{16}$	22 $\frac{3}{4}$	12 $\frac{7}{16}$	$\frac{9}{16}$	15 $\frac{1}{8}$	22 $\frac{5}{8}$	30 $\frac{3}{8}$	31 $\frac{7}{8}$	25 $\frac{1}{2}$	34 $\frac{1}{4}$	33 $\frac{1}{2}$	33 $\frac{9}{16}$	34 $\frac{1}{2}$	37 $\frac{1}{4}$	
	-330	3 $\frac{1}{4}$	24 $\frac{7}{8}$	14 $\frac{1}{2}$	$\frac{3}{4}$	16 $\frac{9}{16}$	24 $\frac{11}{16}$	33 $\frac{3}{8}$	35	28	28	36 $\frac{3}{4}$	36 $\frac{7}{8}$	38 $\frac{3}{4}$	30	41
	-360	3 $\frac{1}{4}$	27 $\frac{1}{4}$	15 $\frac{11}{16}$	$\frac{3}{4}$	18 $\frac{1}{8}$	27 $\frac{3}{16}$	36 $\frac{1}{2}$	38 $\frac{1}{4}$	30 $\frac{1}{2}$	31	40	40 $\frac{1}{4}$	42	33	45



INLET FLANGE
"N" HOLES, "P" DIA.



DISCHARGE FLANGE ①
"M" 7/16 DIA. HOLES

INLET						DISCHARGE								
SIZE	A O.D.	B B.C.	N	AA DIA.	P	D	E	F	H	J	K	L	M	DD
120	16	14-3/8	8	13-1/4	7/16	9-3/8	13-3/8	17-11/16	2	7-27/32	2	5-11/16	8	13-3/4
130	17-3/4	15-15/16	8	14-5/8	7/16	10-3/8	14-3/8	19-3/16	2	8-19/32	2	6-3/16	8	15-1/4
150	19-1/4	17-1/2	8	16-1/8	7/16	11-3/8	15-3/8	20-3/4	3	6-1/4	2	6-11/16	10	16-13/16
160	21-1/8	19-3/8	8	18	7/16	12-1/2	16-1/2	22-7/16	3	6-13/16	2	7-1/4	10	18-7/16
180	23-1/2	21-1/2	12	20	7/16	13-7/8	17-7/8	24-1/2	3	7-1/2	2	7-15/16	10	20-3/8
200	25-1/2	23-1/2	12	22	7/16	15-1/4	19-1/4	26-3/8	3	8-1/8	3	5-3/4	12	22-3/8
220	28-1/8	26-1/8	12	24-5/8	7/16	16-7/8	20-15/16	28-7/8	4	6-23/32	3	6-5/16	14	24-7/8
240	30-3/4	28-3/4	16	27	7/16	18-9/16	22-5/8	31-3/8	4	7-11/32	3	6-7/8	14	27-3/8
270	33-3/4	31-5/8	16	30	7/16	20-7/16	24-1/2	34-1/8	4	8-1/32	3	7-1/2	14	30-1/16
300	37-1/4	35-1/4	16	33-1/2	7/16	22-3/4	26-3/4	37-5/8	5	7-1/8	3	8-1/4	16	33-9/16
330	40-3/8	38-3/4	16	36-3/4	1/2	24-7/8	28-7/8	40-7/8	7	5-9/16	5	5-3/8	24	36-3/4
360	43-5/8	42	16	40	1/2	27-1/4	31-1/4	44-1/4	7	6-1/32	5	5-27/32	24	40-1/4

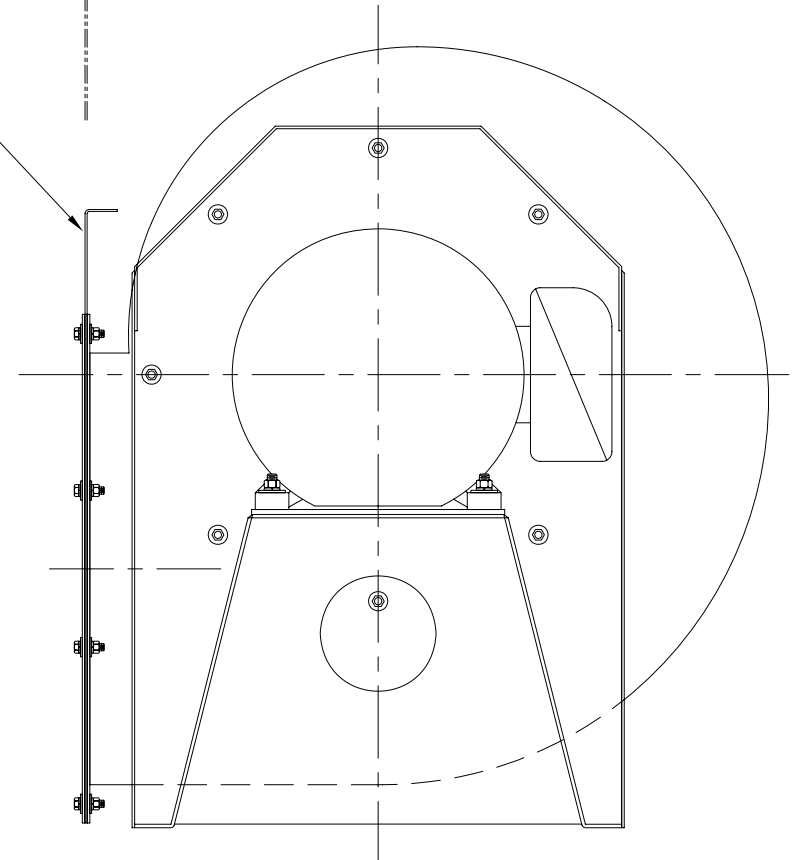
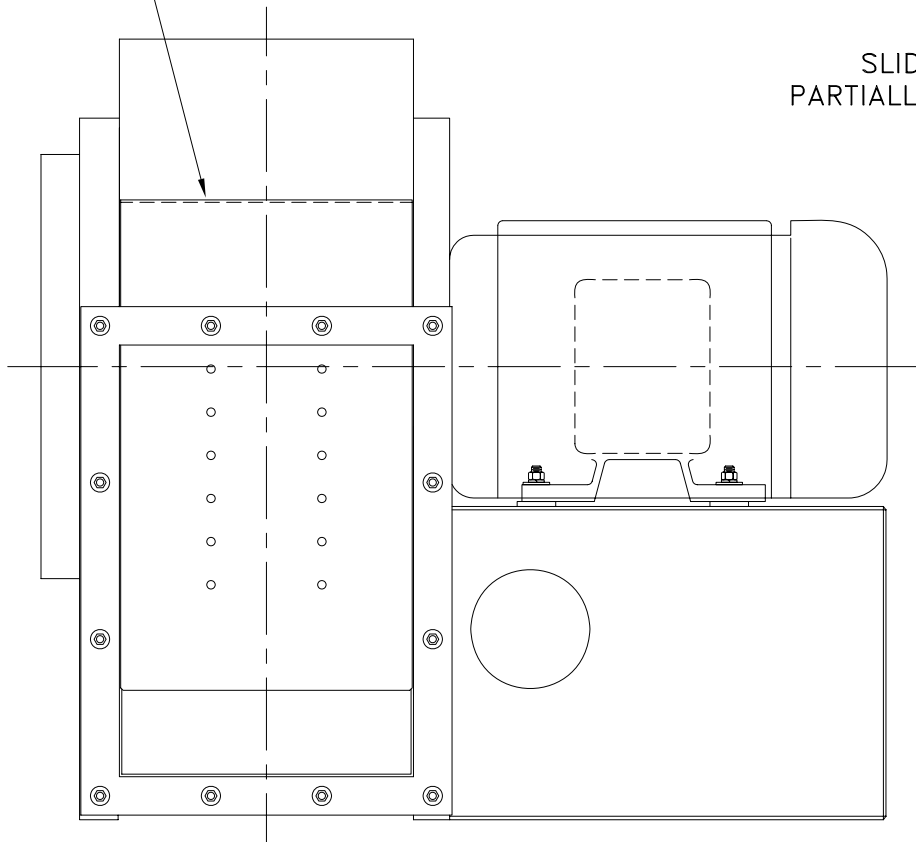
NOTE:

- ① NOT AVAILABLE ON ANY MODEL FOR DOWNBLAST, BOTTOM ANGULAR DOWN OR TOP ANGULAR DOWN DISCHARGE POSITIONS.
DISCHARGE FLANGE IS STANDARD ON SIZES -270 THRU -360.

SLIDE GATE DAMPER
(SHOWN PARTIALLY OPEN)

SLIDE GATE
FULLY OPEN

SLIDE GATE
PARTIALLY OPEN



cincinnati fan
7697 SNIDER ROAD MASON, OHIO 45040

TOLERANCES:
ANGLES: $\pm 1^\circ$
FRACTIONS $\pm 1/8$

ALL DIMENSIONS IN INCHES
UNLESS OTHERWISE SPECIFIED

SUPERSEDES:

CERTIFIED
DRAWING

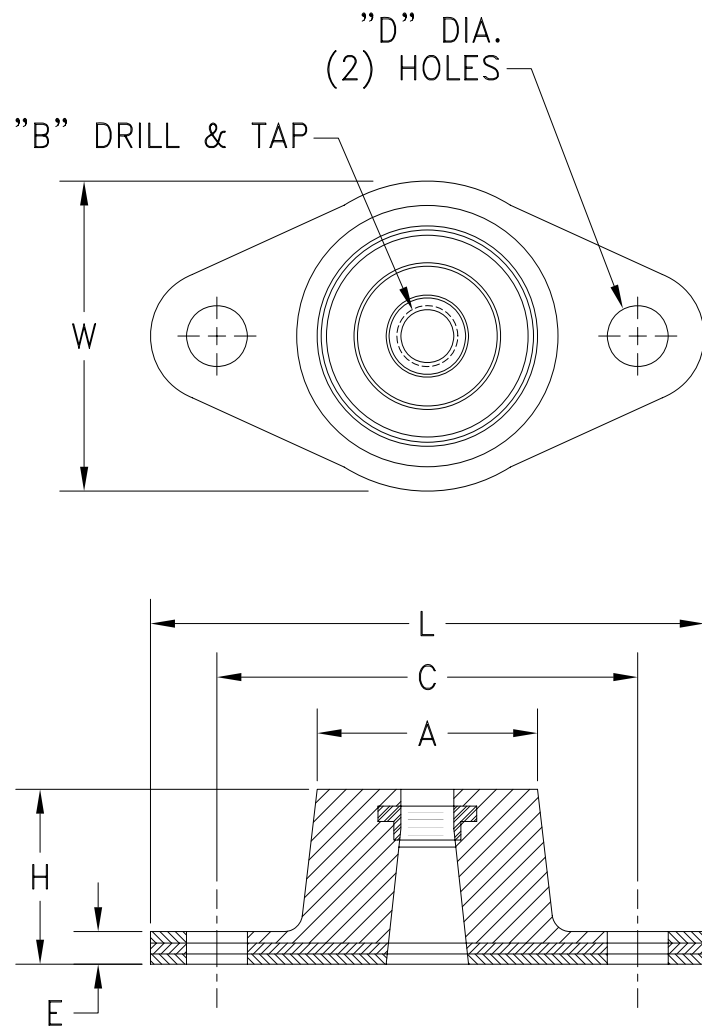
TITLE

DISCHARGE SLIDE GATE DAMPER
FOR HDBI/HDAF FANS

A

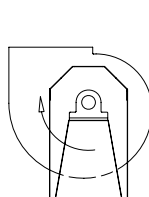
DRAWING NO.
HD-SGD

REV.

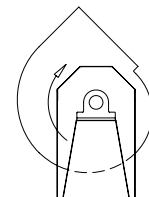


TYPE R NEOPRENE IN SHEAR MOUNTINGS											
TYPE	MAX LOAD EACH LBS.	DEFLECTION IN INCHES	DIMENSIONS IN INCHES								
			R	L	W	H	A	B	C	D	E
R1	BLUE 35 BLACK 45 RED 70 GREEN 120	0.20		$3\frac{1}{8}$	$1\frac{3}{4}$	1	$1\frac{1}{4}$	NC 18 $\frac{5}{16}$	$2\frac{3}{8}$	$\frac{11}{32}$	$\frac{3}{16}$
R2	BLUE 135 BLACK 170 RED 240 GREEN 380	0.25		$3\frac{7}{8}$	$2\frac{3}{8}$	$1\frac{1}{4}$	$1\frac{3}{4}$	NC 16 $\frac{3}{8}$	3	$\frac{11}{32}$	$\frac{7}{32}$
R3	BLACK 250 RED 525 GREEN 750 GRAY 1100	0.25		$5\frac{1}{2}$	$3\frac{3}{8}$	$1\frac{3}{4}$	$2\frac{1}{2}$	NC 13 $\frac{1}{2}$	$4\frac{1}{8}$	$\frac{9}{16}$	$\frac{1}{4}$
R4	BLACK 1500 RED 2250 GREEN 3000 GRAY 4000	0.25		$6\frac{1}{2}$	$4\frac{1}{4}$	$1\frac{3}{4}$	$3\frac{3}{4}$	NC 11 $\frac{5}{8}$	5	$\frac{9}{16}$	$\frac{1}{4}$

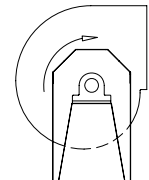
CLOCKWISE ROTATION



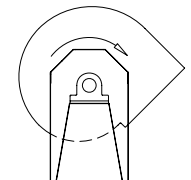
CLOCKWISE
UP BLAST



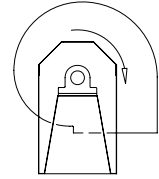
CLOCKWISE
TOP ANGULAR UP



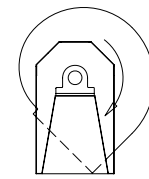
CLOCKWISE
TOP HORIZONTAL



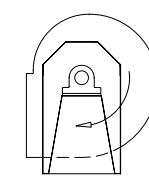
CLOCKWISE
TOP ANGULAR DOWN



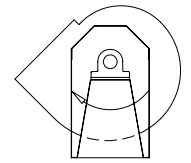
CLOCKWISE
DOWN BLAST



CLOCKWISE
BOTTOM ANGULAR DOWN

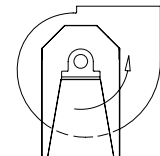


CLOCKWISE
BOTTOM HORIZONTAL

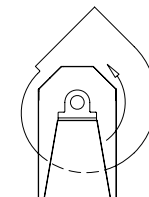


CLOCKWISE
BOTTOM ANGULAR UP

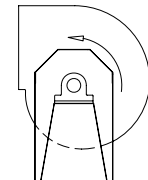
COUNTERCLOCKWISE ROTATION



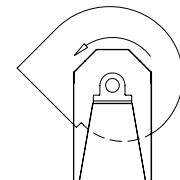
COUNTERCLOCKWISE
UP BLAST



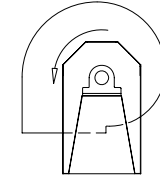
COUNTERCLOCKWISE
TOP ANGULAR UP



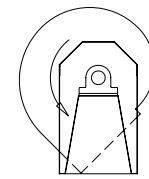
COUNTERCLOCKWISE
TOP HORIZONTAL



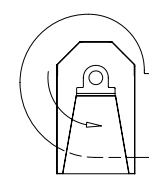
COUNTERCLOCKWISE
TOP ANGULAR DOWN



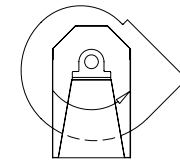
COUNTERCLOCKWISE
DOWN BLAST



COUNTERCLOCKWISE
BOTTOM ANGULAR DOWN



COUNTERCLOCKWISE
BOTTOM HORIZONTAL



COUNTERCLOCKWISE
BOTTOM ANGULAR UP

NOTES:

1. DIRECTION OF ROTATION IS DETERMINED FROM DRIVE SIDE OF FAN.
2. SAME AS AMCA STANDARD 99-2406-83.