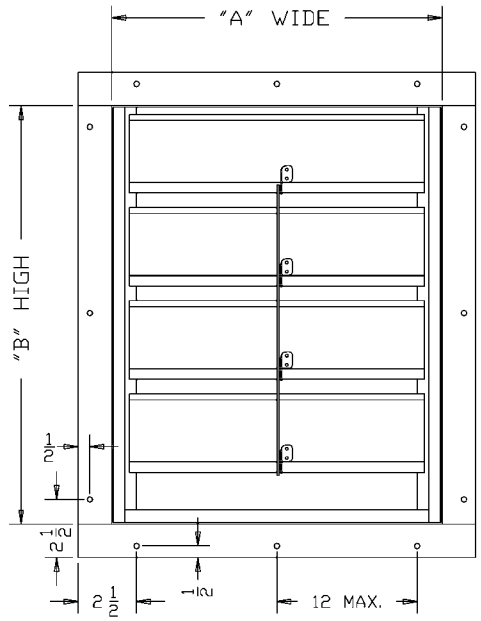
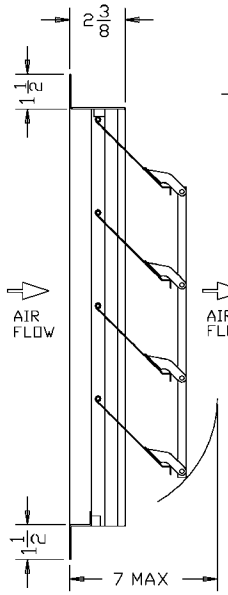
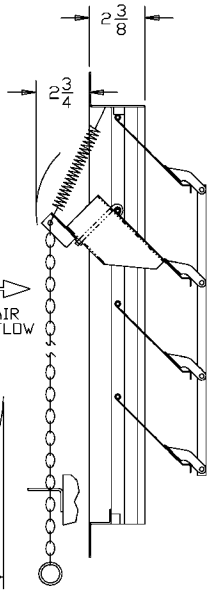
BACKDRAFT DAMPER, SINGLE THICKNESS BLADES STAINLESS STEEL CONSTRUCTION



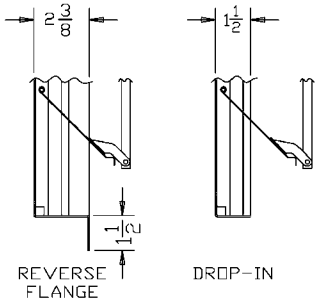
FACE VIEW BD-28



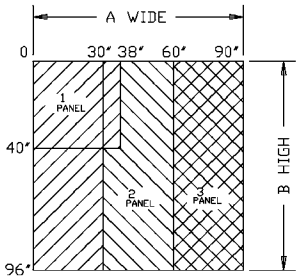
BD-28
AUTOMATIC



BD-29
MANUAL ACTUATOR



ALTERNATE FRAMES



MAXIMUM FACTORY ASSEMBLED SIZE

AWV ITEM No.	QUANTITY	MODEL No.	"A" WIDE	"B" HIGH	OPTIONS: REVERSE FLANGE FRAME	OPTIONS: DROP-IN FRAME	OPTIONS: 316 STAINLESS STEEL FRAME	COMMENTS

STANDARD SPECIFICATIONS

FRAME:	STANDARD, REVERSE, & DROP-IN: 14 GUAGE 304 STAINLESS STEEL.
INNERFRAME:	20 GUAGE 304 STAINLESS STEEL.
MULLION:	16 GUAGE 304 STAINLESS STEEL.
BLADES:	PANEL WIDTHS THRU 30" WIDE - 26 GAUGE 304 STAINLESS STEEL WITH A SINGLE STIFFENING BRAKE. PANEL WIDTHS THRU 30"+ WIDE THRU 38" WIDE - 26 GAUGE 304 STAINLESS STEEL WITH A DOUBLE STIFFENING BRAKES.
AXLES:	3/16" DIAMETER 303 STAINLESS STEEL ROD.
BEARINGS:	430 STAINLESS STEEL SLEEVE.
LINKAGE:	304 STAINLESS STEEL BRACKETS, STAINLESS STEEL SHOULDER RIVETS. & 20 GA. 304 STAINLESS STEEL LINKAGE BARS. PANELS UP TO AND NOT INCLUDING 20" SQUARE HAVE SINGLE LINKAGE. ALL OTHERS HAVE DOUBLE LINKAGE.
SEALS:	POLYURETHANE SPONGE ON SILL AND FELT ON ADJACENT BLADES.
FINISH:	MILL.
ACTUATOR:	MANUAL: SPRING CLOSING CHAIN ACTUATOR.
CONSTRUCTION OPTION:	BLADE AND FRAME MATERIAL OF 316 STAINLESS STEEL.

NOTES

1. DESIGN CRITERIA:
   MAXIMUM VELOCITY: 2500 FPM/ 13 m/s.
   MAXIMUM DIFFERENTIAL PRESSURE: 1" w.g./ 250 Pa.
   MAXIMUM TEMPERATURE: 200°F/95°C.
2. MAXIMUM PANEL SIZES. SEE SIZING CHART. MINIMUM PANEL SIZE: 6"W x 6"H.
3. "A" & "B" DIMENSIONS ARE EXACT FRAME DIMENSIONS EXCEPT WHEN DAMPERS ARE SUPPLIED WITH ALTERNATE FRAMES, THEY WILL BE FABRICATED WITH THE OUTSIDE FRAME DIMENSIONS APPROXIMATELY 1/8" UNDERSIZE.
4. ANY VARIATIONS TO THE ABOVE STANDARD SPECIFICATIONS MUST BE FACTORY APPROVED IN ADVANCE.
5. DRAWINGS ARE SUBJECT TO CHANGE WITHOUT NOTICE. SPECIFIC INFORMATION FOR ANY COMPONENT OR CONSTRUCTION DETAIL WILL BE FURNISHED UPON REQUEST.
6. TWO FLANGED FRAMES ARE AVAILABLE. THE STANDARD FLANGE MOVES THE SHUTTER BODY OUTSIDE THE WALL OPENING WHILE THE REVERSE FLANGE KEEPS THE BODY WITHIN THE WALL OPENING. THE "DROP-IN" FRAME IS USED FOR DUCT MOUNTING.
7. RIVETS ARE 430 STAINLESS STEEL.
8. FOR HORIZ. MOUNT/VERT. AIRFLOW, CONTACT FACTORY.

REV.	DESCRIPTION	DATE	BY

DATE :

AWV PROD. No. :

PROJECT :

CUSTOMER / ORDER No. :

ARCH. / ENGR. :

AGENT / ORDER No. :

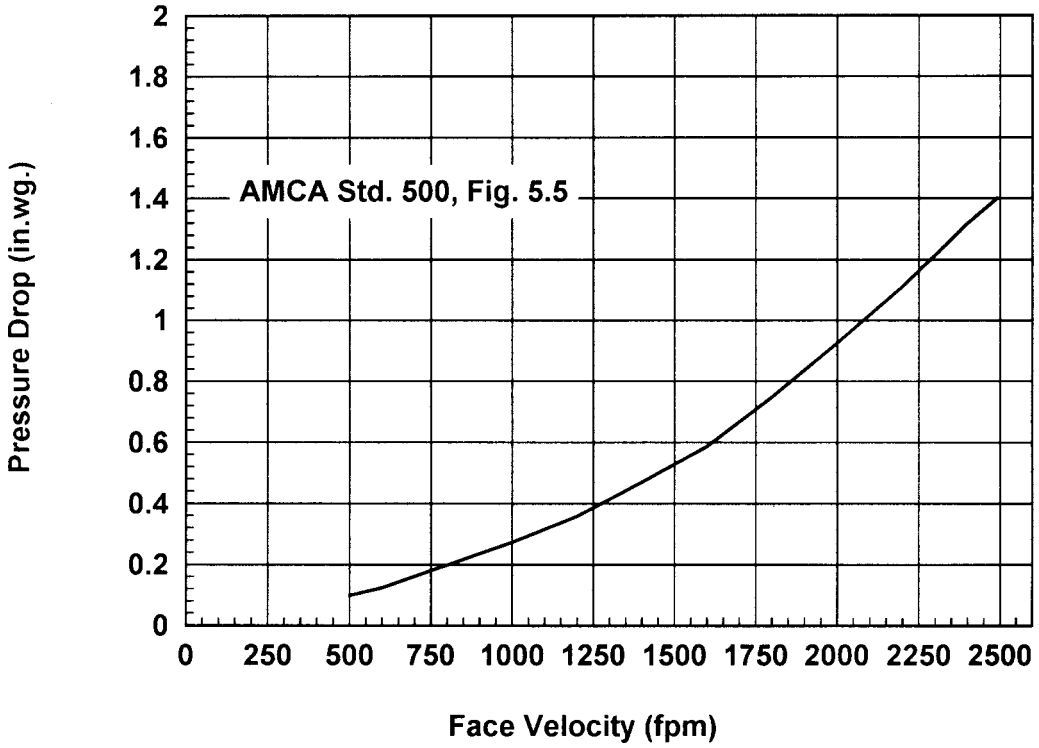
awv® american warming and ventilating
A MESTEK COMPANY
7301 INTERNATIONAL DRIVE HOLLAND, OHIO

BD-28/29 BACKDRAFT DAMPER

DRN. BY	DWG. NO.	REV.
SJA	BD-28-1	
DATE 12-05-00		

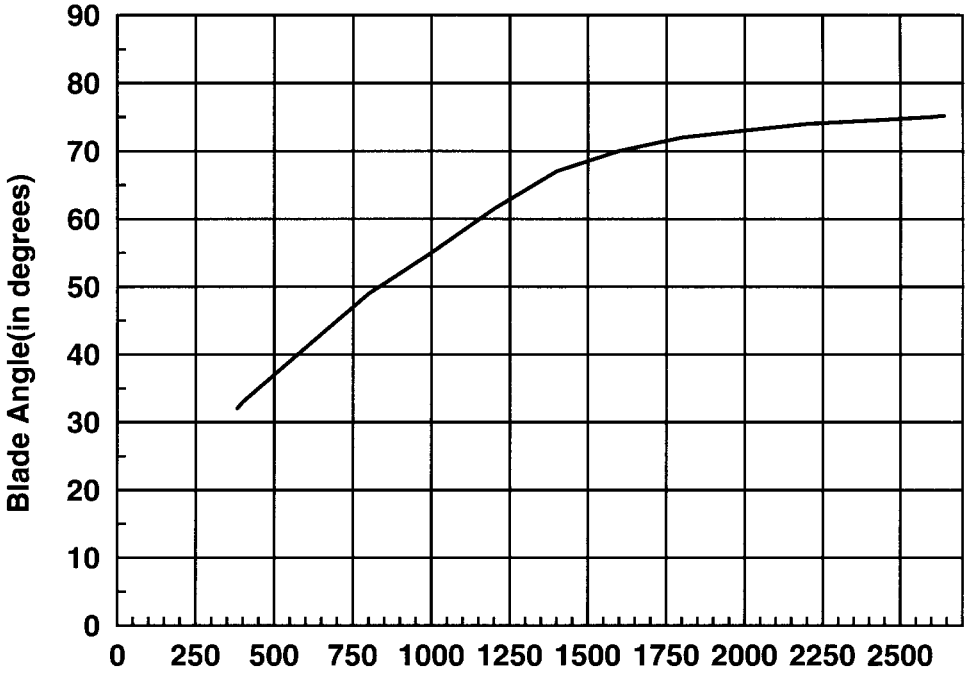
PERFORMANCE DATA FOR MODEL BD-28/29

PRESSURE DROP CURVE



BLADE ANGLE CURVE

(SIZE TESTED 24" X 24")



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