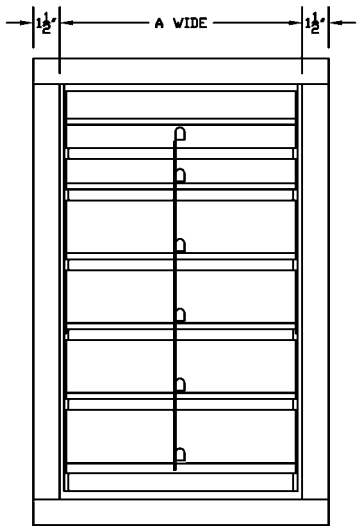
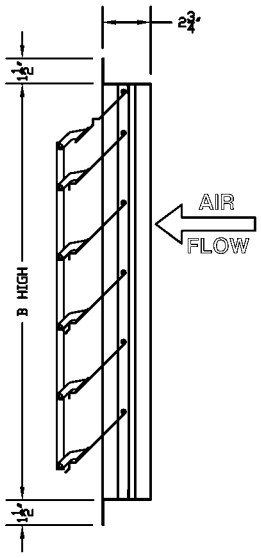
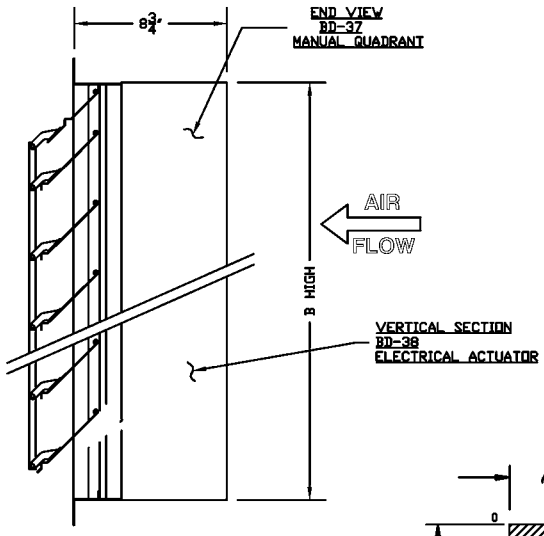
BACKDRAFT DAMPER, SINGLE THICKNESS BLADES ALUMINUM CONSTRUCTION



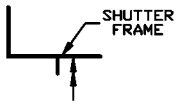
FACE VIEW



VERTICAL SECTION
BD-36 GRAVITY

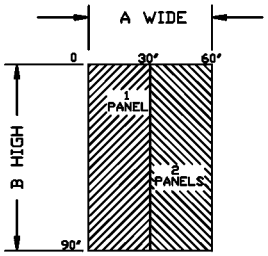


VERTICAL SECTION
BD-36 & 38
W/SLEEVE



A X B
INSIDE
EXACT

NOTE: WHEN SIZING SHUTTERS TO FIT OVER FAN OUTLETS, INCREASE SHUTTER SIZE TO INCLUDE CLEARANCE REQUIRED FOR YOUR SPECIFIC FAN DIMENSIONS AND CONSTRUCTION!



MAXIMUM FACTORY
ASSEMBLED SIZE

AWV ITEM No.	QUANTITY	MODEL No.	"A" WIDE	"B" HIGH	COMMENTS

STANDARD SPECIFICATIONS

FRAME:	REVERSE FLANGE: .062" THICK 6063-T5 EXTRUDED ALUMINUM ALLOY.
SLEEVE:	16 GAUGE GALVANIZED STEEL.
BLADES:	22 GAUGE ALUMINUM WITH SINGLE "V" BRAKE.
AXLES:	3/16" DIAMETER GALVANIZED STEEL.
BEARINGS:	SELF-LUBRICATING HEAVY DUTY NYLON.
LINKAGE:	PLATED STEEL BRACKETS, STAINLESS STEEL SHOULDER RIVETS AND ALUMINUM LINKAGE BARS. PANELS THRU 20" WIDTH HAVE SINGLE LINKAGE. PANELS ABOVE 20" HAVE DOUBLE LINKAGE.
FINISH:	MILL.
ACTUATOR OPTIONS:	MANUAL: 1/2 LOCKING QUADRANT. ELECTRIC: SPRING RETURN ACTUATOR AVAILABLE IN 24, 110/220, 440 OR 550 VOLT, SINLGE PHASE 60 Hz. WHEN DAMPER EXCEEDS TWO PANELS WIDE, MULTIPLE ACTUATORS WILL BE SUPPLIED. ACTUATORS MAY BE LINE VOLTAGE OR FURNISHED WITH A TRANSFORMER.

NOTES

1. DESIGN CRITERIA:
   MAXIMUM FACE VELOCITY: 2500 fpm/13m/s.
   MAXIMUM DIFFERENTIAL PRESSURE: 1 in. wg. / 250 Pa.
   MAXIMUM TEMPERATURE: 200°F/95°C WITHOUT ELECTRIC ACTUATOR.
2. MAXIMUM PANEL SIZE. SEE SIZING CHART.
   DIMENSIONS: "A" (WIDTH) AND "B" (HEIGHT) DIMENSIONS ARE INSIDE FRAME FOR BD-36 SLEEVE DIMENSIONS AND MUST INCLUDE THE CLEARANCE REQUIRED BY THE CUSTOMER.
   MAXIMUM DAMPER SIZE - 60"W X 90"H.
   MAXIMUM PANEL SIZE- 30"W X 90"H
   MINIMUM PANEL SIZE- 3"W X 6"H
3. ANY VARIATIONS TO THE ABOVE STANDARD SPECIFICATIONS MUST BE FACTORY APPROVED IN ADVANCE.
4. DRAWINGS ARE SUBJECT TO CHANGE WITHOUT NOTICE. SPECIFIC INFORMATION FOR ANY COMPONENT OR CONSTRUCTION DETAIL WILL BE FURNISHED UPON REQUEST.
5. DAMPERS ARE FOR VERTICAL MOUNT, HORIZONTAL AIR FLOW ONLY.
6. BD-38 UNITS UNDER 100 SQUARE INCHES HAVE ACTUATOR MOUNTED OUTSIDE SLEEVE.
7. MOUNTING HOLES ARE DRILLED IN FIELD BY OTHERS.

DATE :	AWV PROD. No. :
PROJECT :	
CUSTOMER / ORDER No. :	
ARCH. / ENGR. :	
AGENT / ORDER No. :	

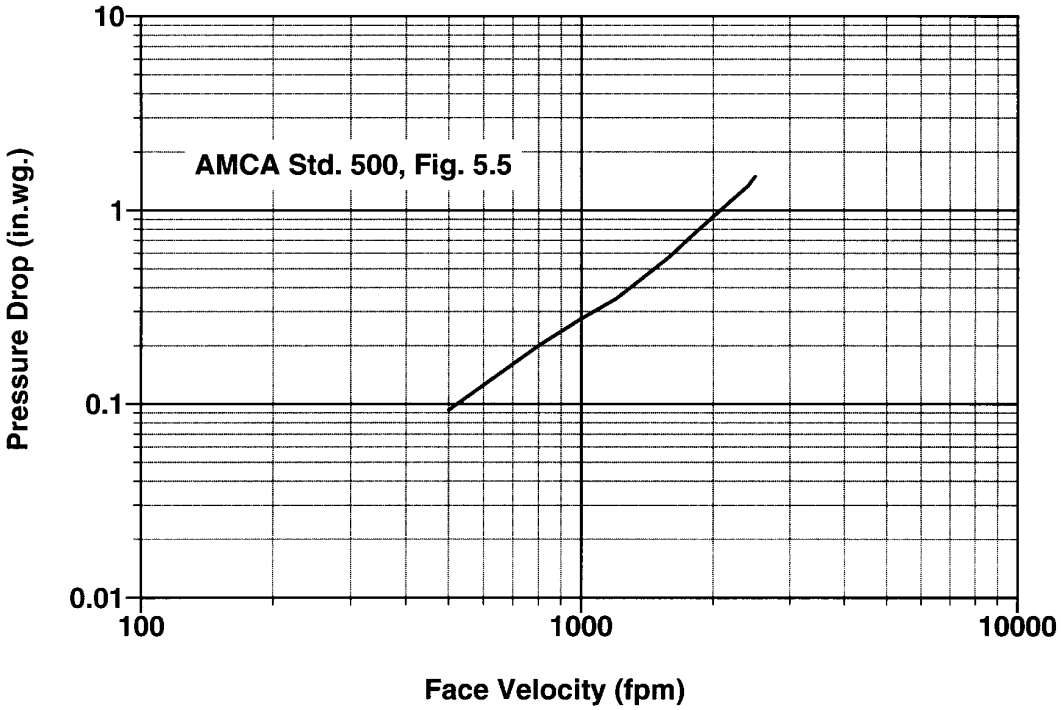
awv american warming and ventilating
A MESTEK COMPANY
7301 INTERNATIONAL DRIVE HOLLAND, OHIO

BD-36, 37 & 38 BACKDRAFT DAMPERS

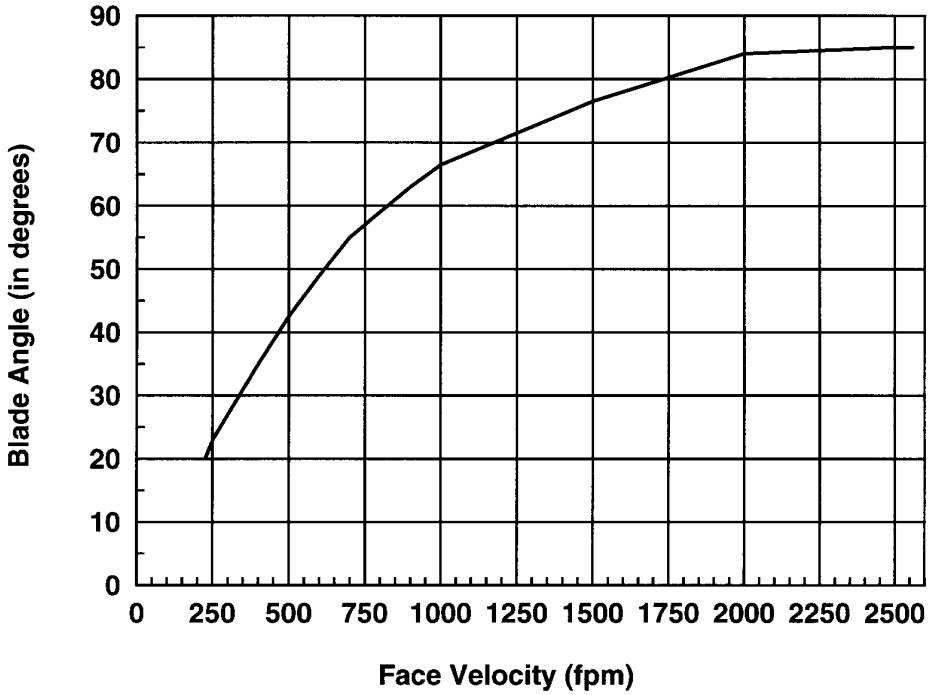
DRN. BY	DWG. NO.	REV.
SJA	BD-36-1	
DATE 12-05-00		

PERFORMANCE DATA FOR MODEL BD-36

PRESSURE DROP CURVE



BLADE ANGLE CURVE



awv american warming and ventilating
A Mestek Company
7301 International Drive • Holland, OH 43528 • Phone: (419) 865-5000 • Fax: (419) 865-1375 • www.awv.com