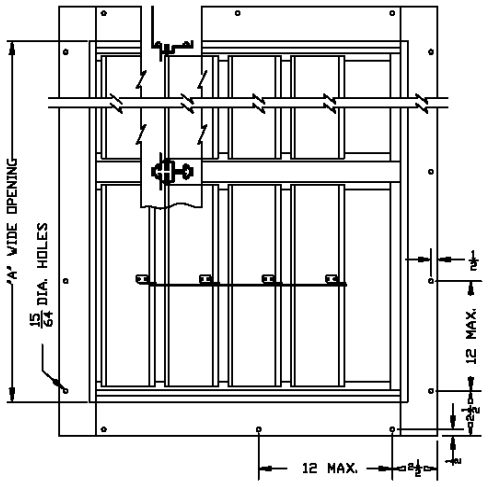
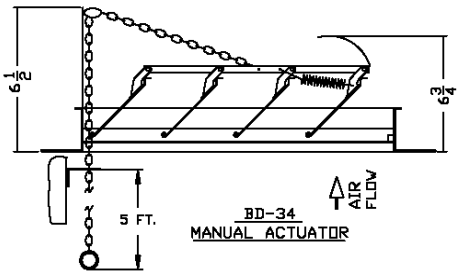
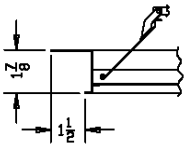
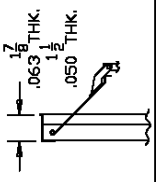
BACKDRAFT DAMPER, SINGLE THICKNESS BLADES, ALUMINUM / STEEL CONSTRUCTION



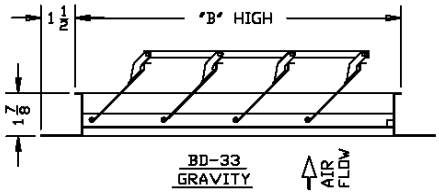


BD-34
MANUAL ACTUATOR

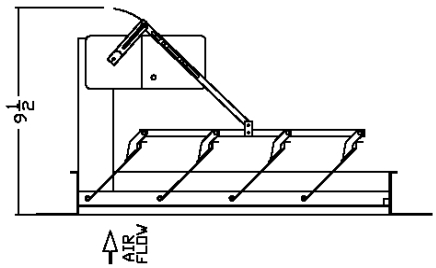




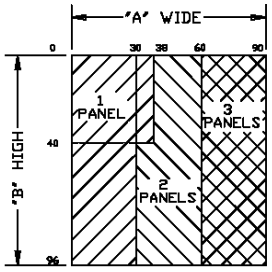
ALTERNATE FRAMES



BD-33
GRAVITY



BD-35
ELECTRIC ACTUATOR



MAXIMUM FACTORY ASSEMBLED SIZE

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

SPECIFICATIONS

FRAME: STANDARD AND REVERSE FLANGE: .063" 6063-T6 EXTRUDED ALUMINUM ALLOY. DROP-IN FLANGE: .050" 6063-T6 EXTRUDED ALUMINUM ALLOY THRU 16 SQ. FT. .063" 6063-T6 EXTRUDED ALUMINUM ALLOY ABOVE 16 SQ. FT.

BLADES: 24 GAUGE ALUMINUM WITH A SINGLE STIFFENING BRAKE THRU 30" WIDE PANELS. 22 GAUGE ALUMINUM WITH DOUBLE STIFFENING BRAKES ABOVE 30" WIDE PANELS.

AXLES: 3/16" DIAMETER FULL LENGTH PLATED STEEL ROD.

BEARINGS: SELF-LUBRICATING HEAVY DUTY NYLON.

LINKAGE: PLATED STEEL BRACKETS, STAINLESS STEEL SHOULDER RIVETS AND ALUMINUM LINKAGE BARS. PANELS UP TO BUT NOT INCLUDING 20"W x 20"H HAVE SINGLE LINKAGE. ALL OTHERS HAVE DOUBLE LINKAGE.

SEALS: POLYURETHANE SPONGE ON THE SILL AND FELT ON ADJACENT BLADES.

FINISH: MILL.

ACTUATOR: MANUAL - CHAIN AND PULLEY ARRANGEMENT

OPTIONS: ELECTRIC - SPRING RETURN ELECTRIC ACTUATOR AVAILABLE IN 24, 110/220, 440 OR 550 VOLT, SINGLE PHASE 60Hz. WHEN THE 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/13 M/S.
   MAXIMUM DIFFERENTIAL PRESSURE: 1" W.G./250 Pa.
   MAXIMUM TEMPERATURE: 200°F/95°C WITHOUT ELECTRIC ACTUATOR. 130°F/55°C WITH FACTORY SUPPLIED STANDARD ACTUATOR.
2. MAXIMUM PANEL SIZE - SEE SIZING CHART.
   MINIMUM PANEL SIZE - 6"W x 6"H.
3. "A" AND "B" DIMENSIONS ARE EXACT FRAME DIMENSIONS. WHEN DAMPERS ARE SUPPLIED WITH ALTERNATE FRAME, 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 SUBJECT TO CHANGE WITHOUT NOTICE. SPECIFIC INFORMATION FOR ANY COMPONENT OR CONSTRUCTION DETAIL WILL BE FURNISHED UPON REQUEST.
6. DAMPERS ARE FOR HORIZONTAL MOUNT, VERTICAL UP AIR FLOW ONLY.
7. USE OF OTHER THAN STANDARD ELECTRIC ACTUATORS MAY AFFECT MAXIMUM TEMPERATURE.
8. DAMPER SHOULD BE MOUNTED A MINIMUM OF 1/3 FAN DIA. FROM FAN HOUSING.

REV.	DESCRIPTION	DATE	BY

DATE :

AWV PROD. No. :

PROJECT :

CUSTOMER / ORDER No. :

ARCH. / ENGR. :

AGENT / ORDER No. :

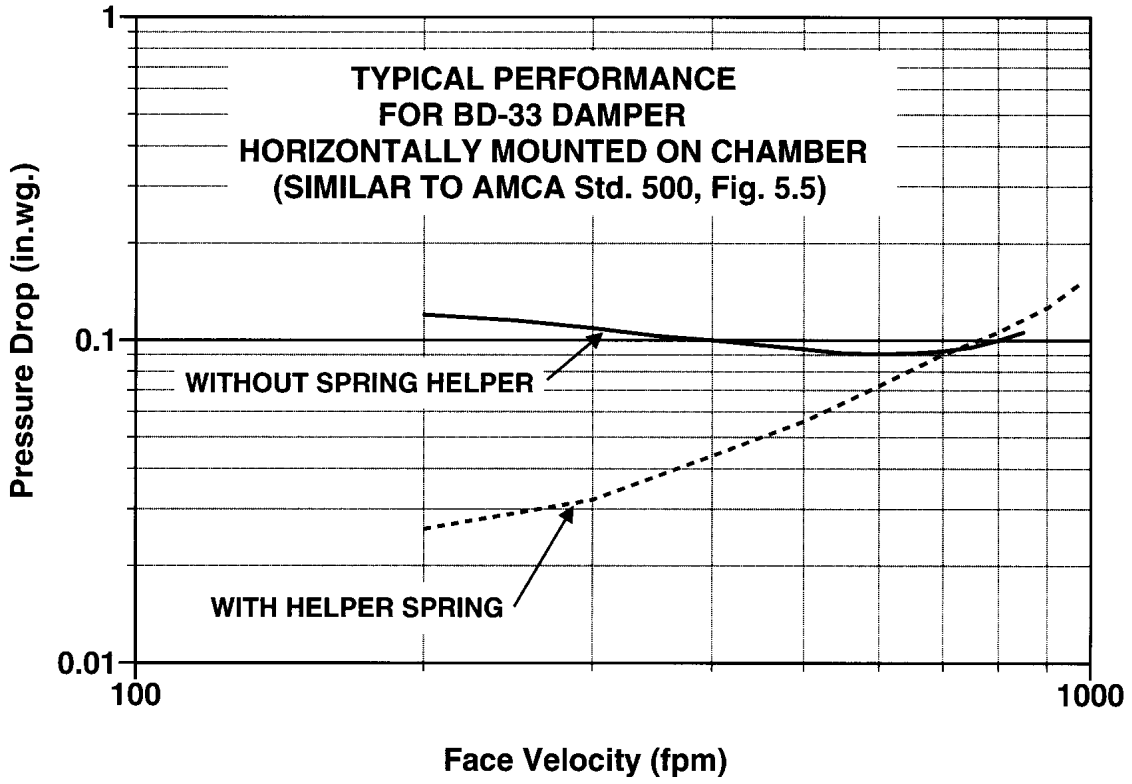
awv® american warming and ventilating
A MESTEK COMPANY
7301 INTERNATIONAL DRIVE HOLLAND, OHIO

BD-33, 34 & 35 BACKDRAFT DAMPER

DRN. BY	DWG. NO.	REV.
SJA	BD-33-1	
DATE 12-05-00		

PERFORMANCE DATA FOR MODEL BD-33

PRESSURE DROP 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