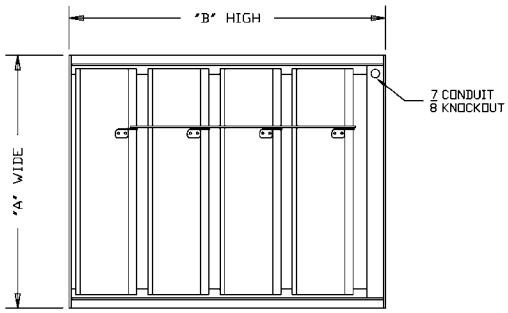
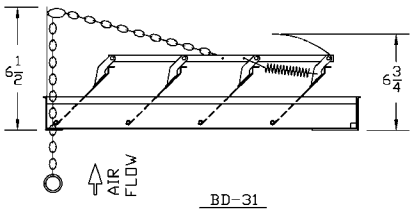
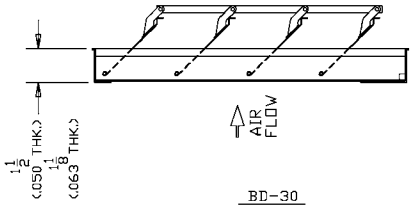
BACKDRAFT DAMPER, SINGLE THICKNESS BLADES, ALUMINUM CONSTRUCTION

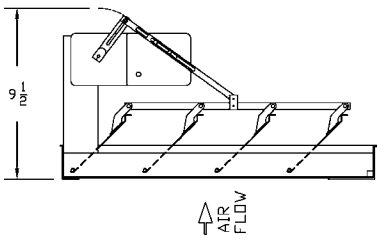




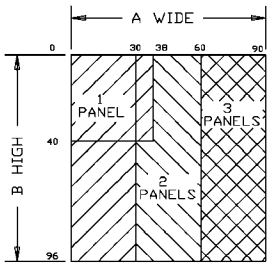
BD-31
MANUAL ACTUATOR



BD-30
GRAVITY



BD-32
ELECTRIC ACTUATOR



MAXIMUM FACTORY ASSEMBLED SIZE

AWV ITEM No.	QUANTITY	MODEL No.	"A" WIDE	"B" HIGH	OPTIONS: FELT BETWEEN	OPTIONS: MOTOR VOLTAGE	COMMENTS

SPECIFICATIONS

FRAME:	DROP-IN: .063" 6063-T6 EXTRUDED ALUMINUM ALLOY THRU 16 SQ. FEET AND .063" 6063-T6 EXTRUDED ALUMINUM ALLOY ABOVE 16 SQ. FEET.
BLADES:	24 GUAGE ALUMINUM WITH A SINGLE STIFFENING BRAKE.
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 BAR. PANELS UP TO AND INCLUDING 30" WIDE HAVE SINGLE LINKAGE. PANELS EXCEEDING 30" WIDE HAVE DOUBLE LINKAGE.
SEALS:	POLYURETHANE SPONGE ON SILL.
FINISH:	MILL.
OPERATOR OPTIONS:	MANUAL - CHAIN AND PULLEY ARRANGEMENT. ELECTRIC - SPRING RETURN ACTUATOR AVAILABLE IN 24, 110/220, 440 OR 550 VOLT, SINGLE PHASE, 60Hz. 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: 1500 fpm/8 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 ELECTRIC ACTUATOR.
2. MAXIMUM PANEL SIZES - SEE SIZING CHART.
   MINIMUM PANEL SIZE - 6"W x 6"H.
3. "A" AND "B" DIMENSIONS ARE OPENING SIZES. DAMPERS WILL BE FABRICATED 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. DAMPERS ARE FOR HORIZONTAL MOUNT, VERTICAL UP AIR FLOW ONLY.
7. USE OF OTHER THAN STANDARD ELECTRIC ACTUATORS MAY AFFECT MAXIMUM TEMPERATURE.
8. THE START OPEN SENSITIVITY OF THE DAMPER IS REDUCED SUBSTANTIALY AND PERFORMANCE ALTERED IF SLEEVE BEARINGS ARE USED.

REV.	DESCRIPTION	DATE	BY

DATE :

AWV PROD. No. :

PROJECT :

CUSTOMER / ORDER No. :

ARCH. / ENGR. :

AGENT / ORDER No. :

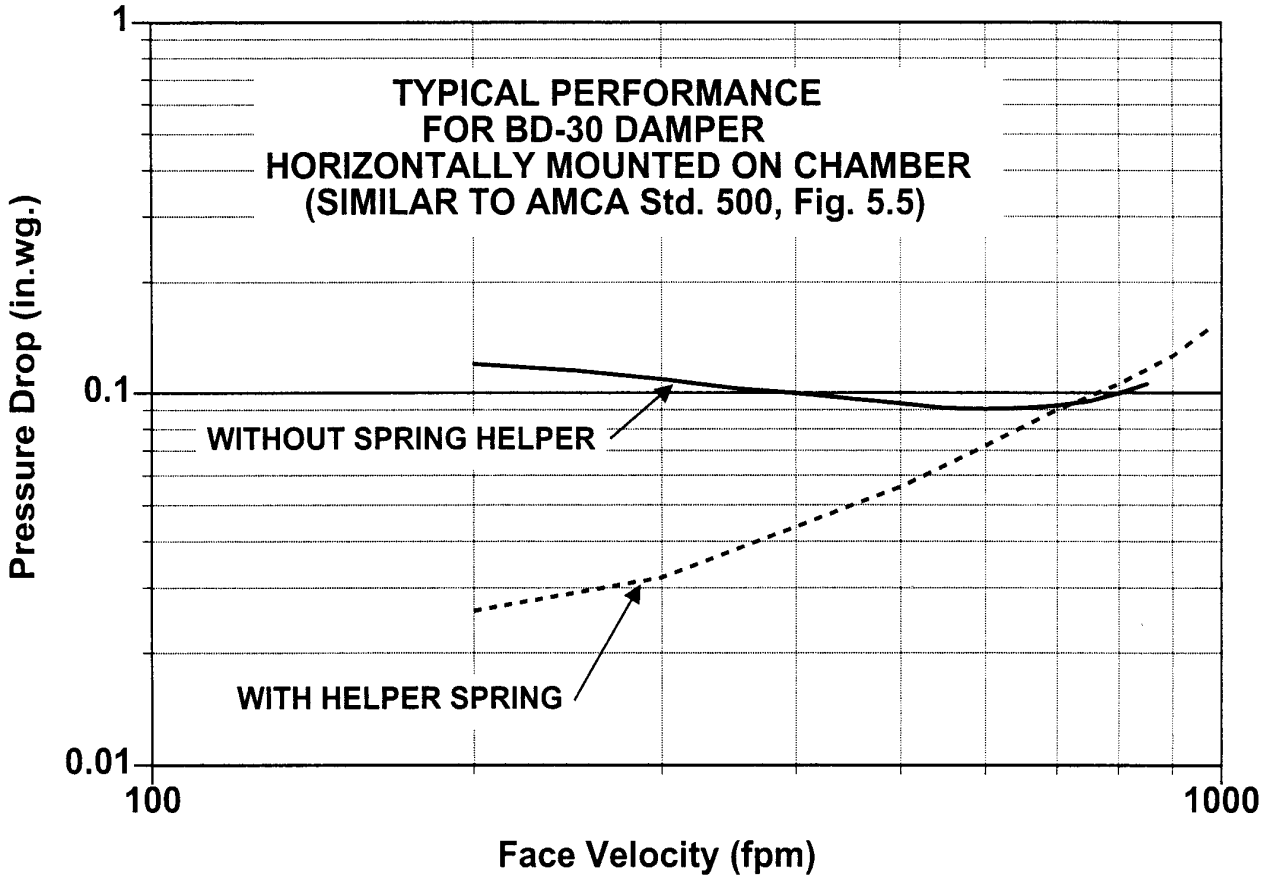
awv® american warming and ventilating
A MESTEK COMPANY
7301 INTERNATIONAL DRIVE HOLLAND, OHIO

BD-30, 31 & 32 BACKDRAFT DAMPER

DRN. BY	DWG. NO.	REV.
SJA	BD-30-1	
DATE 12-05-00		

PERFORMANCE DATA FOR MODEL BD-30

PRESSURE DROP CURVE



awv american warming and ventilating
A Mestek Company
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