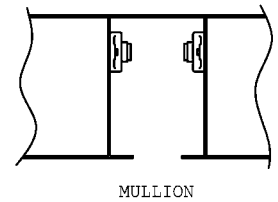
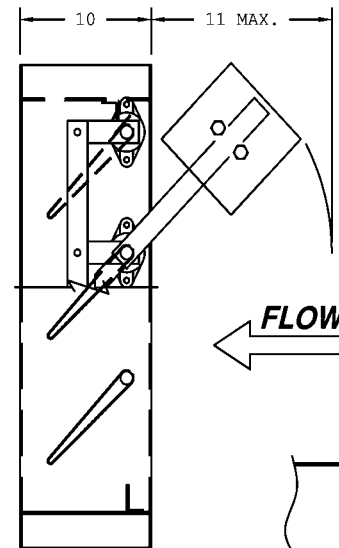
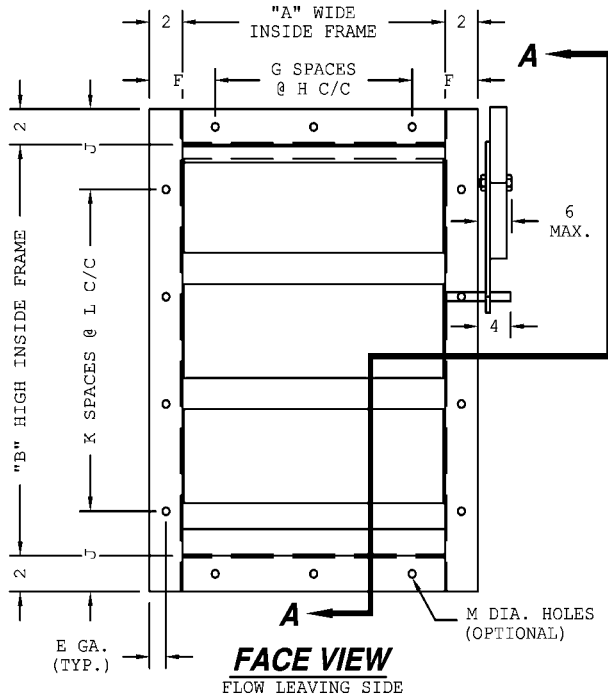


BACKDRAFT DAMPER, END-PIVOTED AIRFOIL BLADES, GALVANIZED STEEL CONSTRUCTION, 250° F. MAX. TEMP.



| AWV ITEM NO. | QUANTITY | "A" WIDE INSIDE FRAME | "B" HIGH INSIDE FRAME | OPPOSITE HAND CWT. POS. | AIR FLOW DIRECTION HORIZ. UP OR DOWN | OPTIONAL MOUNTING HOLE DIMENSIONS | | OPTIONS | | | | | | | | | | COMMENTS | | | | |
|--------------|----------|-----------------------|-----------------------|-------------------------|--------------------------------------|---|--|-----------------------|-----------------------|---------------|-----------------------|------------------------|----------------------|--------------------------|---------------|-------------------------------------|------------------------|------------------|-----------------------|-------------------------|--|--|
| | | | | | | 1 FLANGE AIR ENTERING SIDE <input type="checkbox"/> | 1 FLANGE AIR LEAVING SIDE <input type="checkbox"/> | BEARINGS | | SEALS | | OTHER OPTIONS | | | | | | | | | | |
| E | F | G | H | J | K | L | M | 304 OR 316 S.S. AXLES | 304 OR 316 S.S. LINKS | S.S. LINK #16 | TEFLON SLEEVE (200°F) | O.I. B. SLEEVE (250°F) | NYLON SLEEVE (300°F) | S.S. BALL/SLEEVE (200°F) | RACES (300°F) | DUAL PURDOMETER VINYL BLADE (300°F) | SILICONE BLADE (150°F) | EPT JAMB (300°F) | SILICONE JAMB (150°F) | 304 OR 316 S.S. CONSTR. | (SEE NOTE #5) SPECIAL FLANGE WIDTH (4" MAX.) ALUMINUM CONSTRUCTION (FRAME & BLADES ONLY) | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |

STANDARD SPECIFICATIONS

FRAME: 10" x 2" x 10 GAUGE GALVANIZED STEEL CHANNEL THRU 60" W OR H.
 10" x 2-1/2" x 7 GAUGE GALVANIZED STEEL CHANNEL THRU 80" W OR H.
 10" x 2-1/2" x 1/4" THK. GALVANIZED STEEL CHANNEL THRU 96" W OR H.

MULLION: 10" x 3" x 1-1/2" x 10 GAUGE GALVANIZED STEEL CHANNEL.

BLADES: 16 GAUGE GALVANIZED STEEL THRU 32" LENGTH.
 14 GAUGE GALVANIZED STEEL THRU 48" LENGTH.
 7-15/16" MAX. WIDTH.

AXLES: 3/4" DIAMETER PLATED STEEL, FULL LENGTH.

BEARINGS: RELUBRICABLE BALL.

LINKAGE: HEAVY DUTY CARBON STEEL ARMS & BAR WITH SHOULDER BOLTS, WASHERS, AND LOCKNUTS LOCATED OUTSIDE AIRSTREAM.

STOPS: GALVANIZED STEEL ANGLE AT HEAD AND SILL.

FINISH: MILL WITH TOUCH-UP ON WELDS AND ONE PRIME COAT ON BLACK STEEL.

ACTUATOR: COUNTERBALANCED FOR EASY OPERATION.

NOTES

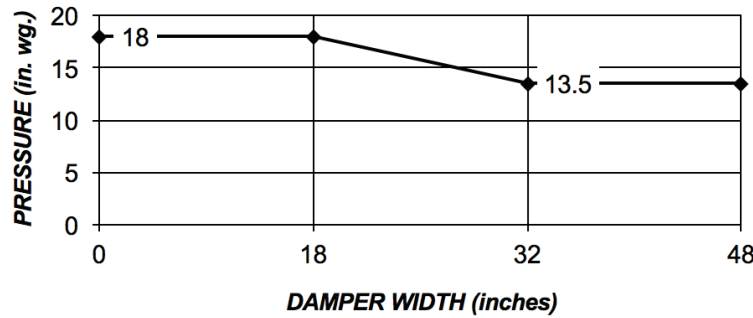
1. ANY VARIATIONS TO THE STANDARD SPECIFICATIONS MUST BE FACTORY APPROVED IN ADVANCE.
2. MINIMUM PANEL SIZE: 6" WIDE x 6" HIGH.
MAXIMUM PANEL SIZE: 48" WIDE x 96" HIGH.
3. DIMENSIONS: "A" AND "B" DIMENSIONS ARE INSIDE DAMPER FRAME. DAMPERS WILL BE FABRICATED TO EXACT SIZE.
4. MAX. DIFF. PRESS.: 13-1/2" W.G.
MAX. VELOCITY: 6400 FPM
5. ONLY PARTS IN THE AIRSTREAM WILL BE STAINLESS STEEL WHEN STAINLESS STEEL CONSTRUCTION IS SPECIFIED.
6. SEE PAGE 37 OF DAMPER BROCHURE FOR PERFORMANCE DATA.

| | | | | |
|---|----------|----------|------|------|
| REVISION | DATE | DRN | CK | APPD |
| DATE : | | | | |
| AWV PROD. No. : | | | | |
| PROJECT : | | | | |
| CUSTOMER / ORDER No. : | | | | |
| ARCH. / ENGR. : | | | | |
| AGENT / ORDER No. : | | | | |
| american warming and ventilating A MESTEK COMPANY 7301 INTERNATIONAL DRIVE HOLLAND, OHIO | | | | |
| BD-53 BACKDRAFT DAMPER | | | | |
| CKD. BY | APPD. BY | Q.A. | | |
| DRN. BY | BET | DWG. NO. | REV. | |
| DATE | 4-29-02 | BD-53-1 | | |

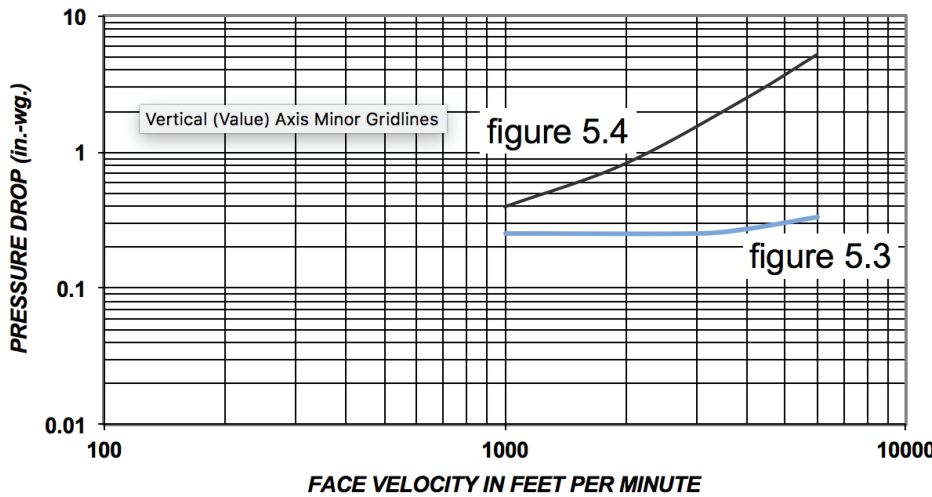
AUTOCAD CATED53

PRESSURE LIMITATIONS:

The pressure limitations shown below are based on the design limits of the axles or blade deflection. Another model should be selected if pressure exceeds the values shown.

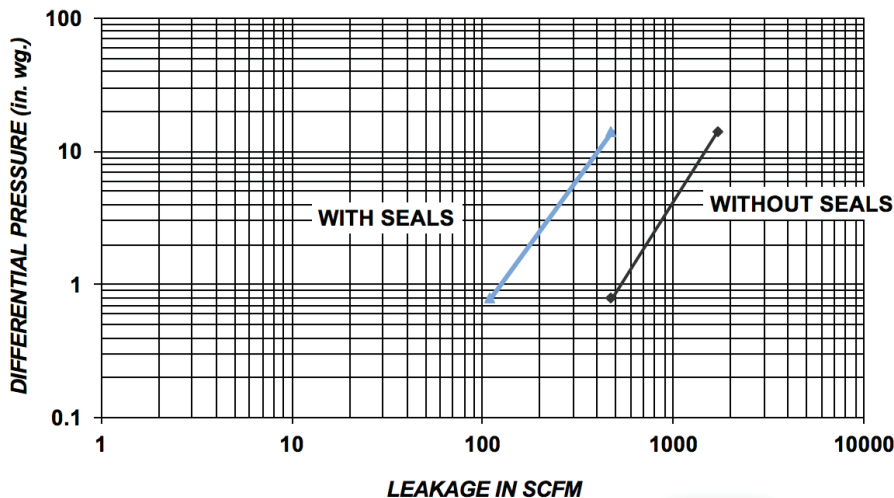


PRESSURE DROP: TYPICAL PERFORMANCE CURVE



TESTED PER AMCA
STANDARD 500
FIGURE 5.3 (IN-DUCT MOUNT)
FIGURE 5.4 (PLENUM MOUNT)
SIZE TESTED - 42" x 42"

LEAKAGE: TYPICAL LEAKAGE CURVES FOR BD-53



TESTED PER AMCA
STANDARD 500;
FIGURE 5.4 (PLENUM MOUNT)
SIZE TESTED - 42" x 42"

Note: The leakage curves shown are for reference only. Where specific leakage rates are critical to the application of the product, or certified leakage rates are required, consult our representative or factory customer service department prior to selection.