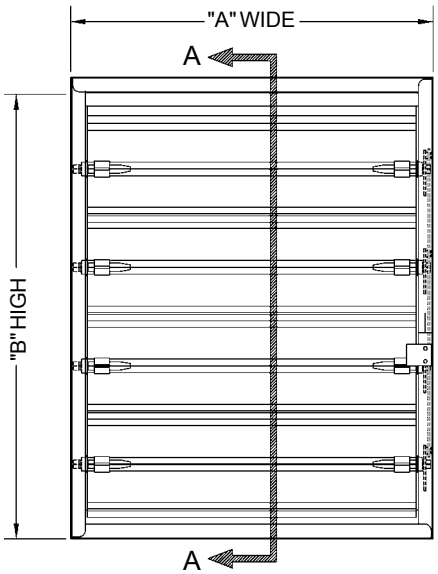
abi air balance **SUBMITTAL DATA**

VOLUME CONTROL DAMPER

Single Thickness Blades
Galvanized Steel Construction, 200º Max. Temp.

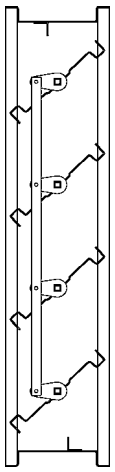
SD-AC1/2-04.11

AC-1 & 2

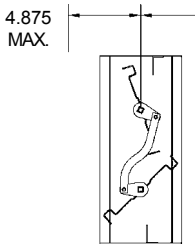


FACE VIEW

MODEL AC-1 (PARALLEL BLADES)
MODEL AC-2 (OPOSED BLADES)



SECTION A-A
STANDARD



FLAT 16 GA. HEAD AND SILL ON ALL DAMPERS UNDER 14" IN HEIGHT.

ABI Item No.	Quantity	MODEL TYPE AC-1 OR AC-2	"A" WIDE OPENING	"B" HIGH OPENING	OPTIONS: BEARINGS: VERTICAL BLADES	BEARINGS: O.I.B. SLEEVE (300°F)	BEARINGS: S.S. SLEEVE (350°F)	ACTUATORS: MANUAL	ACTUATORS: ELECTRIC	ACTUATORS: PNEUMATIC	ACTUATORS: INTERNALLY MOUNTED	ACTUATORS: EXTERNALLY MOUNTED	SEALS: VINYL BLADE (150°F)	SEALS: SANTOPRENE (250°F)	SEALS: SILICONE BLADE (350°F)	SEALS: S.S. JAMB (350°F)	JACKSHAFTING	ON BLADE DRIVE BRACKET FOR INTERNAL OPERATION	"KNOCK-DOWN" ASSEMBLY	Comments

STANDARD SPECIFICATIONS

FRAME:	5-1/2" x 7/8" x 16-GA GALVANIZED STEEL HAT CHANNEL. FLAT 16-GA GALVANIZED HEAD AND SILL FOR MAXIMUM FREE AREA ON DAMPERS UNDER 14" HIGH.
BLADES:	16-GA GALVANIZED STEEL, 6" NOMINAL WIDTH.
AXLES:	PLATED STEEL STUB
BEARINGS:	HEAVY DUTY MOLDED NYLON (200ºF)
LINKAGE:	PLATED STEEL ANGLE AND CRANK PLATES WITH STAINLESS STEEL PIVOTS, IN-JAMB TYPE.
STOPS:	18-GA GALVANIZED STEEL ANGLES AT HEAD AND SILL.
FINISH:	MILL
ACTUATOR:	A 1/2" DIA. REMOVABLE EXTENDED SHAFT FOR SINGLE AND DOUBLE WIDE UNITS. ON THREE OR MORE PANEL WIDE UNITS WITHOUT JACKSHAFTING, BLADE BRACKETS WILL BE THE STANDARD FOR INTERNAL ACTUATOR INSTALLATION.

NOTES

1. ANY VARIATION TO THE STANDARD SPECIFICATIONS MUST BE FACTORY APPROVED IN ADVANCE.
2. MAXIMUM PANEL SIZE: 48"W x 72"H
   MINIMUM PANEL SIZE: 6"W x 6"H (SINGLE BLADE, AC-1)
   6"W x 11"H (TWO BLADES, AC-2)
3. "A" (WIDTH) AND "B" (HEIGHT) DIMENSIONS ARE OPENING SIZES. DAMPERS WILL BE FABRICATED 1/4" UNDERSIZE.
4. MAXIMUM FACE VELOCITY: 2000FPM (10m/s)
   MAXIMUM DIFFERENTIAL PRESSURE: 4" WG (1000 Pa)

PROJECT: _____
LOCATION: _____
ARCHITECT: _____
ENGINEER: _____
CONTRACTOR: _____
PO NUMBER: _____
DATE: _____

abi air balance
AMCA MEMBER
A Mestek Company

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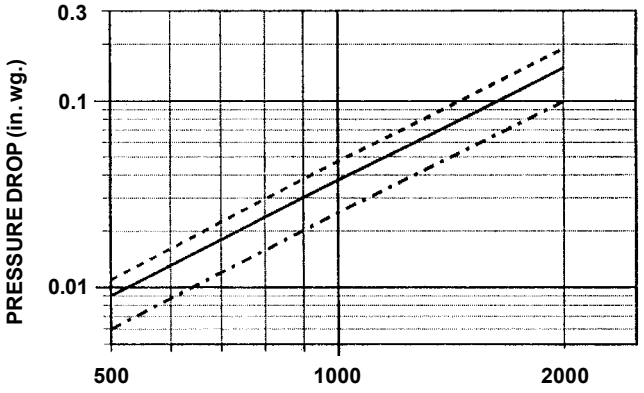
GENERAL NOTES

1. Multiple-panel units are shipped with the panels factory-assembled, to a maximum of 48 ft^2. When jackshafting is designated, it will be installed. When it is desired to have the individual damper panels shipped loose, this must be clearly noted.
2. Dampers with multiple panels in both width and height require structural support (by others). It is recommended that large openings be divided with structural members such that dampers will span either the width or height of each opening between the structural members with a single panel.
3. The AC-1/-2 has been designed to operate in a clean, dry environment. For proper operation, dampers must be installed square, plumb, and without racking.

PERFORMANCE DATA

PRESSURE DROP



TYPICAL PERFORMANCE CURVE
TESTED PER AMCA STANDARD 500-D; FIGURE 5.3:
(IN-DUCT MOUNT)
SMALLER SIZES WILL HAVE HIGHER PRESSURE DROPS

- - - - - 24" x 24"
——— 36" x 36"
- · - · - 48" x 48"

LEAKAGE

Leakage for the AC-1/-2 with optional seals (vinyl on blade edges and stainless steel on jamb) shall not exceed 4.0 CFM per sq. ft. at 1 in. wg. differential pressure and a temperature of 70 deg. F. with a minimum of .85" pounds of torque applied to the damper shaft. Data based on a 48" square sample tested in accordance with AMCA standard 500, figure 5.4 or 5.5.

PRESSURE (IN. W.G.)	CONVERSION FACTOR
2	1.41
3	1.73
4	2.00

Values shown in the note above are derived from tests performed in accordance with AMCA Standard 500 and are stated in SCFM @ 1 in. wg. For leakage values at greater pressures, use the conversion factors in the table at left.