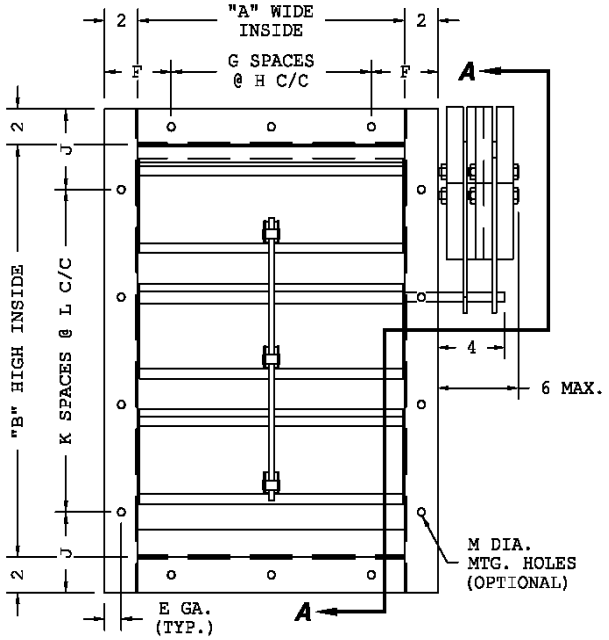
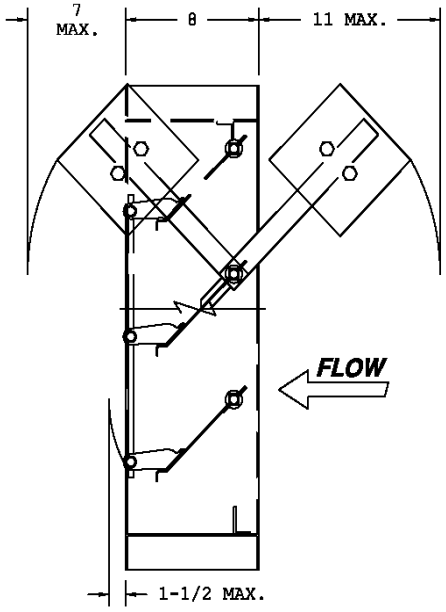
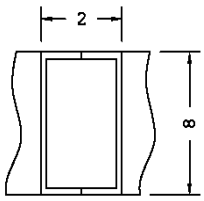
PRESSURE RELIEF DAMPER, SINGLE THICKNESS BLADES, GALVANIZED STEEL CONSTRUCTION, 250° F. MAX. TEMP.



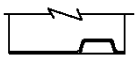
FACE VIEW
FLOW LEAVING SIDE



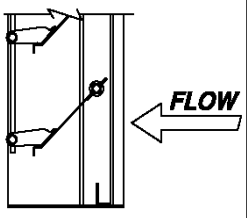
SECTION A-A



MULLION DETAIL
(MAX. 2 PANEL)



PARTIAL TOP VIEW



PARTIAL END VIEW
OF SLEEVE FRAME
(THRU 75" W OR H)

OPTIONAL MOUNTING HOLE DIMENSIONS

1 FLANGE AIR ENTERING SIDE ☐
1 FLANGE AIR LEAVING SIDE ☐
BOTH FLANGES ☐

OPTIONS

BEARINGS / SEALS

AWV ITEM No.	QUANTITY	"A" WIDE INSIDE FRAME	"B" HIGH INSIDE FRAME	OPPOSITE HAND CWT. POS.	AIR FLOW DIRECTION HORIZ. UP OR DOWN	SET TO OPEN PRESS. (IN.W.G.)	E	F	G	H	J	K	L	M	304 OR 316 S.S. AXLES	304 OR 316 S.S. LINKAGE	S.S. SLEEVE (300°F)	TEFLON SLEEVE (250°F)	O.I.B. SLEEVE (300°F)	NYLON SLEEVE (200°F)	S.S. BALL/CAD PLATED RACES (300°F)	DUAL DUROMETER VINYL BLADE (150°F)	SILICONE BLADE (300°F)	EPT. JAMB (150°F)	SILICONE JAMB (300°F)	304 OR 316 S.S. CONSTR. (SEE NOTE #5)	ALUMINUM CONSTRUCTION (FRAME & BLADES ONLY)	SPECIAL FLANGE WIDTH (4" MAX.)

PR-11 STANDARD SPECIFICATIONS

CHANNEL 8" x 2" x 14 GAUGE GALVANIZED STEEL CHANNEL THRU 72" W OR H.
FRAMES: 8" x 2" x 12 GAUGE GALVANIZED STEEL CHANNEL THRU 96" W OR H.
SLEEVE: 8" DEEP x 14 GAUGE GALVANIZED STEEL THRU 72" W OR H.
8" DEEP x 12 GAUGE GALVANIZED STEEL THRU 96" W OR H.
MULLION: 8" X 1" X 14 GAUGE GALVANIZED STEEL CHANNEL.
BLADES: 16 GAUGE GALVANIZED STEEL THRU 33" LONG.
12 GAUGE GALVANIZED STEEL THRU 48" LONG. 7-1/2" MAXIMUM BLADE WIDTH.
AXLES: 1/2" DIAMETER PLATED STEEL STUB THRU 28" W.
1/2" DIAMETER PLATED STEEL FULL LENGTH THRU 33" W.
3/4" DIAMETER PLATED STEEL STUB THRU 40" W.
3/4" DIAMETER PLATED STEEL FULL LENGTH THRU 48" W.
ALL AXLES WITH WEIGHTS ARE FULL LENGTH.
BEARINGS: PRESS FIT BALL BEARINGS.
LINKAGE: PLATED STEEL BRACKETS, BRASS BARRELS, AND 5/16" DIAMETER PLATED STEEL ROD.
DOUBLE LINKAGE ON PANELS OVER 36" WIDE.
STOPS: 16 GAUGE GALVANIZED STEEL ANGLE.
FINISH: MILL WITH TOUCH-UP ON WELDS.
ACTUATOR: COUNTER BALANCE AND PRESSURE SET WEIGHTS TO START TO OPEN AT A PRE-SET PRESSURE. AVAILABLE SETTINGS ARE .25 IN. W.G. THROUGH 2 IN W.G.

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 OR SLEEVE. "A" AND "B" DIMENSIONS MUST INCLUDE THE CLEARANCE REQUIRED BY THE CUSTOMER ON SLEEVE FRAME DAMPERS.
4. MAX. DIFFER PRESS.: 5"W.G./1250 Pa. MAX. VELOCITY: 3900 FPM/20m/s.
5. ONLY PARTS IN THE AIRSTREAM WILL BE STAINLESS STEEL WHEN STAINLESS STEEL CONSTRUCTION IS SPECIFIED.
6. THE START OPEN SENSITIVITY OF THE DAMPER IS REDUCED SUBSTANTIALLY AND PERFORMANCE ALTERED IF SLEEVE BEARINGS ARE USED.

REVISION	DATE	DRN / CK	APPD	QA

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

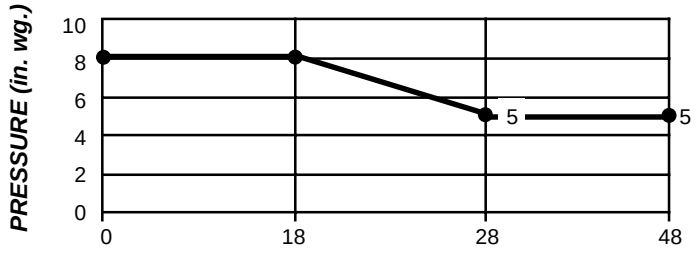
awv american warming and ventilating
A MESTEK COMPANY
7301 INTERNATIONAL DRIVE HOLLAND, OHIO

PR-11 PRESSURE RELIEF DAMPER

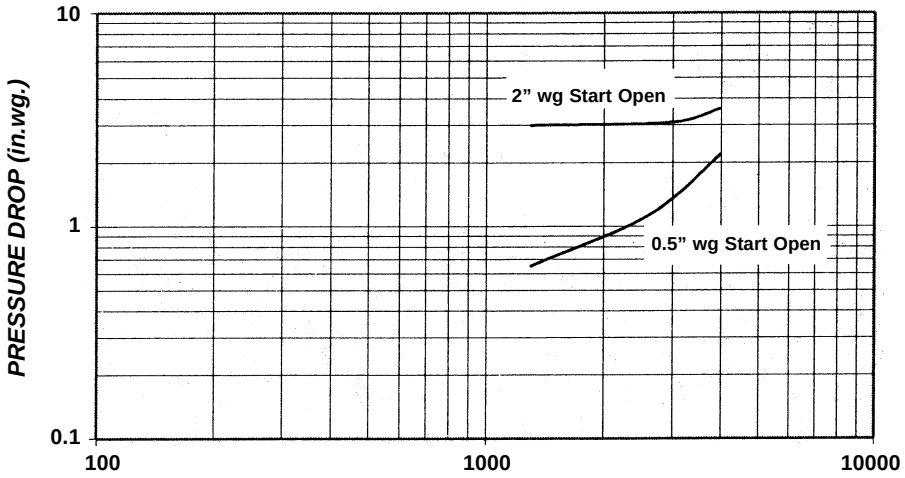
CKD.BY	APPD.BY	Q.A.
DRN.BY BET	DWG. NO.	REV.
DATE 11-13-02	PR-11-1	

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.



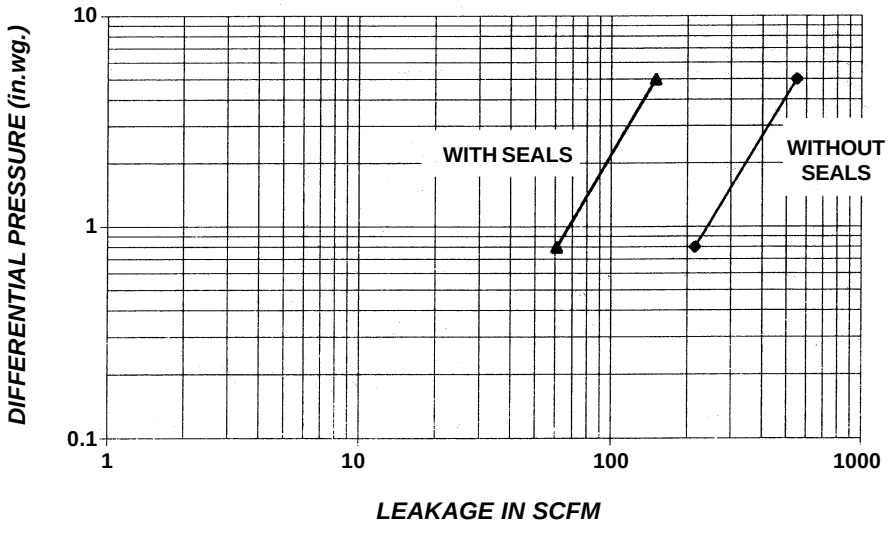
PRESSURE DROP: TYPICAL PERFORMANCE CURVE



TESTED PER AMCA STANDARD 500 FIGURE 5.4 (PLENUM MOUNT) SIZE TESTED - 24" x 24"

Note: The pressure drop curves shown are for reference only. Where specific pressure drops are critical to the application of the product, actual testing will be required.

LEAKAGE: TYPICAL LEAKAGE CURVES FOR PR-11



TESTED PER AMCA STANDARD 500 FIGURE 5.4 (PLENUM MOUNT) SIZE TESTED - 24" x 24"

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 of factory customer service department prior to selection.