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## SPECIFICATION DATA SHEET

Date: 03/05/19 rev.

Drawn by: M.D.C.

## MODEL No. 3210-D

CONICAL TAKEOFF WITH GASKET RING  
AND MANUAL VOLUME DAMPER

### DIMENSIONAL DATA

SIZES AVAILABLE: 4" THROUGH 20" DIAMETER

ORDER BY BRANCH DUCT DIMENSION.  
HOLE DIMENSION CUT IN TRUNK DUCT IS  
2" GREATER THAN BRANCH DUCT.

5 3/8" LONG COLLAR.

### FABRICATION DATA

MATERIAL:  
HOT DIPPED GALVANIZED STEEL SHEET  
PER ASTM-A653 CS TYPE B.

SIZE	BODY	DAMPER BLADE
4" - 8"	28 GA.	24 GA.
9" - 14"	26 GA.	24 GA.
16" - 20"	24 GA.	22 GA.

### FEATURES

FABRICATED WITH CONTINUOUS WELD  
LONGITUDINAL SEAM, NO AIR LEAKAGE  
@ 2" W.G. STATIC PRESSURE.

FABRICATED WITH 1" WIDE GASKETED FLANGE  
WITH PRE-DRILLED SCREW HOLES FOR EASE  
OF INSTALLATION.

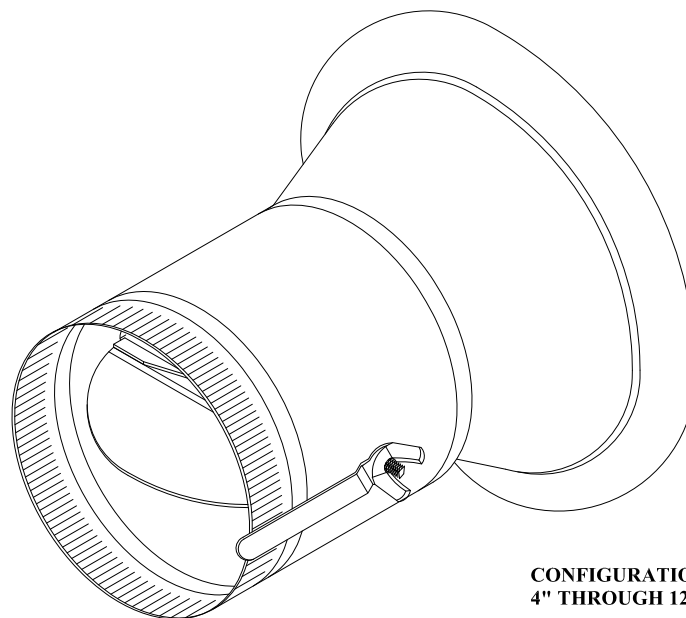
### AIR FLOW CHARACTERISTICS

BASED ON 900 F/M VELOCITY IN MAIN DUCT;  
700 F/M VELOCITY IN BRANCH DUCT.  
DESIGN FRICTION LOSS OF .15" W.G. PER 100 FT.  
OF DUCT. PRESSURE LOSS IN EQUIVALENT FEET  
OF BRANCH DUCT = 3 FT.

### OPTIONS

No. 3210: CONICAL TAKEOFF

No. 3210-DS: CONICAL TAKEOFF WITH MANUAL  
VOLUME DAMPER AND 2" DAMPER  
HANDLE STANDOFF.



CONFIGURATION OF  
4" THROUGH 12" DIAMETERS

### SPECIAL NOTES

RECOMMENDED INSTALLATION: DAMPER AXIS PARALLEL TO AIR FLOW.

SIZES 4" THROUGH 12": REINFORCED DAMPER AXIS WITH 1/4" REGULATOR, END BEARING WITH WASHER AND WING NUT.

SIZES 14" THROUGH 20": 3/8" CONTINUOUS ROD DAMPER AXIS WITH LOCKING REGULATOR, NYLON GROMMETS INSTALLED AT THE COLLAR PENETRATIONS.

MADE TO MEET S.M.A.C.N.A. GAUGE STANDARDS. MAXIMUM 10" W.G. STATIC PRESSURE SCHEDULE.  
(S.M.A.C.N.A. HVAC DUCT CONSTRUCTION STANDARDS, THIRD EDITION - 2005)