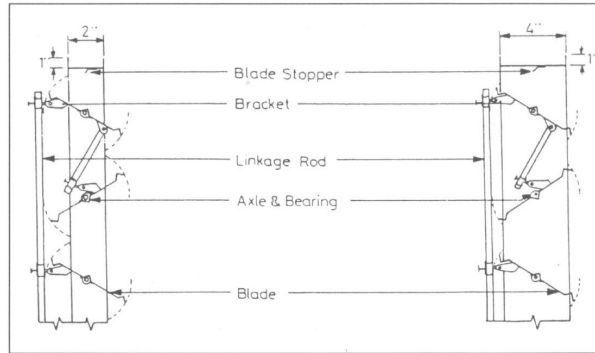


Volume Control Dampers



ROUND VOLUME CONTROL DAMPER – VDR

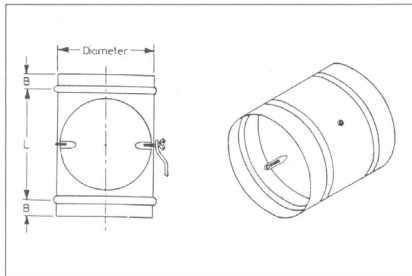
- The frame and blade in Round Volume control Damper are made of 16 gauge galvanized steel and unit is fixed with hand quadrant for manual operation. The regulator contains lower and upper parts of a rapid regulator set. The finishing is mill galvanized.



b) High pressure damper - H

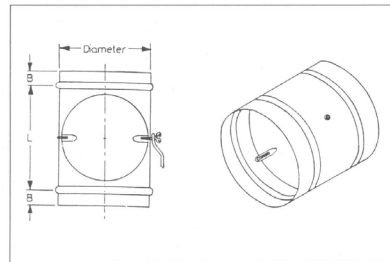
Available with:

a) Low pressure damper - L



Regulator: Lower and upper parts of a rapid regulator set.

a) Low pressure damper - L



Regulator: Lower and upper parts of a rapid regulator set.

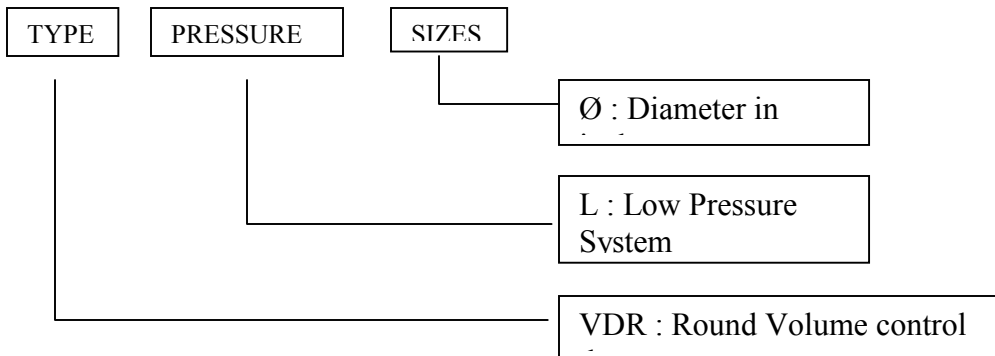
Regulator: Lower and upper parts of a blade rapid regulator set.

Axle: 1/2" square bar U bolted to
Standard sizes:

Diameter range	L	B
0-9-7/8"	Dia. + B	1-6/9"
9-7/8"-23-5/8"	-do-	2"
23-5/8"-35-7/16"	-do-	2-7/8"
35-7/16"-Up	-do-	4"

ROUND VOLUME CONTROL DAMPER – VDR

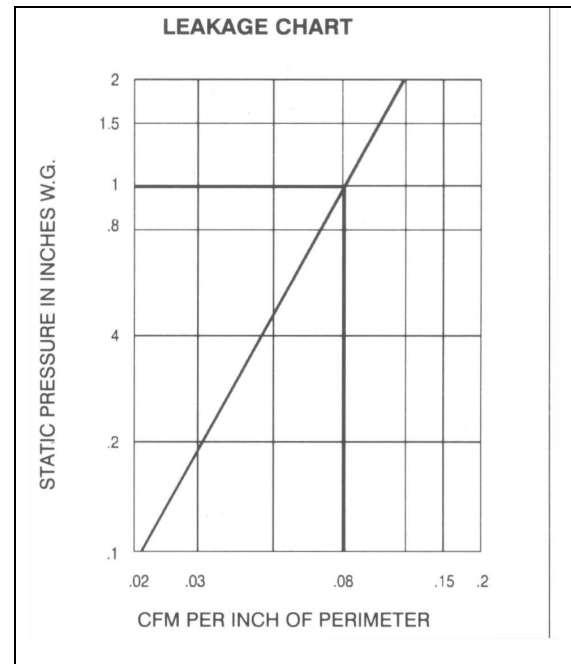
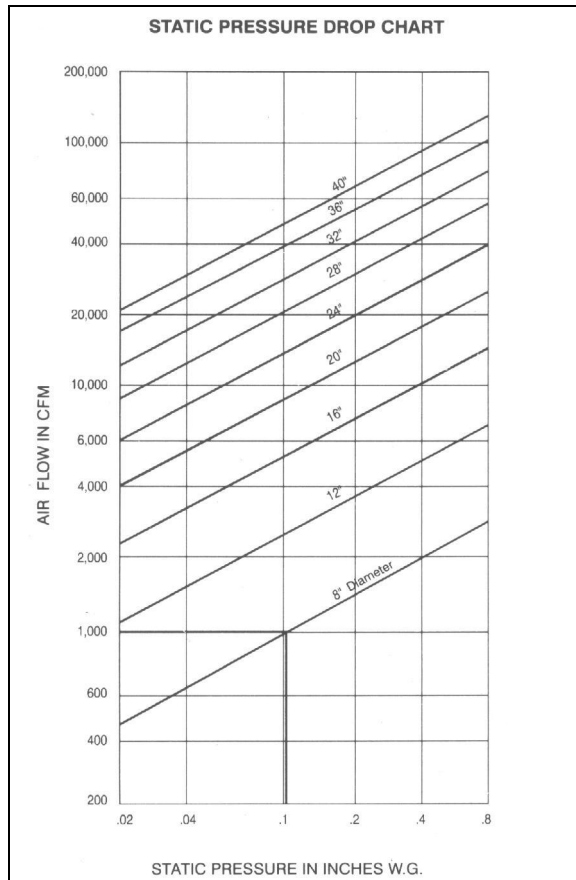
ORDERING SYSTEM



Volume Control Dampers



PERFORMANCE DATA – VDR



Determining Static Pressure Drop

To determine static pressure drop through an open damper, enter the damper pressure drop chart from the left side. Given the CFM of air flow through the damper, follow the CFM line to the diagonal line with the damper size required, then down to the static pressure drop of the unit.

Example:

The pressure drop of an 8" damper with 1000 CFM flow is 0.11 inches w.g.

Determining Leakage

To determine damper leakage, enter damper leakage chart from the right side. Given the static pressure the damper will encounter in closed position, move horizontally to the diagonal line, then go straight down the chart to CFM of leakage per inch of perimeter.

Example:

Damper operating 1" W.G. static pressure will leak 0.08 CFM per inch of perimeter. Total leakage on an 8" round will be $8 \times 3.14 \times 0.08$ CFM per inch perimeter = 2 CFM leakage.

Static pressure and CFM are corrected to 0.075 lb./cu.ft. air density.