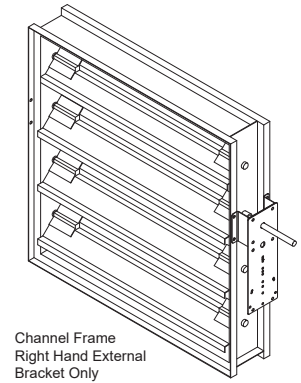
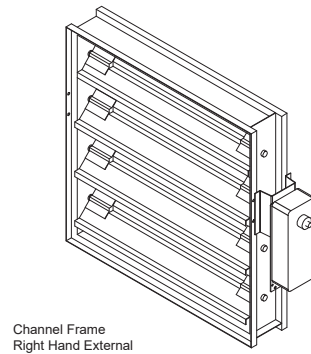
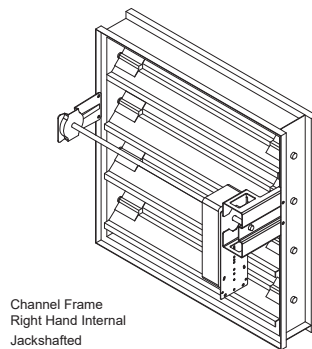
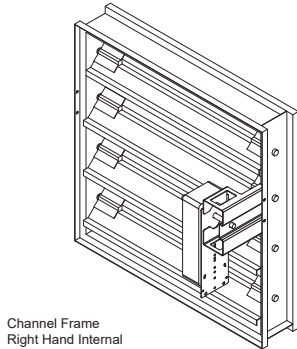


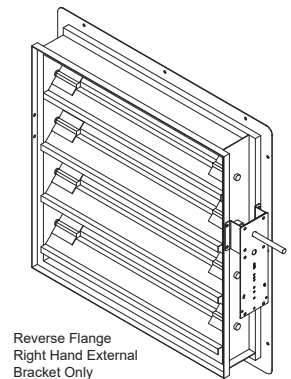
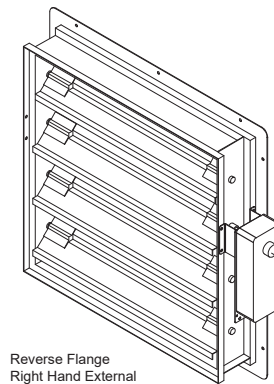
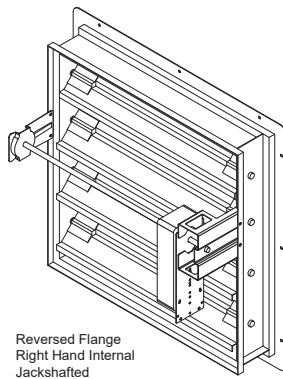
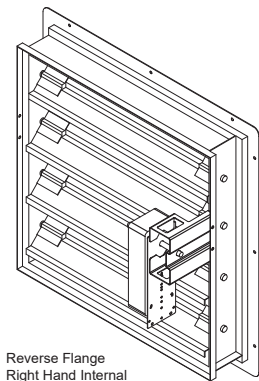
Channel Frame

The channel frame option is designed for in-duct or slip-in installation. Dampers with external actuators can be rotated in the field 180 degrees to change from right hand to left hand drive (not recommended on parallel blade dampers).



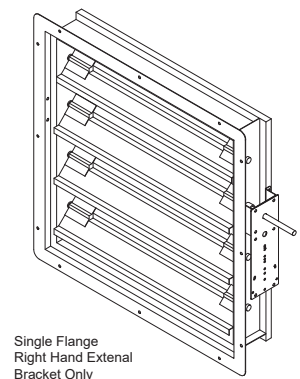
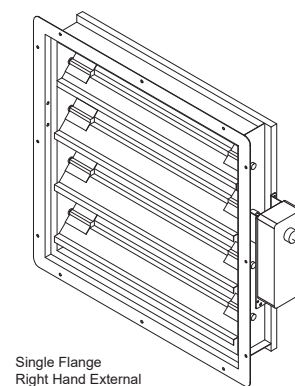
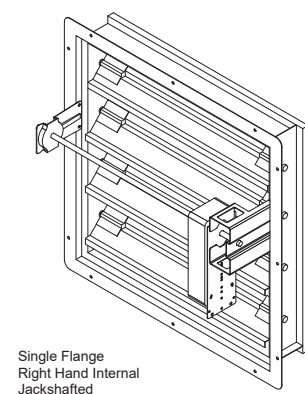
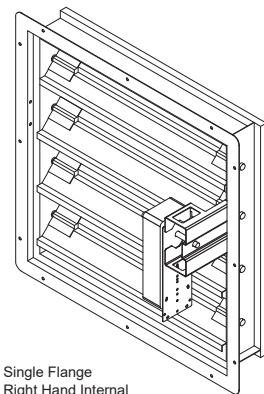
Reversed Flange

The reversed flange frame option is designed for “flange to wall/opening” applications. Dampers with external mount actuators must be installed from the interior (cannot be “insert mounted”) to avoid obstructions. Dampers with external actuators can be rotated in the field 180 degrees to change from right hand to left hand drive (not recommended on parallel blade dampers). The flange will be located on the opposite side of the damper frame as the jackshaft/actuator for internal mount actuators.



Single Flange

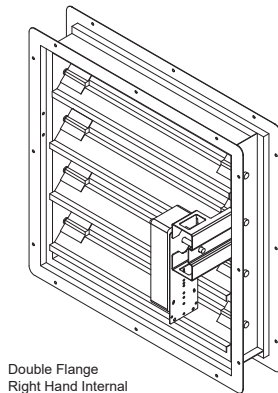
The single flange frame option is designed for “flange to wall/opening” applications. Dampers with external mount actuators must be installed from the interior (cannot be “insert mounted”) to avoid obstructions. Dampers with external actuators can be rotated in the field 180 degrees to change from right hand to left hand drive (not recommended on parallel blade dampers). The flange will be located on the same side of the damper frame as the jackshaft/actuator for internal mount actuators.



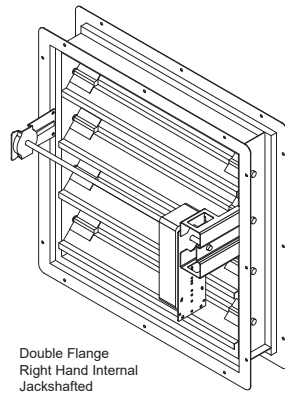
Frame Options

Double Flange

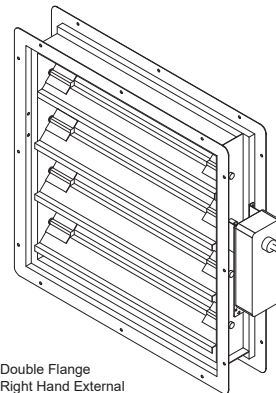
The double flange frame option is designed for “flange to wall/opening” or “flange to duct” applications. Dampers with external actuators can be rotated in the field 180 degrees to change from right hand to left hand drive (not recommended on parallel blade dampers). The flange will be located on the both sides of the damper frame.



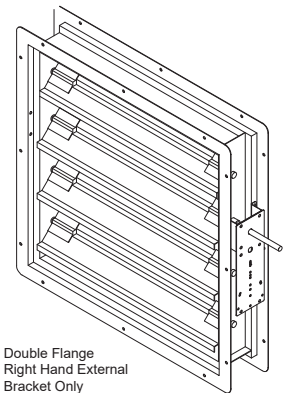
Double Flange
Right Hand Internal



Double Flange
Right Hand Internal
Jackshafted



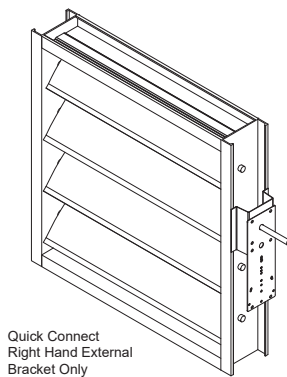
Double Flange
Right Hand External



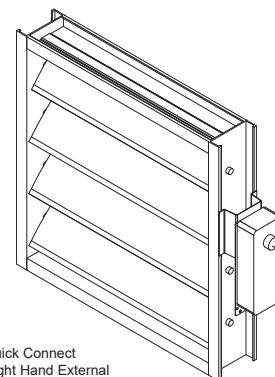
Double Flange
Right Hand External
Bracket Only

Quick Connect Frame

The Quick Connect frame type provides flanges on both sides that are compatible with TDC/TDF flange systems commonly used for a “flanged-to-duct” installation. This frame style is available on ICD-44, 45; VCD-43 and VCD-43V.



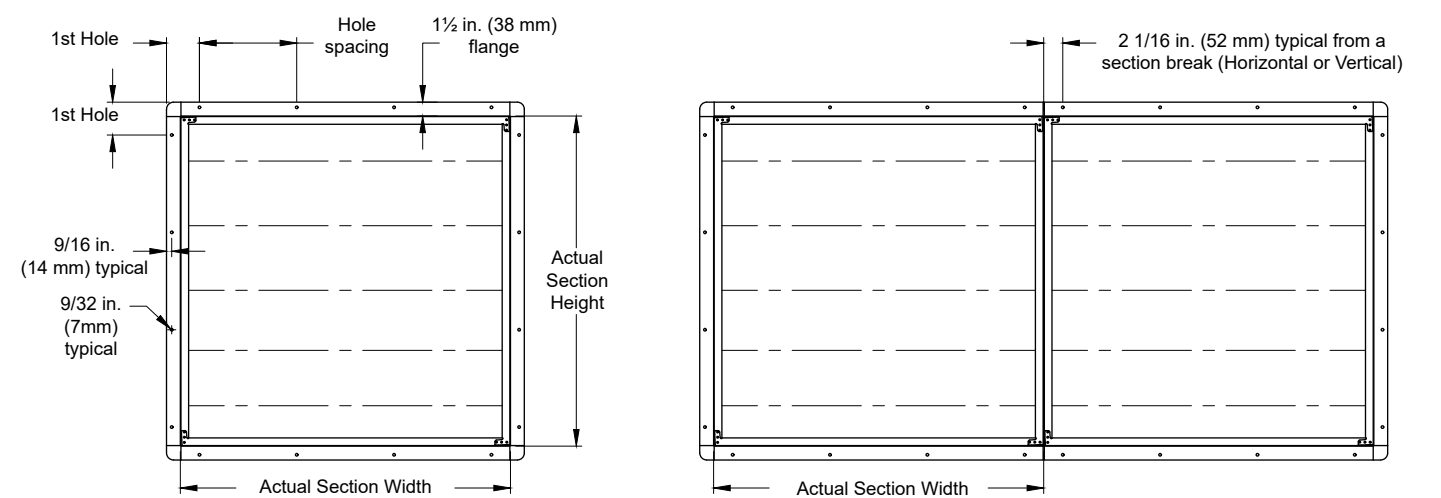
Quick Connect
Right Hand External
Bracket Only



Quick Connect
Right Hand External

Mounting Holes

On dampers with either single, reverse, or double flange frame mounting holes are provided on most control dampers. Consult factory if mounting holes are needed on models ICD-44, ICD-45, VCD-43, and VCD-43V .



The same location are used in the horizontal and vertical directions.

Actual Section Dimension	Flange Hole Quantity
< 7 3/4 in. (197 mm)	1
≥ 7 3/4 in. and < 24 3/4 in. (≥ 197 mm and < 629 mm)	2
≥ 24 3/4 in. and < 40 3/4 in. (≥ 629 mm and < 1035 mm)	3
≥ 40 3/4 in. and 56 3/4 in. (≥ 1035 mm and 1441 mm)	4
≥ 56 3/4 in. (1441 mm)	5

Actual Section Dimension	1st Hole From Edge of Flange
< 7 3/4 in (197 mm)	(Actual section dimension/2) + 1 1/2 in.
≥ 7 3/4 in. (197 mm)	3 9/16 in.

Holes are evenly spaced across section when ≥ 7 3/4 in. (197 mm).