# *MODEL FDD-C-S*
# *DYNAMIC FIRE DAMPERS*
## *DYNAMIC CLOSURE MODEL WITH INTEGRAL SLEEVE — 1 1/2 HOUR*

DESIGNED AND TESTED IN ACCORDANCE WITH UL-555 AND ULC-S112. MEETS ALL NFPA-90A REQUIREMENTS FOR FIRE DAMPERS.

**LISTED AND LABELLED BY:**

CLASSIFIED C UL US

### Standard Construction:

**Frame:** 12” Roll Formed Galvanized Steel.
**Blades:** Roll Formed Galvanized Steel, Curtain-Type
**Springs:** Stainless Steel.
**Fusible Link:** U.L. Listed 165°F.
**1-1/2 Hr. Vertical:**
**Min. Size:** 5”w X 3”h (127mm x 76mm)
**Max. Size:** 35”w X 31”h (889mm x 787mm)
**1-1/2 Hr. Horizontal:**
**Min. Size:** 5”w X 3”h (127mm x 76mm)
**Max. Size:** 17”w X 15”h (432mm x 381mm)

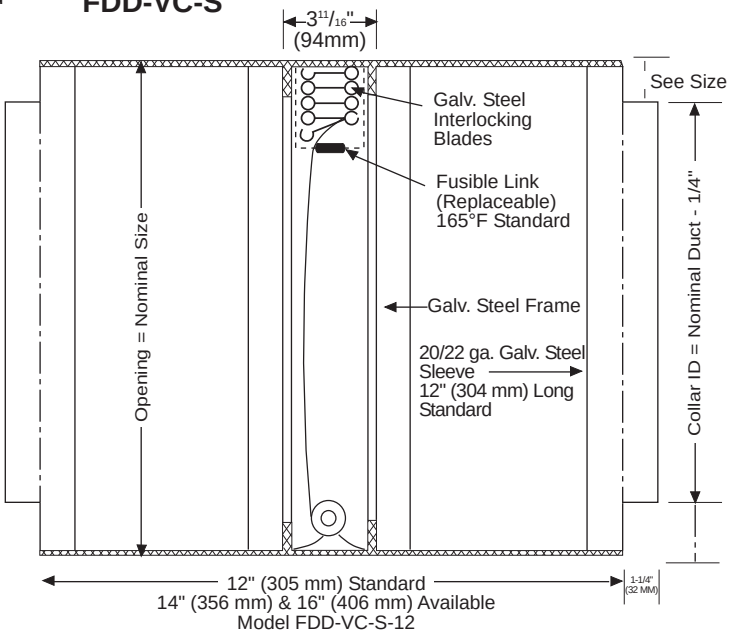
### Optional Construction:

◯ 14” - 16” Sleeve/Frame
◯ Fully Sealed Sleeves

**Notes:** Dampers are furnished approximately 1/4” (6.4mm) smaller than given duct dimensions.

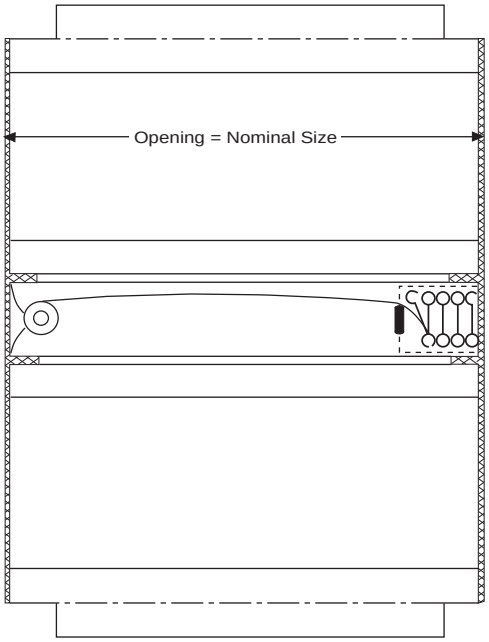
“These Dampers are UL/ULC Approved For Use in Dynamic and Static Systems.”

**FDD-VC-S**




◯ FDD-(V/H)C-S SQ/RECTANGLE OPENING
◯ FDD-R(V/H)C-S ROUND OPENING
◯ FDD-R(V/H)C-LP-S ROUND OPENING - LOW PRESSURE
◯ FDD-(V/H)C-O-S OVAL OPENING
◯ FDD-(V/H)AR-S ROUND OPENING

**FDD-HC-S**




**Manufacturer’s Recommendations**

All moving parts of the damper must be inspected and cycled at intervals not greater than every six months and in accordance with the latest edition of NFPA 90A, 92A, local codes and the actuator manufacturer. In addition, fuse links shall be removed and inspected for corrosion. Dry lubricants are recommended.

FDD-C-S - 02-05

Specifications are correct at time of printing. However, as part of our ‘continuous improvement program,’ we reserve the right to make further improvements without notice.



Project: Contractor:
Location: Address:
Architect: P.O. Number:
Engineer: Date:

**NCA MANUFACTURING, INC. ■ 1036 SOUTH JUPITER ROAD ■ GARLAND, TEXAS 75042 ■ TEL. 972-276-5002 FAX 972-276-6747**

# *MODEL FDD-C-S*
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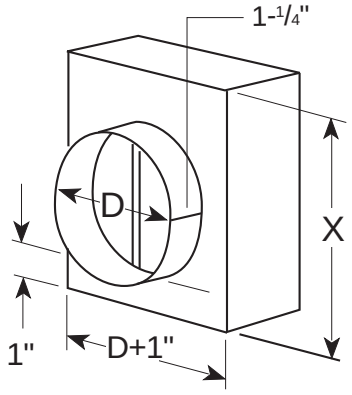
## SIZE CHART

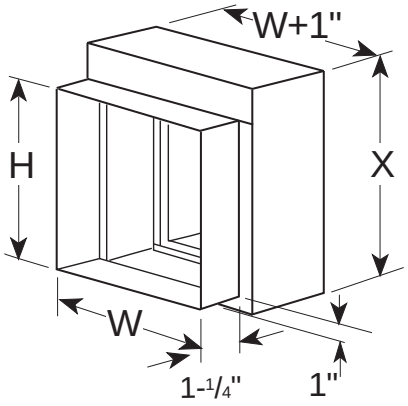
| Duct Height | Type C-R, C-S/R & C-OV Damper Height |
|---|---|
| **Inches** | **Inches** |
| 3 | 6 |
| 4 | 7 |
| 5 | 8 |
| 6 | 9 |
| 7 | 10 |
| 8 | 11 |
| 9 | 12 |
| 10 | 13 |
| 11 | 14 |
| 12 | 15 |
| 13 | 16 |
| 14 | 17 |
| 15 | 18 |
| 16 | 19 |
| 17 | 20 |
| 18 | 21 |
| 19 | 22 |
| 20 | 23 |
| 21 | 25 |
| 22 | 26 |
| 23 | 27 |
| 24 | 28 |
| 25 | 29 |
| 26 | 30 |
| 27 | 31 |
| 28 | 32 |
| 29 | 33 |
| 30 | 34 |
| 31 | 35 |

X = DAMPER HEIGHT

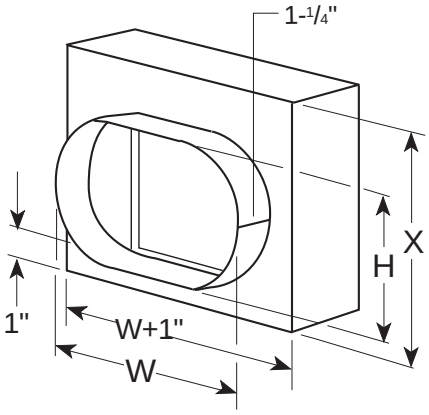
**FDD-R(V/H)C-S**




**FDD-(V/H)C**




**FDD-(V/H)C-O**




W = Width (Duct)
H = Height (Duct
X = Variable (See Size Chart)

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