

# ***RUSKIN***<sup>®</sup>



## *Replacement Parts Catalog*

## Table of Contents

This catalog offers Damper customers an easy to use buying guide for miscellaneous Ruskin Damper parts. The Damper part prices in this catalog do include freight within the contiguous 48 states. Please refer to the table of contents below to determine where to find complete details on products, pricing, and ordering. If the part you need is not found on the following pages, please call Ruskin at 816-761-7476 or your local Ruskin representative for additional information.

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**PLEASE CONTACT RUSKIN OR YOUR LOCAL RUSKIN REPRESENTATIVE FOR DISCOUNT MULTIPLIER INFORMATION.**

**ATTENTION:** A \$35.00 net handling charge will be added to each order totaling less than \$50.00 net.

The performance specifications are nominal and conform to acceptable industry standards. For applications at conditions beyond these specifications, consult the local Ruskin representative. Ruskin Company shall not be liable for damages resulting from misapplication or misuse of its products.

*\*All stated specifications are subject to change without notice or obligation.*

## Miscellaneous Parts

### MODEL – ESS375



3/8" Square x 3-1/2" Long  
Extended Shaft with Spring Clip

### MODEL – ESR050



Extended Shaft  
1/2" Diameter x 6" Long

### MODEL – OBSB050



Outboard Support Bracket  
for Extended Shaft

### MODEL – OBSB050B



Outboard Support Bracket  
with Bearing for Extended Shaft

### MODEL – OBSB0502



2" Deep Outboard Support  
Bracket for Extended Shaft

### MODEL – SC2532



Spring Clip for Extended Shaft

### MODEL – ESK050



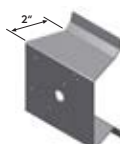
Extended Shaft Kit Includes:  
ESR050, OBSB050, SC2532

### MODEL – ESK050B



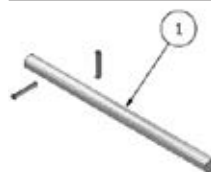
Extended Shaft Kit  
with Bearing Includes:  
ESR050, OBSB050B, SC2532

### MODEL – CDRST0B2

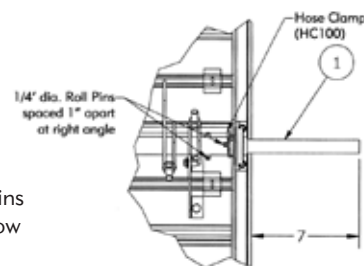


2" Stand Off Bracket  
for Round Dampers

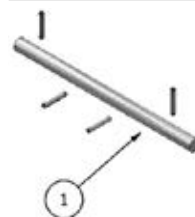
### MODEL – JSA075E



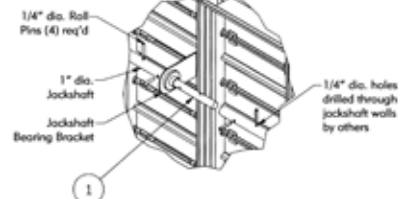
Jackshaft Extension  
3/4" Diameter x 12" Long  
Solid Bar Includes 2 Roll Pins  
Used for 1" Diameter Hollow  
Jackshafts Only  
(Holes drilled in field by others)



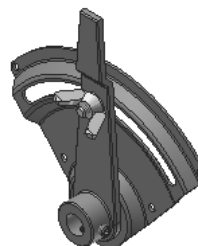
### MODEL – JSA075S



Jackshaft Splice  
3/4" Diameter x 12" Long  
Solid Bar Includes 4 Roll Pins  
(Holes drilled in field by others)



### MODEL – HQR050



Galvanized Steel Hand Quadrant  
for 1/2" Diameter Shaft

### MODEL – HQRSS050

Stainless Steel Hand Quadrant  
for 1/2" Diameter Shaft

### MODEL – HDHQ050

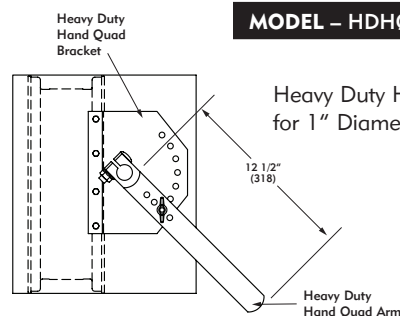
Heavy Duty Hand Quad Arm for 1/2" Diameter Shaft

### MODEL – HDHQ075

Heavy Duty Hand Quad Arm  
for 3/4" Diameter Shaft

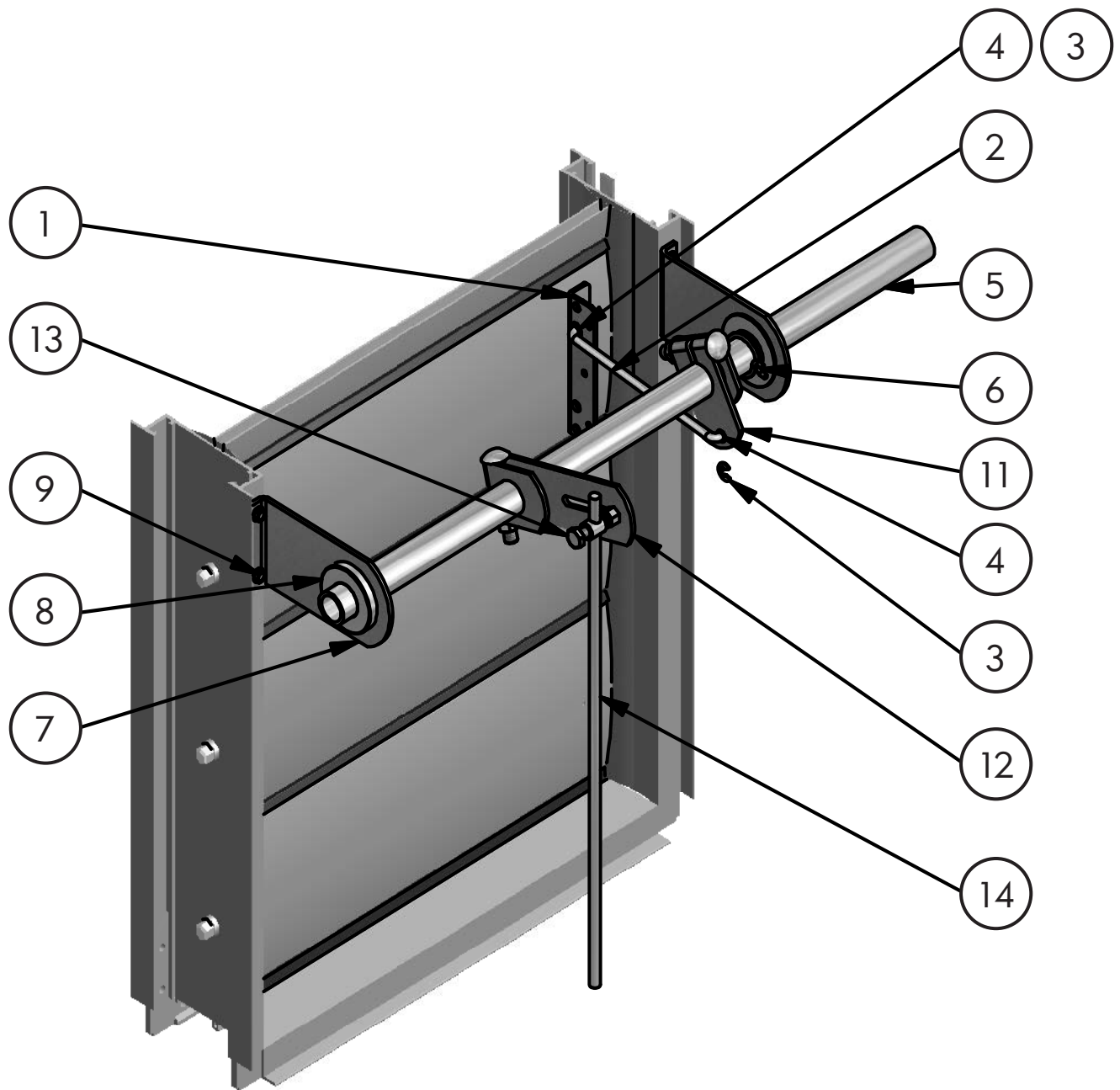
### MODEL – HDHQ100

Heavy Duty Hand Quad Arm  
for 1" Diameter Shaft



\*All stated specifications are subject to change without notice or obligation.

## Jackshaft Assembly



*\*All stated specifications are subject to change without notice or obligation.*

## Jackshaft Parts for Field Installation

| DES | PART #   | DESCRIPTION                                                                                                                                                |
|-----|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1a  | 3VGBB    | Triple V-Groove Blade Bracket (CD35, 36, 44, 45, 46 & 51)                                                                                                  |
| 1b  | AFLBB    | Airfoil Blade Bracket (CD50 & CD60)                                                                                                                        |
| 2a  | TR2393   | Tie Rod                                                                                                                                                    |
| 2b  | TR20013  | * Tie Rod 5.92" Long                                                                                                                                       |
| 3   | E-25     | Roto Clip<br>(Minimum order of 25 when not purchased as a Jackshaft Kit)                                                                                   |
| 4   | NL4L2FF  | Nyliner 4L2-FF<br>(Minimum order of 25 when not purchased as a Jackshaft Kit)                                                                              |
| —   | 3VGBBASY | Triple V-Groove Blade Bracket Assembly: Includes 1a thru 4 above                                                                                           |
| —   | AFLBBASY | Airfoil Blade Bracket Assembly: Includes 1b thru 4 above                                                                                                   |
| 5a  | JS050    | Jackshaft 1/2" Diameter                                                                                                                                    |
| 5b  | JS100    | Jackshaft 1" Diameter                                                                                                                                      |
| 6a  | HC050    | Hose Clamp 1/2" Diameter Jackshaft HC8<br>(Minimum order of 25 when not purchased as a Jackshaft Kit)                                                      |
| 6b  | HC100    | Hose Clamp 1" Diameter Jackshaft HC16<br>(Minimum order of 25 when not purchased as a Jackshaft Kit)                                                       |
| 7a  | JSBB05S  | Jackshaft Bearing Bracket 1/2" Short (2-1/8" to centerline of jackshaft)                                                                                   |
| 7b  | JSBB05T  | Jackshaft Bearing Bracket 1/2" Tall (3-3/4" to centerline of jackshaft)                                                                                    |
| 7c  | JSBB10S  | Jackshaft Bearing Bracket 1" Short (2-1/8" to centerline of jackshaft)                                                                                     |
| 7d  | JSBB10T  | * Jackshaft Bearing Bracket 1" Tall (3-3/4" to centerline of jackshaft)                                                                                    |
| 7e  | JSBB10ET | Jackshaft Bearing Bracket 1" Extra Tall (6" to centerline of jackshaft)                                                                                    |
| 8a  | KB050    | Kendale Bearing 1/2" Diameter                                                                                                                              |
| 8b  | KB100    | Kendale Bearing 1" Diameter                                                                                                                                |
| 9   | 10TEKS   | #10 – 16 x 3/4" Large TEK Screws<br>(Minimum order of 25)                                                                                                  |
| 10  | NFBN5389 | Nylon Flange Bearing N5389 used only on triple v-groove blades without add on blade bracket<br>(Minimum order of 25 when not purchased as a Jackshaft Kit) |
| 11a | 050LCA   | 1/2" Diameter Linkage Control Arm Assembly (Includes #10 above)                                                                                            |
| 11b | 100LCA   | 1" Diameter Linkage Control Arm Assembly (Includes #10 above)                                                                                              |
| 12a | CA050    | Crank Arm Slotted for 1/2" Diameter Jackshaft                                                                                                              |
| 12b | CA075    | Crank Arm for 3/4" Diameter Jackshaft Adaptor                                                                                                              |
| 12c | CA100    | Crank Arm Slotted for 1" Diameter Jackshaft                                                                                                                |
| 13a | BJ312    | Balljoint for 5/16" Diameter Pushrod                                                                                                                       |
| 13b | BJ375    | Balljoint for 3/8" Diameter Pushrod                                                                                                                        |
| 14a | PR312`   | Pushrod 5/16" Diameter                                                                                                                                     |
| 14b | PR375    | Pushrod 3/8" Diameter                                                                                                                                      |

\*These parts are to be used on jackshafts for direct/internally mounted actuators with 1" Diameter jackshafts.

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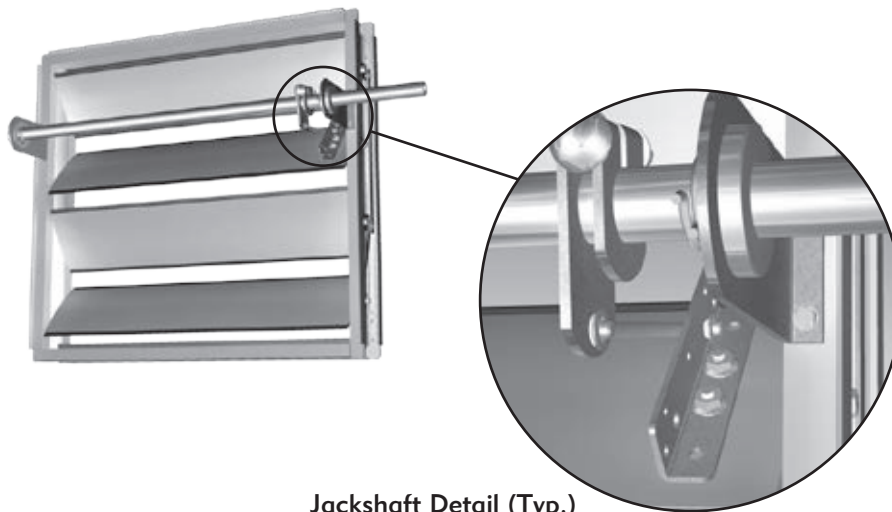
# Miscellaneous Jackshaft Parts

|     |                        |     |                                 |     |                                |     |                             |     |                            |
|-----|------------------------|-----|---------------------------------|-----|--------------------------------|-----|-----------------------------|-----|----------------------------|
| 1a  | 3VGBB                  | 1b  | AFLBB                           | 2a  | TR2393<br>4.97" Long           | 2b  | TR20013<br>5.92" Long       | 3   | E25                        |
| 4   | NL4L2FF                | —   | 3VGBBASY                        | —   | AFLBBASY                       | 5a  | JS050<br>1/2" Diameter      | 5b  | JS100<br>1" Diameter       |
| 6a  | HC050<br>1/2" Diameter | 6b  | HC100<br>1" Diameter            | 7a  | JSBB05S<br>2-1/8               | 7b  | JSBB05T<br>3-3/4            | 7c  | JSBB10S<br>2-1/8           |
| 7d  | JSBB10T<br>3-3/4       | 7e  | JSBB10ET<br>6                   | 8a  | KB050<br>1/2" Diameter         | 8b  | KB100<br>1" Diameter        | 9   | 10TEKS                     |
| 10  | NFBN5389               | 11a | 050LCA                          | 11b | 100LCA                         | 12a | CA050                       | 12b | CA075                      |
| 12c | CA100                  | 13a | BJ312<br>For 5/16" Diameter Rod | 13b | BJ375<br>For 3/8" Diameter Rod | 14a | PR312<br>5/16" Diameter Rod | 14b | PR375<br>3/8" Diameter Rod |

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# Jackshaft Kits

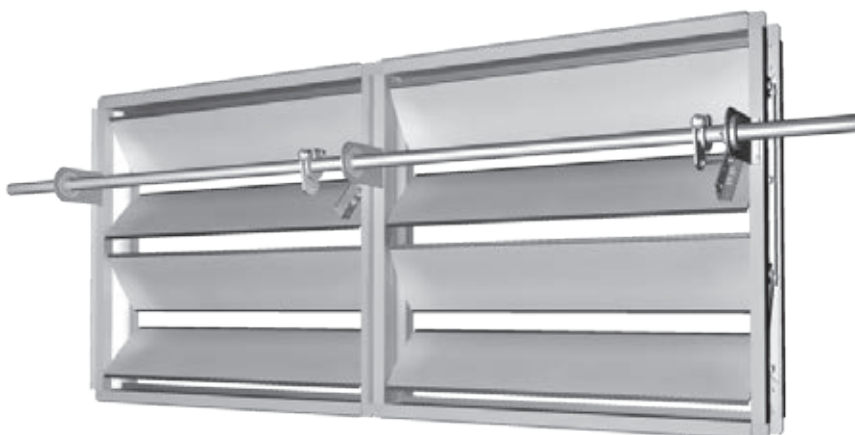
## JS1X1 Jackshaft Kit



JS1X1 3VG 1/2" DIA  
 JS1X1 AFL 1/2" DIA  
 JS1X1 3VG 1" DIA  
 JS1X1 AFL 1" DIA  
 Jackshaft is 66" long

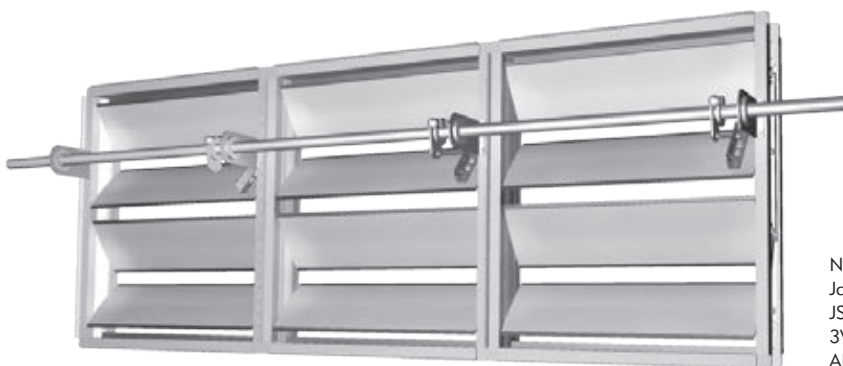
Jackshaft Detail (Typ.)

## JS2X1 Jackshaft Kit



JS2X1 3VG 1/2" DIA  
 JS2X1 AFL 1/2" DIA  
 JS2X1 3VG 1" DIA  
 JS2X1 AFL 1" DIA  
 Jackshaft is 108" long

## JS3X1 Jackshaft Kit



JS3X1 3VG 1" DIA  
 JS3X1 AFL 1" DIA

Note:  
 Jackshaft is 156" long  
 JS3X1 kit not available with 1/2" diameter jackshaft.  
 3VG = Tipple V-Groove Blade Damper (CD36)  
 AFL= Air Foil Blade Damper (CD60)

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# Fuse Link Accessories

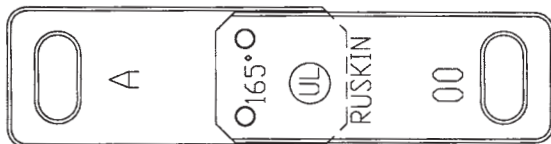
## Fuse Link Accessories for IBD, CFD, FD, and FSD Models

**FUSE LINK** — Specify 165°F, 212°F, or 285°F (74°C, 100°C or 141°C)

### MODEL – FLIA\*\*\*

#### Issue A Link

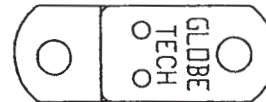
All (D)IBD Curtain Type Fire Dampers  
Excluding IBDT Series



### MODEL – FLIJ\*\*\*

#### J Link

All CFD Ceiling Fire Dampers  
All PFL's (Pneumatic Fuse Links)



### MODEL – FLIB\*\*\*

#### Issue B Link

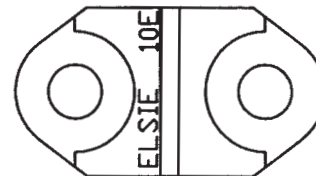
For IBDT Curtain Type Fire Dampers  
For FDR25 Round Fire Dampers  
Also may be used as a replacement  
on CFD Ceiling Fire Dampers



### MODEL – FLIE\*\*\*

#### Issue E Link

FD35 and FD36  
Multiple Blade Fire Dampers

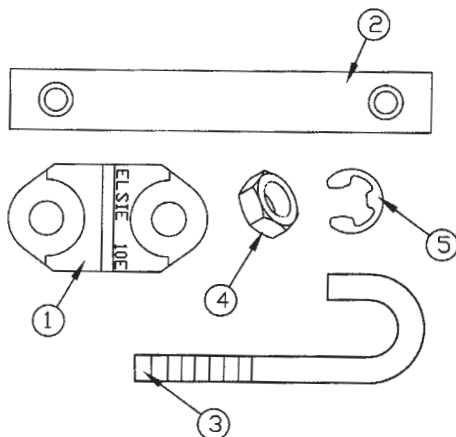


**FUSE LINK** — Specify 165°F, 212°F, or 285°F (74°C, 100°C or 141°C)

### MODEL – FDLA\*\*\*

#### FD Fuse Link Assembly

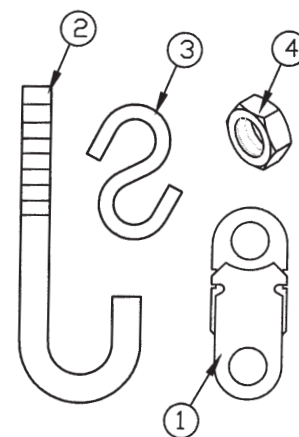
1. Issue 'E' Fuse Link
2. Link Bar
3. 'J' Bolt
4. (2) 1/4-20 Nuts
5. (2) 'E' Clips



### MODEL – FDLA\*\*\*

#### FDR Fuse Link Assembly

1. Issue 'B' Fuse Link
2. 'J' Bolt
3. (2) 'S' Hooks
4. (2) 1/4-20 Nuts



\*\*\* = Temperature 165°F, 212°F, or 285°F. Temperature must be provided when ordering. EX: FDLA 165

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## Fuse Link Accessories

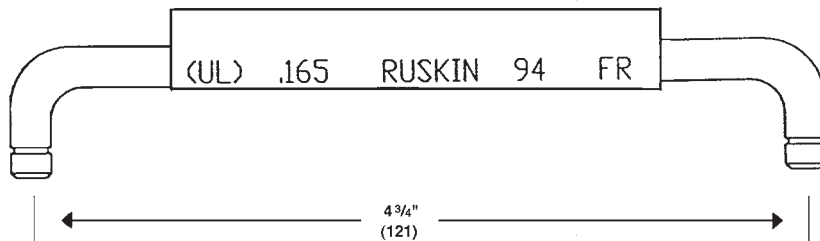
### Fuse Link Accessories for IBD, CFD, FD, and FSD Models

#### 4935 FUSIBLE ROD (NO LONGER USED)

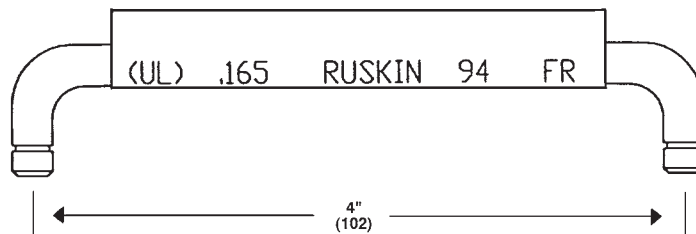
Specify 165°F or 212°F (74°C or 100°C) for all FSD Series Combination Fire Smoke Damper models (excluding FSDR25) manufactured prior to 1996

Refer to EFL or PFL spec sheets for dampers manufactured after 1996.

#### MODEL – FR49354\*\*\*



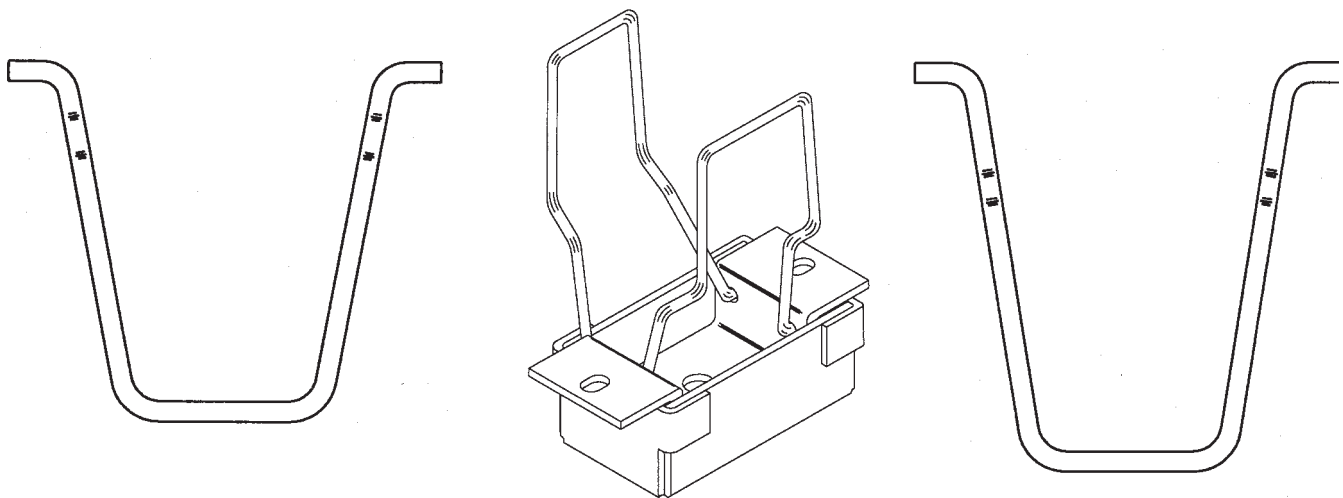
#### MODEL – FR49354\*\*\*



#### VOLUME ADJUST

Specify 165°F or 212°F (74°C or 100°C) option for all Ceiling Fire Dampers (CFD's)

#### MODEL – VOLADJ\*\*\*



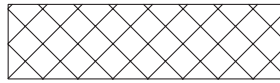
Lift arms are shown actual size.

\*\*\* = Temperature 165°F, 212°F, or 285°F. Temperature must be provided when ordering. EX: FR49354 285

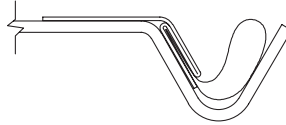
\*All stated specifications are subject to change without notice or obligation.

## Miscellaneous Blade Seals

### Blade Seals & Blade Stop Replacements



AA



A



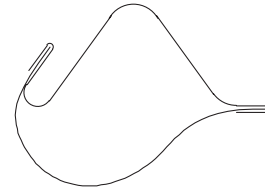
B



C



D



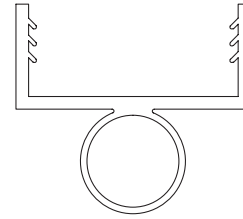
E



F



G



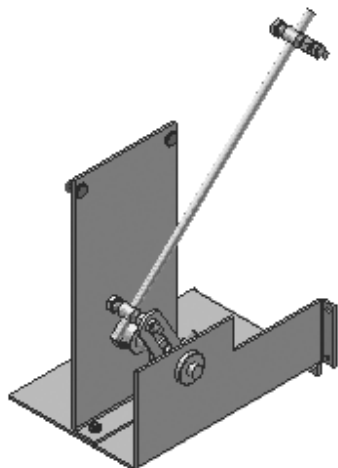
I

| DESIGNATION | RUSKIN PART # | DESCRIPTION                                                  |
|-------------|---------------|--------------------------------------------------------------|
| AA          | POLY 35       | 3/16" X 1/2" Polyurethane Foam Seals for CD45 and CD35       |
| AA          | NEOP35        | 3/16" X 1/2" Neoprene Seals for CD45 and CD35                |
| A           | PVC36         | PVC Coated Fiberglass Seal for CD46 and CD36                 |
| E           | SIL36         | Silicone Coated Fiberglass Seal for CD46, CD36               |
| C           | SANPBOB60     | Santoprene for Parallel and Opposed Bladed CD60              |
| C           | SILPBOB60     | Silicone for Parallel and Opposed Blade CD60                 |
| F           | SANBS6050     | Santoprene Blade Stop for CD60, CD50, CD40, CD40X2           |
| C           | SANPBOB50     | Santoprene for Parallel and Opposed Bladed CD50, 40 and 40X2 |
| D           | SANPBOBT150   | Santoprene for Parallel and Opposed Blade CDT150/BF          |
| B           | SANBST150     | Santoprene Blade Stop Seal for CDT150/BF                     |
| I           | VNLTRIMT150   | Vinyl Trim Blade Seal for CDT150/BF                          |
| C           | SILPBOB50     | Silicone Parallel and Opposed Blade CD50                     |
| B           | SILBS50       | Silicone Blade Stop Seal for CD50                            |
| G           | SILFSD60      | Blade Stop for Opp & Par CD60 w/Silicone Seals               |

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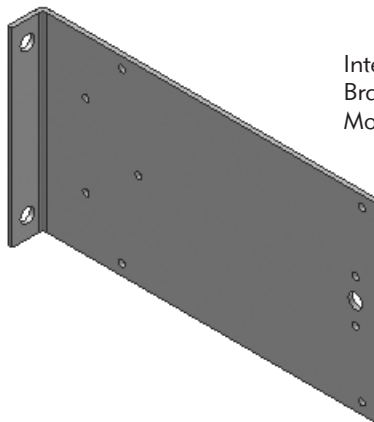
# Actuator Brackets

## MODEL – MBH2000IN



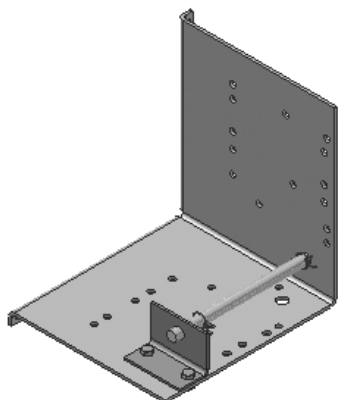
Internal Mount  
Bracket for:  
H2000, H2024,  
MS8209, MS4209  
Actuators

## MODEL – MBBELGCAIN



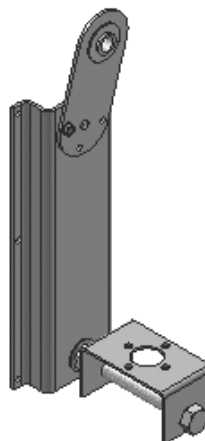
Internal Mount  
Bracket for Direct  
Mount Actuators

## MODEL – UMBPIN



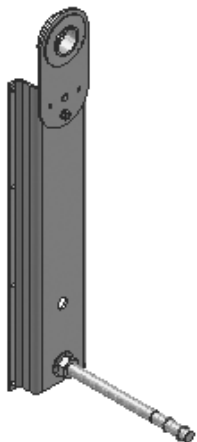
Internal Mount  
Bracket for: 331-4827,  
331-2961, 331-3060  
Pneumatic Actuators

## MODEL – MBP4827OUT



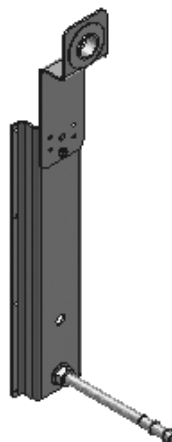
External Mount  
Bracket for: 331-4827  
Pneumatic Actuators

## MODEL – MBP2961OUT



External Mount  
Bracket for: 331-2961  
Pneumatic Actuator

## MODEL – MBP3060OUT

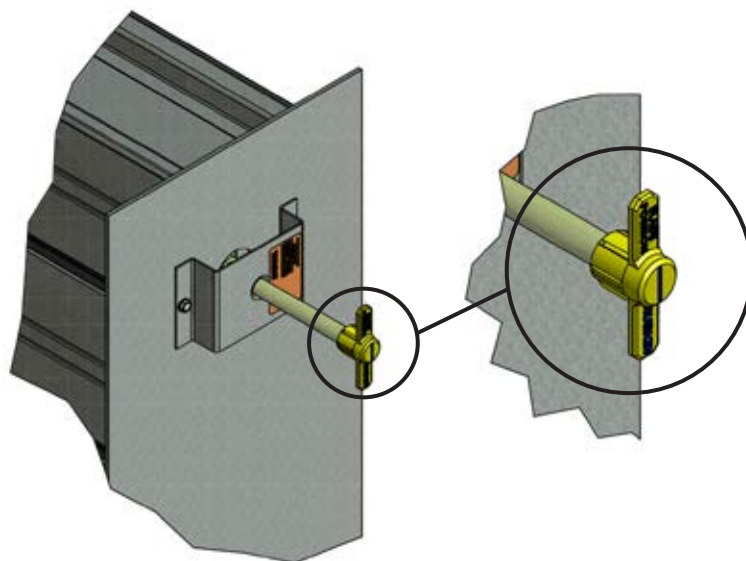


External Mount  
Bracket for: 331-3060  
Pneumatic Actuator

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# Blade Position Indicators

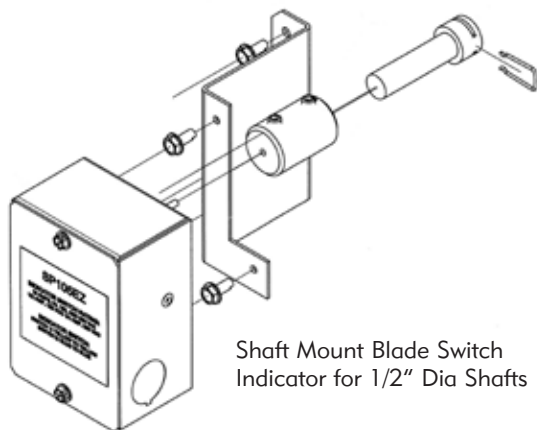
## MODEL – RBPI100



Ruskin Blade Position Indicator  
Fits on 1/2" Dia, 3/8" Sq  
and 1" Dia Shafts

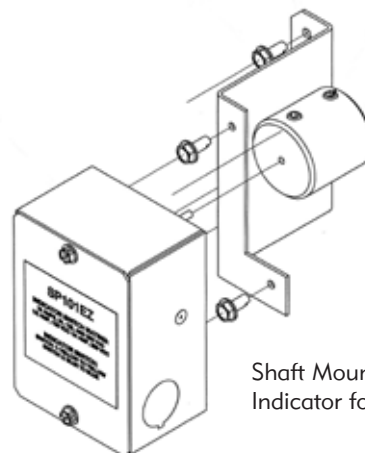


## MODEL – SP105



Shaft Mount Blade Switch  
Indicator for 1/2" Dia Shafts

## MODEL – SP101



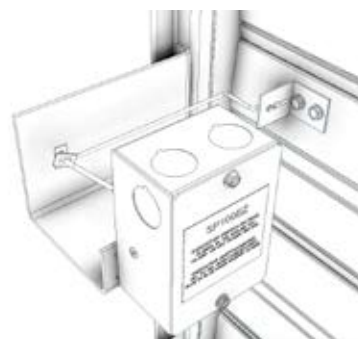
Shaft Mount Blade Switch  
Indicator for 1" Dia Shafts

## MODEL – SP100EZ



Blade Mount  
Switch Indicator  
(Switch Only)

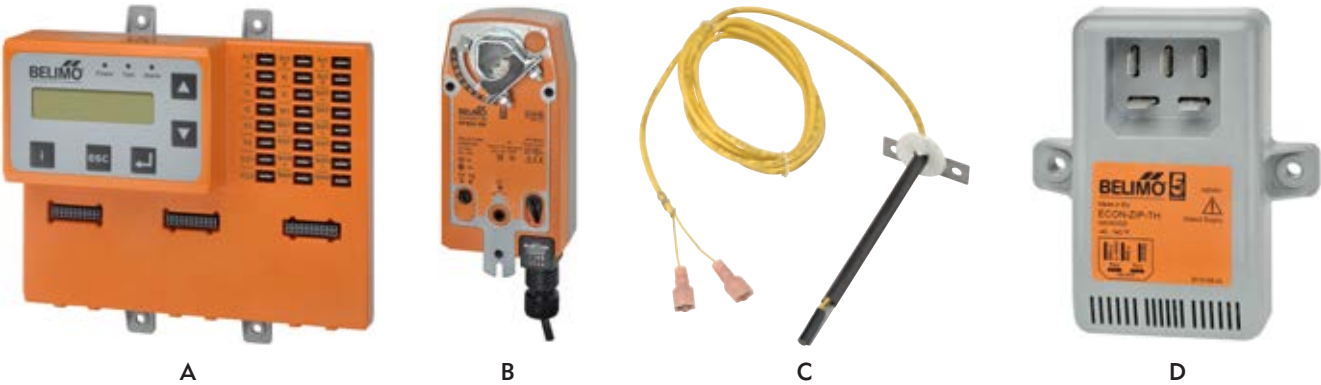
## MODEL – SP100FK



Blade Mount  
Switch Indicator  
Kit w/Brackets  
and Hardware

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# Economizer Controls



The pictures above represent the standard replacement parts for Ruskin model CD60ECON Economizer. The CD60ECON controls are provided by Belimo to Ruskin specifications and are modular in design, facilitating a “plug and play” installation. The economizer control logic board (A) includes an extended temperature LCD display, with on board help, providing information through every step of the setup process. Through automated fault detection and diagnostics, the logic board troubleshoots faults, initiates alarms, and reconfigures for best operation. The standard economizer control package provides the most common economizer functions; two stages of mechanical cooling, integrated cooling, four change-over strategies for free cooling, and damper position feedback. Ruskin furnishes and mounts actuators (B) specific to the application and factory commissioning is performed prior to shipping. It is paramount that the CD60ECON actuators are replaced with the same “RUS” series model. Likewise, the enthalpy sensor (D) and temperature sensor (C) complete the package and should be replaced with the same parts. If the CD60ECON is ordered with the standard dry bulb sensors (C) and it becomes necessary to use a single or dual enthalpy control strategy, contact Ruskin for support prior to ordering replacement parts.

| MODEL        | SYMBOL | DESCRIPTION                                        |
|--------------|--------|----------------------------------------------------|
| ECON-LB      | A      | Economizer control logic board                     |
| LF24SR-RUS   | B1     | Economizer actuator damper area up to 6 sq. ft.    |
| NFB24-SR-RUS | B2     | Economizer actuator damper area up to 18.5 sq. ft. |
| AFB24-SR-RUS | B3     | Economizer actuator damper area up to 30 sq. ft.   |
| ECON-DBS     | C      | O.A., R.A., and S.A. 10K Temperature Sensor        |
| ECON-ES      | D      | O.A., and R.A. Enthalpy sensor                     |

- Parts required for dry bulb control sequence**  
(Item A) Economizer control logic board, (item B) “RUS” series SR actuator (exact model and quantity based on damper area), and 3 (item C) 10K temperature sensors. Locate one sensor in the O.A., one in the R.A. flow and one in the mixed supply air location.
- Parts required for single enthalpy control sequence**  
(Item A) Economizer control logic board, (item B) “RUS” series SR actuator (exact model and quantity based on damper area), 1 (item D) Enthalpy sensor (located at O.A. location) and 1 (item C) 10K temperature sensor located in the mixed supply air location.
- Parts required for dual enthalpy control sequence**  
(Item A) Economizer control logic board, (itemB) “RUS” series SR actuator (exact model and quantity based on damper area), 2 (item D) Enthalpy sensors (one at O.A. location and one at R.A. location) and 1 (item C) 10K temperature sensor located in the mixed supply air location.

*\*All stated specifications are subject to change without notice or obligation.*

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