

## ACTUATOR FOR DAMPERS

**MODELS:**  
**FSD-111**  
**CFSD-222**  
**SD-333**

### FIGURE 1 : SELECTION SPECIFICATIONS FOR EXTERNAL DIRECT DRIVE ACTUATORS:

#### ACTUATOR MODELS:

SIEMENS: GGD121.1U, GGD221.1U, GGD321.1U  
SIEMENS: GND121.1U, GND221.1U, GND321.1U  
BELIMO: FSNF24, FSNF120, FSNF230  
HONEYWELL: MS8109F1010, MS4109F1010,  
MS4609F1010, MS8120F1002, MS4620F1005,  
MS4120F1006

\* For more actuator specification, please refer to individual spec sheet.

1. Actuator mounting locations:  
Standard is right front (Optional: Left Front)
2. Sleeve length:  
Standard is 18" shown (Optional: Specify dimension requirement above minimums)
3. Jackshaft location:  
Standard is downstream (Optional: Upstream)
4. Air flow direction:  
Normally jackshaft is downstream unless specified

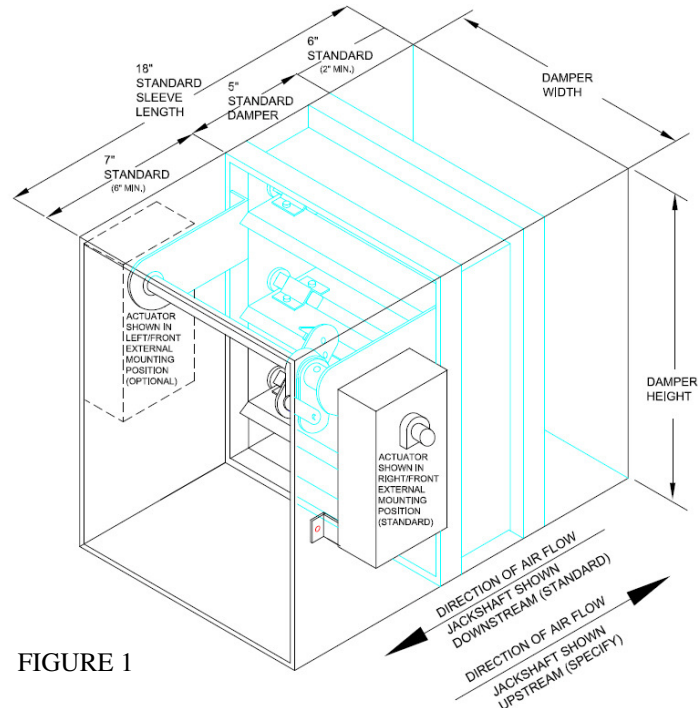


FIGURE 1

### FIGURE 2: SELECTION SPECIFICATIONS FOR INTERNAL DIRECT DRIVE ACTUATORS:

#### ACTUATOR MODELS:

SIEMENS: GGD121.1U, GGD221.1U, GGD321.1U  
SIEMENS: GND121.1U, GND221.1U, GND321.1U  
BELIMO: FSNF24, FSNF120, FSNF230  
HONEYWELL: MS8109F1010, MS4109F1010,  
MS4609F1010

\* For more actuator specifications, please refer to individual spec sheet.

1. Actuator mounting locations:  
Standard is left front as shown
2. Sleeve length:  
Standard is 24" shown (Optional: Specify dimension requirement above minimums)
3. Jackshaft location:  
Standard is downstream (Optional: Upstream)
4. Air flow direction:  
Normally jackshaft is downstream unless specified

NOTE:  
CONSULT THE FACTORY FOR MINIMUM DAMPER SIZES.

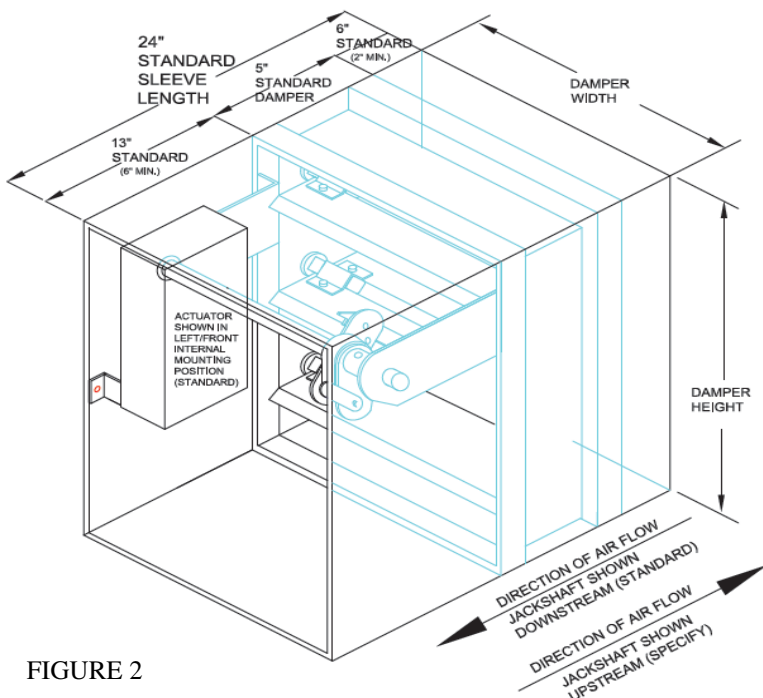


FIGURE 2



## ACTUATOR FOR DAMPERS

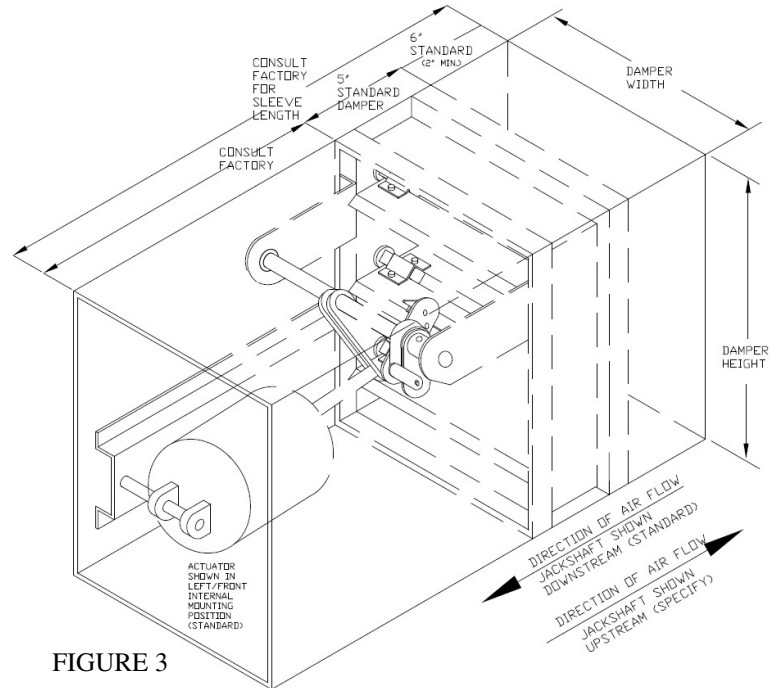
**MODELS:**  
**FSD-111**  
**CFSD-222**  
**SD-333**

### **FIGURE 3 : SELECTION SPECIFICATIONS FOR EXTERNAL LINKAGE DRIVE ACTUATORS:**

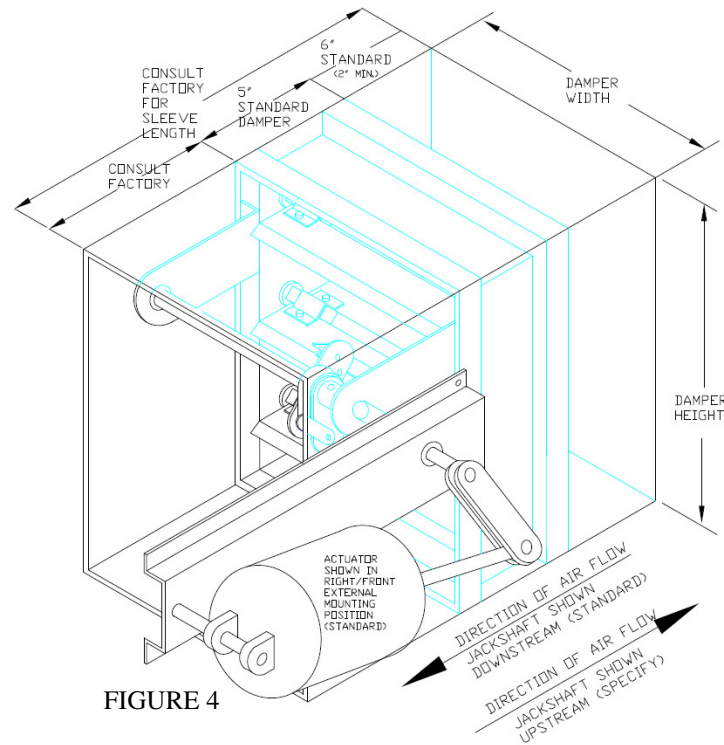
#### **ACTUATOR MODELS:** **SIEMENS PNEUMATIC**

For more actuator specification, please refer to individual spec sheet.

1. Actuator mounting location:  
Standard is right front (Optional: Left Front)
2. Sleeve length:  
Consult factory (Optional: Specify dimension requirement above minimums)
3. Jackshaft location:  
Standard is downstream (Optional: Upstream)
4. Air flow direction:  
Normally jackshaft is downstream unless specified



**FIGURE 3**



**FIGURE 4**

### **FIGURE 4: SELECTION SPECIFICATIONS FOR INTERNAL LINKAGE DRIVE ACTUATORS:**

#### **ACTUATOR MODELS:** **SIEMENS PNEUMATIC**

\* For more actuator specifications, please refer to individual spec sheet.

1. Actuator mounting location:  
Standard is left front as shown
2. Sleeve length:  
Consult factory (Optional: Specify dimension requirement above minimums)
3. Jackshaft location:  
Standard is downstream (Optional: Upstream)
4. Air flow direction:  
Normally jackshaft is downstream unless specified

**NOTE:**  
CONSULT THE FACTORY FOR MINIMUM DAMPER SIZES.