

Actuators for FSD-3V, SSD-3V, FD-MB-3V and FDD-MB-3V Dampers

@ 250F, 2000fpm, 4 in.W.G. static pressure

Power Supply	Actuator Type	Mounting	Size Limitation Per Actuator
Pneumatic (25PSI)	Siemens #3, 331-4826	Internal / External	6 sq.ft., 36" w x 48" h
	Siemens #4, 331-2961	Internal / External	12 sq.ft., 36" w x 48" h
Electric (24VAC)	Honeywell MS8104	Internal / External	6 sq.ft., 36" w x 48" h
	Honeywell MS8109	Internal / External	9 sq.ft., 36" w x 48" h
	Honeywell MS8120F	Internal / External	12 sq.ft., 36" w x 48" h
		External	18 sq.ft., 72" w x 48" h (two sections per actuator)
	Belimo FSLF24	Internal / External	4 sq.ft., 36" w x 48" h
	Belimo FSNF24	Internal / External	12 sq.ft., 36" w x 48" h
	Siemens GND-126	Internal / External	4 sq.ft., 36" w x 48" h
	Siemens GGD-121-1	Internal / External	12 sq.ft., 36" w x 48" h
Electric (120VAC)	Honeywell MS4104	Internal / External	6 sq.ft., 36" w x 48" h
	Honeywell MS4109	Internal / External	9 sq.ft., 36" w x 48" h
	Honeywell MS4120F	Internal / External	12 sq.ft., 36" w x 48" h
		External	18 sq.ft., 72" w x 48" h (two sections per actuator)
	Belimo FSLF120	Internal / External	4 sq.ft., 36" w x 48" h
	Belimo FSNF120	Internal / External	12 sq.ft., 36" w x 48" h
	Siemens GND-226	Internal / External	4 sq.ft., 36" w x 48" h
	Siemens GGD-221-1	Internal / External	12 sq.ft., 36" w x 48" h
Electric (230VAC)	Honeywell MS4604	Internal / External	6 sq.ft., 36" w x 48" h
	Honeywell MS4609	Internal / External	9 sq.ft., 36" w x 48" h
	Honeywell MS4620F	Internal / External	12 sq.ft., 36" w x 48" h
		External	18 sq.ft., 72" w x 48" h (two sections per actuator)
	Belimo FSLF230	Internal / External	4 sq.ft., 36" w x 48" h
	Belimo FSNF230	Internal / External	12 sq.ft., 36" w x 48" h
	Siemens GND-326	Internal / External	4 sq.ft., 36" w x 48" h
	Siemens GGD-321-1	Internal / External	12 sq.ft., 36" w x 48" h

NOTE:

- 230VAC ACTUATORS ARE SPECIAL ORDER. CONTACT FACTORY FOR LEAD TIME.
- ACTUATORS MAY OPERATE A SINGLE DAMPER SECTION ONLY, EXCEPT FOR MS4120, MS4620, AND MS8120 AS NOTED IN CHART. DAMPER SECTIONS MUST BE ORIENTED SIDE BY SIDE TO BE OPERATED BY A SINGLE ACTUATOR.
- SIEMENS GGD AND GND SERIES ACTUATORS AVAILABLE ON SPECIAL REQUEST, CONTACT FACTORY FOR LEAD TIME AND PRICING.

ALL METRIC DIMENSIONS () ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

PROJECT:		
ENGINEER:		
CUSTOMER:		256128
SUBMITTAL DATE:		2014/02/25
SPEC. SYMBOL:		FSD, SSD FD-MB, FDD-MB ACTUATOR SELECTION REFERENCE CHART

Actuators for FSD-3V and SSD-3V Dampers

@ 350F, 2000fpm, 4 in.W.G. static pressure (N/A to FD-MB-3V and FDD-MB-3V dampers)

Power Supply	Actuator Type	Mounting	Size Limitation Per Actuator
Pneumatic (25PSI)	Siemens #4, 331-2961	External	9 sq.ft., 36"w x 48"h (class 1)
			12 sq.ft., 36"w x 48"h (class 2)
Electric (24VAC)	Honeywell MS8104	Internal / External	4 sq.ft., 36"w x 48"h
	Honeywell MS8120F	Internal / External	9 sq.ft., 36"w x 48"h (class 1)
			12 sq.ft., 36"w x 48"h (class 2)
	Belimo FSLF24	Internal / External	4 sq.ft., 36"w x 48"h
Siemens GND-126	Internal / External	4 sq.ft., 36"w x 48"h	
Electric (120VAC)	Honeywell MS4104	Internal / External	4 sq.ft., 36"w x 48"h
	Honeywell MS4120F	Internal / External	9 sq.ft., 36"w x 48"h (class 1)
			12 sq.ft., 36"w x 48"h (class 2)
	Belimo FSLF120	Internal / External	4 sq.ft., 36"w x 48"h
Siemens GND-226	Internal / External	4 sq.ft., 36"w x 48"h	
Electric (230VAC)	Honeywell MS4604	Internal / External	4 sq.ft., 36"w x 48"h
	Honeywell MS4620F	Internal / External	9 sq.ft., 36"w x 48"h (class 1)
			12 sq.ft., 36"w x 48"h (class 2)
	Belimo FSLF230	Internal / External	4 sq.ft., 36"w x 48"h
Siemens GND-326	Internal / External	4 sq.ft., 36"w x 48"h	

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**FSD, SSD
FD-MB, FDD-MB
ACTUATOR SELECTION
REFERENCE CHART**

Actuators for FSD-AF, SSD-AF, FD-MB-AF and FDD-MB-AF Dampers

@ 250F, 2000fpm, 4 in.W.G. static pressure

Power Supply	Actuator Type	Mounting	Size Limitation Per Actuator
Pneumatic (25PSI)	Siemens #3, 331-4826	Internal / External	6 sq.ft., 36" w x 48" h
	Siemens #4, 331-2961	Internal / External	12 sq.ft., 36" w x 48" h
Electric (24VAC)	Honeywell MS8104	Internal / External	6 sq.ft., 36" w x 48" h
	Honeywell MS8109	Internal / External	9 sq.ft., 36" w x 48" h
	Honeywell MS8120F	External	12 sq.ft., 36" w x 48" h
	Belimo FSLF24	Internal / External	4 sq.ft., 36" w x 48" h
	Belimo FSNF24	Internal / External	12 sq.ft., 36" w x 48" h
	Siemens GND-126	Internal / External	4 sq.ft., 36" w x 48" h
	Siemens GGD-121-1	Internal / External	12 sq.ft., 36" w x 48" h
Electric (120VAC)	Honeywell MS4104	Internal / External	6 sq.ft., 36" w x 48" h
	Honeywell MS4109	Internal / External	9 sq.ft., 36" w x 48" h
	Honeywell MS4120F	External	12 sq.ft., 36" w x 48" h
	Belimo FSLF120	Internal / External	4 sq.ft., 36" w x 48" h
	Belimo FSNF120	Internal / External	12 sq.ft., 36" w x 48" h
	Siemens GND-226	Internal / External	4 sq.ft., 36" w x 48" h
	Siemens GGD-221-1	Internal / External	12 sq.ft., 36" w x 48" h
Electric (230VAC)	Honeywell MS4604	Internal / External	6 sq.ft., 36" w x 48" h
	Honeywell MS4609	Internal / External	9 sq.ft., 36" w x 48" h
	Honeywell MS4620F	External	12 sq.ft., 36" w x 48" h
	Belimo FSLF230	Internal / External	4 sq.ft., 36" w x 48" h
	Belimo FSNF230	Internal / External	12 sq.ft., 36" w x 48" h
	Siemens GND-326	Internal / External	4 sq.ft., 36" w x 48" h
	Siemens GGD-321-1	Internal / External	12 sq.ft., 36" w x 48" h

Actuators for FSD-AF and SSD-AF Dampers

@ 350F, 2000fpm, 4 in.W.G. static pressure (N/A to FD-MB-AF and FDD-MB-AF dampers)

Power Supply	Actuator Type	Mounting	Size Limitation Per Actuator
Electric (24VAC)	Honeywell MS8120F	External	12 sq.ft., 36" w x 48" h (class 2)
Electric (120VAC)	Honeywell MS4120F	External	12 sq.ft., 36" w x 48" h (class 2)
Electric (230VAC)	Honeywell MS4620F	External	12 sq.ft., 36" w x 48" h (class 2)

NOTE:

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PROJECT:		
ENGINEER:		
CUSTOMER:		256128
SUBMITTAL DATE:	SPEC. SYMBOL:	2014/02/25

**FSD, SSD
FD-MB, FDD-MB
ACTUATOR SELECTION
REFERENCE CHART**

Actuators for FSD-RD and SSD-RD Dampers

@250/350F, 2000fpm, 4 in.W.G. static pressure

Power Supply	Actuator Type	Mounting	Maximum Size Limitation
Pneumatic (25PSI)	Siemens #3, 331-4826	External	24" diameter
	Siemens #4, 331-2961	External	24" diameter
Electric (24VAC)	Honeywell MS8104	External	24" diameter
	Honeywell MS8109	External	24" diameter
	Honeywell MS8120F	External	24" diameter
	Belimo FSLF24	External	18" diameter
	Belimo FSNF24	External	24" diameter
	Siemens GND-126	External	18" diameter
	Siemens GGD-121-1	External	24" diameter
Electric (120VAC)	Honeywell MS4104	External	24" diameter
	Honeywell MS4109	External	24" diameter
	Honeywell MS4120F	External	24" diameter
	Belimo FSLF120	External	18" diameter
	Belimo FSNF120	External	24" diameter
	Siemens GND-226	External	18" diameter
	Siemens GGD-221-1	External	24" diameter
Electric (120VAC)	Honeywell MS4604	External	24" diameter
	Honeywell MS4609	External	24" diameter
	Honeywell MS4620F	External	24" diameter
	Belimo FSLF230	External	18" diameter
	Belimo FSNF230	External	24" diameter
	Siemens GND-326	External	18" diameter
	Siemens GGD-321-1	External	24" diameter

NOTE:

- 230VAC ACTUATORS ARE SPECIAL ORDER. CONTACT FACTORY FOR LEAD TIME.
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PROJECT:		PRICE
ENGINEER:		
CUSTOMER:		256128
SUBMITTAL DATE:	SPEC. SYMBOL:	2014/02/25

**FSD, SSD
FD-MB, FDD-MB
ACTUATOR SELECTION
REFERENCE CHART**