

STCDBP RECTANGULAR ELECTRONIC BYPASS DAMPER

SUBMITTAL



Rectangular Electronic Bypass Damper with Integrated Static Pressure Control (Part # STCDBP)



DESCRIPTION

The **Electronic Bypass Damper** includes a factory mounted actuator and electronic static pressure controller used to control static pressure in zoned systems. The Electronic Static Pressure Control is adjustable, controlling a modulating bypass damper to maintain static pressure as zone dampers modulate. The bypass system reduces air noise from the supply outlets caused by excessive air velocity.

When the system is satisfied, the bypass damper will remain 25% open, if intermittent fan is used. On systems utilizing continuous fan operation, bypass will modulate based on system static. Bypass controller is adjustable to maintain static pressure range from .15" - .95" W.C. The Integrated Static Pressure Control (**IPC**) includes a quick start option or may be field adjusted to specified static pressure.

STCDBP dampers feature parallel blade construction for height dimensions to 14" and opposed blade construction for height dimensions 16" through 48". STCDBP dampers 8" in height use a single damper blade.

The damper assembly is enclosed in a 16" long, 20-gauge galvanized steel sleeve, with standard slip and drive connections. Damper blades are bolted to a hexagonal damper shaft, which rotate within a stainless steel Oilite bushing. Damper blades close against steel blade stops.

TECHNICAL DATA

Electronic Integrated Bypass Damper

Electrical:

Supply Voltage: 24vac

Power consumption: 2 VA maximum (1.5 watt)

Environmental:

Operating temperature: 20 to 125° F (-7 to 52° C)

Operating humidity: 10-95% non-condensing

Storage temperature: -20 to 130° F (-29 to 54° C)

General:

Shell: 20 gauge cold rolled galvanized steel

Shaft: 1/2" dia. plated steel, hexagonal

Blades: 16 gauge galvanized

Bushings: Stainless steel Oilite

Actuator: Power open / Power close

Stroke: 90°

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TYPICAL CAPACITIES*

		WIDTH IN INCHES														
		8	10	12	14	16	18	20	22	24	28	32	36	40	44	48
HEIGHT IN INCHES	8	667	833	1000	1167	1333	1500	1667	1833	2000	2333	2667	3000	3333	3667	4000
	10	883	1042	1250	1458	1667	1875	2083	2292	2500	2917	3333	3750	4167	4583	5000
	12	1000	1250	1500	1750	2000	2250	2500	2750	3000	3500	4000	4500	5000	5500	6000
	14	1167	1458	1750	2042	2333	2625	2917	3208	3500	4083	4667	5250	5833	6417	7000
	16	1333	1667	2000	2333	2667	3000	3333	3667	4000	4667	5333	6000	6667	7333	8000
	18	1500	1875	2250	2625	3000	3375	3750	4125	4500	5250	6000	6750	7500	8250	9000
	20	1667	2083	2500	2917	3333	3750	4167	4583	5000	5833	6667	7500	8333	9167	10000
	22	1833	2292	2750	3208	3667	4125	4583	5042	5500	6417	7333	8250	9167	10083	11000
	24	2000	2500	3000	3500	4000	4500	5000	5500	6000	7000	8000	9000	10000	11000	12000
	28	2333	2917	3500	4083	4667	5250	5833	6417	7000	8167	9333	10500	11667	12833	14000
	32	2667	3333	4000	4667	5333	6000	6667	7333	8000	9333	10667	12000	13333	14667	16000
	36	3000	3750	4500	5250	6000	6750	7500	8250	9000	10500	12000	13500	15000	16500	18000
	40	3333	4167	5000	5833	6667	7500	8333	9167	10000	11667	13333	15000	16667	18333	20000
	44	3667	4583	5500	6417	7333	8250	9167	10083	11000	12833	14667	16500	18333	20167	22000
	48	4000	5000	6000	7000	8000	9000	10000	11000	12000	14000	16000	18000	20000	22000	24000

* Capacities are for reference only at 1500 FPM. Duct friction rate should be established by use of ACCA Manual D, Manual Q, or equivalent.

SENSOR LOCATION

