

# STMPD ROUND MEDIUM PRESSURE DAMPER

## SUBMITTAL



## **STMPD** **Round Medium Pressure Modulating** **Supply Damper**

### DESCRIPTION

The **STMPD** is a medium pressure, power open/power close, and pressure dependent modulating supply air damper. Damper sizes are available from 6" – 18" in diameter and have a maximum pressure differential of 1.75" W.C.

The 6" – 10" diameter damper cylinders are fabricated from 22 gauge steel and the 12" – 18" diameter cylinders from 20 gauge steel. Rolled beads are at the ends of every damper to provide maximum structural integrity. The trailing end is crimped for ease of installation into duct work.

STMPD dampers feature an elliptical blade for linear air volume delivery throughout the damper range of travel. The damper blade is bolted to the hexagonal damper shaft. A positive air seal is accomplished through use of a high-density foam gasket around the blade perimeter.

STMPD dampers feature 24 VAC full stall motors that do not require the use of end switches to terminate travel. Each STMPD is powered and controlled by its respective zone thermostat. Dampers can be wired in parallel to provide additional zone CFM capacity when required.

Damper motors are easily removed for damper shaft and motor inspection. Each actuator hat section is insulated to prevent condensation. The actuator provides minimum open and close stops for air balance requirements.

The STMPD may also function as a modulating bypass damper when used in conjunction with a static pressure controller (Zonex part# IPC).

### TECHNICAL DATA

#### Electrical:

**Supply Voltage:** 24 VAC

**Power consumption:** 2 VA maximum (1.5w)

#### Environmental:

**Ambient Temperature:** -22° to 122°F (-30°C to 50°C)

**Operating humidity:** 5 to 95% non-condensing

**Storage temperature:** -40°F to 176° F (-40°C to 80°C)

#### General:

**Shell:** 20-22 gauge cold rolled galvanized steel

**Shaft:** 1/2" dia. aluminum, hexagonal

**Bushings:** Celcon

**Actuator:** Power Open/Power Close

**Stroke:** 60°

**Pressure drop:** < .04" W.C. @ rated CFM

Rev 11/7/22

## **TYPICAL CAPACITIES\***

	Diameter	Nominal CFM	Velocity FPM	ΔP "WC
STMPD06	6"	110	540	.014
STMPD08	8"	250	700	.015
STMPD10	10"	410	750	.015
STMPD12	12"	660	850	.015
STMPD14	14"	1000	925	.035
STMPD16	16"	1450	1070	.036
STMPD18	18"	2000	1100	.036

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




## **Dimensional Data**

	Diameter	Length	Width
STMPD06	6"	10"	9"
STMPD08	8"	10"	11"
STMPD10	10"	12"	13"
STMPD12	12"	14"	15"
STMPD14	14"	16"	17"
STMPD16	16"	18"	19"
STMPD18	18"	23 1/2"	21"

## **ORDERING INFORMATION**

Part No.	Description
STMPD06	Medium pressure zone damper, round, 6" diameter.
STMPD08	Medium pressure zone damper, round, 8" diameter.
STMPD10	Medium pressure zone damper, round, 10" diameter.
STMPD12	Medium pressure zone damper, round, 12" diameter.
STMPD14	Medium pressure zone damper, round, 14" diameter.
STMPD16	Medium pressure zone damper, round, 16" diameter.
STMPD18	Medium pressure zone damper, round, 18" diameter.

## **TERMINAL FUNCTIONS**

Rc ←→	 3	RC- 24 VAC run damper closed
Ro ←→	 2	RO- 24 VAC run damper open
Mc ←→	 1	MC- 24 VAC motor common