



Young Regulator Co.

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Submit 3081 – 1-10

Model 3081

*Rectangular Opposed Blade
Variable Volume Pneumatic Damper*

Application and Design

The Young 3081 Rectangular pneumatic damper is ideal for pressure dependent VAV zone control, air inlet, and exhaust vents, although it may be used to control air in any branch duct. Damper is designed to work with low pressure systems up to 1" W.C., and is driven by a 5 to 10 lb. spring range pneumatic actuator installed in the factory. Damper operation is direct-acting, normally closed. The actuator can be operated from a pneumatic thermostat or static pressure controls. Units are simple to understand and install while providing the comfort of modulating VAV. This damper is perfect for retrofit. Actuator change is quick and easy and the noise level and air velocity changes are kept to a minimum. The minimum position stop is easily adjusted.



The opposed blade design distributes air over the face of the damper for better control, less noise and turbulence.

STANDARD CONSTRUCTION

One end straight, one end crimped

Frame	.050 Aluminum Extrusion with Reinforcing Channels
Blade	.050 Aluminum Extrusion with Reinforcing Channels
Blade Bushing	Individual Synthetic
Mounting Plate	5" Wide x Damper Height 18 ga. Galvanized Steel
Low Leak Seals	Not Available

SIZE INFORMATION

Damper 3/16" Undersized High & Wide

Frame Width	2-1/8" Wide
Blade Width	1.438" - Contained within frame
Max Size	24" x 14", 36" x 14" Bottom Mount
Min Size	3" x 3"

KMC MCP-3631-3000 PNEUMATIC ACTUATOR

Direct coupled rotary, 5-10 lb. PSI. Gas filled nylon body w/ neoprene diaphragm. Pneumatic device must be supplied with clean, dry air. Any other medium (e.g. oil or moisture contaminate) will cause the devise to fail

Normal Rotation	100 degrees
Spring Range	5 - 10 psi
Supply Pressure	0 - 20 psig, 30 psig maximum
Extended Torque	42/85 in. lbs. Based on 0 and 20 psi applied
Supply Connection	3/16" fitting for 1/4" OD polyethylene tube

For 1/2" round and 3/8" square damper shaft

OPTIONS

8-13 psi range (55 - 90 kPa)	Normally Open
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QUANTITY	WIDE	HIGH	NOTES

PROJECT

LOCATION

CONTRACTOR

DESIGN SPECIFIER