



**Young Regulator Co.**

7100 Krick Rd • Walton Hills, OH 44146  
 P: 440-232-9700 • F: 440-232-8266  
[www.youngregulator.com](http://www.youngregulator.com)

Submit 2075 – 10-07

**Model 2075**

*Modulating VAV Zone Damper w/  
 Automatic Changeover Sensor & Relay  
 Simple Stand Alone Zoning*

**Application and Design**

The 2075 round modulating zone dampers by Young Regular combine the advantages of Variable Air Volume and the simple installation of a damper to provide pressure dependent, thermostatically controlled zone control with automatic changeover between heating and cooling-without the need for an expensive VAV box.

These modulating dampers are operated by a 3-wire, 24-volt, stall type reversing motor. They are controlled with a single pole/double throw/center off thermostat like the Young models # T-312 and T-641, ordered separately. In a heat/cool system, they vary the volume of air into a zone to maintain room temperature. They are used independent of a zone control panel to solve isolated over heating and/or over cooling problems.



The automatic changeover relay consists of a duct sensor and relay board. The duct sensor is factory installed on our damper to be positioned upstream to sense supply air temperature. Supply duct air temperatures 72 degrees or greater will direct the relay board to put the damper in the heating mode, so that damper will begin to close when room temperature is greater than the wall thermostat set point. Supply duct air temperatures less than 72 degrees will direct the relay board to put the damper in the cooling mode, so that damper will begin to open when room temperature is greater than the wall thermostat set point.

STANDARD CONSTRUCTION	
Shell	6" – 10" – 24 ga. 12" – 20" – 20 ga. Galvanized Steel
Blade	20 ga. Galvanized Steel
Shaft	½" Plated Steel
Bushing	Oil Impregnated Bronze
Low Leak Seals	EPDM Rubber
SIZE INFORMATION	
One end straight, one end crimped Rolled stiffening beads	
Diameter	4" – 20"
Shell Length	8"

HONEYWELL ML6161 ACTUATOR	
Non-spring return direct-coupled actuators. Floating actuators used with single pole /double throw (SPDT) thermostats.	
Volts	24V
Watts	2.0
VA	2.2
Amp	0.085
Timing	7 min.
Torque	35 in. lb.
Built in motor stop for minimum and maximum air	
OPTIONS	
Transformers	T-312 Thermostat T-641 Thermostat

QUANTITY	DIAMETER	NOTES

<b>PROJECT</b>	<b>LOCATION</b>
<b>CONTRACTOR</b>	<b>DESIGN SPECIFIER</b>