MG-1 Barometric Damper Control

Product Overview

A double acting control for gas fired furnaces and boilers is widely used for conversion burner installations, gas draft-induced appliance operation with mechanical draft inducers or sidewall power vents. It is also recommended for use on gas atmospheric appliances where a draft hood can not be installed, and can improve combustion stability and draft on many gas atmospheric installations with venting problems. A double acting control for gas fired furnaces and boilers is widely used for conversion burner installations, gas draft-induced appliance operation with mechanical draft inducers or sidewall power vents.

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Specifications

MATERIAL GAUGE			
Size	RING	GATE	COLLAR
4"	24	24	26
5"	24	24	26
6"	24	24	26
7"	22	22	26
8"	20	20	26
9"	20	20	26

Features

- Solves many venting problems
- Works in a variety of situations including conversion burner installations or gas draft induced appliances
- Double action control
- Includes draft adjustment weights
- Available in 3 different sizes and special order sizes available to 32"
- Includes collar (available in sizes from 4" to 32")

Recommended Pipe Sizes (in.)																
Model	Control Size	Nominal Capacity Sq. In.	Dia.	Circum.	A	B	C	D	E	F	G	H	J	K	L	M
4" MG-1	4	12.6	3 - 4	9 1/2 to 12 1/2	4	2 1/2	2	2 5/16	4 9/16	1 1/2	1/4	2 1/2	1/2	1 1/4	3/8	7
5" MG-1	5	19.6	4 - 5	12 1/2 to 15 3/4	5	2 1/2	2	2 5/16	5 9/16	2	5/8	2 1/2	1/2	1 1/4	1/2	7
6" MG-1	6	28.3	5 - 6	15 3/4 to 19	6	2 11/16	3	3 1/4	6 5/8	2 1/8	13/16	2 3/4	3/4	1 3/4	5/8	8 7/16
7" MG-1	7	38.5	6 - 7	19 to 22	7	3 3/8	3 1/2	3 3/4	7 5/8	2 3/8	1 1/8	2 3/4	3/4	2	1/4	9 5/8
8" MG-1	8	50.3	7 - 8	22 to 25 1/4	8	4 3/8	4	3 3/8	8 11/16	3	1 1/2	2 5/8	3/4	2 1/4	3/8	11
9" MG-1	9	63.6	8 - 9	25 1/4 to 28 1/4	9	5 1/8	4 1/2	3 3/4	9 11/16	3 1/2	1 3/4	2 5/8	3/4	2 1/2	3/8	12 1/4

When to use a Draft Control

- Draft Inducers/Power Venters With these devices, draft is increased or created, causing fluctuations in air flow through the combustion chamber. These fluctuations can be negated by the use of a barometric draft control located between the draft inducer or power venter and the furnace, boiler, or water heater it services. Use a single-acting control for oil and gas-fired equipment with a power vented system. Use a single-acting control for oil, and a double-acting control for gas-fired equipment with a draft induced system.
- Power Burners A power burner is designed so that a fan delivers negative air pressure to the combustion chamber. A single-acting draft control for oil maintains that negative pressure. A power burner designed to burn natural or LP gas operates in the same manner. While a draft hood (diverter) is often used on gas units fired with an atmospheric burner, a double-acting barometric draft control should be used for furnaces or boilers fired with power burners.
- Forced Draft Burners Forced Draft installed with a stack height in excess of 30' will probably develop excessive natural draft, reducing the amount of pressure within the furnace or boiler. A barometric draft control will help eliminate this undesirable stack action and permit the unit to be pressurized.

- Dual Fuel Appliances Burners capable of burning either gaseous fuels or oil should be equipped with a barometric draft control. We suggest using a double-acting control on units where fuels are frequently changed. The double-acting feature is important for gas-firing appliances because it allows spillage of combustion products in case of blocked flues or down-drafts. To detect flue gas spillage on dual fuel installation, a Field Thermal Safety Switch is recommended.
- Gas-Fired Appliances Gas-fired furnaces and boilers generally require a double-acting draft control. Like a single-acting control, it opens inwardly to maintain a uniform draft. But, unlike a single-acting control, it is also free to open outwardly to spill the products of combustion, in case of blocked flues or down-drafts. National codes often mandate the use of a draft control. Usage is generally limited to furnaces or boilers designed for use with power burners and incinerators. Draft controls are generally used when oil-fired units are converted to gas