

# 8500 Series

## Gas Valves



## Description

The Robertshaw® 8500 Series Gas Valves are designed for light commercial and residential applications with direct ignition (DER & DERN) or intermittent pilot ignition (IPER) systems such as central heating units, space heaters, wall heaters, boilers, mobile home furnaces, and commercial cooking appliances. Setting this valve apart from the competition is its excellent regulation control, compact size and ON/OFF electrical switch.

## Features and Benefits

- Ground wire connection
- Pressure tap for checking inlet and outlet gas pressure
- Complies with CSA and (UL optional) requirements and carries the seal for commercial cooking
- Instantaneous, slow opening
- Multi-poise mounting, (any angle between 0° and 90° from upright. Note the Valve cannot be mounted upside down.)
- Quick connect and screw terminals for convenience wiring



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# Specifications

Electrical Rating	.28 Amps
Operating Voltage	24VAC 60Hz
Temperature Operating Range	-40°F to 175°F (-40°C to 80°C)
Maximum Pressure Rating	1/2 PSI
Inlet and Outlet Pressure Taps	1/8" NPT
Mounting	Multipoise
Agency Approvals	CSA
Range of Regulation Adjustments	3.0" to 5.5" Natural Gas 8.0" to 12.0" LP Fixed regulation: Maximum operation pressure is 1/2 PSI
Outlet sizes	Straight out: 3/8", 1/2", 3/4" NPT female threads
Inlet Sizes	Straight in: 3/8", 1/2", 3/4" NPT female threads
Power Consumption	5 Watts
Type	N.E.C. class 2

		1" Pressure Drop Capacity		Ranges of Regulation		Regulator Setting		Outlet Pressure Range		Flow Direction
		BTU/HR		BTU/HR		" W.C.		" W.C.		
Valve	Pipe Size	NG	LP	NG adj	LP adj	NG	LP	NG	LP	
Single	1/2" x 1/2"	150,000	230,000	10,000 - 250,000	30,000 - 320,000	3.5	10	3.0 to 5.5	8.0 to 12.0	
Single	3/4" x 3/4"	150,000	230,000	10,000 - 250,000	30,000 - 320,000	3.5	10	3.0 to 5.5	8.0 to 12.0	

# Product Dimensions

Their compact size, with a swing radius of 2.9" will fit most OEM and replacement applications.

