SmartValve™ Control Systems

SV9641 SmartValve™ System



warm air furnace applications.
They also interface with the 208907 Terminal Board, providing compatibility with power stealing thermostats. Or, they directly interface with the appropriate power supplies and a system thermostat for additional appliance applications.

 When controlled directly by a thermostat, these controls do not provide a postpurge function, because power to the control is removed when the thermostat call for heat ends.

 The SV9541 and SV9641 Systems are suitable for a wide range of fan-assisted combustion gas-fired appliances including furnaces, rooftop furnaces, boilers, unit heaters, infrared heaters, water heaters and commercial cooking appliances.

The TRADELINE™ SV9641 SmartValve System Controls combine gas flow control and electronic intermittent pilot sequencing functions into a single unit. The Q3450 or Q3480 Pilot hardware supplies the low voltage igniter, flame sensor and pilot burner. These ignition system controls provide all gas ignition safety functions by controlling gas flow, ignition source, and a 120 Vac or 240 Vac combustion air blower. The controls also monitor the appliance airflow proving switch and limit string to assure proper appliance operation, and provide prepurge, postpurge, and timed trial for pilot ignition with 100 percent shutoff and continuous retry.

These controls communicate directly with an electronic fan timer (ST9160 Electronic Fan Timer for single stage applications; ST9162 Electronic Fan Timer for two-stage applications) in typical forced

Dimensions, Approximate: 3.2 in. wide x 4.9 in. high x 4.1 in.long

(81 mm wide x 124 mm high x 104 mm long.)

Body Pattern: Straight-through

Maximum Capacity at 1 in. P.D. 150 ft3/hr (4.2 m3/hr)

Maximum Capacity: 200 ft3/hr (5.7 m3/hr) Minimum Capacity: 20 ft3/hr (0.6 m3/hr)

Pilot Gas Outlet: Yes Electrical Ratings: 24 Vac Frequency: 60 Hz; 50 Hz

Control Voltage (Thermostat or other call for heat): 24 Vac, 60 Hz.

Flame Failure Response Time (sec): 1.6 sec @ 3 µA

Flame Sense: Two Rod

Ignition Sequence: Intermittent Pilot

Ignition Source: Pilot

Ignition System Type: Intermittent Hot Surface Pilot Ignition

Ignition Trial Time (sec): 90 sec

Ignition Trials To Lockout: continuous retry

A diagnostic LED indicates system status.

Pressure Ratings: 1/2 psi (3.5 kPa) Pressure Tapping: 1/8 in. - NPT

Ambient Temperature Range: -40 F to +175 F (-40 C to +79 C)

Mounting: 0 to 90 degrees in any direction from the upright position of

the gas control knob, including vertically.

Approvals:

Canadian Standards Association: CSA-International, Design Certified

			Opening Characteristics	Inlet/Outlet Size	Pressure Regulator Setting				
	Product Number		(standard, step)		(psi)	(kPa)	PrePurge	PostPurge	Includes
•	SV9641M4510	Natural	Standard Opening		1.7 in. wc low; 3.2 in. wc high		15 seconds	30 seconds	LP Conversion Kit
*TRADELINE models • SUPER TRADELINE models									

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