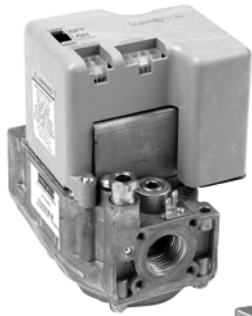


SmartValve™ Control Systems

SV9501; SV9502 SmartValve™ System



Standard Opening



Fast-Fast Opening



Slow Opening

The SmartValve™ System Controls provide easy field replacement of a wide range of SV9500, SV9501, SV9502 and SV9602 SmartValve™ System models. Gas appliance manufacturers use these models in many types of gas fired heating appliances including central furnaces, residential boilers, rooftop furnaces, commercial cooking appliances, and unit heaters. These controls provide intermittent pilot gas ignition sequencing, pilot flame sensing, and both pilot and main gas control functions in a single control. They are directly compatible with the Q3450 or Q3480 Intermittent Pilot burners used with the original controls on the appliance.

- Suitable for a wide range of gas-fired appliances including residential furnaces, roof-top furnaces, residential boilers, unit heaters, infrared heaters, space heaters and commercial cooking units.
- Replaces SV9500, SV9501 and SV9502 controls as noted below.
- Ignition sequence includes timed trial for ignition.

Body Pattern: Straight-through
Maximum Capacity at 1 in. P.D. 150 ft³/hr (20 ft³/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
Flame Failure Response Time (sec): 1.6 sec @ 3 μA
Flame Sense: Electrode
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
Pressure Ratings: 1/2 psi (3.45 kPa)
Ambient Temperature Range: -40 F to +175 F (-40 C to +79 C)
Typical Ignition Hardware: Q3450

Approvals:
American Gas Association: IAS Design Certified: C2030017

Product Number	Type of Gas	Opening Characteristics (standard, step)	Inlet/Outlet Size (in.)	Pressure Regulator Setting		PrePurge
				(psi)	(kPa)	
SV9501M2528	Natural	Standard Opening	1/2 in. NPT x 1/2 in. NPT	3.5 in. wc	0.87 kPa	None
SV9501M8129	Natural	Fast-Fast Opening	1/2 in. NPT x 1/2 in. NPT	3.4 in. wc	0.87 kPa	None
SV9502H2522	Natural	Slow Opening	1/2 in. NPT x 1/2 in. NPT	3.2 in. wc	0.80 kPa	15 seconds