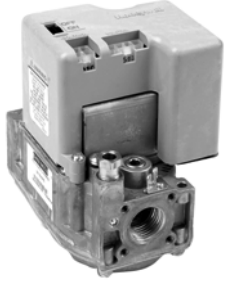


# SmartValve™ Control Systems

## SV9601 SmartValve™ System



The SV9601 SmartValve™ System Controls combine gas flow control and electronic intermittent pilot sequencing functions into a single unit. This product family offers several different intermittent pilot sequences for a wide range of applications. This system is suitable for application in a wide range of gas-fired appliances including furnaces, rooftop furnaces, boilers, unit heaters, infrared heaters, space heaters, water heaters, decorative appliances, and commercial cooking units. The specific application of the SmartValve System is the responsibility of the appliance manufacturer.

**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.** 300 ft<sup>3</sup>/hr (8.5 m<sup>3</sup>/hr)

**Maximum Capacity:** 415 ft<sup>3</sup>/hr (11.8 m<sup>3</sup>/hr)

**Minimum Capacity:** 30 ft<sup>3</sup>/hr (0.8 m<sup>3</sup>/hr)

**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

**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.

	Product Number	Type of Gas	Opening Characteristics (standard, step)	Inlet/Outlet Size (in.)	Pressure Regulator Setting		Includes
					(psi)	(kPa)	
•	SV9601M4571	Natural	Standard Opening	3/4 in. NPT x 3/4 in. NPT.	3.5 in. wc	0.87 kPa	Two 3/4 in. x 1/2 in. reducer bushings and an LP conversion kit.

\* TRADELINE models • SUPER TRADELINE models

# SmartValve™ Control Systems Selection Guide

		Specifications							Cross-Reference
Ignition/ Application	Universal Service Part	Gas Type	Opening Characteristics	Ambient Temperature Range	Natural to LP Conversion Kit (Included)	3/4 in. x 1/2 in. Reducer Bushings (Included)	Extension Harness (Included)	OEM Brands	Replaces
Intermittent HSI Pilot, General Application	SV9601M4571	Natural	Standard Opening	-40 to 175 F (-40 to 79C)	Yes	Two	No	—	SV9601M4167, SV9601M3003, SV9601M4225
	SV9501M2528							ICP, Heil, Tempstar, Arcoaire, Comfortmaker, KeepRite	SV9501M2056, SV9501M2080, SV9501M2726, SV9501M2031, SV9501M2049, SV9501M2239, SV9501M2700, SV9501M2718, SV9501M2734, SV9501M2742, SV9501M2064
	SV9501M8129		Fast-Fast					—	SV9501M8103
	SV9502H2522		Slow Opening	0 to 175 F (-18 to 79)			Yes	Laars, Utica, Armstrong, Concord, AireEase	SV9501H3415, SV9501H2417, SV9501H2409, SV9502H1706, SV9502H2704, SV9501H3423, SV9501H2425
	SV9602P4816		Step Opening	-40 to 175 F (-40 to 79 C)	None	Two	Yes	Burnham, ICP, Heil, Tempstar, Arcoaire, Comfortmaker, KeepRite	SV9501P2004, SV9601P4107, SV9501P2053, SV9502P2101, SV9602P4105
	SV9602P4824							Burnham	SV9501P2087, SV9601P4172, SV9502P2127, SV9602P4121
	SV9602P4832							Burnham	SV9501P2020, SV9501P2046, SV9601P4149, SV9601P4164, SV9502P2119, SV9502P2135, SV9602P4113, SV9602P4139
	SV9602P4840							—	SV9601P4115

For a complete cross-reference, visit [www.customer.honeywell.com](http://www.customer.honeywell.com)