






Universal Gas Valve Selection/Cross-Reference Guide

Trade Replacements (Double-check specifications before replacement)		Specifications				Accessories							Competitive Replacement (Double-check specifications before replacement)		
Universal Service Part	Direct Service Part Replacement	Opening Characteristics (standard, step)	Inlet/Outlet Size (in.)	Pressure Regulator Setting (psi)	Temperature Range (°F)	Includes							Honeywell OEM	White-Rodgers	RobertShaw
						Q340 Thermocouple	3/4" x 1/2" reducer bushing	Natural to LP Conversion Kit	3/4" straight flange	ECO Adapter	1/2" x 3/8" Reducer Bushing	Remote Rod Adapter			
	VR8300A4508	Standard	3/4 x 3/4	3.5 in wc (0.87 kPa)	0 to 175 °F (-18 to +79 °C)	None	Two	One	None	None	None	None	VR8300A4003, VR8300A4011, VR8300A4037, VR8300A4045, VR8300A4516, VR8300A4557, VR8300A4564	36C01-405,	720-406 (7200ER)
	VR8300A4516	Standard	3/4 x 3/4	3.5 in wc (0.87 kPa)	0 to 175 °F (-18 to +79 °C)	One	Two	One	None	One	None	None			700-400
	VR8300A3500	Standard	1/2 x 3/4	3.5 in wc (0.87 kPa)	0 to 175 °F (-18 to +79 °C)	None	One	One	None	None	None	None	VR8300A3104, VR8300A3120, VR8300A3153, VR8300A3161, VR8300A3203, VR8300A3500, VR8300A3559, VR8300A3567, VR8300A3575,	36C03-300, 36C03-400, 36C03-433, 36C03-258	720-404 (7200ER)
	VR8204A2076	Standard	1/2 x 1/2	3.5 in. wc (0.87 kPa)	0 to 175 °F (-18 to +79 °C)	None	None	One	One	None	One	None	VR8204A1201, VR8204A1219, VR8204A2175, VR8204A2803		
	VR8204M1091	Standard	1/2 x 1/2	3.5 in. wc (0.87 kPa)	-40 to 175 °F (-40 to +79 °C)	None	None	One	One	None	One	None	VR8204M1075	36E01-204, 36E01-205, 36E01-206, 36E01-305, 36E93-304,	722-079 (2000IPERHC)
	VR8205A2024	Standard	1/2 x 1/2	3.5 in. wc (0.87 kPa)	0 to 175 °F (-18 to +79 °C)	None	None	One	One	None	One	None		36G22-214	722-051 (2000DERHC)
	VR8245M2530	Standard	1/2 x 1/2	3.5 in. wc (0.87 kPa)	-40 to 175 °F (-40 to +79 °C)	None	None	One	None	None	One	None	VR8205M1106, VR8205M2310, VR8205M2443, VR8205M2450, VR8205M2476	36E36-304, 36E22-214	720-079 (7200IPER), 720-080 (7200IPER-LP),
	VR8205H1003	Slow	1/2 x 1/2	3.5 in. wc (0.87 kPa)	0 to 175 °F (-18 to +79 °C)	None	None	None	None	None	None	None	VR8305H4013, VR8305H4039		
	VR8304H4503	Slow	3/4 x 3/4	3.5 in. wc (0.87 kPa)	0 to 175 °F (-18 to +79 °C)	None	None	One	None	None	None	None	VR8204H1006	36E93-304	720-070 (7200IPER-S7C), 720-071 (7200IPER-S7C), 720-072 (7200IPER-S7C), 720-073 (7200IPER- LP-S7C)
	VR8345H4555	Slow	3/4 x 3/4	3.5 in. wc (0.87 kPa)	-40 to 175 °F (-40 to +79 °C)	None	Two	One	None	None	None	None		36E98-304, 36E24-214, 36E52-214,	700-052
	VR8304M3509	Standard	1/2 x 3/4	3.5 in. wc (0.87 kPa)	-40 to 175 °F (-40 to +79 °C)	None	One	One	None	None	None	None	VR8304M4002		
	VR8304M4507	Standard	3/4 x 3/4	3.5 in. wc (0.87 kPa)	-40 to 175 °F (-40 to +79 °C)	None	Two	One	None	None	None	None			
	VR8305M3506	Standard	1/2 x 3/4	3.5 in. wc (0.87 kPa)	-40 to 175 °F (-40 to +79 °C)	None	One	One	One	None	None	None	VR8305M4066, VR8305M4165, VR8305M4231	36E36-304, 36G22-214, 36C68-423, 36C74-413	720-051 (7200DER)
	VR8345M4302	Standard	3/4 x 3/4	3.5 in. wc (0.87 kPa)	-40 to 175 °F (-40 to +79 °C)	None	Two	One	None	None	None	None		36C68-423,	
	VR8205Q2555	2-Stage	1/2 x 1/2	1.7 in. wc Low Fire; 3.5 in. wc High Fire	-40 to 175 °F (-40 to +79 °C)	None	None	One	None	None	One	None	VR8205Q2662, VR8205Q2746, VR8205Q2787, VR8205Q2381	36E54-214,	
	VR8304Q4511	2-Stage	3/4 x 3/4	1.7 in. wc Low Fire; 3.5 in. wc High Fire	-40 to 175 °F (-40 to +79 °C)	None	Two	One	None	None	None	None		36C76-406, 36C76-420, 36C76-463	
	VR8305Q4500	2-Stage	3/4 x 3/4	1.7 in. wc Low Fire; 3.5 in. wc High Fire	-40 to 175 °F (-40 to +79 °C)	None	One	One	None	None	None	None	VR8305Q4146	36D13-208, 36D13-405, 36G54-214	
	VR8345Q4563	2-Stage	3/4 x 3/4	1.7 in. wc Low Fire; 3.5 in. wc High Fire	-40 to 175 °F (-40 to +79 °C)	None	Two	One	None	None	None	None		36E96-314,	720-082 (7200IPER2-4)
	VR8200A2744	VR8200A2124	Standard	1/2 x 1/2	3.5 in. wc (0.87 kPa)	0 to 175 °F (-18 to +79 °C)	One	None	One	One	None	One	None	VR8200A2116, VR8200A2264	
	VR8200A2132	Standard	1/2 x 1/2	3.5 in. wc (0.87 kPa)	0 to 175 °F (-18 to +79 °C)	None	None	One	One	None	One	None			720-400 (7200ER), 720-402 (7200ER)
	VR8200A2744	Standard	1/2 x 1/2	3.5 in. wc (0.87 kPa)	1 to 175 °F (-18 to +79 °C)	None	None	One	One + One Elbow	None	One	None			
	VS820A1054	Standard	3/4 x 3/4	3.5 in. wc (0.87 kPa)	32 to 175 °F (0 to 79 °C)	None	Two	None	None	None	One	None	VS820A1005, VS820A1013, VS820A1047, VS820A1278, VS820A5204, VS820A1922	36C03U-300, 36C03U- 333, 36C03U-400, 36C03U-433	
	VS820A1336	Standard	3/4 x 3/4	10.0 in. wc (2.49 kPa)	32 to 175 °F (0 to 79 °C)	None	Two	None	None	None	One	None	VS820A1211, VS820A1740, VS820A1120, VS820A1898, VS820A1872, VS820A1906		
	VS820A1088	Standard	3/4 x 3/4	3.5 in. wc (0.87 kPa)	32 to 175 °F (0 to 79 °C)	None	Two	One	None	None	One	Yes	VS820A1807, VS820A2003, VS820A1815, VS820A1039, VS820A2011		

- Notes:
- All piloted valves have a 1/4" compression fitting.
 - All the VR valves come set for Natural Gas, but can be converted to LP Gas.
 - All the VR valves have inlet and outlet pressure taps.
 - All valves contain LP conversion kits except VR82051003.

Universal Ignition Module Selection/Cross-Reference Guide

		Applications			Timings				Features and Functions					Cross-Reference			
Product Number	Ignition System	Flame Sensor	Ignition Sequence (Note 1)	Ignition Trials To Lockout (Note 1)	Ignition Trial Time (sec) (Note 1)	Between Trial Time (sec) (Note 5)	Flame Failure Response Time (sec)	Type of Gas	Ignition Source	PrePurge	Typical Ignition Hardware	Includes	Honeywell	White-Rodgers	Robertshaw	Johnson Controls	
	S8910U1000	Line volt hot surface ignition	1 or 2 Rods	P	1 or 3	4 or 7	(2) 96 sec. - 3 trial mode only	1.5 sec.	Nat or LP	Switched Mains	32 sec.	Norton 201, Norton 271, Hot surface elements, Q354 flame rod	S89C1004, S89C1007, S89C1012, S89C1046, S89C1087, S89C1103, S89D1002, S89G1005, S89G1011, S89G1013, S89G1021, S89G1029, S89G1047, S89H1003, S89H1011, S89H1029, S89J1008, S89D1006, S89G1003, S89G1037, S89H1002, S89H1010	50E47 1-79, 101-179, 201-279, 301-379, 5047F 1-79, 101-179, 201-279, 301-379.	HS780-17NL, 104A, 306A, 308A, HS780-17NR 104A, 306A, 308A, HS780-34NL 108A, 304A, 306A, 308A, 312A, HS780-34NR 104A, 306A, 308A, 312A, HS780-34PL 308A		
	S8610U3009	Intermittent Pilot	1 or 2 Rods	C	C	15 sec. or 90 sec. field selected	2.0 sec. max	0.8 sec. @1.0 mA flame current	Nat or LP	Internal	0 sec or 30 sec field selectable	Integral damper control	S8600A1001, S8600B1009, S8600C1015, S8600F1000, S8600F1034, S8600F1042, S8600H1006, S8600H1022, S8600H1048, S8600H1071, S8600H1089, S8600H1097, S8600M1013, S8600M1021, S8610A1009, S8610B1007, S8610B1015, S8610C1005, S8610C1013, S8610F1008, S8610F1016, S8610F1024, S8610F1032, S8610F1032, S8610H1012, S8610H1038, S8610H1046, S8610H1053, S8610H1079, S8610H1079, S8610M1003, S8610M1029, S8620H1002, S8620H1028	780-701, 710-713, 715, 735-737, SP710, SP715, SP720, SP730, SP735, SP750 Series	CSA42, 43, 44, 45, 46, 48, 49, G60, G65, G67, G770 Series		

SmartValve Selector/Cross-Reference Guide

Specifications							Cross-Reference		
Ignition/ Application	Universal Service Part	Opening Characteristics	Ambient Temperature Range	Includes			OEM Brands	Replaces	
				Natural to LP Conversion Kit	3/4" x 1/2" Reducer Bushings	Extension Harness			
HSI/ Water Heaters	SV9570A2518	Standard Opening	0 to 150 °F	No	None	No	AO Smith	SV9570A2054, SV9570A2070, SV9570A2096, SV9570A2161	
	SV9570A2526 (LP)						AO Smith	SV9570A2062, SV9570A2088, SV9570A2187, SV9570A2179	
Intermittent HSI Pilot with Combustion Air Control and Limit Monitoring/ Forced Air Furnace	SV9541Q2561	2-Stage	-40 to +175 °F (-40 to +79 °C)	Yes	None	No	ICP, Heil, Tempstar, Arcoaire, Comfortmaker, KeepRite	SV9540Q2464, SV9541Q3098	
	SV9641M4510	Standard Opening					ICP, Heil, Tempstar, Arcoaire, Comfortmaker, KeepRite, Mestek, SlantFin	SV9541M2094, SV9540M2229, SV9540M2260, SV9640M4116, SV9640M4124, SV9540M2278, SV9540M2245, SV9640M3126, SV9640M4132	
Direct Ignition/ General Application	SV9510M2511	Standard Opening	-40 to +175 °F (-40 to +79 °C)	Yes	None	No	Modine	SV9510M2347, SV9510M2362, SV9410M2902, SV9510M2412, SV9510M2354, SV9410M2910, SV9510M2388, SV9510M2420	
	SV9520M2536						SV9420M2331, SV9520M2403, SV9420M2323		
	SV9510K2539	Slow Opening	-40 to +175 °F (-40 to +79 °C)	Yes	None	No	Roberts Gordon	SV9510H2228, SV9510K2133, SV9510K2158, SV9510K2141, SV9510K2166	
	SV9520H8513	Fast-Slow Opening					Armstrong, Concord, Aire Ease	SV9520H8042, SV9520H8034, SV9520H8067, SV9520H8026	
Intermittent HSI Pilot/ General Application	SV9601M4571	Standard Opening	-40 to +175 °F (-40 to +79 °C)	Yes	None	No		SV9501M2080, SV9601M4167, SV9601M3003, SV9601M4225	
	SV9501M2528						ICP, Heil, Tempstar, Arcoaire, Comfortmaker, KeepRite	SV9501M2056, SV9501M2718, SV9501M2726, SV9501M2031, SV9501M2049, SV9501M2239, SV9501M2700, SV9501M2734, SV9501M2742, SV9501M2064	
	SV9501M8129	Fast-Fast	0 to 175 °F (-18 to +79 °C)	Yes	None	Yes		SV9501M8103	
	SV9502H2522	Slow Opening					Laars, Utica, Armstrong, Concord, Aire Ease	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		


Notes:

1. Ignition Sequence

C Continuous retry

P The number of trials for ignition and trial time is determined by the selection tab. If a selection tab is not installed, the module will operate at four seconds trial time and one ignition trial.

Thermopile Selection Guide

	Model	Item	Lead Length (in.)	Connection	Tradeline/Super Tradeline	Notes
	Q313	Q313A1022/U	35	Nut & Spade Terminal	Tradeline	
		Q313A1139/U	35	Clip & Spade Terminal	Super Tradeline	Push-in clip
		Q313A1170/U	35	Clip & Spade Terminal	Super Tradeline	PG9 Adapter (393948)
		Q313A1188/U	35	Nut & Spade Terminal	Super Tradeline	Push-in clip, 1/2 in. attaching nut
		Q313A1055/U	47	Nut & Spade Terminal	Tradeline	1/2" attaching nut
		Q313A1105/B	75	Nut & Spade Terminal	Tradeline	1/2" attaching nut

Thermocouple Selection Guide

Lead Length (in.)	Super Tradeline	Tradeline	White-Rodgers	Robertshaw	Husky	Johnson Controls
18	Q340A1066/U	Q390A1095/U	H06E-518		K16BT-18	K19AT-18
24	Q340A1074/U	Q390A1046/U	H06E-524	1970-24, 1980-24	K16BT-24	K19AT-24
30	Q340A1082/U	Q390A1053/U	H06E-530	1970-30	K16BT-30	K19AT-30
36	Q340A1090/U	Q390A1061/U	H06E-536	1970-36, 1980-36	K16BT-36	K19AT-36
48	Q340A1108/U	Q390A1103/U	H06E-548		K16BT-48	K19AT-48

For additional cross-reference information, see www.customer.honeywell.com or call **1-800-328-5111**.