

ISIMET S-305 & S-306 Solenoid Notice

It should be noted that issues can arise when using our S-305 and S-306 solenoids in school laboratory applications. These two solenoids have a .015 minimum pressure differential that is required for the solenoid to operate properly. If this pressure differential is not met, the solenoid will not be able to close. If there is only one Bunsen burner being used in the classroom and it is turned down very low, the solenoid valve could possibly remain open. These solenoid valves are designed for higher volume usage and should be used in that manner to prevent any possible issues.

This issue should be explained to the customer if these solenoids are ordered for this type of application. We recommend using the S-304 to solve this issue and prevent any future problems, but we understand that there will be occasional instances in which the engineer may not want to change his plans.

ISIMET Model	Port Size (in)	Orifice Size (in)	Seat Material	Min. Pressure Diff.	Flow Factor (Cv)	Max. Operating Pressure Air/Gas (psi)	BTU Capacity
S-301	1/2	.71	BUNA	0	4.0	3	171,600*
S-302	3/4	.71	BUNA	0	4.9	3	241,500*
S-303	1	1.26	BUNA	0	12	0.75	635,500*
S-304	1 1/4	1.26	BUNA	0	14	0.75	762,700 *
S-305	1 1/2	1.89	BUNA	0.015	41	3	2,225,530 *
S-306	2	2.0	BUNA	0.015	50	3	2,732,994 *
S-308	3	3	FKM	0	93.6	45	5,188,000*

*BTU @ .60 Specific Gravity W/pressure drop of 0.5 inch water column

Note: Solenoids are available in higher maximum operating pressure rating.