

APPLICATION

MGM Model 166 Excess Flow Check Valves are designed for use where flanged connections are required. They are made completely of carbon and stainless steel.

Model 166 Excess Flow Check Valves are single flanged, wafer style valves designed to fit inside Schedule 80 pipe. The valve flange will fit inside the bolt pattern of 150# or 300# flanges. Standard gaskets should be used on both sides of the valve.

Model 166 Excess Flow Check Valves can be mounted in any orientation with negligible effect on flow rate. Each valve will have the proper closing flow direction indicated by an arrow stenciled on the flange. As with all MGM Excess Flow Check valves, the Model 166 is equipped with an orifice in the check mechanism to allow for pressure equalization and will reopen automatically after repairs are made.

FEATURES

- Designed to fit inside Schedule 80 or less steel pipe.
- Fits inside the bolts of 150 and 300-pound American Standard steel pipe flanges. Valves may also be furnished for ring-type joints.
- Generous flow channels provide minimal pressure drops.
- Heavy duty steel construction will withstand temperatures from -50° F (-45° C) to +300° F (+148° C) and internal pressures up to 1900 psig (131 barg).
- Complete stainless steel construction available for greater range of operating temperatures.

FLOW RATINGS

The table on the following page shows the range of flow rates available for common fluids. Each size valve has several different spring options that can be used to vary the closing flow rate. Please contact MGM for assistance in choosing the proper spring for your specific application.

STANDARD MATERIALS

The table below lists standard material configuration for carbon steel and 316 stainless steel valves.*

	Carbon Steel	316 Stainless
Body	Low-temp Carbon	316-SS
Guide	Low-temp Carbon	316-SS
Spring	--- 316- or 302-SS ---	
Poppet (incl. nut and cotter pin)	--- 316-SS ---	

*Alternative materials available at additional cost

PRODUCT CERTIFICATIONS



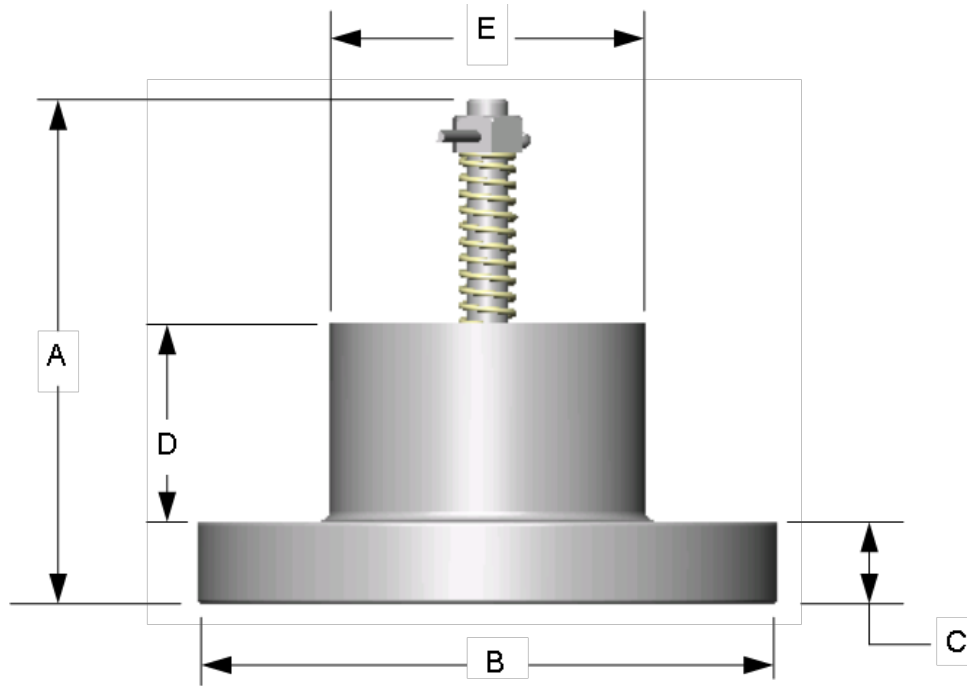
Underwriters Laboratories, Inc.
Listed for propane, butane, and anhydrous ammonia



Canadian Registration Number
OC13500.5C



CE Mark Certified to Pressure
Equipment Directive 2014/68/EU



ORDERING INFORMATION

Model Number	Pipe Size	Available Closing Flow Ranges – Approximate Flow in GPM Liquid*		Dimensions (inches) (300 # shown)				
		Propane	Ammonia	A	B	C	D	E
166:H	1.50"	6 - 30	5 - 28	3.25	2.88	0.50	1.13	1.44
166:I	2.00"	14 - 89	13 - 81	3.38	3.50	0.50	1.50	1.90
166:J	2.50"	59	54	3.63	4.13	0.50	1.88	2.25
166:K	3.00"	21 - 173	19 - 157	3.75	5.00	0.50	2.00	2.88
166:L	3.50"	125	116	4.38	5.50	0.50	2.25	3.25
166:M	4.00"	68 - 391	61 - 355	4.69	6.00	0.63	2.50	3.75
166:N	5.00"	332	301	5.44	7.31	0.63	3.38	4.75
166:P	6.00"	212 - 974	192 - 884	7.19	8.50	0.75	4.00	5.63
166:Q	8.00"	311 - 1374	282 - 1248	8.19	10.63	0.75	4.25	7.50
166:R	10.00"	945 - 2345	858 - 2176	11.31	12.75	0.88	5.75	9.50
166:S	12.00"	997 - 2091	905 - 1898	10.63	15.00	0.88	6.13	11.25

*Contact MGM for flow rates of other fluids