

# Model 485 Vacuum Relief Valve



## APPLICATION

The Model 485 Vacuum Relief Valve is designed to provide precise control of low level vacuum with excellent long term vacuum setting stability. Extremely low vacuum settings are possible due to its sensitive spring and low hysteresis diaphragm design. This relief valve is well suited for maintaining low vacuum applications like ink meniscus control, pipet filling and other low suction fluid control requirements.

## FEATURES

Injection molded ABS plastic housing and stainless steel components which include: setting spring, adjustment screw and housing screws provides trouble-free operation.

A large surface area, 1-micron filter element provides excellent long-life filtration which yields long-term stability of vacuum setting, especially at low vacuum levels.

Speed nut fastener is included for quick installation into equipment with 1/2-inch diameter mounting hole.

Connection to relief valve is 1/8-inch female NPT threads.



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# Model 485 Vacuum Relief Valve

## ADVANTAGES

Precision vacuum adjustment control that maintains a constant vacuum setting with minimum drift over time.

Different vacuum range models to provide precise vacuum settings from as low as 1/2-inch water column.

Robust housing constructed of ABS plastic and stainless steel fasteners, control spring and mechanism components provide reliable long-life trouble free operation in otherwise tough operating environments.

## SPECIFICATIONS

Setting Range:	485-001	3 to 13 inches water
	485-002	0.5 to 5 inches water
	485-003	0.5 to 15 inches Hg
Adjustment Resolution	8 turns of the knob is full range adjustment	
Operating Method	Diaphragm operated relief valve that controls vacuum relief setting via knob position adjusting spring force.	
Filter Type	1-micron pore size filter element of epoxysaturated borosilicate glass micro fiber	
Physical Characteristics:		
Flow Capacity:	1.2 SCFM at 1 psi drop across device	
Port Connection:	1/8-inch NPT female threads	
Mounting Attachment:	Mount from 1/8-inch NPT port or secure to 1/2-inch hole in sheet metal bracket with speed nut furnished with unit	
Mounting Orientation:	Vertical with knob pointing upward is recommended	
Dimensions:	2.5 inch diameter 3.2 inch overall height	
Weight:	0.13 Lbs	

## Typical Installation

