



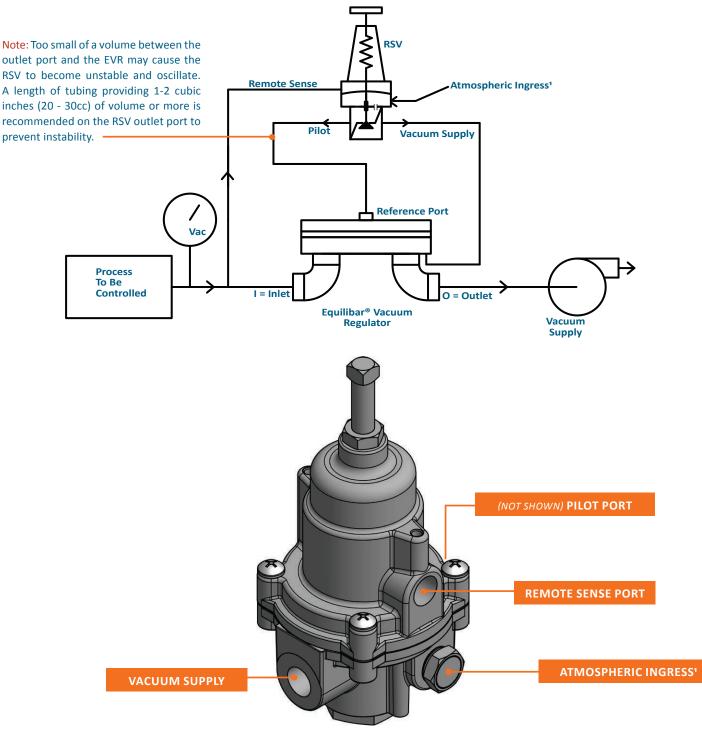


Remote Sense Vacuum Pilot Regulator

Application of the RSV

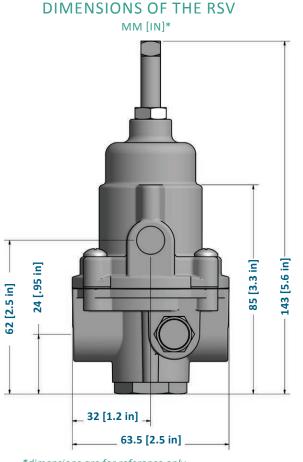
The Equilibar[®] RSV is a highly sensitive mechanical vacuum pilot regulator with remote sense capability that provides closed-loop control of an Equilibar vacuum regulator (EVR). It actively adjusts the pilot reference vacuum level on the EVR to maintain an extremely steady vacuum setpoint despite large variations in flow.

The RSV works by using the remote sense input to carefully adjust the vacuum force that is applied to the pilot reference port of the Equilibar vacuum regulator. During higher flow conditions, the RSV increases the reference vacuum level to open the vacuum regulator more fully. The opposite occurs during low flow conditions. This active pilot adjustment coupled with the instantaneous response of the EVR keeps the pressure stable from the lowest flow rates to the maximum capacity of the EVR. The RSV can be integrated with any Equilibar vacuum regulator to provide improved vacuum control at a wider flow range.



¹Sintered vent (atmospheric ingress) serves dual purposes as atmospheric sense and atmospheric bleed into pilot through orifice

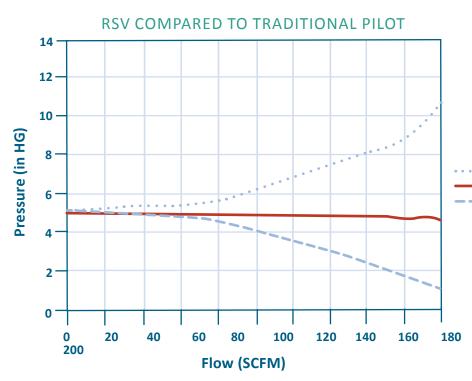
Performance Specifications



SIZES		
1/4" NPT		
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¼" (through sintered vent)		
SPECIFICATIONS		
1 - 30 inHg / 25 - 760 mmHg		
1 inHg (Supply Control)		
Through 0.015" Orifice (2.5 SCFH or 70 L/h at higher setpoints)		
MATERIALS OF CONSTRUCTION'		
Aluminum		
PTFE, Stainless, Buna Nitrile		
Steel		

¹ The materials of construction are not corrosion resistant. These regulators are for use with inert, non-corrosive gases.

*dimensions are for reference only



ORDERING INFORMATION

MODEL	VACUUM CONTROL PRESSURE RANGE	
RSV-2-10	1 - 10 inHg	25 - 254 mmHg
RSV-2-25	1 - 25 inHg	25 - 635 mmHg
Custom	Contact an application engineer	

 RSV Pilot Pressure Setpoint
Controlled Pressure with RSV
Controlled Pressure with Traditional Mechanical Pilot

About Equilibar

Equilibar provides innovative and robust pressure control technology for researchers and engineers worldwide. We are proud to design, manufacture and test our patented back pressure regulators in a facility near Asheville, NC.

APPLICATION ENGINEERING-WHAT SETS US APART

Unlike mass-market regulator distributors, we focus on working with you, the scientist or engineer with a complex pressure control scenario.

Our application engineers work collaboratively with clients to identify the optimal model, trim, and diaphragm for each application's unique challenges. No matter where you are on the globe, you can stay in close contact with your engineer by email, telephone, videoconferencing or fax.

After installation, your application engineer will support you with start-up information and fine-tuning as needed.



Equilibar, LLC 320 Rutledge Rd. Fletcher, North Carolina 28732 United States Tel: +1-828-650-6590 Fax: +1-801-504-4439 Monday - Friday 8:00 AM - 5:00 PM EST 12:00 - 21:00 GMT inquiry@equilibar.com



Each application is reviewed by our engineering team to ensure quality performance of our products.



Our engineers offer custom designed solutions for the most difficult pressure control challenges. Feel free to contact us to discuss your situation.



Equilibar's quality system is **ISO 9001:2015** certified.