

PROPORTION AIR

RG2712 & RG2713 AIR PILOTED REGULATOR

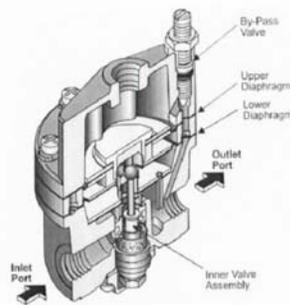


- **Balanced Supply Valve** minimize the effects of supply pressure variation
- **Aspirator Tube** minimize downstream pressure droop under flowing conditions
- A separate **Control Chamber** isolates the diaphragm from the main flow, eliminating hunting and buzzing

OPERATING PRINCIPLE

The RG2712/13 is an air piloted regulator capable of high flow and exhaust capacity. This regulator uses a force balance system to control the movement of the supply and exhaust valves.

At set point, the force due to signal pressure acting on the top of the Upper Diaphragm is balanced by the force due to output pressure acting on the underside of the Lower Diaphragm.



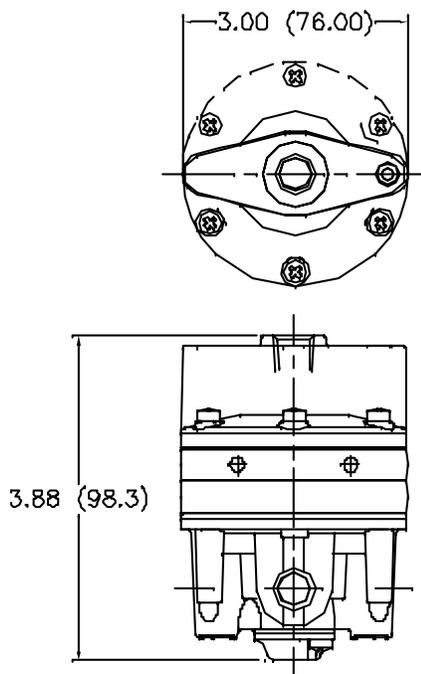
SPECIFICATIONS

<u>Type</u>	Air piloted, low hysteresis regulator
<u>Maximum Inlet Pressure</u>	250 psi (17 Bar)
<u>Outlet Pressure</u>	0 to 150 psi (10 Bar)
<u>Flow capacity</u>	100 psig supply, 20 psig output 45 SCFM (76.5 m3/hr)
<u>Exhaust Capacity</u>	5 psig > 20 psig output pressure 11 SCFM (18.7 m3/hr)
<u>Materials in Contact with Media:</u>	
Body & Housing	Aluminum
Trim	Zinc plated steel, Brass
Diaphragm	Nitrile on Dacron Fabric

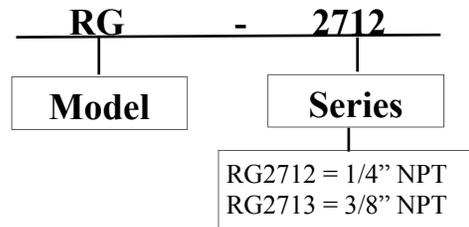
Ambient operating and fluid media temperature:
-40°F to +200°F
(-40°C to +93.3°C)

<u>Ports</u>	RG2712	1/4" NPT
	RG2713	3/8" NPT

DIMENSIONS



ORDERING INFORMATION

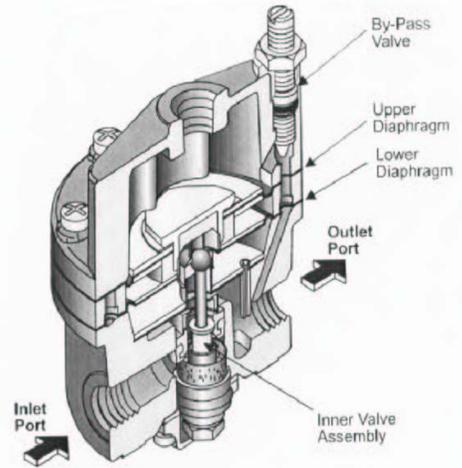


INSTALLATION

*Pilot signal is a Proportion Air control valve **

A. Proportion Air control valve & RG2712/13 volume booster ordered as an assembly:

1. Plug unused gage ports.
2. Connect primary air to the IN port of the RG2712/13 regulator
3. Connect OUT port of RG2712/13 to process being controlled.
4. Install a muffler in the EXHAUST port to protect internal parts from contamination and to reduce noise.
5. Before turning on system pressure, make sure dome pressure is 0 psig. Turn on system pressure and then increase the analog signal to Proportion-Air control valve until the desired downstream pressure of the RG2712/13 regulator is reached.



B. Proportion Air control valve & RG2712/13 regulator **NOT** ordered as an assembly:

1. Plug unused gage ports.
2. Plumb the output of the control valve to the pilot port of the RG2712/13 using 1/4" OD tubing.
3. Connect primary air to the IN port of both the RG2712/13 and the control valve.
4. Follow step 3, 4 & 5 in section A.

* An adjustable manual regulator can also be used as the pilot signal.

Proportion-Air products are warranted to the original purchaser only against defects in material or workmanship for one (1) year from the date of manufacture. The extent of Proportion-Air's liability under this warranty is limited to repair or replacement of the defective unit at Proportion-Air's option. Proportion-Air shall have no liability under this warranty where improper installation or filtration occurred.

All specifications are subject to change without notice. **THIS WARRANTY IS GIVEN IN LIEU OF, AND BUYER HEREBY EXPRESSLY WAIVES, WARRANTIES OR LIABILITIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY OBLIGATION OF PROPORTION-AIR WITH REGARD TO CONSEQUENTIAL DAMAGES, WARRANTIES OF MERCHANTABILITY, DESCRIPTION, AND FITNESS FOR A PARTICULAR PURPOSE.**

WARNING: Installation and use of this product should be under the supervision and control of properly qualified personnel in order to avoid the risk of injury or death.

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