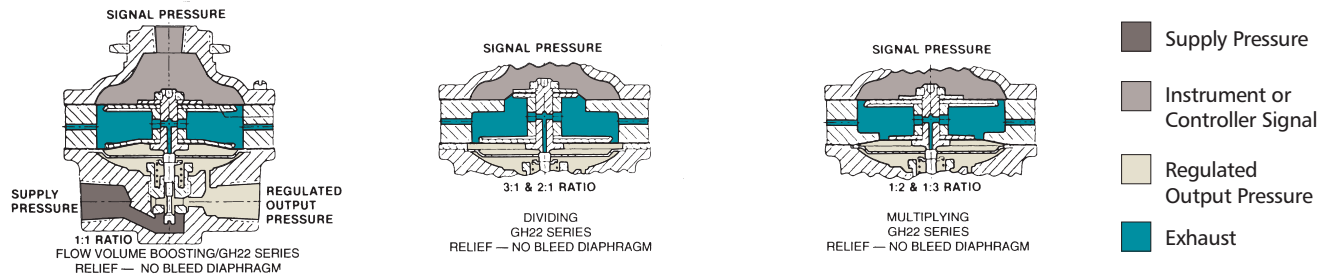


Conoflow® Series GH22 Ratio/Flow Boosting Relay

Principle of Operation

In the 3:1 and 2:1 ratio models the effective area of the top diaphragm is proportionally less than the effective area of the bottom diaphragm. Since force is equal to pressure times area, less output is required to balance the force resulting from a given signal pressure. For example, in the 2:1 ratio model, a signal pressure of 2 PSI (14 kPa) would result in an output pressure of only 1 PSI (7 kPa) since the effective area of the bottom diaphragm is twice that of the top diaphragm.

In the 1:3 and 1:2 ratio models, the effective area of the top diaphragm is proportionally larger than the area of the bottom diaphragm which results in an output pressure proportionately higher than the signal pressure.

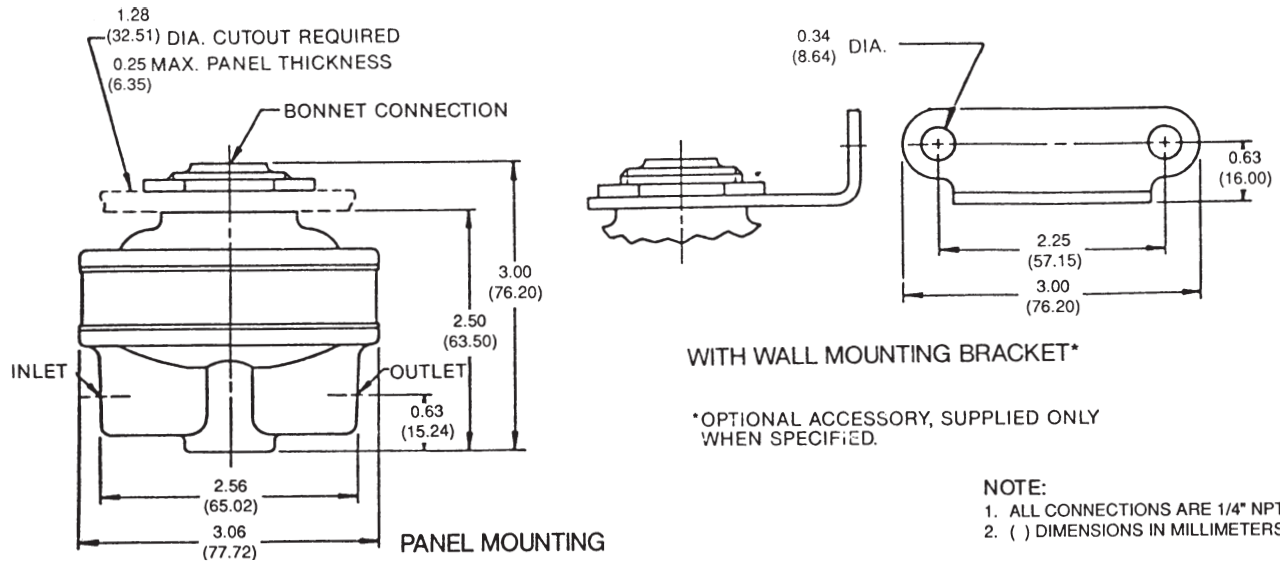


**Flow Volume Boosting/GH22 Series
Relief - No Bleed Diaphragm**

**Dividing/GH22 Series
Relief - No Bleed Diaphragm**

**Multiplying/GH22 Series
Relief - No Bleed Diaphragm**

Dimensional Views



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105 Commerce Way
Westminster, SC 29693
Tel. 864.647.9521
Fax. 864.647.9574
www.conoflow.com