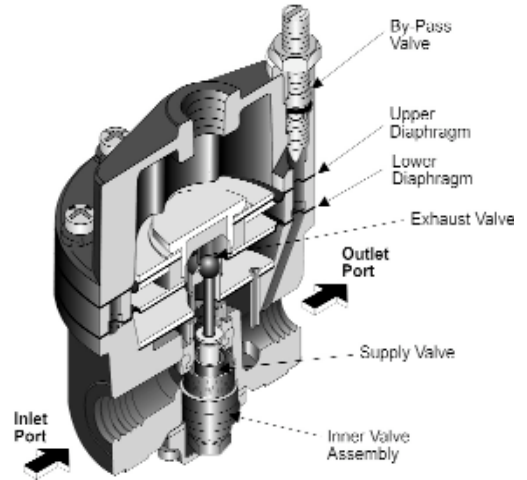


# Model 20 Pneumatic Precision Booster



## Features

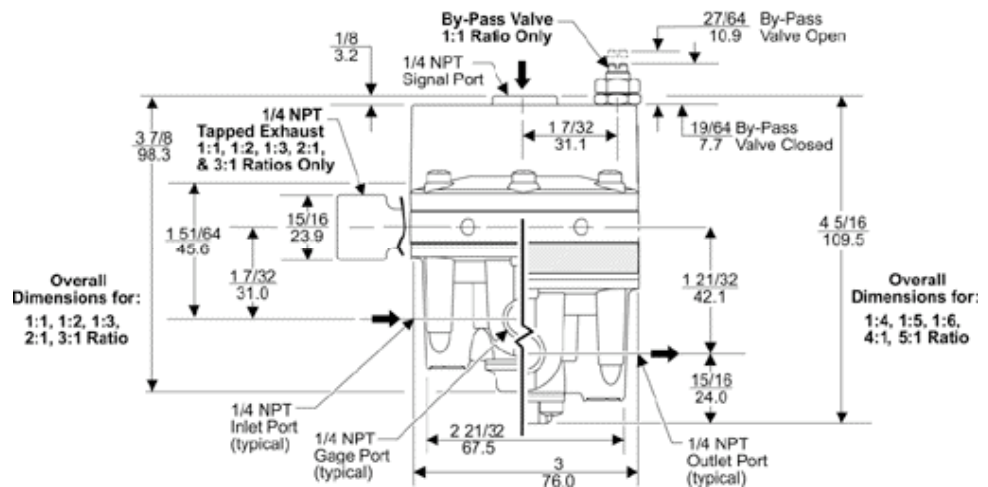
- The Model 20 Pneumatic High Capacity Volume Booster uses a pneumatic input signal to accurately control output pressure
- A balanced Supply Valve minimizes the effects of supply pressure variation
- An Aspirator Tube compensates downstream pressure droop under flowing conditions
- Optional Adjustable By-Pass Needle Valve allows tuning for optimum dynamic response (1:1 ratio only)
- Optional Fixed Negative Bias allows operation with pneumatic devices that cannot be adjusted to zero input pressure
- A separate Control Chamber isolates the diaphragm from the main flow to eliminate hunting and buzzing
- Unit construction allows servicing without removal
- Mounting Bracket available
- Canadian Registration Number (CRN) Certification for all territories and provinces



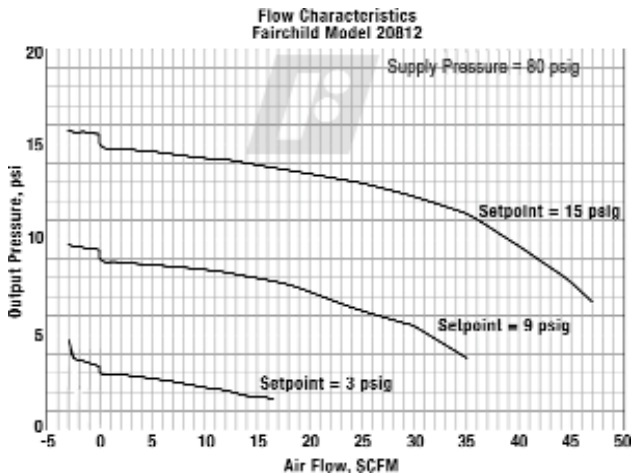
## Operating Principles

The Model 20 Booster is a pneumatic device capable of high flow and exhaust capacity. This device uses a force balance system to control the movement of the supply and exhaust valves.

At set point, the force due to signal pressure that acts on the top of the Upper Diaphragm balances with the force due to output pressure acting on the bottom of the Lower Diaphragm.



Technical Information



Catalog Information

<b>Catalog Number</b>	208 -	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>Ratio</b>	1:1	1		
	1:2	2		
	1:3	3		
	2:1	4		
	3:1	5		
	1:4	6		
	4:1	7		
	1:5	8		
	5:1	9		
	1:6	10		
<b>Pipe Size</b>	1/4" NPT		2	
	3/8" NPT		3	
<b>Options</b>	Silicone Elastomers <sup>2</sup>			A
	Tapped Exhaust <sup>1</sup>			E
	BSPP (Parallel) <sup>5</sup>			H
	By-Pass Valve <sup>4</sup>			I
	Viton Elastomers			J
	Non-Relieving <sup>1</sup>			N
	BSPT (Tapered)			U
	Negative Bias <sup>1,3</sup>			Y



Specifications

Ratio	SIGNAL:OUTPUT										
	1:1	1:2	1:3	1:4	1:5	1:6	2:1	3:1	4:1	5:1	
Maximum Output Pressure	psig [BAR] (kPa)	150 [10.0] (1000)	150 [10.0] (1000)	150 [10.0] (1000)	150 [10.0] (1000)	150 [10.0] (1000)	150 [10.0] (1000)	75 [5.0] (500)	50 [3.5] (350)	37.5 [2.6] (260)	30 [2.0] (200)
Maximum Supply Pressure	psig [BAR] (kPa)	250 [17.0] (1700)	250 [17.0] (1700)	250 [17.0] (1700)	250 [17.0] (1700)	250 [17.0] (1700)	250 [17.0] (1700)	250 [17.0] (1700)	250 [17.0] (1700)	250 [17.0] (1700)	250 [17.0] (1700)
Flow Capacity SCFM, (m <sup>3</sup> /HR)											
100 psig, [7.0 BAR], (700 kPa) supply, 20 psig, [1.5 BAR], (150 kPa) output.		45 (76.5)	45 (76.5)	45 (76.5)	45 (76.5)	45 (76.5)	45 (76.5)	45 (76.5)	45 (76.5)	45 (76.5)	45 (76.5)
Exhaust Capacity SCFM, (m <sup>3</sup> /HR)											
Downstream Press											

# P.S.I. Supplies Pty Ltd

Catalogue extract for:

## **Fairchild Model 20 Pneumatic Precision Booster**

For further information or sales information please contact:

[www.psisupplies.com.au](http://www.psisupplies.com.au)

Ph: +61 3 9899 6444 Email: [sales@psisupplies.com.au](mailto:sales@psisupplies.com.au)