

- Five signal to output ratios meet most control element requirements
- Control sensitivity of water column allows use in precision applications
- Large supply and exhaust Valves provide high forward and exhaust flows
- Soft supply and exhaust Valve seats minimize air consumption
- A balanced supply valve minimizes the effect of supply pressure variation
- An aspirator tube compensates downstream pressure droop under flow conditions
- A separate control chamber isolates the diaphragm from the main flow to eliminate hunting and buzzing
- Unit construction lets you service the P3BA45 without removing it from the line



**P3BA45 Series**  
 1/2" & 3/4" port size

Operating information		Signal : Output 1:1	1:2	1:3
Output pressure, maximum:		150 PSIG (10 bar)	150 PSIG (10 bar)	150 PSIG (10 bar)
Supply pressure, maximum:		250 PSIG (17 bar)	250 PSIG (17 bar)	250 PSIG (17 bar)
Flow capacity – 100 PSIG, (7 bar), supply 20 PSIG, (1.5 bar) output		150 SCFM (255 m <sup>3</sup> /HR)	150 SCFM (255 m <sup>3</sup> /HR)	150 SCFM (255 m <sup>3</sup> /HR)
Exhaust capacity – Downstream pressure 5 PSIG (.35 bar) above 20 PSIG (1.5 bar) setpoint		40 SCFM (62.5 m <sup>3</sup> /HR)	40 SCFM (62.5 m <sup>3</sup> /HR)	40 SCFM (62.5 m <sup>3</sup> /HR)
Sensitivity, water column:		1.0" (2.54 cm)	2.0" (5.08 cm)	3.0" (7.62 cm)
Ratio Accuracy – % of 100 PSIG (7 bar) output span % of output span with 100 PSIG (7 bar) input span		3.0 —	3.0 —	3.0 —
Supply pressure effect – for change of 100 PSIG (7 bar)		0.10 PSIG (.007 bar)	0.20 PSIG (.014 bar)	0.30 PSIG (.021 bar)
Ambient temperature:		-40°F to 200°F (-40°C to 93°C)	-40°F to 200°F (-40°C to 93°C)	-40°F to 200°F (-40°C to 93°C)
Hazardous locations:		Acceptable for use in zones 1 and 2 for gas atmospheres; Groups IIA and IIB and zones 21 and 22 for dust atmospheres.		
For technical information see CD				

**P3BA45**  
**Precision Pneumatic Input Signal Amplifier**



Port size	Pilot ratio	Part number
1/2"	1:1	<b>P3BA4514A</b>
1/2"	1:2	<b>P3BA4524A</b>
1/2"	1:3	<b>P3BA4534A</b>
3/4"	1:1	<b>P3BA4516A</b>
3/4"	1:2	<b>P3BA4526A</b>
3/4"	1:3	<b>P3BA4536A</b>

**Note:** Other spring ranges, port sizes, and options available. Please consult factory.

**Service kits**

1:1 ratio	<b>PS19549-1</b>
1:1 ratio w/ tapped exhaust	<b>PS19549-1E</b>
1:2 ratio	<b>PS19549-2</b>
1:3 ratio	<b>PS19549-3</b>
1:1 w/ tapped exhaust, I option	<b>PS19549-20E</b>

Most popular.

**Material specifications**

Body and housing	Aluminum
Diaphragm	Nitrile on dacron fabric
Trim	Zinc plated steel, brass

