Air hydraulic boosters *Application & selection*

Shown: AHB-46, B-5003, B-3006

99_07_2

AHB and B series boosters

Large effective area of air piston allows compressed air to generate high output hydraulic pressure.

For high production applications

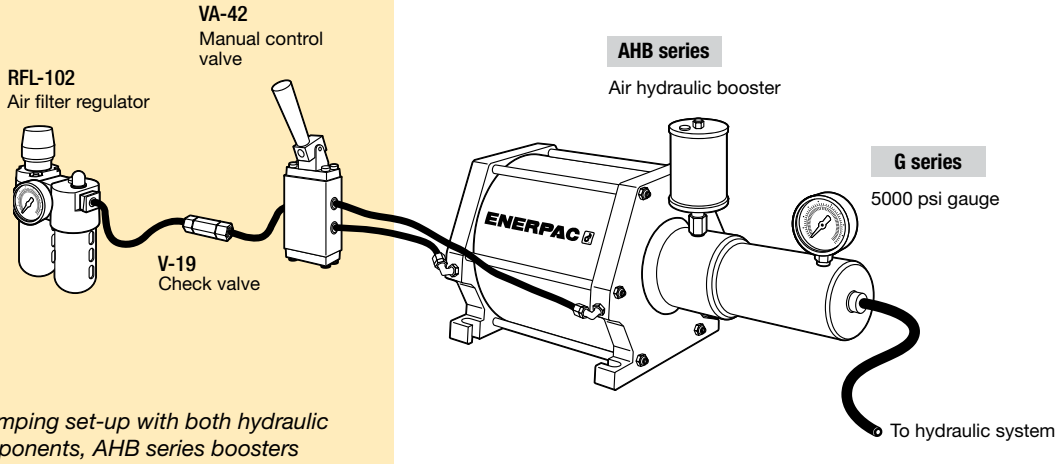
- High speed operation
- Extended service life
- Constant hydraulic output
- Large oil delivery per stroke allows quick filling of cylinders for clamping or punching

AHB series boosters

- Fiberglass wound air chamber eliminates possibility of rust due to moisture in air system
- Designed for fully automated production applications
- Double-acting, one-shot, high speed operation of air piston

B series boosters

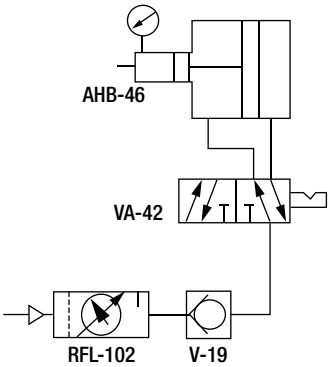
- One-shot spring return
- Steel and cast iron construction
- **Built-in stroke sensor for automatic cycle operation**
  30 VDC switch closes 1 inch before end of full air piston stroke
- **Internal self-bleeding**
  Automatically purges air from system when booster piston is at highest point in circuit

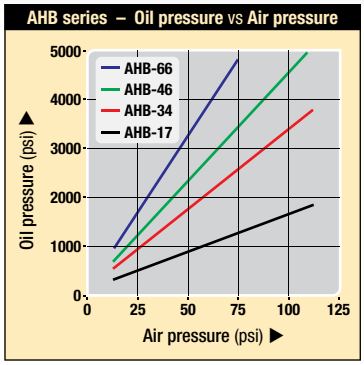


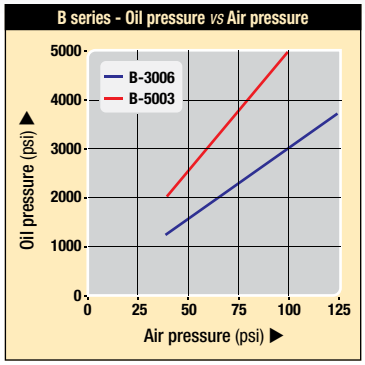
In an automated clamping set-up with both hydraulic and pneumatic components, AHB series boosters are used as a power source for the hydraulic system.

Hydraulic system schematics

Complete power systems eliminate the guesswork of selecting valves and other system components. Plug in your 15 to 115 psi shop air line and connect your hydraulic components for a total system.







Ratio: 1:16-1:64

Pressure: 1600-5000 psi

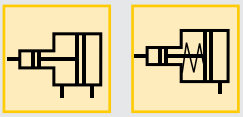
Oil flow: 3.7-18.0 in³/stroke

Air: .95-2.2 scfm/cycle

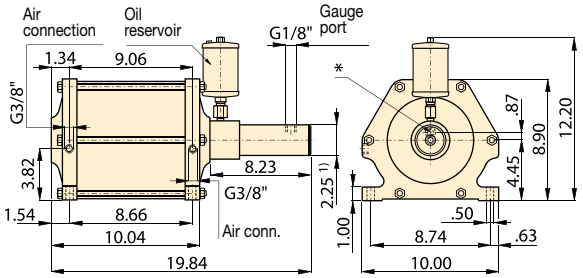
(E) Multiplicadores

(F) Multiplicateurs

(D) Druckübersetzer



AHB series



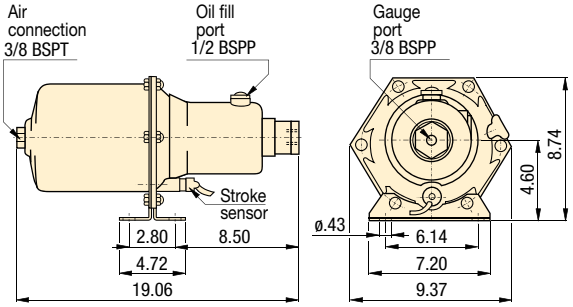
1) Ø 2.83" for model **AHB-17**

* Oil connection (G1/4")

*** Adapter to 3/8" NPT air connection is included.

NOTE: FZ-2060 Adaptor available for gauge port.

B series



Options

Air valves 106,158 ▶

Regulator-filter-lubricator 106,158 ▶

Fittings 194 ▶

Important

Boosters can provide high oil flow rates based on the volume of in-coming air.

Do not exceed the flow rate requirements of the components being used.

For vertical mounting of booster, an elbow fitting is recommended for the oil reservoir.

Selection chart

Oil pressure at 75 psi air pressure	Oil pressure at 100 psi air pressure	Oil volume per stroke in³	Air to oil pressure ratio	Model number	Air consumption per cycle 1) ft³ at 85 psi air	Air piston diameter in	Hydraulic piston diameter in	Hydraulic stroke in	Air operating pressure psi	lbs
▼ AHB series										
1200	1600	18.0	1:16	**AHB-17**	2.2	8.00	2.00	5.71	15-115	41.4
2550	3460	8.5	1:34	**AHB-34**	2.2	8.00	1.38	5.71	15-115	37.2
3450	4600	6.1	1:46	**AHB-46**	2.2	8.00	1.18	5.71	15-115	36.1
4800	–	4.5	1:64	**AHB-66**	2.2	8.00	1.00	5.71	15-75	35.4
▼ B series										
2250	3000	6.2	1:30	**B-3006**	.95	7.10	1.22	5.20	40-125	31.0
3750	5000	3.7	1:50	**B-5003**	.95	7.10	.94	5.20	40-125	31.0

1) One cycle = advance + retract stroke.

Note: Seal material: Buna-N, Polyurethane.