

Air hydraulic boosters Application & selection

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



AHB and B-series boosters

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

For high production applications

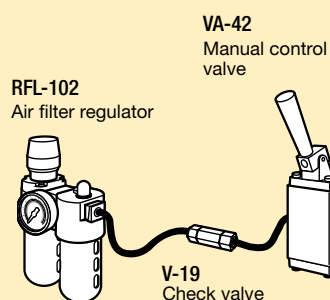
- High speed operation
- Extended service life
- Constant hydraulic output
- Large oil delivery per stroke allows quick filling of cylinders for clamping or punching

AHB series boosters

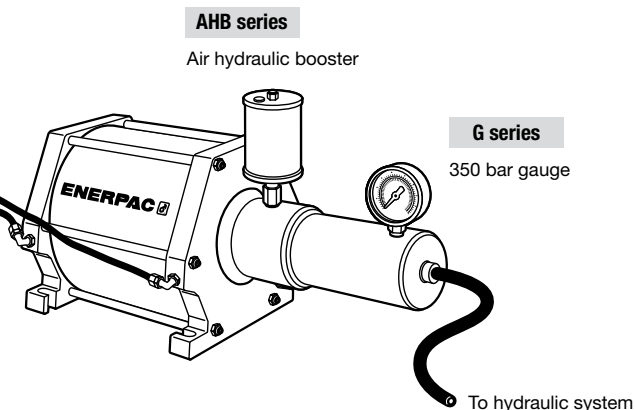
- Fiberglass wound air chamber eliminates possibility of rust due to moisture in air system
- Designed for fully automated production applications
- Double-acting, one-shot, high speed operation of air piston

B series boosters

- One-shot spring return
- Steel and cast iron construction
- Built-in stroke sensor for automatic cycle operation
30 VDC switch closes 25 mm before end of full air piston stroke
- Internal self-bleeding
Automatically purges air from system when booster piston is at highest point in circuit

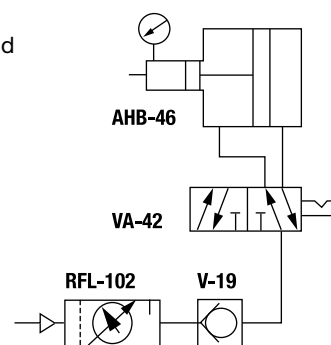


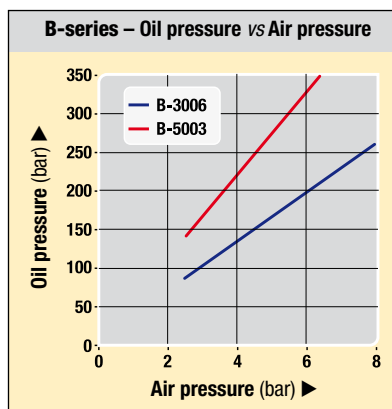
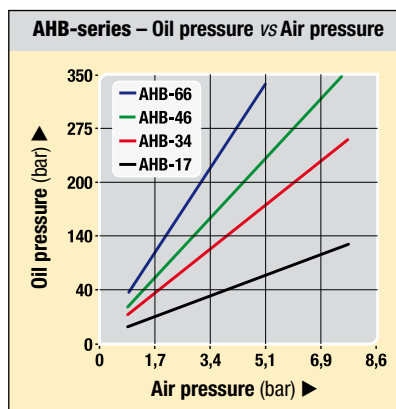
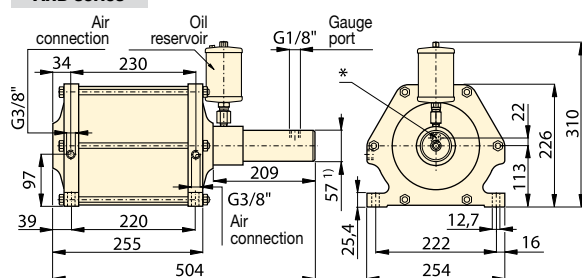
In an automated clamping set-up with both hydraulic and pneumatic components, AHB series boosters are used as a power source for the hydraulic system.



Hydraulic system schematics

Complete power systems eliminate the guesswork of selecting valves and other system components. Plug in your 1 to 8 bar shop air line and connect your hydraulic components for a total system.



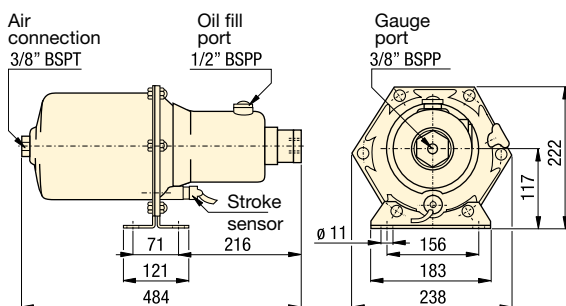
**AHB series**

¹⁾ Ø 72 mm 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

Ratio: 1:16 - 1:64

Pressure: 100 - 350 bar

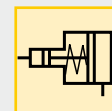
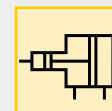
Oil flow: 60-295 cm³/stroke

Air: 27 - 64 dm³/cycle

E Multiplicadores

F Multiplicateurs

D Druckübersetzer

**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 bar		Oil volume per stroke cm³	Air to oil pressure ratio	Model number	Air consumption per cycle ¹⁾	Air piston diameter	Hydraulic piston diameter	Hydraulic stroke	Air operating pressure	
at 5 bar air pressure	at 7 bar air pressure				dm³ at 6 bar air	mm	mm	mm	bar	kg
▼ AHB series										
83	110	295,0	1:16	AHB-17	62,6	203	51	145	1-8	18,8
175	235	139,3	1:34	AHB-34	63,6	203	35	145	1-8	16,8
240	315	100,0	1:46	AHB-46	63,9	203	30	145	1-8	16,4
330	–	73,7	1:64	AHB-66	64,1	203	25	145	1-5	16,0
▼ B series										
155	210	101,6	1:30	B-3006	27	180	31	132	3-9	14,0
260	350	60.6	1:50	B-5003	27	180	24	132	3-9	14.0

¹⁾ One cycle = advance + retract stroke.
Note: Seal material: Buna-N, Polyurethane.