

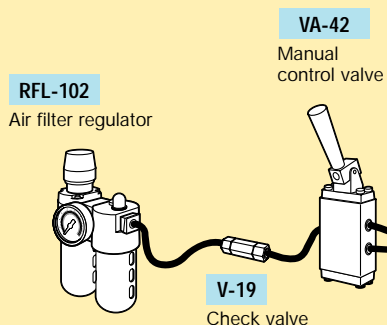
# Air hydraulic boosters *Application & selection*

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.



■ 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.



## For high production applications

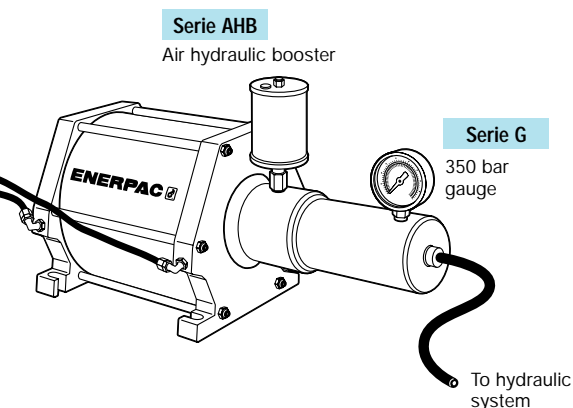
- High speed operation
- Extended service life
- Constant hydraulic output
- Large oil delivery per stroke allows quick filling of cylinders for clamping or punching

### 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, high speed operation of air piston

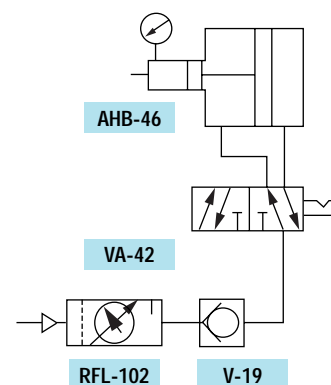
### B series Boosters

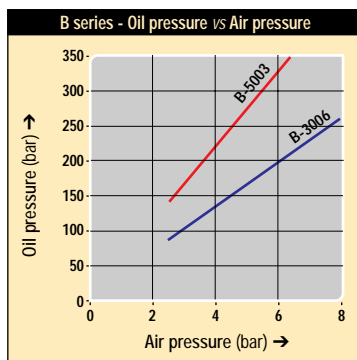
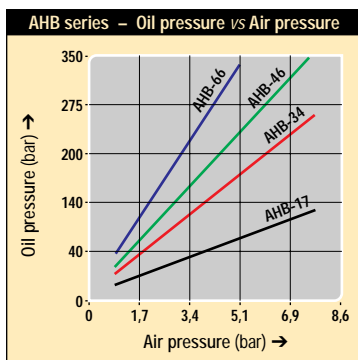
- One-shot spring return
- Aluminium construction
- Built-in stroke sensor for automatic cycle operation  
30 VDC switch closes 25 mm before end of full air piston stroke
- Internal self-bleeding  
Automatically purges air from system when booster piston is at highest point in circuit



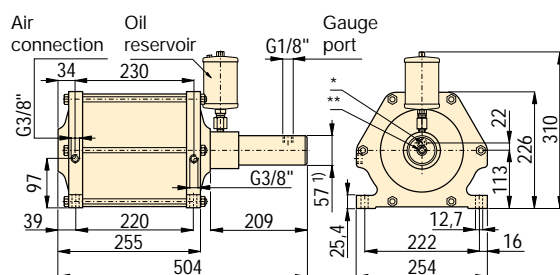
## i Hydraulic system schematics

Complete power systems eliminate 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



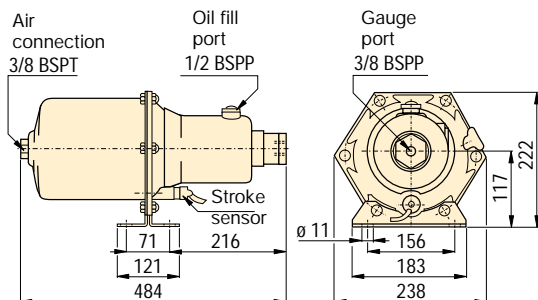
<sup>1)</sup> Ø 71,9 mm for model AHB-17

\* Oil connection (G1/4") for model AHB-17

\*\* Oil connection (G1/4") for model AHB-34, -46, -66

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

## B series



Ratio: 1:16 - 1:64

Pressure: 110 - 350 bar

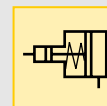
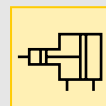
Oil flow: 60-295 cm<sup>3</sup>/stroke

Air: 27-64,1 dm<sup>3</sup>/cycle

**E** Multiplicadores

**F** Multiplificateurs

**D** Druckübersetzer



## Options

Air valves

97 ▶



HF-series  
Hydraulic oil

108 ▶



Fittings

110 ▶




## Important

Boosters can provide high oil flow rates based on the volume of incoming 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.

## Product selection

Oil pressure		Oil volume per stroke	Air to oil pressure ratio	Model number	Air consumption per cycle <sup>1)</sup>	Air piston diameter	Hydraulic piston diameter	Hydraulic stroke	Air operating pressure		
bar					dm³						
at 5 bar air pressure	at 7 bar air pressure				cm³	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	

<sup>1)</sup> One cycle = advance + retract stroke.

Note: Seal material: Buna-N, Polyurethane.