Symbol

Single pressure type Dual pressure type



- Features

* Shako booster is an efficient way of generating high pressure of hydraulic fluid.

- * Compact size design to save space and energy.
- * Suitable for shaping, forming, punching, riveting, shearing, welding, and testing industry.

How to order

AHS

Booster								
AHS Single pressure type								
AHD	Dual pr	Dual pressure type						

110

Intensified pressure ratio									
078	7.8 Doubles								
110	11 Doubles								
250	25 Doubles								

Repair kit

Model	Order code
AHS078	AHSSK078
AHD078	AHDSK078
AHS110	AHSSK110
AHD110	AHDSK110
AHS250	AHSSK250
AHD250	AHDSK250

Specifications

Model	AHSO78	AHS110	AHS250	AHD078	AHD110	AHD250					
Port size	3/8"	1/2"	1/2"	3/8"	1/2"	1/2"					
Discharging volume	50cc	120cc	120cc	50cc	120cc	120cc					
Fluid		Compressed air									
Working fluid		Hydraulic work oil viscosity									
Operating pressure range			2 ~ 7 k	kgf/cm ²							
Max. operating pressure			7 kg	f/cm ²							
Body material			Aluminu	ım alloy							
Ambient temperature		5°C ~ 60°C									
Mounting		Side foot type									
Weight	3.4 kg	10.1 kg	34.5 kg	3.1 kg	9.1 kg	33.5 kg					

Acting theory

The booster can transform low pressure input to high pressure output in a efficient way.

The method of calculation (Hydraulic cylinder force)

Piston area of hydraulic cylinder A=(Bore size)² X $\frac{\pi}{4}$ mm²

Booster output pressure P2=Intensified pressure ratio R X P (Air pressure MPa) Hydraulic cylinder force F=A X P2 = N

A: Piston area of hydraulic cylinder mm² P: Air pressure

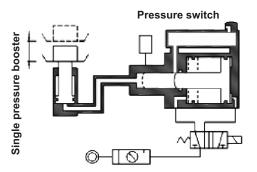
P2: Booster output pressure D: Bore size

F: Hydraulic cylinder force R: Intensified pressure ratio

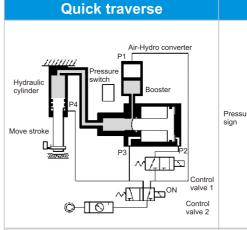
Single pressure booster

ISO-9001 QUALITY CERTIFIED

Optimum for high output short stroke cylinder.



Dual pressure booster



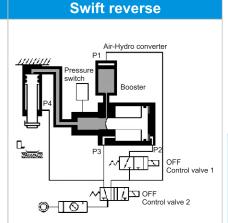
When the air is charged from the port P1, the oil in the tank will forward the hydraulic cylinder quickly.

The pressure is the same as the air pressure, but the inflow of oil is large in volume.

Intensified feeding

P2, a ram will advance.

The high pressured fluid will come in to the hydraulic cylinder which will be forwarded by large thrust.



When the air is charged from the port | When the air is send into port P4 and P3, the hydraulic cylinder is swiftly reversed and at the same time the ram goes back.

- Points in usage

- 1. The booster must be leveled, otherwise, hydraulic oil will be overflowing from exhaust port.
- 2. Standard booster are designed for use with petroleum base hydraulic oil.
- 3. The booster must be higher than the work cylinder. when hydraulic oil is filled, the air bubble will be automatically drained. If the booster is lower than the work cylinder, it is necessary to wait until the air bubble completely drained before installing the work
- 4. Fill hydraulic oil until the oil up to the mid of oil scale. Please do not overfill, this will make oil spray when booster operate.
- 5. Frequency of use should be 6 times/min or less.

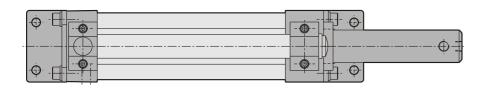
Compressed air consumption

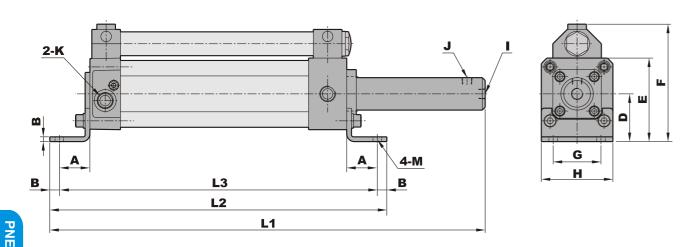
Model		Air pressure (MPa)									
Wodei	0.2	0.2	0.3	0.4	0.5	0.6	0.7				
AHS078 AHD0	78 2.4	2.4	3.19	3.98	4.78	5.56	6.36				
AHS110 AHD1	10 7.58	7.58	10.07	12.57	15.07	17.57	20.06				
AHS250 AHD2	250 18.09	18.09	24.06	30.02	35.99	41.95	47.92				

PNEUMATIC CYLINDER

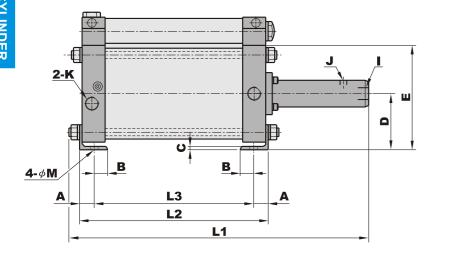
Dimensions-Single pressure type

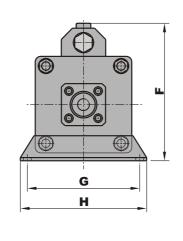
O AHS078, AHS110





AHS250



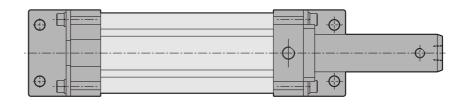


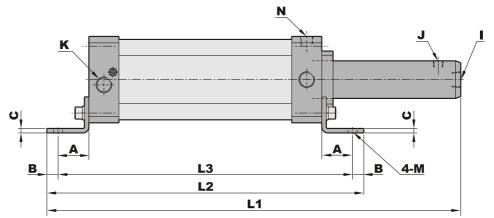
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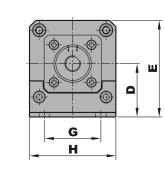
Model	A	В	C	D	E	F	G	Н		J	K	L1	L2	L3	M
AHS078	32	10	5	50	87.5	123	50	75	PS 1/4	PS 1/4	PS 3/8	456	353	333	9
AHS110	41	15	6	71	128.5	187.5	75	115	PS 1/2	PS 1/4	PS 1/2	551	422	392	14
AHS250	24	26	6	100	186	245	200	225	PS 1/2	PS 1/4	PS 1/2	534	336	284	14

Dimensions-Single pressure type

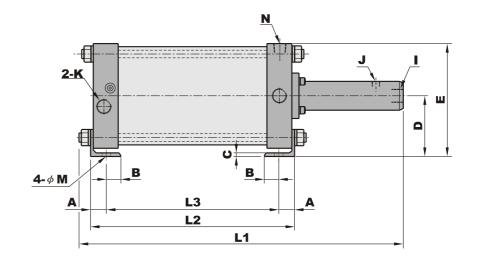
AHD078, AHD110

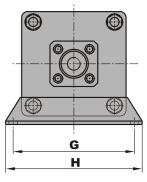






OAHD250





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