

**Description** The air amplifier compresses air or nitrogen from a standard pressure of 10 bar max. to the desired outlet pressure of 60 bar max. This is realised by cylinders with different ratios – simple, safe and economical. No electrical installation is required and there is no energy consumption once the final pressure has been reached. Service life 3 million cycles, full load operation 12 min max. per hour.

**Media** lubricated, unlubricated and 50 µm filtered compressed air or nitrogen

**Mounting position** any

**Power device** Cylinder with integrated reversing valve, check valve and silencer. The pressure will be increased selective to the consumer. No energy consumption once final pressure is attained.

**Drive pressure P<sub>A</sub>** system air to drive the air amplifier, 2...10 bar

**Supply pressure P<sub>1</sub>** max. 12 bar, for instance nitrogen or compressed air

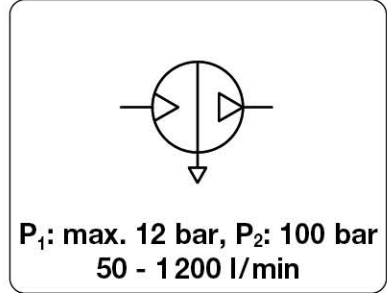
**Outlet pressure P<sub>2</sub>** amplified outlet or operating pressure of 20 bar to 100 bar maximum

**Continuous operation** 20% of the diagram values should maximally be realised at permanent running

**Temperature range** 0 °C to 60 °C / 32 °F to 140 °F

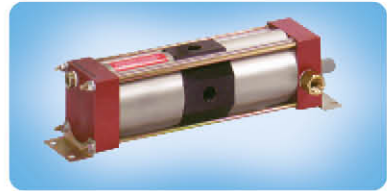
**Sound level** max. 79 dB (A)

**Material** Body: aluminium  
Seals: NBR/Buna-N



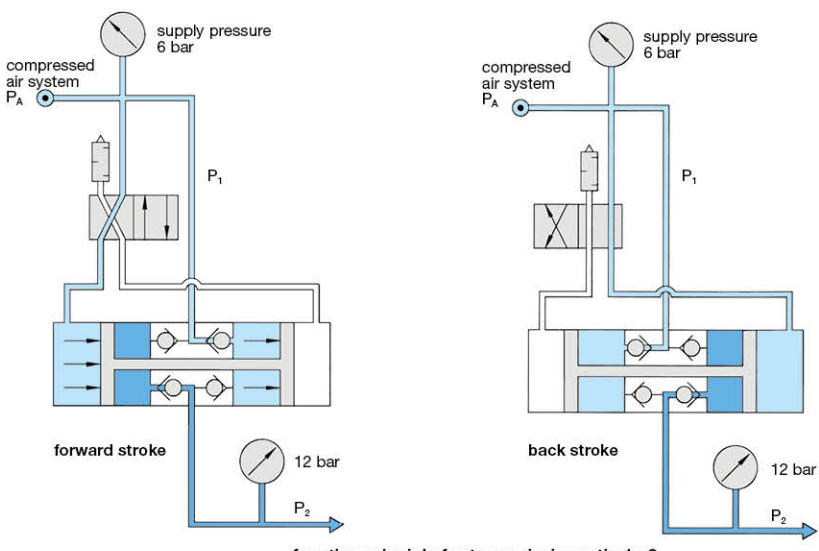
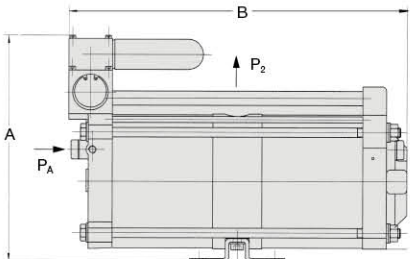
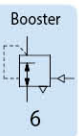
Dimensions			Weight kg	Connection thread G	Transmission ratio P <sub>A</sub> : P <sub>2</sub>	Flow rate l/min	P <sub>2</sub> max. bar	Order number
A mm	B mm	C mm						

Pressure booster / Air amplifier								supply pressure P <sub>1</sub> max. 12 bar, for compressed air	AM
								drive pressure P <sub>A</sub> 2...10 bar	
86	343	84	3.3	G <sup>3</sup> / <sub>8</sub>	1 : 2	580 <sup>*1</sup>	20	AM20-0580	
187	324	135	8.5	G <sup>1</sup> / <sub>2</sub>	1 : 2	960 <sup>*1</sup>	20	AM20-0960	
285	427	180	21	G <sup>3</sup> / <sub>4</sub>	1 : 2	1200 <sup>*1</sup>	20	AM20-1200	
180	392	135	8.5	G <sup>1</sup> / <sub>2</sub>	1 : 3	230 <sup>*2</sup>	32	AM32-0230	
80	220	80	2.2	G <sup>3</sup> / <sub>8</sub>	1 : 4	50 <sup>*3</sup>	40	AM40-0050	
251	471	176	16	G <sup>3</sup> / <sub>8</sub>	1 : 5	360 <sup>*4</sup>	60	AM60-0360	
180	421	135	20	G <sup>1</sup> / <sub>4</sub>	1 : 10	280 <sup>*5</sup>	100	AM100-0250	



### Special options, add the appropriate letter

- unlubricated operation seals FEC seals for dry compressed air or nitrogen AM...T
- Ex-Atex e.g. Ex II 3G/3D IIB x, more specifications possible AM...EX
- pressure booster for gas up to max. 1500 bar outlet pressure AM...G
- pressure booster for liquids AM...L



\*1 at 6 bar supply and 8 bar outlet pressure under full load  
 \*2 at 8 bar supply and 20 bar outlet pressure under full load  
 \*3 at 6 bar supply and 16 bar outlet pressure under full load  
 \*4 at 8 bar supply and 30 bar outlet pressure under full load  
 \*5 at 8 bar supply and 40 bar outlet pressure under full load

Calculation examples can be found in the appendix [www.aircom.net](http://www.aircom.net) PDF CAD

Order example: AM20-0580