

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_A system air to drive the air amplifier, 2...10 bar

Supply pressure P₁ max. 12 bar, for instance nitrogen or compressed air

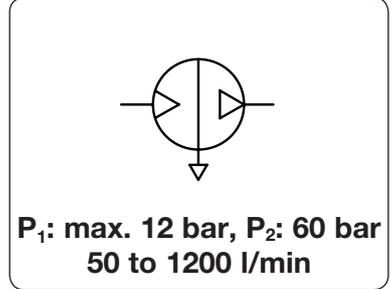
Outlet pressure P₂ amplified outlet or operating pressure of 20 bar to 60 bar maximum

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



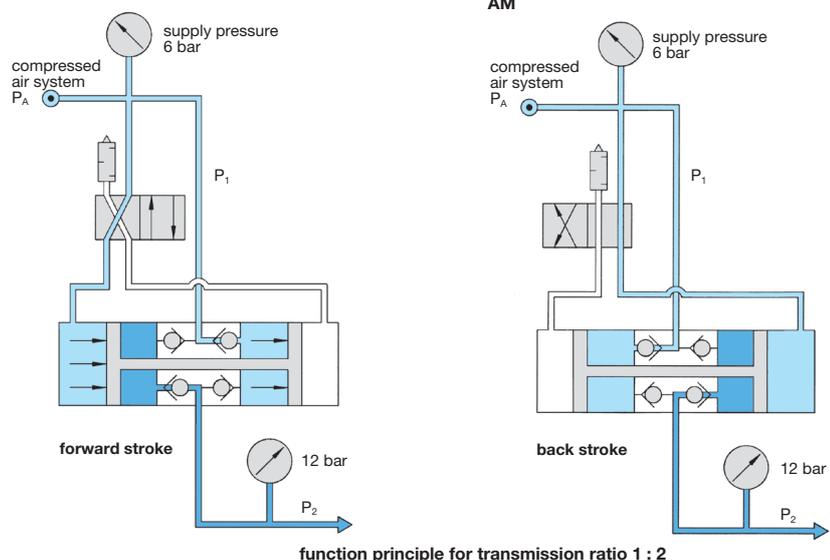
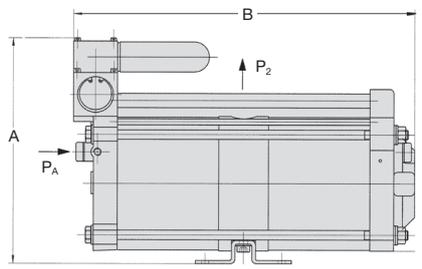
Dimensions			Weight kg	Connection thread G	Transmission ratio P _A : P ₂	Flow rate l/min	Outlet max. bar	Order number
A mm	B mm	C mm						

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



Special options, add the appropriate letter

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



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