

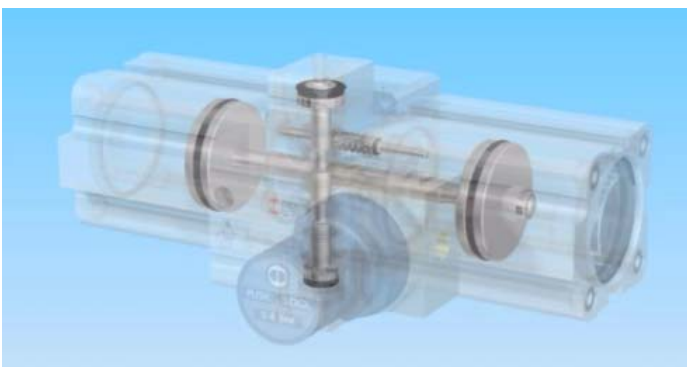
## New Product

### Pressure Booster - Air-Air pressure multiplication.

There are often times when the pressure available from your factory supply system is not enough for an application, how do you overcome this ?

One solution might be to upgrade the compressor system, but this is obviously an expensive option. Another solution is to boost the pressure locally where the higher pressure is required and hence the Pressure Booster.

The Booster is an air-air pump that uses air pressure to cycle backwards & forwards. Internally there is a main valve which changes the direction of the two pistons and a smaller valve that signals full travel has been reached in either direction.



At any time compressed air is acting on the top of one piston and the bottom of the other, high pressure air is delivered from the bottom of the other piston. In the diagrams (right) supply pressure is in blue, high pressure in red and exhaust air in yellow.

Air compressed at a ratio of 2:1 passes through a check valve which maintains the output pressure even when compressed air is no longer supplied to the Booster.

The Pressure Booster is typically used to build pressure in a reservoir which then supplies the high pressure device. Any components downstream of the booster need to be rated at the maximum pressure that can be generated (20bar).

Metal Work supply two versions of the Pressure Booster, one with a regulator and one without. The version without regulator will double the supplied pressure



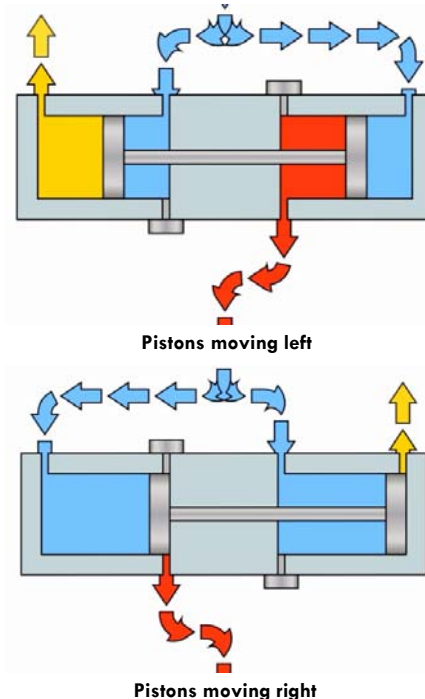
(max supply pressure 10bar). The version with the pressure regulator allows you to control the output pressure between the supply pressure and double the supply pressure.

The Booster is useful in applications where a cylinder is under-sized or maybe there is not enough space to install a larger cylinder.

Sometimes equipment requires a higher operating pressure than your factory system can supply so again the Booster locally increase the pressure for this application.

Currently the Booster is available in 40mm bore size but a 63mm bore will be with us early next year.

If you have an application that requires a pressure higher than your factory supply pressure or would just like further information on the Booster then please do not hesitate to contact us.



### Special Offer

The Metal Work 'Series A' fittings range cover reducers, nipples, elbows, blanking plugs, T and Y connectors with threaded connections. Most styles are available in 1/8" through to 1/2" with some styles also including M5 & 3/4"

The Series A fittings are nickel plated brass and rated to 60bar.

For the first quarter of 2008 you will receive an additional 10% discount off any series A fittings if you mention this offer.

**Offer JFM08**

