

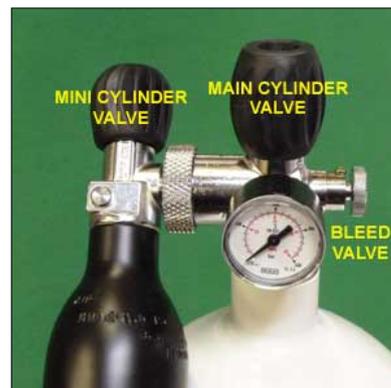
## Procedure for Filling a Standard Pre-Charged Air Rifle or Pistol using BEST Fittings "Day Tripper" Mini Charging Cylinders.

Initial filling of the mini cylinder will be necessary as it will arrive only part charged to comply with shipping regulations. As the max filling pressure of the cylinder is 250BAR, the valve is supplied with a 250BAR valve adaptor. If filling from a 300BAR dive cylinder, then you will need to drop the supplied brass spacer ring, pictured right, 'O' ring facing down, into the valve outlet before screwing onto the cylinder valve.



Then carefully follow the procedure as detailed in steps 1 to 7 below.

1. Attach the mini cylinder directly to your DIN connection using the hand wheel supplied. Use the supplied brass spacer ring if connecting to a 300 BAR cylinder, 'O' ring facing down, and observe 250 BAR maximum filling pressure of the mini cylinder.



2. Ensure that the bleed valve on the main cylinder is closed.
3. Fully open the valve on the mini cylinder. The pressure gauge on the main cylinder will now rise to the same pressure as the contents of the mini cylinder.
4. Now slowly open the main cylinder control valve. The air will start to fill the mini cylinder and the gauge pressure will slowly rise.
5. When the desired pressure is reached, close the main cylinder valve. Then close the mini cylinder valve.
6. Now bleed the air from between the valve heads by opening the main cylinder bleed valve. There should only be a very short air blast.
7. Disconnect the mini cylinder from the main cylinder by unscrewing the DIN hand wheel.

**Filling the gun from the Mini Cylinder is detailed in steps 8 to 17 below.**

8. Using the hex key supplied with your kit, carefully unscrew the centre retaining fitting from the DIN hand wheel. This will allow the hand wheel to come free.
9. Now install the short hose supplied with the kit into the valve. See below.



10. Assuming that the appropriate connector for filling the gun has already been fitted to the fill line, and that your gun has an on board gauge, attach the connector to the gun. See Note\*

11. For guns without an on board pressure gauge, in order to monitor the fill pressure we recommend that you use our Mini Cylinder Pressure Gauge Assembly, (Optional extra, BEST Fittings part no. 07A4-KT01). See below. The gauge assembly slips over the valve outlet stub after removing the hose or DIN hand wheel, and the core screws through to retain the gauge on the stub. This allows the gauge to rotate for a better viewing angle. The hose is then screwed onto the exposed male thread.



12. Now **SLOWLY** open the valve on the mini cylinder. At this point there is usually a pronounced click, or a squealing noise as the fill valve on the gun opens. This is quite normal.

13. The pressure shown on the gauge will then rise as the gun reservoir fills.

14. When the recommended fill pressure of the gun is reached, usually between 180 and 190 BAR, (higher for some FAC guns), close the mini cylinder valve. Do not be tempted to overfill the gun, as this will actually reduce the power output until the recommended maximum fill pressure is reached.

15. Allow the gun to rest for 10 to 15 seconds and if required top up the pressure to the recommended level, closing the cylinder valve on completion.

16. See note \*\* below. Now press the bleed valve knob located on mini cylinder valve to release the air in the valve head and hose. There will be a short blast of air as the stored pressure within the charging system is released.

17. Now you can safely remove the fill connector from the gun and the gun filling process is complete.

\* When connecting some guns with detachable air reservoirs the fill probe mechanically opens the fill valve. Ensure that all other connections to the Mini Cylinder are made before fitting the reservoir to the fill adaptor. Failure to observe this will cause any remaining air in the reservoir to vent out through the system.

\*\* Please note that on some guns, with detachable air reservoirs, it is necessary to unscrew the reservoir one complete turn from the fill adaptor prior to bleeding the system. Failure to observe this procedure will cause the air in the reservoir to vent out through the bleed valve.

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