

Procedure for Filling a Standard Pre-Charged Air Rifle or Pistol using a Dive Cylinder Gun Charging Head

- Attach the charging head to the cylinder valve by means of the large DIN screw or 'A' Clamp mount.



DIN Kit



'A' Clamp Kit

- Ensure that the bleed valve (knurled screw on the bottom) is fully closed.
- Assuming that the appropriate connector for filling the gun has already been fitted to the fill line, attach the connector to the gun. **See note: 1, overleaf.**
- For “Buddy Bottle” systems, i.e Theoben Rapid, BSA SuperTen etc, you can screw the buddy bottle directly into the charging head where the hose would usually go. Please ensure that the hard white seal supplied with the kit is in place before screwing the buddy bottle onto the system, as the bottle valve seals against this.
- Now **SLOWLY** open the valve on the cylinder. The pressure displayed on the gauge will rise quite quickly until it equalises with the pressure inside the gun. 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.
- The pressure shown on the gauge will then continue to rise at a slower rate, as the gun reservoir fills.
- When the recommended fill pressure of the gun is reached, usually between 180 and 190 BAR, (higher for some FAC guns), close the 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.
- Allow the gun to rest for 5 – 10 seconds and if required top up the pressure to the recommended level, closing the cylinder valve on completion.
- **See note: 2, overleaf.** Now turn the bleed valve located on the bottom of the charging head anti clockwise to release the air in the valve head. There will be a very short blast of air as the stored pressure within the charging system is released.
- Now you can safely remove the fill connector from the gun.
- The process is now complete.



NOTES:

Note 1. When connecting some guns with detachable air reservoirs, the fill probe mechanically opens the fill valve. Ensure that the bleed valve on your equipment is closed before connection. Failure to observe this will cause any remaining air in the reservoir to vent out through the bleed valve.

Note 2. 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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