

## HOW WE TESTED

Both guns use compressed air, stored in small reservoirs on the front of the guns, to propel pellets. To recharge the reservoirs, we purchased an 80-cubic-foot scuba tank and had the tank fitted with a European-spec DIN valve rather than the normal U.S. scuba valve. We filled the tank with 3,000 psi of air pressure, slightly above the service pressure maximum of 200 bar (2,900 psi) in the Anschütz cylinder, but well below the 300 bar (4,352 psi) service pressure max on the Morini.

In theory, charging these guns' air cylinders should have been a 1-2-3 process; but we encountered problems with connectors supplied with both guns.

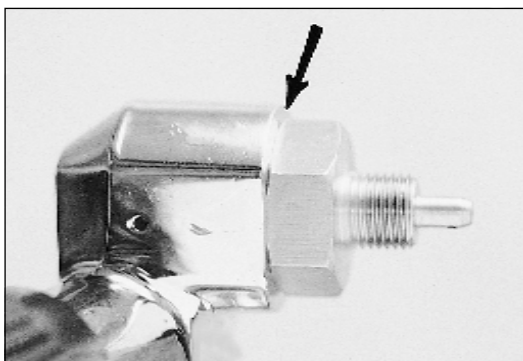
Ideally, the shooter inserts a threaded male DIN nipple into a female valve on top of the tank. Once the nipple is firmly seated in the tank valve with a wrench, which seals the rubber O-ring in the bottom of the tank valve, the shooter should be able to screw on an air cylinder and refill it. Once the air cylinder is seated into the brass DIN nipple, the shooter opens the scuba tank main valve slowly and allows air to enter the refillable cylinder.

Once the cylinder is filled (about 10 seconds), he then closes the main scuba-tank valve and unscrews the air cylinder. The charge should last about 200 rounds.

However, we encountered problems in this process. To get the Morini brass nipple to work, we had to machine metal off the connector to allow the DIN nipple to seat in the DIN valve. Similarly, we had to perform the same operation on the Anschütz aluminum nipple, and to facilitate inserting and removing the nipple, we cut flats on its circular end.



*Above: Our 80-cubic-foot scuba tank was fitted with a European-spec DIN valve rather than a U.S. valve.*



*Above and below left: To get the Morini nipple to work, we had to machine metal off the connector (arrows) to allow the DIN nipple to seat in the valve. Below right: The Anschütz nipple also needed relief, and we machined flat sides on the nipple to make tightening and loosening the nipple easier.*

