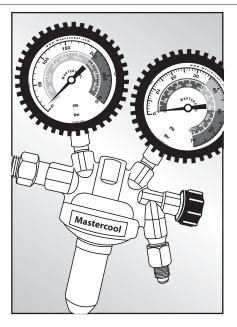


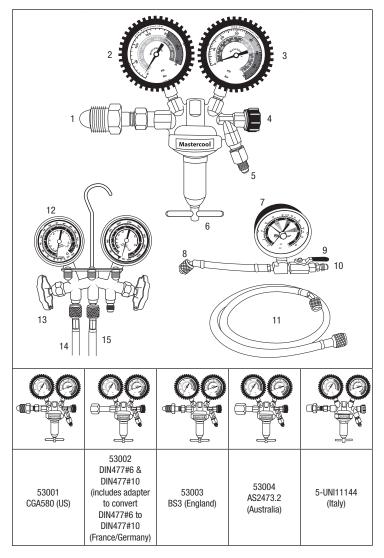
OPERATING INSTRUCTIONS

NITROGEN PRESSURE REGULATOR LEAK TESTING KIT



NITROGEN PRESSURE REGULATOR LEAK TESTING KIT

- Pressure regulation of Nitrogen (N2)
- Pressure testing refrigeration systems
- Leak-down testing of refrigeration systems
- Purging of refrigeration systems
- Only for use on nitrogen pressure cylinders



- No. Description
- 1. Cylinder Connection
- 2. High Side Gauge of Nitrogen Regulator (input)
- 3. Low Side Gauge of Nitrogen Regulator (output)
- 4. Output Control Valve
- 5. Charging Hose Connection on Regulator
- 6. Pressure Regulator T Handle
- 7. Leak Testing Gauge Assembly
- 8. Connection to Refrigeration System
- 9. Leak Testing Ball Valve Lever
- 10. Charging Hose Connection on Leak Testing Assembly
- 11. Charging Hose
- 12. Charging and Testing Manifold (not included in kit)
- 13. Low Side Valve on Manifold
- 14. Low Side Hose (blue)
- 15. Charging Hose (yellow)
- TECHNICAL DATA:

Connection:

- Model # 53001: CGA580 (US)
- Model # 53002: DIN477#6 & DIN477#10 (includes adapter to convert DIN477#6 to DIN477#10 (France/Germany)
- Model # 53003: BS3 (England)
- Model # 53004: AS2473.2 (Australia)

- 100 4500 PSI (7 300 Bar) High side
- 30 1000 PSI (2 70 Bar) Adjustment range
- Integrated Shutoff Valve

Safety Relief Valve: 725 PSI (50 Bar)

Gauge Diameter: 2 5/8 (68 mm) Not including guard

WARNINGS



- Only use with nitrogen gas (N2).
- The regulator is not to be used with liquid nitrogen.
- Do not modify the regulator. Doing so could result in personal injury.
- Do not over-pressurize the regulator. This could cause leakage, part damage or personal injury due to bursting of pressure-containing parts.
- Keep the regulator clean and free of oil.
- Do not use a damaged regulator. Except for replacing the gauges, do not attempt to repair the regulator.
- Failure to follow instructions can result in personal injury and/or damage to the equipment.
- Do not install this regulator where service conditions can exceed the specifications of any applicable local, state, or federal codes and regulations.
- Wear safety glasses and gloves.

REGULATOR CONNECTION AND USE

Note: The nitrogen regulator can be used with a charging hose and leak testing gauge assembly or a charging and testing manifold.

- Make sure the cylinder connection (1) is clean and free from damage.
- Turn the T handle (6) all of the way out (counter clockwise, looking from the bottom).
- Open the output control valve (4) to release any pressure, and then close it.
- Install the nylon gasket or O-ring, if the connection requires one.
- Install the regulator onto the cylinder. Do not over tighten the nut on gasketed connections.
- Connect the yellow charging hose (11) from the regulator to the leak testing gauge assembly, making sure the ball valve connection (9) is closed.
 (If using a manifold, connect the yellow charging hose (15) of the manifold to the regulator.)
- Connect the other end of the leak testing gauge assembly (8) to the system.
 (If using a manifold, connect the low side hose (14) from the manifold to the system.)
- Slowly open the cylinder valve. The high side gauge (2) should read the cylinder pressure.
- Adjust the regulator pressure by turning the T handle (6) clockwise until the required pressure (based on the system's refrigerant) is shown on the low side (output) (3) pressure gauge.

NOTE: This is a non-reliving regulator. To adjust the output pressure lower, some nitrogen will have to be released from the output (e.g. with no hoses connected, turn the T handle counter-clockwise, then open the output control valve and close it. The output gauge should read a lower pressure.)

 If using the leak testing gauge assembly, turn the red needle to the required refrigerant pressure.

Testing Range of Systems		
R134a	260 - 320 psi	18 - 22 bar
R404A	405 - 465 psi	28 - 32 bar
R404C	405 - 465 psi	28 - 32 bar
R507	405 - 465 psi	28 - 32 bar
R22	405 - 465 psi	28 - 32 bar
R410A	550 - 610 psi	38 - 42 bar

- Open the output control valve (4) and open the ball valve (9) on the leak testing gauge assembly for the nitrogen to flow into the system. (If using a manifold, open the output control valve (4) and the low side valve
- (13) on the manifold.)Make sure the required pressure is available on both gauges. (You may need to
- turn the T handle (6) on the regulator to adjust to the required pressure.)Once the pressure is equalized (make sure the black needle is aligned with the red
- marker on the leak testing gauge assembly) close the ball valve connection (9). (If using a manifold, close the low side valve (13) on the manifold making note

of the pressure when the valve is closed.)

- · Close the output control valve (4) on the regulator
- Disassemble the yelllow charging hose (11) from the regulator and leave the system for a period of time (time is based on the size of the system.)
- After some time, look at the gauge, if there is a leak in the system the pressure will have dropped from the original settting.

REGULATOR REMOVAL

- Turn the cylinder valve off.
- Relieve the pressure on the regulator by opening the output control valve (4). Both gauges should read zero.
- Slowly loosen the cylinder connection. There may still be some pressure between the regulator and cylinder.
- Completely remove the regulator.
- Clean and store the regulator in its box to prevent damage.