

# Minimess Nitrogen Gas Charging & Testing Kit 5114-21-03.KIT

- Safe & easy to use Minimess® charging & testing connections
- Connect & disconnect under full system pressure
- Minimess test points offer excellent system access versatility
- Simple hand tightening hose connection on to charging valves
- Low cost solution for charging of Minimess accumulator valves
- Life time leak free guarantee



**Nitrogen accumulators**  
**Fire suppression systems**  
**Mobile hydraulics**  
**Industrial hydraulics**

Minimess® gas charging kit for charging accumulators with Nitrogen or to check or reduce existing pre-charge pressure in accumulators.

**MINIMESS®**

**Gas Charging Kits & Accessories**

# 5114-21-03.KITX

## FEATURES

- Test under pressure using Hydrotechnik Minimess® connections up to 630 bar
- Connect & disconnect under full system pressure
- Life time leak free gurantee
- Minimess test points offer excellent system access versatility
- Simple hand tightening hose connection on to accumulator charging device
- User can charge or test pressure away from the accumulator

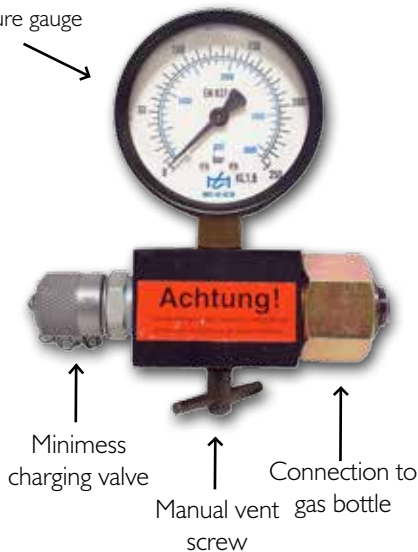
## KIT CONTENTS

- 1 x W24, 32 x 1/14" female to Minimess® 1620 charging & testing device with manual bleed valve
- 1 x W24, 32 x 1/14" male to 5/8" BSP male UK Nitrogen gas bottle adaptor
- 1 x 250 bar accumulator pressure gauge
- 1 x 630 bar rated Minimess® 1620 / 1615 pressure test hose - 5 metres long
- Additional accumulator Minimess adaptors on request (see below)

## OPERATING INSTRUCTIONS

Use of charging device 5114-21-03.00 only to fill a Nitrogen gas accumulator from a Nitrogen gas bottle or to drain or measure the pressure of a Nitrogen filled accumulator.

Pressure gauge



## CONNECTION EXAMPLES

Accumulator charging & testing device with Minimess connection & 2.5m long microbore hose to Minimess 1615 or 1620 accumulator charging valves.



Pressure gauge	Charging Connection	Cylinder connection thread
0-250 bar	MINIMESS® 1620 (Optional 1615 series on request)	W 24,32 x 1/14" (supplied with 5/8" BSP UK bottle adaptor)

### ORDER CODE

5114-21-03. KITX

1	Minimess 1615 charging valve G1/4" male
2	Minimess 1615 to 7/8" - 14 UNF adaptor *
3	Minimess 1615 to M28x1.5 adaptor *
4	Minimess 1615 to VG8 (Schrader style)
* 7/8-14 UNF and M28x1.5 options are permanent replacements only and require removal of original valve before fitting.	

Replace X with charging adaptor code required from table above  
Order with U suffix to receive complete adaptor set shown above  
Order with X for no charging valve adaptor

### Connection & operation:

1. Make sure, that the valve of the gas bottle is closed.
2. Make sure, that the venting screw of the charging device is closed (screwed clockwise towards the housing of the charging device until it stops).
3. Connect the charging device 5114-21-03.00 to the gas bottle first and secure carefully the swivel nut to the bottle connection or adaptor.
4. Unscrew the safety cap of the charging device's Minimess gas charging valve.
5. Unscrew the safety cap of the accumulator's gas charging valve.
6. First, connect a suitable microbore hose to the gas charging valve of the charging device and then connect the microbore hose to the gas charging valve of the accumulator.
7. Read the accumulator's pressure from the charging device's pressure gauge.
8. To increase the pressure, slowly open the valve of the gas cylinder until the desired pressure is reached
9. Close the valve of the gas bottle
10. Wait until the temperatures stabilises (Pressure will rise).
11. To lower the accumulator's pressure, slowly open the vent screw of the gas charging device, until the desired pressure is reached.

### Disconnection

12. Make sure that the valves of the charging unit are closed.
13. First, disconnect the Microbore hose from the accumulator and then disconnect the microbore hose from the gas charging valve of the charging device.
14. Screw the safety caps onto both gas charging valves (i.e. accumulator and charging device).
15. Disconnect the charging device from the gas bottle.