

Low cost solution for charging  
Minimess® accumulator valves.

## 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
- Life time leak free guarantee



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

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**Nitrogen accumulators**

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## FEATURES

- 1087-HYDRO device suitable for up to 300 bar operation.
- Connect & disconnect under full system pressure.
- Life time leak free guarantee.
- 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 1087-HYDRO** charging & testing device with W24,32x1/14" female bottle connection to Minimess 1620 charging hose connection. 0...250 bar pressure gauge.
- HT-236376** W24,32x1/14" male to 5/8" BSP male bullnose adaptor for UK N2 cylinders.
- 5414-02-10.00N** Minimess 1615 to VG8 or 5/16"-32 UNEF Schrader valve adaptor.
- 2446-16-30.00** Minimess 1615 to 7/8"-14 UNF accumulator valve adaptor (permanent adaptor, requires removal of original valve).
- 2446-18-30.00** Minimess 1615 to M28x1.5 accumulator valve adaptor (permanent adaptor, requires removal of original valve).
- 2402-01-18.00** Minimess 1615 to 1/4" BSP male charging valve.
- Seal Set.
- S100-AC-AC-02.50** Minimess 1620 charging & testing hose, 400 bar max, 2.5m long.\*

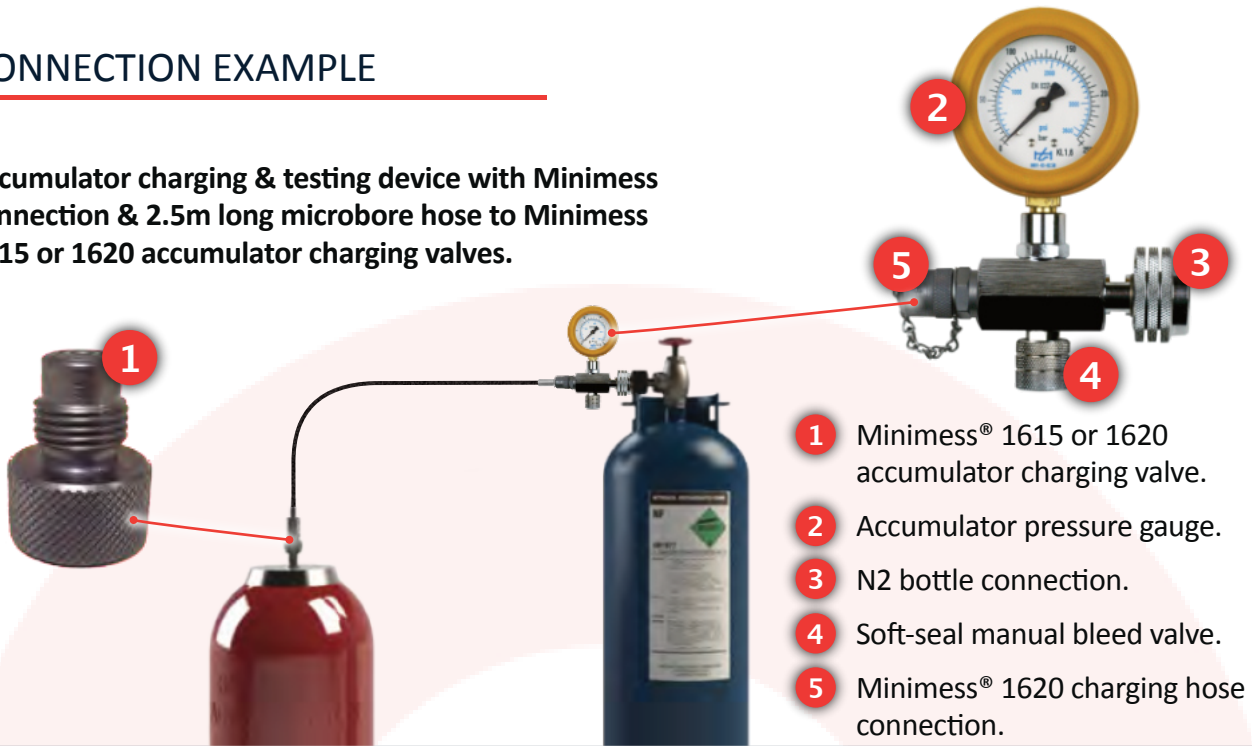


\*Any hose lengths available upon request.



## CONNECTION EXAMPLE

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



- 1 Minimess® 1615 or 1620 accumulator charging valve.
- 2 Accumulator pressure gauge.
- 3 N2 bottle connection.
- 4 Soft-seal manual bleed valve.
- 5 Minimess® 1620 charging hose connection.

## OPERATING INSTRUCTIONS

Numbers in red below refer to labelled images in connection example section above.

### Connection & operation

1. Ensure the gas bottle valve is closed.
2. Ensure the charging device bleed valve (4) is closed (screwed clockwise towards the housing of the charging device until it stops).
3. Connect the 1087-HYDRO charging device to the gas bottle, carefully securing the swivel nut (3) to the bottle connection or adaptor.
4. Unscrew the safety cap on the charging device's Minimess gas charging valve (5).
5. Unscrew the safety cap on the accumulator's gas charging valve.
6. Connect a suitable microbore hose to the gas charging valve on the charging device (5) and then connect the microbore hose to the gas charging valve on the accumulator.
7. Read the accumulator's pressure from the charging device's

pressure gauge (2).

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 stabilise (Pressure will rise).
11. To lower the accumulator's pressure, slowly open the bleed valve on the gas charging device (4) 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 (5).
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 (3).

## ORDERING CODES



Minimess 1615 to G1/4" BSP male



Minimess 1615 to 7/8" - 14 UNF female.  
(Requires removal of original valve)



Minimess 1615 to M28x1.5 female.  
(Requires removal of original valve)



Minimess 1615 to 5/16"-32 UNEF / Vg8 female (Schrader style)



Minimess M16 x 2 (1620)  
Minimess M16 x 1.5 (1615)

## 5114-21-03.KIT X

Replace X with the code for the required charging adaptor

- X = No valve or adaptor required
- 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)
- U = All adaptors shown above

\* 7/8-14 UNF and M28x1.5 options are permanent replacements only and require removal of original valve before fitting.



Add -D to product code for a digital pressure gauge fitted to the regulating & testing device.

See [hydrotechnik.co.uk/ddpg](http://hydrotechnik.co.uk/ddpg) to read more about the gauge.