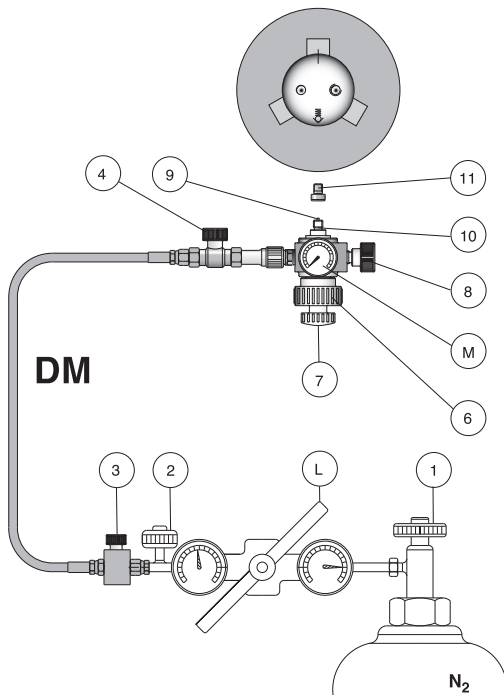


## SELF-CONTAINING CYLINDERS

### CHARGING OR INCREASING OF NOMINAL PRESSURE

1. Extend the rod completely (only in case of initial charging) and place the cylinder up side down onto a self-centering support.
2. Unscrew the charging hole plug (11).
3. Unscrew the hand grip (7) until the pin (9) is completely retracted.
4. Through the hand grip (6) screw the adapter (10) onto the charging hole.
5. Ensure that valves (3-4-8) are completely closed.
6. Slowly open the valves on the gas bottle (1) and on the outlet valve (2); then set the outgoing charging pressure by acting on lever (L).
7. Slowly open the valve (4) to pressurize the cylinder. Inside pressure appears on gauge (M).
8. Close the valve (4).
9. Open discharging valve (8).
10. Unscrew the adapter (10) from the charging hole through the hand grip (6).
11. Screw the plug (11) into the charging hole according to the tightening torque indicated in table 1.
12. Close the nitrogen bottle valve (1).



### LOWERING OF NOMINAL PRESSURE

1. Place the cylinder up side down onto a self-centering support.
2. Unscrew the charging hole plug (11).
3. Unscrew the hand grip (7) until the pin (9) is completely retracted.
4. Through the hand grip (6) screw the adapter (10) onto the charging hole.
5. Ensure that valves (3-4-8) are completely closed.
6. Screw the hand grip (7) until inside pressure of the cylinder appears on gauge (M).
7. Slowly open the discharging valve (8) to lower the internal pressure of the cylinder.
8. Screw the discharging valve (8) when reached the desired pressure as displayed on the gauge (M).
9. Unscrew the hand grip (7) until the pin (9) is completely retracted.
10. Unscrew the adapter (10) from the charging hole through the hand grip (6).
11. Screw the plug (11) into the charging hole according to the tightening torque indicated in table 1.

### ADAPTERS ADM (10)

CODE	MODEL
ADM01	ML1800÷12000 A
ADM02	HR300-5÷16 A, HR500-5÷16 A, HR700-13 A, HRF500-5÷16 A, HRF700-13 A, ML500 A, ML1000 A, LI400-13 A
ADM03	NE16 rev. A, NE24 rev. A, HR1000÷4200 A, HRF1000 A, LI900÷2000 A
ADM04	SC150 B, SC250 B, SCF250 A, H300 A, H500 A, HF500 A, HR300-25÷125 A, HR500-25÷125 A, HR700-19÷125 A, HRF300-25÷100 A, HRF500-25÷125 A, HRF700-19÷125 A, LI400-25÷100 A
ADM05	ML300 A
ADM06	HR200 A
ADM08	NE 16 rev. B, NE 24 rev. B, M50, M70, M90, M90-TBM/TBI/TEM, M200, M300, SC150÷ 250 D, H300÷500 C, RV170÷320 A/B, RV350÷2400 A, RS170÷320 A/B, RS350÷2400 A, ML300 B/C, KE400÷7500 A/B
ADM09	ML 500 B, ML1000 B
Directly with DM (with out adapter)	SC500÷10000 B/D, SCF500 A, SCF750 A, H700÷18500 A/C, HF700 A, HF1000 A, HR6600 A, LI3200 A, LS1500÷ 9500 A, RV4200÷20000 A, RS4200÷9500 A, RF750÷2400 A, ML1800÷12000 B/C, KE12000÷18500 A/B, S500÷3000, RT350÷9500 A, RG750÷6600

Table 1

### TIGHTENING TORQUE FOR CHARGING HOLE PLUG

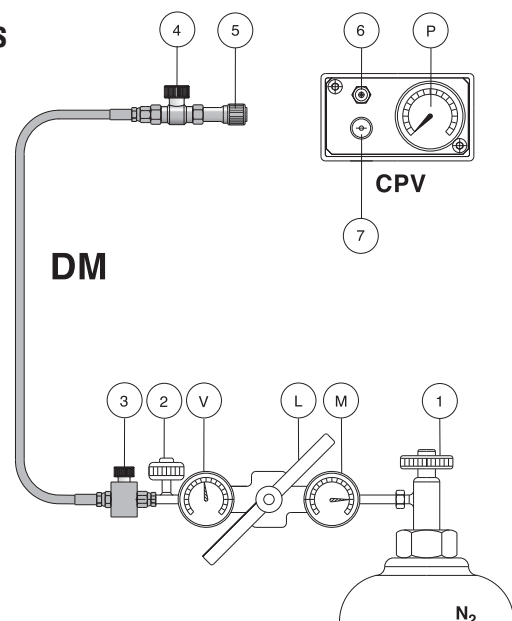
Plug M6	1,6 Nm
Plug G1/8"	25 Nm



Check regularly that the threads of the ADM.. adapters are undamaged.

## HOSED CYLINDERS

1. Check that all rods are completely extracted and in contact with the stop end surface.
2. Check that nitrogen bottle valve (1), outlet valve (2) and the discharging valves (3-7) are all completely closed.
3. Check that regulating pressure lever (L) is completely unscrewed.
4. Disconnect the end multidevice from the quick-fit female (5).
5. Connect the quick-fit female (5) to the male (6) on the control panel (CPV).
6. Slowly open the gas bottle valve (1) and read the bottle pressure on the gauge (M).
7. Slowly open the valve (2) and read the outgoing charging pressure on the gauge (V); then set the desired charging pressure by acting on lever (L).
8. Slowly open the valve (4) and system charging pressure appears on gauge (P).
9. Close the valve on the outlet valve (2) and open discharging valve (3) to leak all nitrogen gas in the hose.
10. Disconnect quick-fit coupling (5) from the control panel.
11. Close nitrogen bottle valve (1).
12. It is possible to lower system pressure by acting through discharging valve (7).



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