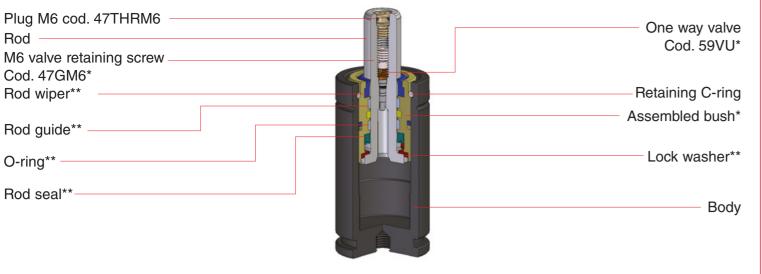
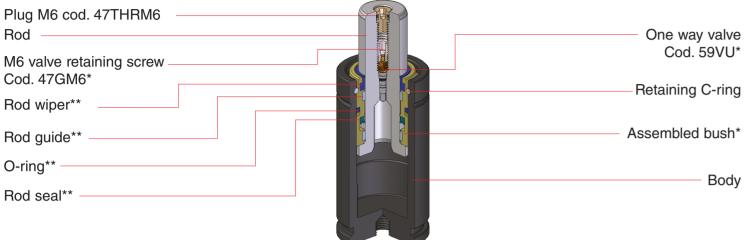
## SC 150 B ÷ SC 250 B SCF250 A

\* included in the mainenance kit \*\* included in the assembled bush

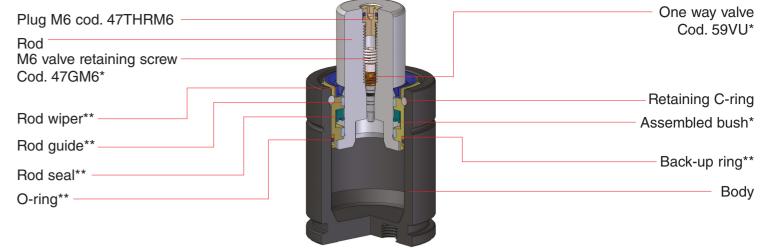


H 300 B ÷ H 500 B HF 500 A \* included in the mainenance kit \*\* included in the assembled bush

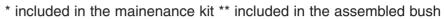


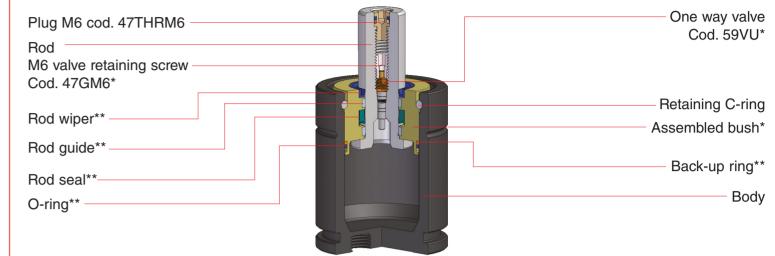
### HR 300 A (Cu 19 ÷ 125) HR/HRF 500 A (Cu 19 ÷ 125) HR/HRF 700 A (Cu 19 ÷ 125)

\* included in the mainenance kit \*\* included in the assembled bush



LI 400 A





lifeplus

Cod. 39DMA The DM1 multi device is designed and built to facilitate cheking, decreasing/increasing pressure or pressurising self-contained cylinders or hosed systems. It consists of two units: Main (39DMCILA) and secondary (39DMCPVA).

#### Cod. 39DMCPVA

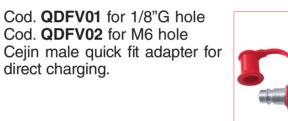
3 meters of high pressure hose, 1 female Cejn quick fit, 1 ON/OFF valve, 1 shut off valve and 1/2-20 UNF male coupling to connect to the nitrogen bottle.

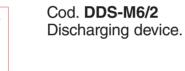
Cod. 58CE03 for M6 thread Cod. 58CE05 for 1/8"G thread Hex T-key to remove charging hole plug and valve retaining screw.



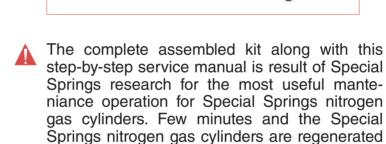








direct charging.



NITROGEN	CYI IN	DFRS	ΜΔΙΝΤ	FNANCE	: кіт
MITHOGEN		DLNS		LINANCL	

SC150B	Code	39BMSC00150B
SC250B;SCF250A	Code	39BMSC00250B
HR300A Cu 19 ÷ 125	Code	39BMHR00300B
HR/HRF500A Cu 19 ÷ 125	Code	39BMHR00500B
HR/HRF700A Cu 19 ÷ 125	Code	39BMHR00700B
H300B	Code	39BMH00300B
H500B;HF500A	Code	39BMH00500B
LI400A	Code	39BML100400A



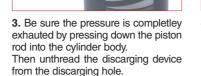
#### I. DISCHARGING + VALVE REMOVAL for self-contained cylinders.



**1.** Remove the protective screw cap from the charging hole M6 by using the hex key (58CE03). Preserve the screw cap from reassembly.



2. Thread the discarging device (DDS-M6/2) on the charging hole then exhaust completley the gas. For safety point the gas flow away from the operator.



4. Unthread the valve retain-ing screw by using the hex key (58CE03). Preserve the valve retaining screw for reassembly.



21. Set the positioning tube on the upper part of the cylinder body, then manually insert the piston-rod and the assembled bushing into the positioning tube. 49TB... positioning tube.

cylinder body, the piston rod and the assembled bushing. 49TB... conical centring guide tube. 39PM02 manual press.

the rod in contact with the upper side

of the assembled bushing, then by

the manual press, press down into the



23. Position the retaining C-ring into the conical centring guide tube.

24.Insert the positioning tube in contact with the retaining C-ring , then by the manual press, press down the retaining C-ring into the groove. When the C-ring enter correctly into the groove you will hear a loud like "CLICK". 49TB... conical centring guide tube. 39PM02A manual press.

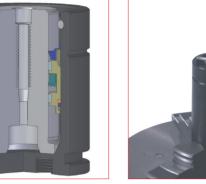


5. Hang and remove the one way valve from the conical lodging site by using the proper tool (39EVU).

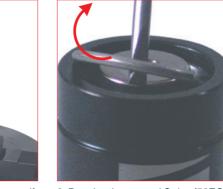
#### **II. RETAINING RING REMOVAL.**



6. Position the anti scratch nylon removal tube on the cartridge (49TN...) then by the manual press (39PM02A) press all down into the body for about 20-25 mm. The retaining ring is now free for an easy removal.



6.1. Cut of the cylinder to see the right 7. Clamp the cylinder into a selfposition of the cartridge and C-ring centring chuck or a wise. after operation #6.



8. By using the removal C-ring (58EC) hook up the retaining C-ring. Preserve the retaining C-ring for reassembly.

25. After threading the T-handle M6 (58EM06) into the rod head threaded hole, pull completley the unit pistonrod and bushing.

25.1 Cut off of the piston-rod, bushing and retaining C-ring correctly positioned.

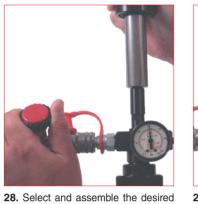
#### VIII. CHARGING AND FORCE TEST for self-contained cylinders.



26. Check the correct assembly of the pressare regulation valve on the gas bottle, then open the main tap. The gauge on the left will indicate the bottle pressure. 39R... pressure regulation valve.



27. Adjust the required maximum pressure trought the regulation valve. The gauge on the right will indicate the maximum allowed pressure to charge the cylinder. 39R... pressure regulation valve.





pressure, for an easy and safety work carefully follow the instructions supplied with the charging unit. **39DMA** charging unit.

#### **III. PISTON ROD + CARTRIDGE REMOVAL.**



9. By using the T-handle (58EM06) 10. Then slide off the bushing from extract the piston-rod and the bushing



the rod and discard the bushing.

11. Carefully check and clean the 12. Carefully check and clean the piston-rod. If the piston-rod shows any

screw (47GM6)



30. When directly charging throught 31. Unthread and relase the the adapter and desired pressure is adapter from the charging hole. charging adapter and thread it on the charging port. For an easy and safety work carefully follow the instructions supplied with the charging unit. DO NOT exceed the maximum pressure indicated for any specific model 39DMA charging unit.



**32.** More precise force control can be **33.** It is always recommended to carried out by using the digital force

check leaks on the charging port after the maintenance work and before re-using the cylinders by using the special gas detector. 39RFG Special Springs gas detector.

#### VII. REASSEMBLY OF THE RETAINING C-RING.

from the body.

# replace it with a new one.

**IV. CLEANING AND INSPECTION.** 

cylinder body. piston-rod. If the piston-rod shows any dam- age, wear or scratch do not use age or wear do not use it again and the it again and replace it with a new one.

M6 one way valve (59VU) M6 one way valve retaining

reached shut off the hose and bottle valves and disconnect the the guick fit coupling. the charging unit. 39DMCPVA charging unit.



34. It is always recommended to check leaks on the upper side of the cylinders after the maintenance work and before re-using the cylinders by using the special gas detector. 39RFG Special Springs gas detector.

35. Thread the protective screw into the charging hole by using the appropriate tool. 58CE05 for 1/8G charging port.

testing rigs. FT... Digital force tester **IPCDIG** Digital force tester

#### **V. VALVE REASSEMBLY.**



**13.** Carefully clean through the charging hole with an air gun, then drop the new one way valve into the conical hole.

14. Cut off of piston-rod with the one way valve correctley positioned. Make easier the positioning by a light turning made by using the proper tool (47ASVU).

15. By using the hex key (58CE03) thread the one way valve retaining screw M6 (47GM6). Pay attention to not tight exessively the retaining

#### 15.1 Cut off of piston-rod with the one way valve and the M6 one way valve retaining screw correctley positioned.

screw to avoid damage on the one way valve. Torque force requied max N 0,6.

#### VI. REASSEMBLY OF PISTON-ROD AND CARTRIDGE.



16. Take the new assembled bushing and grease inside all over by using the specific Special Springs grease compound supplied with the repair kit.



17. Manually or by using the manual press (39PM02A) insert the assembled bushing into the rod. Be care to position it on the right side, follow the

laser print arrows on the bushing.



ing to the piston shoulder.



19. Grease the O-ring on the assembled bushing with the specific Special Springs grease compound supplied with the repair kit.

For an easy and safety work carefully follow the instructions supplied with 39QDFV... adapter for direct charging.



58CE03 for M6 charging port.



Мо	€±∕. OIL	
SC1	1,5 ml	
SC250B	SCF250A	2,5 ml
H3	1,5 ml	
H500B	H500B HF500A	
HR300	1,5 ml	
HR/HRF50	2 ml	
HR/HRF70	2,5 ml	
LI4	2 ml	

20. Lubrificate inside the cylinder body with the specific Special Springs oil supplied with the repair kit. Be care to the quantity as indicated for each cylinder model.

Мо	۹۲ OIL	
SC1	1,5 ml	
SC250B SCF250A		2,5 ml
H30	1,5 ml	
H500B	HF500A	2,5 ml
HR300 -	1,5 ml	

NOTE: Each oil dispenser contains a volume of 5 ml.