



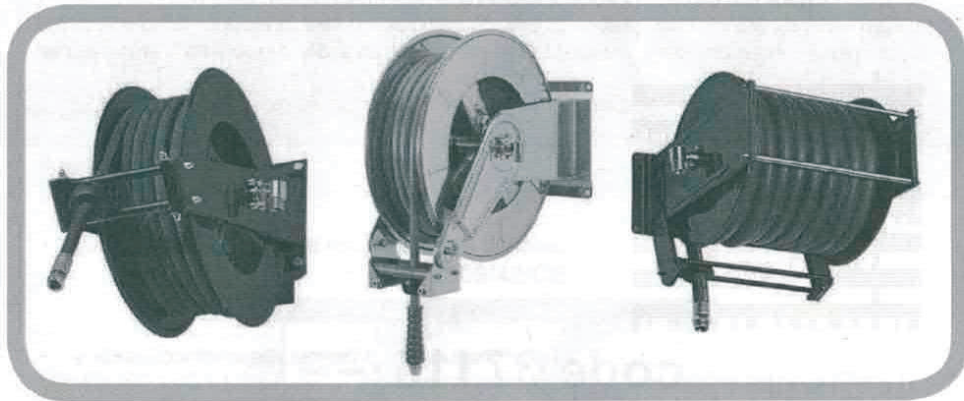
rev. 10/2013

IT

**MANUALE D'USO E MANUTENZIONE  
AVVOLGITUBO**

GB

**HOSE REELS  
INSTRUCTION MANUAL**



35300	35300B	35400	35810	35812	35815	36100	36150	36160	36165	36200
36200B	36206	36208	36210	36215	36216	36217	36270	36271	36272	36300
36400	36470	36475	36480	36485	36490	37115	37115B	37116	37117	37118
37120	37120B	37130	37140	37141	37142	37143	37145	37146	37147	37148
37150	37490	38100	38110	38120	38130	38140	38150	38160	38180	38190
38200	38300	38350	38360	38361	38370	38380	38400	39120	39130	39140

**STATEMENT OF CONFORMITY**

**OMPI S.r.l.**

Via Salvo d'Acquisto 10  
42020 Albinea (RE) - Italy

The undersigned Ruozi Franco as legal representative of the company OMPI Srl  
which person authorized to compile the technical file and store,

**DECLARES**

under his own responsibility

that the reels with the following codes:

35300	35300B	35400	35810	35812	35815	36100	36150	36160	36165	36200
36200B	36206	36208	36210	36215	36216	36217	36270	36271	36272	36300
36400	36470	36475	36480	36485	36490	37115	37115B	37116	37117	37118
37120	37120B	37130	37140	37141	37142	37143	37145	37146	37147	37148
37150	37490	38100	38110	38120	38130	38140	38150	38160	38180	38190
38200	38300	38350	38360	38361	38370	38380	38400	39120	39130	39140

MODEL:

SERIAL NUMBER:

YEAR:

- conform to the essential requirements of the Directive:  
**2006/42/CE**

- and also comply with the following harmonized standards:

UNI EN ISO 14121-1:2007	Safety of machinery - Risk assessment Part 1;
UNI EN ISO/TR 14121-2:2010	Safety of machinery - Risk assessment Part 2;
UNI EN ISO 12100-1:2009	Safety of machinery Part 1;
UNI EN ISO 12100-2:2009	Safety of machinery Part 2;

*Ruozi Franco*  
OMPI S.r.l. legal Representative  
Albinea (RE) Italy 01 May 2013



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GB

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SYMBOLS

Below we give a short legend indicating the symbols used (the symbols given are the ones most used in this booklet; the remaining symbols are anyhow easy to understand).



**DANGER**

draws attention to situations or problems that may jeopardize the safety of persons due to injury or the risk of death.



**CAUTION**

draws attention to situations or problems connected with the efficiency of the machine that do not jeopardize the safety of persons.



**PROHIBITED**

do not carry out the operations indicated since this would jeopardize the level of efficiency/safety of the machine.



**IMPORTANT**

draws attention to important information of a general nature that jeopardizes neither personal safety nor the good operation of the machine.



**RIGHT**

indicates that the method of carrying out the operations is right.



**WRONG**

indicates that the method of carrying out the operations is wrong.



## 1. INTRODUCTION

### 1.1 DESCRIPTION.

In the present using and maintenance manual the automatic hose reel (with spring), having different technical particulars to satisfy the different requirement of the workers, are illustrated:

• **Steel models:**

The equipment is made with the carbon steel or stainless steel and are suitable for flexible hoses for grease, oil, water and air. The equipment have different models, that changes for the presence (or absence) of the cabinet, that don't allow with moving parts, for the dimensions (diameter and length) of the hose that the worker can connected.

- **Hose reel Mod. 35810-35815-35812:** this is an automatic hose reel whit external plastic cabinet; that equipment is suitable for air and water.

- **Cabinet models:** preserve the contact with parts moving o with parts in high tension.

- **Spring models:** This machine is manufactured in order to avoid that the hose for air pressure, oil, grease diesel oil,.... used in the different working stages are left, after using, on the floor. All the equipments are provided with a spring that make easy the return of the hose in the starting position (hose completely rewind in the hose) and that make easy the work of the operator.

Standard Series	
Painted steel	Stainless steel
Mod.	Mod.
37115	38200
37120	38300

Big Series	
Painted steel	Stainless steel
Mod.	Mod.
36485	37147
36480	37148

LS Series	
Black painted steel	
	36271
	36272
	36270
	38150
	38160
	38180
	38190

Adjustable Arms Series	
Painted steel	Stainless steel
Mod.	Mod.
36200B	37130
36206	37140
36208	37150
36210	37142
36215	37143
36216	
36217	
36470	
36475	
37115B	
37116	
37117	
37118	
37120B	

Plastic Series	
	35810
	35815
	35812

Enclosed Series	
Painted steel	Stainless steel
Mod.	Mod.
35300	38370
35300B	38380
35400	

Mechanical Series	
Painted steel	Stainless steel
Mod.	Mod.
36490	37490

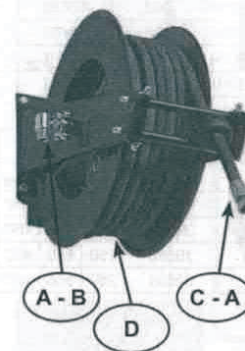
Twin Springs Big Series	
Painted steel	Stainless steel
Mod.	Mod.
36400	37146

Manual Series	
Stainless steel	
	38100
	38110
	38130
	38120
	38140
	39130
	39120
	39140

Heavy Duty Series	
Painted steel	Stainless steel
Mod.	Mod.
36150	38350
36160	38360
36165	38361
36200	38400
36100	37141
36300	37145

### 1.2 REMAINING RISKS AND SAFETY STICKERS.

Figure 1 shows the areas at greater risk, with the related stickers showing the remaining risk and the main components comprising the machine, according to the instructions given below:



**Main components and risks**

- A. Parts in pressure
- B. Connection-entrance
- C. Connection-exit
- D. Moving parts

Carefully read the operating and maintenance booklet.

In case of need, only call our authorized area dealer.

### 1.3 NON-ADMITTED USES

- Don't use the equipment with liquid aggressive (ex. acid or solvent). Always obtain the safety file of the materials used and follow the instructions contained therein (contact competent technical personnel to choose correctly the liquid).
- Don't use the equipment with liquid meter (gun) for the direct sale to the public.**

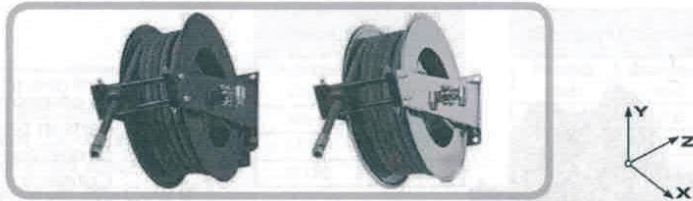


## 2. TECHNICAL PARTICULARS

Below we give the essential technical particulars of the models.

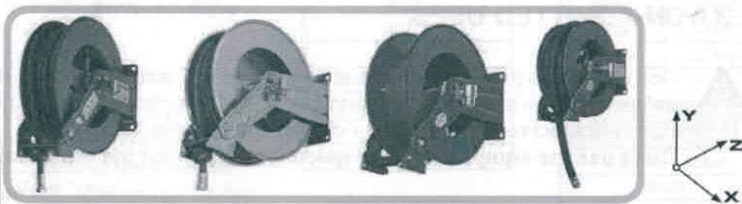
### 2.1 OVERALL DIMENSIONS AND WEIGHTS

#### Standard Series



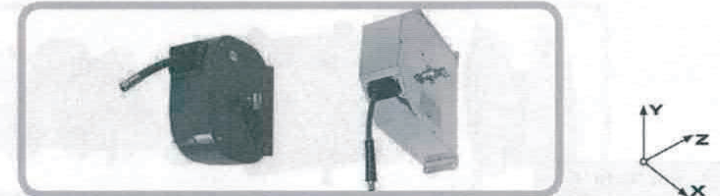
Model	Max pressure bar	Connections In - Out	Bore of swivel joint mm	Max Hose Ø	Max Hose length m	Weight kg	Spool width mm	Swivel Bracket on request	Sizes		
									X mm	Z mm	Y mm
37115	600	M1/2" - F1/2"	10	1/2"	15	13	120	39535	250	550	450
37120	600	M1/2" - F1/2"	10	1/2"	20	18	150	39502	260	550	450
38200	200	M1/2" - F1/2"	10	1/2"	15	13	120	39600	250	550	450
38300	200	M1/2" - F1/2"	10	1/2"	20	18	150	39601	260	550	450

#### Adjustable Arms Series



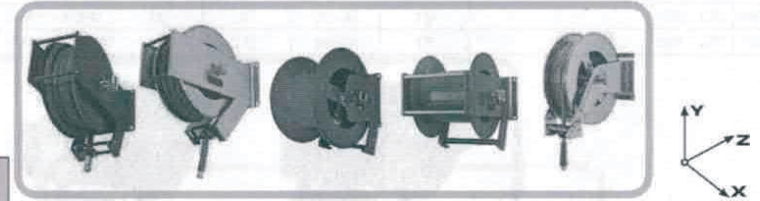
Model	Max pressure bar	Connections In - Out	Bore of swivel joint mm	Max Hose Ø	Max Hose length m	Weight kg	Spool width mm	Swivel Bracket on request	Sizes		
									X mm	Z mm	Y mm
37115B	600	M1/2" - F1/2"	10	1/2"	15	13	120	39535	240	550	450
37120B	600	M1/2" - F1/2"	10	1/2"	20	18	150	39502	260	550	450
37130	200	M1/2" - F1/2"	10	1/2"	15	13	120	39600	240	550	450
37140	200	M1/2" - F1/2"	10	1/2"	20	18	150	39601	260	550	450
37150	20	M 1" - F3/4"	20	3/4" - 1	8 - 13	14	150	39601	260	550	450
36470	600	M1/2" - F1/2"	10	1/2"	35	26	150	39505	260	590	600
36475	20	M 1" - F 1"	20	1"	13 - 20	26	150	39505	260	590	600
37142	200	M1/2" - F1/2"	10	1/2"	35	26	150	39605	260	590	600
37143	20	M 1" - F 1"	20	1"	13 - 20	26	150	39605	260	590	600
36210	20	M 1" - F 1"	20	3/4"	13	18	150	39506	-	-	-
36208	20	M 1" - F 1"	20	1"	8	18	150	39506	-	-	-
36206	20	M 1 1/4" - F 1"	20	1 1/4"	6	18	150	39506	-	-	-
36215	20	M 1" - F 1"	20	3/4"	17	20	200	36220	-	-	-
36216	20	M 1" - F 1"	20	1"	10	20	200	36220	-	-	-
36217	20	M 1 1/4" - F 1"	20	1 1/4"	7	20	200	36220	-	-	-
36200B	20	M 1" - F 1"	20	3/4" - 1	8 - 13	18	150	39506	-	-	-

#### Enclosed Series



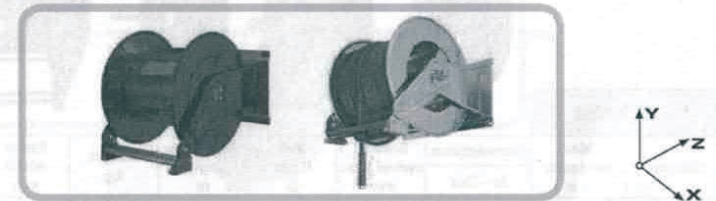
Model	Max pressure bar	Connections In - Out	Bore of swivel joint mm	Max Hose Ø	Max Hose length m	Weight kg	Spool width mm	Swivel Bracket on request	Sizes		
									X mm	Z mm	Y mm
35300	600	M1/2" - F1/2"	10	1/2"	15	26	120	39507	130	550	450
35400	600	M1/2" - F1/2"	10	1/2"	20	27	150	39507	160	550	450
38370	200	M1/2" - F1/2"	10	1/2"	15	26	120	39604	130	550	450
38380	200	M1/2" - F1/2"	10	1/2"	20	27	150	39603	160	550	450
35300B	20	M1" - F1"	20	3/4"	8 - 13	26	150	39507	-	-	-

#### Heavy Duty Series



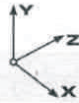
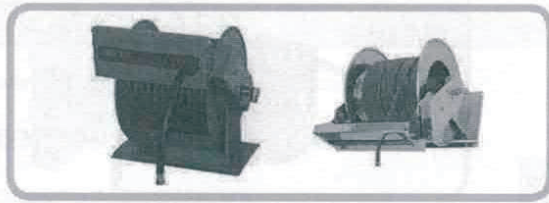
Model	Max pressure bar	Connections In - Out	Bore of swivel joint mm	Max Hose Ø	Max Hose length m	Weight kg	Spool width mm	Swivel Bracket on request	Sizes		
									X mm	Z mm	Y mm
36150	600	M1/2" - F1/2"	10	1/2"	20	21	150	39502	300	550	450
38360	20	M 1" - F 1"	20	1 - 3/4"	12 - 13	18	120	39602	300	550	450
38400	200	M1/2" - F1/2"	10	1/2"	20	21	150	39601	300	550	450
36200	20	M 1" - F 1"	20	1"	8	18	150	39502	300	550	450
38350	200	M1/2" - F1/2"	10	1/2"	15	21	120	39600	300	550	450
36160	20	M 1" - F 1"	20	1"	8 - 12	21	150	39502	550	550	450
36165	20	M 1" - F 1"	20	1"	15 - 18	24	300	39500	550	550	450
36100	20	M 1" - F 1"	20	1"	15 - 18	26	300	39505	460	540	460
36300	600	M1/2" - F1/2"	10	1/2"	25	36	250	39505	360	550	540
37141	200	M1/2" - F1/2"	10	1/2"	25	26	250	39605	460	540	460
38361	20	M 1" - F 1"	20	1"	15 - 18	36	300	39605	360	550	540
37145	200	1/2" - 1/2"	10	1/2"	40	36	-	39500	420	530	550

#### Big Series



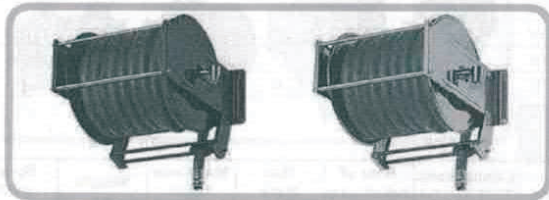
Model	Max pressure bar	Connections In - Out	Bore of swivel joint mm	Max Hose Ø	Max Hose length m	Weight kg	Spool width mm	Swivel Bracket on request	Sizes		
									X mm	Z mm	Y mm
36480	600	M1/2" - F1/2"	10	1/2"	60	50	400	-	590	590	590
36485	20	M 1" - F 1"	20	1"	30	50	400	-	590	590	590
37147	200	M1/2" - F1/2"	10	1/2"	60	50	400	-	590	590	590
37148	20	M 1" - F 1"	20	1"	30	50	400	-	590	590	590





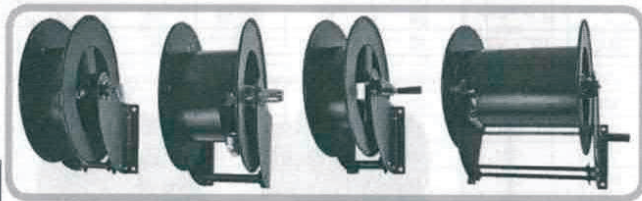
**Mechanical Series**

Model	Max pressure bar	Connections In - Out	Bore of swivel joint mm	Max Hose Ø	Max Hose length m	Weight kg	Spool width mm	Swivel Bracket on request	Sizes		
									X mm	Z mm	Y mm
36490	600	M1/2" - F1/2"	10	1/2"	60	69	400	-	590	650	590
37490	200	M1/2" - F1/2"	10	1/2"	60	69	400	-	590	650	590



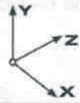
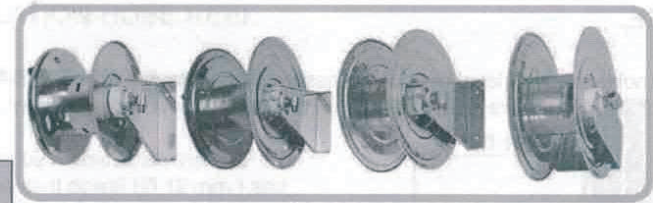
**Twin Springs Big Series**

Model	Max pressure bar	Connections In - Out	Bore of swivel joint mm	Max Hose Ø	Max Hose length m	Weight kg	Spool width mm	Swivel Bracket on request	Sizes		
									X mm	Z mm	Y mm
36400	20	M 1" - F 1"	20	1"	25 - 30	36	400	-	520	550	540
37146	20	M 1" - F 1"	20	1"	25 - 30	36	400	-	520	550	540



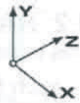
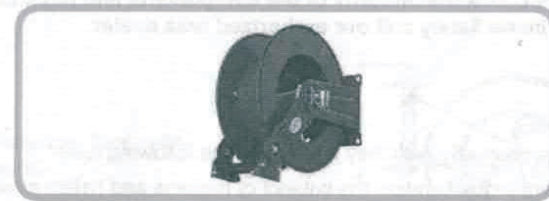
**LS Series**

Model	Max pressure bar	Connections In - Out	Bore of swivel joint mm	Max Hose Ø	Max Hose length m	Weight kg	Spool width mm	Swivel Bracket on request	Sizes		
									X mm	Z mm	Y mm
36271	600	M1/2" - F1/2"	10	1/2"	15	12	120	39535	250	530	480
36272	600	M1/2" - F1/2"	10	1/2"	20	18	150	39502	280	530	480
36270	20	M1" - M1"	20	1"	8	14	150	39502	280	530	480
38150	600	M1/2" - F1/2"	10	1/2"	15	8	120	39535	250	530	480
38160	600	M1/2" - F1/2"	10	1/2"	20	9	150	39502	280	530	480
38180	20	M1" - M1"	20	1"	10	12	200	39500	320	530	480
38190	20	M1" - M1"	20	1"	20	15	400	39604	480	530	480



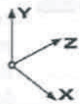
**Manual Series**

Model	Max pressure bar	Connections In - Out	Bore of swivel joint mm	Max Hose Ø	Max Hose length m	Weight kg	Spool width mm	Swivel Bracket on request	Sizes		
									X mm	Z mm	Y mm
38100	200	M1/2" - F3/8"	10	1/2"	15-20-22	9	-	-	300	390	330
38110	200	M1/2" - F1/2"	10	1/2"	35-50-60	13	-	-	300	500	460
38130	200	M1/2" - F1/2"	10	1/2"	50-70-80	15	-	-	370	500	460
38120	20	M1" - F3/4"	20	1"	10-20	12	-	-	390	300	330
38140	20	M1" - F3/4"	20	1"	20-35	13	-	-	550	340	460
39120	20	M1" - F3/4"	20	1"	10-20	14	-	-	500	270	460
39140	20	M1" - F3/4"	20	1"	20-35	15	-	-	500	270	460
39130	200	M1/2" - F1/2"	10	1/2"	50-70	13	-	-	500	270	460



**EVO Series**

Model	Max pressure bar	Connections In - Out	Bore of swivel joint mm	Max Hose Ø	Max Hose length m	Weight kg	Spool width mm	Swivel Bracket on request	Sizes		
									X mm	Z mm	Y mm
37116	600	M1/2" - F1/2"	10	1/2"	15	12	120	39535	240	550	450
37117	600	M1/2" - F1/2"	10	1/2"	20	16	150	39506	270	550	450
37118	600	M1/2" - F1/2"	10	1/2"	25	19	200	36220	310	550	450



**Plastic Series**

Model	Max pressure bar	Connections In	Bore of swivel joint mm	Max Hose Ø	Max Hose length m	Weight kg	Spool width mm	Swivel Bracket on request	Sizes		
									X mm	Z mm	Y mm
35810	20	M1/4" bsp	-	8x12	10	8,1	-	inclusa	220	310	380
35815	20	M1/4" bsp	-	8x12	15	8,2	-	inclusa	220	310	380
35812	20	M3/8" bsp	-	10x14	10	8,2	-	inclusa	220	310	380




## 2.2 NOISE.

The level of noise emitted (level of sound pressure) is extremely low (< 70 dBA). It is anyhow for the employer to evaluate the level of exposure to noise for each single worker..

## 3. DELIVERY, HANDLING AND INSTALLATION

### 3.1 DELIVERY


 The operator must:

- unload keeping to the provisions of the current regulations on hygiene and safety at work;
- remove the packing (if present), without disposing of it in the surrounding environment;
- **Always check the integrity of the components and devices present. In case of need, immediately call our authorized area dealer.**


### 3.2 HANDLING.

This must be done manually definitely keeping to the following rules;

- apply the current regulations on the subject of hygiene and safety at work (pay attention at the poïd);
- remove accessory devices or anything else that may be an obstacle;
- in case of manually hoisting grasp firmly the equipment; for the equipment (with greater weight) you have to use the elevator trolley or suitable slinging
- keep operators are not interested in being moved at a suitable distance.

 **In the case of transportation on a vehicle check the degree of stability before moving off.**

### 3.3 INSTALLATION.

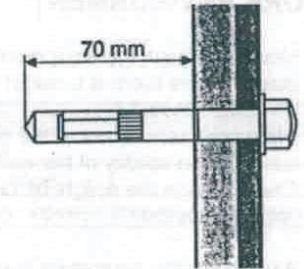
 Installation must be carried out with the aid of competent technical personnel. **For the installation of the hose and spring see par. Maintenance.** Never approach the equipment with naked flames or the like. We recommend to keep any other cable (high voltage) at a suitable distance; if the cable (high tension) is present, we recommend to use the hose reels in the special cabinet. We recommend to install the hose reel at adequate height (at least 2,5 m). Check in advance the solidity of the wall where the equipment is fixed (avoid perforated brick). Check always the weight of the system (check the fixing devices and hoisting means with regard to weight).

### 3.3.1 INSTALLATION HOSE REEL

The operator must keep to the following rules:

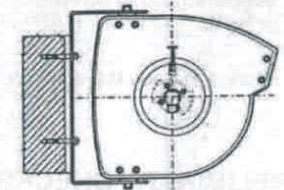
#### Phase 1

the hose reel are to be mounted on the wall with fixing reinforcement dowel ( $\varnothing$  12 mm.) and connecting of 70 mm. at least. If the plate is present you have to put the plate between the hose reels and the wall.



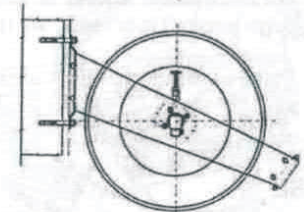
#### Phase 2


pull out from the packaging the drilling jig (if these is present) correspondent to the model purchased, sign the wall in correspondence of the typed holes (that are on the drilling jig) and check the position with the support of the hose reel.



#### Phase 3

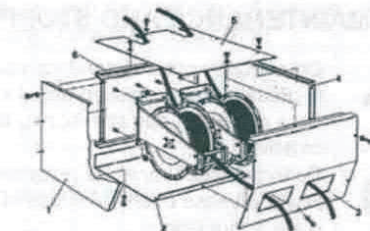
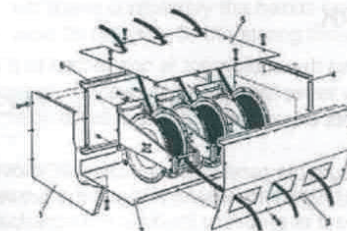
make the installation (hose reel fixed with fixing reinforcement dowel).



 **For the hoisting use the elevator trolley or suitable slinging, keeping to the provisions of the current regulations on hygiene and safety at work.**

### 3.3.2 INSTALLING OF CABINET.


The cabinet (part in the back) are to be mounted on the wall with fixing reinforcement dowel ( $\varnothing$  16 mm.) and connecting of 80 mm. at least; make, therefore, the fixing of the hose reels in the present support with screw bolt. To install the remaining part of the cabinet see the picture.





## 4. SAFETY WARNINGS

### 4.1 WORK ENVIRONMENT


 Never approach the equipment with naked flames or the like. Never use the equipment in places where there is a risk of explosion and fire.


We recommend to install the hose reel at adequate height (at least 2,5 m). Check in advance the solidity of the wall where the equipment is fixed (avoid perforated brick). Check always the weight of the system (check the fixing devices and hoisting means with regard to weight).

Always use the equipment in conditions of adequate lighting. Places of use must be well ventilated and in conformity with current regulations on the subject of hygiene and safety at work.


 Work and keep the equipment in a dry place protected from atmospheric precipitation.

### 4.2 PRELIMINARY CHECKS.


 We recommend to keep any other cable (high voltage) at a suitable distance; if the cable (high tension) is present, we recommend to use the hose reels in the special cabinet.

 Place connection pipes in such a way as not to be an hindrance for other operators on the site.


### 4.3 USE


 When the latch has released and the hose starts to rewind, it is absolutely necessary do not leave completely the hands from the hose, but match the rewinding the rewinding of the hose otherwise its run (due to the strong tension forced by spring) cannot be forced. Pay attention also to the descent of the hose.

The equipment has been designed to be used by one single, adult and responsible operator. We recommend any other people to keep at a suitable distance during work.

 Always wear means of protection in conformity with the current regulations on hygiene and safety at work. Always obtain the safety file of the materials used and follow the instructions contained therein.

### 4.4 MAINTENANCE AND STOPPING WORK.

 Do not carry out maintenance operations when the equipment is connected to a hose in pressure (compressed air). if it's necessary to replace the hose reel (ex. to replace hose or spring) pay attention to the movements unexpected of the reel (danger: hand crushing).

 During maintenance, we recommend to use suitable protection devices (ex. gloves). Never dispose of any residues in the surrounding environment, keep to the provisions of current regulations.

## 5. GENERAL RULES FOR OPERATION

### 5.1 PRELIMINARY CHECKS.

Effettuare sempre i seguenti controlli:

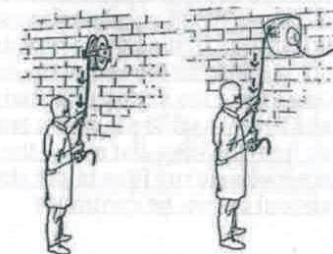
Nr.	Description
• 1.	• Check the connection the hose to the wall
• 2.	• Presence of cable (high tension) high voltage
• 3.	• Check that the hoses and pressures are is between the values foreseen (par.2)

### 5.2 HOW TO USE IT.

#### Phase 1

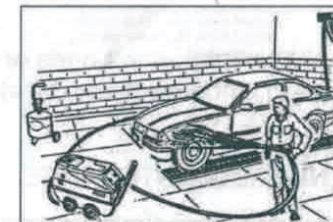
the worker takes the hose and pulls. During this operation man releases the latch from the latch ratchet.

At each ½ turn of the reel you have a stop of the hose-rewinding.



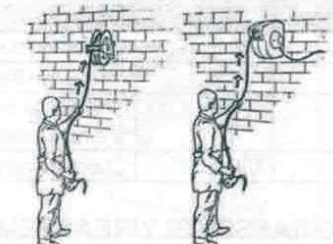
#### Phase 2


the worker pull the hose to the work place, winning the power forced by the spring. When the operator stops pulling the hose, a sprocket of the latch-ratchet locks the latch, keeping the hose stopped in the work position.



#### Phase 3

at the end of the use pull a bit the hose unlocking the latch from a sprocket of the latch-ratched) and rewind the hose.



 When the latch has released and the hose starts to rewind, it is absolutely necessary do not leave completely the hands from the hose but match the rewinding of the hose otherwise its run (due to the strong tension of the spring) cannot be controlled.


### 5.3 END OF WORK


We recommend:

- to place the hose in the initial position (rewinding it in the hose reel);
- to discharge the residual pressure in the hose.

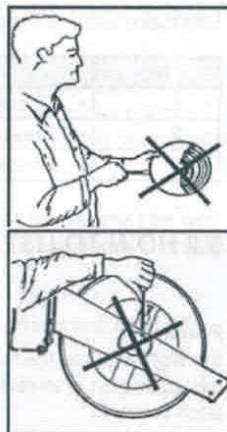



## 6. MAINTENANCE

 Do not carry out any maintenance operation when the spring of the equipment is in tension or when the pressure is present in the hose of connection. We recommend to discharge the residual pressure in the hose and to place the hose in the initial position (rewinding it in the hose reel).

 During maintenance, we recommend to use suitable protection devices. Don't insert the hands or other objects in the reel. If the reels gets locked, please never operate from outside using screwdriver or wrench or other tools, but apply to the specialized assistance centre. Before the installation of the hose check that technical particulars are suitable for the use of the model.

Don't force the spring (that can make damages). It is absolutely necessary do not leave completely the hands from the hose but match the rewinding of the hose otherwise its run (due to the strong tension forced by the spring) cannot be controlled



 - ATTENTION: don't open or force the metal case where is located the spring, because it can be ejected.

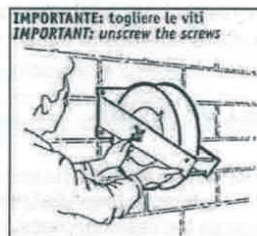
### 6.1 GENERAL MAINTENANCE.

Model	Frequency/ Cause	Test/Operation	Ref.
All	100 h	Check tension of the spring	6.1.1/6.1.2
All	100 h	Check the fretting of the locking system	6.1.1/6.1.2
All	100 h	Check that the fixing reinforcements of the flange are not loose	-----
All	100 h	Check fixing to the wall	-----

### 6.1.1 DISASSEMBLY/REASSEMBLING HOSE OF HOSE - SPRING SERVICE IN THE SYSTEMS WITHOUT CABINET

#### 6.1.1.1 REPLACE OF THE HOSE

**Phase 1**  
please be sure that the rewinding system is completely discharged and the reel is free. Unscrew the 4 screws (Ø 8 mm.) spring-side with a wrench (Ø6 mm.).

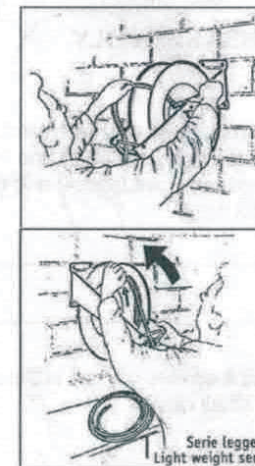


#### Phase 2

put the hose through the guide rollers, drawing your attention to roll the hose in the sense of the curved tongue. Connect the hose to the adaptor placed in the reel then tighten it with suitable key. Put the connection fitting of the hose in the reel in correspondence of the opening on the left side bracket as regards the heavy series hose reel. With reference to the hose reel light series you must put the hose-fitting in the free place between the left side bracket and the reel.

#### Phase 3

mount to the apposite side of the hose the bumper; rewind the hose revolving by hand the reel, until the end of the hose will reach the black-plastic rollers.



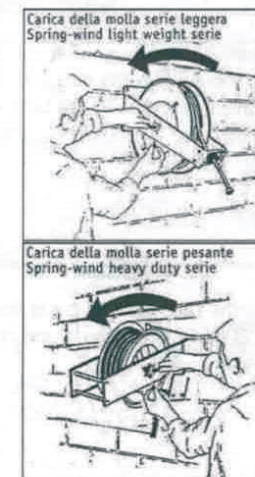
### 6.1.1.2 CHARGING SPRING


#### Phase 4 light weight series hose reel:


connect deeply a set screw-wrench (10 mm.) on the hex-set of the hub. Revolve the hub for 1,5 turn with the wrench in the sense of the arrow. Don't move and lock with 4 sockets screws (Ø 8 mm.). Rewind the hose very slow, driving it in a right way.

#### Phase 4 heavy weight series hose reel:

connect deeply a set screw-wrench (10 mm.) on the hex-set of the hub. Revolve the hub for 1,5 turn with the wrench in the sense of the arrow. Don't move and lock with 4 sockets screws (Ø 8 mm.). Rewind the hose very slow, driving it in a right way.



 Don't put the hands or other things inside the reel.

 A greater spring-load does non allow the complete unwinding of the hose, keeping locked the device of the latch ratchet.

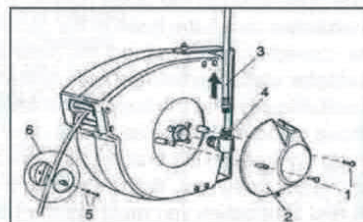


## 6.1.2 DISASSEMBLY/REASSEMBLING HOSE-SPRING IN THE SYSTEMS WITH CABINET.

### 6.1.2.1 DISASSEMBLY

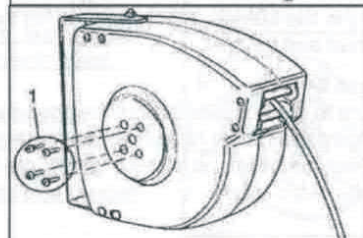
#### Phase 1

the casing (part.2) are disassembled, unscrewing the screws (part.1), the filling hose (part.3), the swivel joint (part.4) and the hose bumper (part.6).



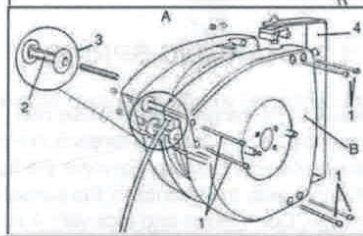
#### Phase 2

unscrew the 4 screws (part.1) at the opposite side of the small casing.



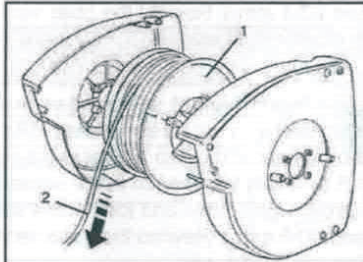
#### Phase 3

separate the 2 cabinets (part .A and B), unscrewing the screws (part.1). Pls. be careful to remove the 2 rollers with the brass pivot (part.2 and 3).



#### Phase 4

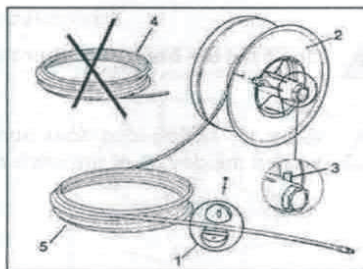
at this point the reel (part.1) is set free, the hose (part.2) can be unwound and removed and replaced.



### 6.1.2.2 REPLACE OF THE HOSE

#### Phase 1

when you have replaced the hold hose (part.4), you can move the new hose (part.5) on the reel (part.2), by the suitable fitting (part.3). Before rewinding the new hose on the reel, pls. mount the hose-bumper (part.1).



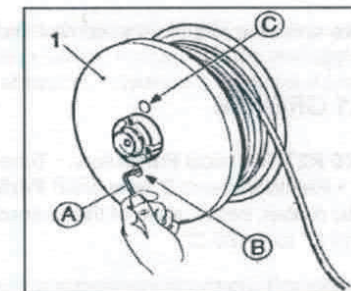
### 6.1.2.3 REPLACE OF THE SPRING

#### Phase 1

put the hex. wrench (part.A) in the bore (part.B and C) and unscrew the hex. socket-screws. Then remove all the kit (part.1) and replace it with one equipped with new spring.



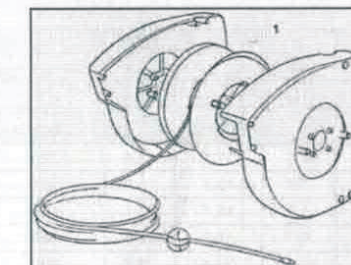
**The old spring cannot be repaired. Don't open the plastic cover.**



### 6.1.2.4 REASSEMBLING

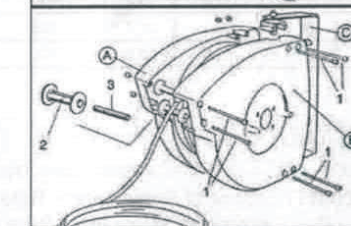
#### Phase 1

set the reel (part.1) among its cabinet before rewinding the hose.



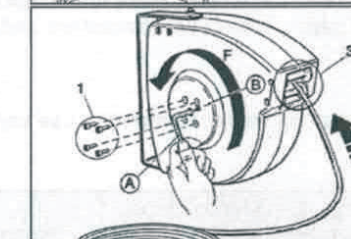
#### Phase 2

set the rollers (part.2), close the 2 cabinets (part.A and B), tightening the 6 screws (part.1) drawing your attention to register the bracket (part.C), and the slotted holes in the cabinet (part.A and B).



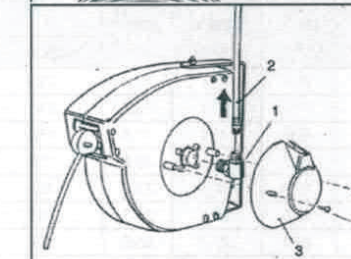
#### Phase 3

put the wrench (part.1) in the bore (part.B). When the wrench is set-in rewind the hose (according to the direction of the arrow part.F), as far as the hose-bumper (part.2 phase 1) will stop on the rollers (part.3). At this point you have to load the spring inside turning the wrench (part.A) twice and a half according the direction of the arrow (part.F). You have to lock the hose tightening the screws (part.1).



#### Phase 4

when you are sure that the hose is sliding and the spring is working, re-mount the swivel-joint. Re-mount the swivel-joint(part.1), the filling hose (part.2) and the small casing (part.3) with the screws (part.4).





### 6.1.3 CHOICE OF THE HOSE

Below we show the rules for the correct choice of the hose in relation to material used (see the chapter 2).

#### 6.1.3.1 GREASE

**SAE 100 R2T** Technical Particulars: • Tube: black, oil, petrol, hydraulic fluids resistant synthetic rubber. • Reinforcement: 2 wire braid (high resistance). • Cover: hydraulic fluids resistant synthetic rubber, petrol, state of the atmosphere and abrasion. • Operating temperature range: from - 10 C° to + 130 C°.

! For grease we recommend to use an hose Ø 1/4 R2T.

Ø nom. inch	Ø int. mm.	Ø wire braid mm.	Ø ext. mm.	Pressure working		Pres. Test bar	Pres. burst bar	Bend radius. Min. mm.	Weight Kg/mt.
				bar	psi				
1/4	6,4	11,1	13,4	225	3210	540	900	100	0,230
5/16	7,9	12,7	15,0	215	3070	510	850	115	0,270
3/8	9,5	15,1	17,4	180	2570	435	720	130	0,340
1/2	12,7	18,3	20,6	160	2285	385	640	180	0,430
5/8	15,9	21,4	23,7	130	1855	315	520	200	0,510
3/4	19,0	25,4	27,7	105	1500	255	420	240	0,670
1	25,4	33,3	35,6	88	1255	210	350	300	1,000

#### 6.1.3.2 OIL.

**SAE 100 R1T** Technical Particulars: • Tube: black, oil, petrol, hydraulic fluids resistant synthetic rubber. • Reinforcement: 1 wire braid (high resistance). • Cover: hydraulic fluids resistant synthetic rubber, petrol, state of the atmosphere and abrasion. • Operating temperature range: from - 10 C° to + 130 C°.

! For oil we recommend to use an hose Ø 1/2 R1T.

Ø nom. inch	Ø int. mm.	Ø wire braid mm.	Ø ext. mm.	Pressure working		Pres. Test bar	Pres. burst bar	Bend radius. Min. mm.	Weight Kg/mt.
				bar	psi				
1/4	6,4	11,1	13,4	225	3210	540	900	100	0,230
5/16	7,9	12,7	15,0	215	3070	510	850	115	0,270
3/8	9,5	15,1	17,4	180	2570	435	720	130	0,340
1/2	12,7	18,3	20,6	160	2285	385	640	180	0,430
5/8	15,9	21,4	23,7	130	1855	315	520	200	0,510
3/4	19,0	25,4	27,7	105	1500	255	420	240	0,670
1	25,4	33,3	35,6	88	1255	210	350	300	1,000

### 6.1.3.3 WATER.

**SAE 100 R2T** Technical Particulars: • Tube: black, oil, petrol, hydraulic fluids resistant synthetic rubber. • Reinforcement: 2 wire braid (high resistance). • Cover: hydraulic fluids resistant synthetic rubber, petrol, state of the atmosphere and abrasion. • Operating temperature range: from - 10 C° to + 130 C°.

! For water we recommend to use an hose Ø 1/4 R2T.

Ø nom. inch	Ø int. mm.	Ø wire braid mm.	Ø ext. mm.	Pressure working		Pres. Test bar	Pres. burst bar	Bend radius. Min. mm.	Weight Kg/mt.
				bar	psi				
1/4	6,4	11,1	13,4	225	3210	540	900	100	0,230
5/16	7,9	12,7	15,0	215	3070	510	850	115	0,270
3/8	9,5	15,1	17,4	180	2570	435	720	130	0,340
1/2	12,7	18,3	20,6	160	2285	385	640	180	0,430
5/8	15,9	21,4	23,7	130	1855	315	520	200	0,510
3/4	19,0	25,4	27,7	105	1500	255	420	240	0,670
1	25,4	33,3	35,6	88	1255	210	350	300	1,000

### 6.2 DECOMMISSIONING



In the case of demolition, keep to the current regulations in the country where this operation is being carried out.



## 7. SPARE PARTS

Enclosed with this booklet are tables making it possible to request spare parts for our machines from our technical service. Below we give an example of an enquiry. It is recommended to give all the data requested

Firm		Street		
Postal code		Town		
Tel.		Fax.		
Person in charge				
Machine model:				
Table Nr.	Pos.	Code	Nr.	Description

## 8. TROUBLE, CAUSES AND REMEDIES

Trouble	Causes	Remedies	Action
Hose reel blocked	1) Latch-ratchet blocked	1) Excessive tension of the spring	1) Operator
From the hose reel there is the loss of the liquid	1) Joint defective	1) Replace joint	1) Call assistance technical
Hose don't work	1) Spring discharged	1) Increase 1 turn charging of the spring (chap. 6)	1) Operator

## 9. ACCESSORIES

A swivel bracket can be supplied on request to make easy the use of the hose reel. In the Data table we give for every model of hose reel the code of the swivel bracket. For the hose reels (made with steel) heavy series remove the plate of fixing and replace with system jointed.



**Giunti girevoli 90° Alta pressione in acciaio zincato per avvolgitubi verniciati da 1/2"**  
**Swivel joints 90° High pressure hose reels painted galvanized steel with 1/2"**

Modello Model	Connessioni Connections	P. Max.	T. Max.	Tenute Seals	Mat. Giunto Mat. Joint	Ø utile Usable bore
9951	1/2" M	600 bar	60° C	POLYUR.	Acciaio / steel	10 mm
9952	1/2" M	200 bar	60° C	POLYUR.	Acciaio / steel	12 mm
9953	1/4" M	900 bar	60° C	POLYUR.	Acciaio / steel	3 mm



**Giunti girevoli 90° Alta pressione in acciaio zincato per avvolgitubi verniciati da 1"**  
**Swivel joints 90° High pressure hose reels painted galvanized steel with 1"**

Modello Model	Connessioni Connections	P. Max.	T. Max.	Tenute Seals	Mat. Giunto Mat. Joint	Ø utile Usable bore
9970F	1" M	20 bar	60° C	NBR	Acciaio / steel	20 mm
9994	1" M	20 bar	60° C	NBR	Acciaio / steel	20 mm



**Giunti girevoli 90° Alta pressione in acciaio inox per avvolgitubi verniciati da 1/2"**  
**Swivel joints 90° High pressure hose reels painted stainless steel with 1/2"**

Modello Model	Connessioni Connections	P. Max.	T. Max.	Tenute Seals	Mat. Giunto Mat. Joint	Ø utile Usable bore
9960	1/2" M	200 bar	150° C	EPDM	AISI 303	10 mm
9960K	1/2" M	200 bar	150° C	EPDM	AISI 303	10 mm
9961	1/2" M	400 bar	150° C	PTFE	AISI 303	10 mm
9962	1/2" M	400 bar	150° C	PTFE	AISI 316	10 mm
9964	1/2" F	200 bar	150° C	EPDM	AISI 303	10 mm
9967	1/2" M	200 bar	150° C	EPDM	AISI 303	12 mm
9968	1/2" M	200 bar	150° C	EPDM	AISI 303	10 mm





**Giunti girevoli 90° Alta pressione in acciaio inox per avvolgitubi verniciati da 1"**  
**Swivel joints 90° High pressure hose reels painted stainless steel with 1"**

Modello Model	Connessioni Connections	P. Max.	T. Max.	Tenute Seals	Mat. Giunto Mat. Joint	Ø utile Usable bore
9970	1" M	100 bar	100° C	VITON	AISI 303	20 mm
9981	1" M	100 bar	100° C	FFKM	AISI 316	20 mm
9984	1" M	100 bar	100° C	EPDM	AISI 303	20 mm
9986	1" M	100 bar	100° C	without seals	AISI 303	20 mm
9989	1" M	100 bar	100° C	TEFLON	AISI 316	20 mm



**Tamponi finecorsa fermatubo**  
**Hose-bumper**

Modello Model	Ø foro Ø bore	Ø foro Ø bore
37004	3/4"	26 mm
37005	1"	39 mm
37001	1/4"	15 mm
37002	3/8"	17 mm
37003	1/2"	20 mm



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