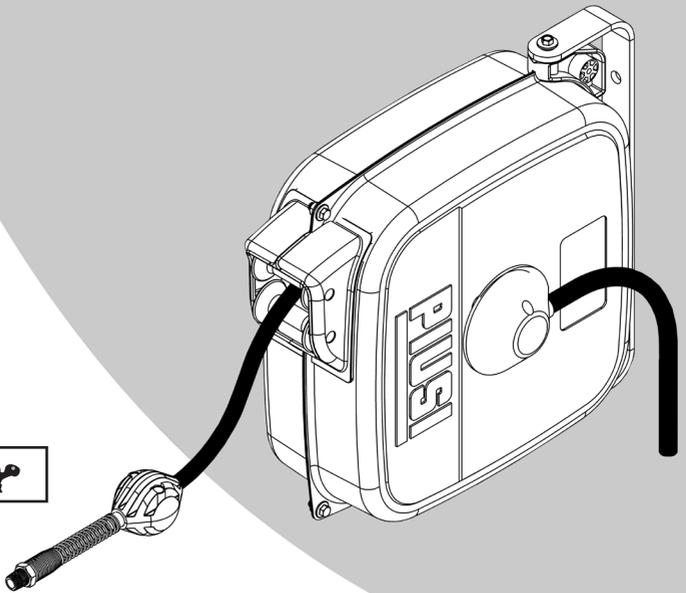


# AUTOMATIC HOSE REELS

USE AND MAINTENANCE MANUAL

HC

HCS 



# PIUSI

®

*Fluid Handling Innovation*

## 1 - GENERAL RULES APPLIED

This manual is giving information about a correct assembly, use and maintenance of the hose reels in order to prevent accidents.

The hose reel has been planned in conformity to the present EEC rules.

This manual has been drafted according to the following norms:

10653 : 2003 - Technical documentation - Quality of the product technical documentation

10893 : 2000 - Product technical documentation - instructions for use - Sections and order of the content.

## 2 - WARRANTY

The equipment is guaranteed for a period of 18 months from date of purchase and must be used in accordance with the instructions contained in this manual. Warranty does not cover all parts which are faulty after incorrect use, incorrect installation or maintenance, maintenance carried out by unauthorized personnel, transport damages, or for circumstances not concerning manufacturing defects. The manufacturer disclaims any responsibility for any damage, that may directly or indirectly, derive to persons or property in consequence to the not observed requirements specified in this instruction manual and especially the warnings regarding installation, use and maintenance.

## 3 - DESCRIPTION

The automatic hose reels **HC / HCS** are made of hot galvanised moulded steel and painted with electrostatic polyester powder resistant to UV rays.

The hose rolling is done automatically by a spring made of high quality steel, incorporated in the drum. The stop can be done at any desired length, through an automatic locking device. In particular, the model **HCS** thanks to an integrated brake system, allows the controlled return of the hose.

The inner components of the hose reel and those which go in contact with the fluid are produced by a special plastic composite material. The incorporated revolving support allows the orientation of the hose reels in order to guide its direction. The hose reels are supplied and completed with a distribution hose which is made of polyurethane / thermoplastic material and reinforced by a special textile braid. This distribution hose is available with two different diameters. Furthermore these models are supplied with an additional connecting flexible hose 1 m long.

## 4 - INTENDED USE OF THE MACHINE

The hose reels model **HC / HCS** of the painted series are suitable for distributing compressed air for professional use.

**They should only be used for distributing fluids, at the pressures and temperatures indicated on the schedule. It is forbidden to use the machine for any other kind of fluid.** We decline any responsibility for anomalies or dangers which could arise by an hose assembly with characteristics and uses different from the ones described herein. Close the feeding of fluid at the shift end to avoid damages during non-working hours. **Use of the hose reel is not permitted in potential explosive environments (ATEX).**

## 5 - OPERATION

The automatic device stopping the hose works on an area corresponding to 1/3 turn of the drum. To release the hose, put a light traction on it.



It is important always to keep the hose back when you rewind it, in order to avoid damages to the machine, injuries to people or to surrounding things.

## 6 - MARKING AND IDENTIFICATION

We affix the CE marking as the manufacturer of this equipment.

On the equipment is securely attached a tag with curing adhesive system on which are indicated in addition to the name of the manufacturer and the symbol "CE", all information necessary for good identification of the machine (model, duty, year of construction, weight, etc.)

|              |   |   |   |
|--------------|---|---|---|
| <b>PIUSI</b> | PIUSI S.p.a.<br>46029 Suzzara<br>(MN) ITALY | CERTIFIED COMPANY<br><b>UNI EN ISO 9001</b> | MEMBER<br><b>PEI</b><br>QUALITY EQUIPMENT ITALY |
|              |   | <b>MADE IN ITALY</b>                        |   |
|              | 2014  |   | <b>HC20151200</b>                               |
|              |   |   | <b>OIL HOSE REEL 8x12 - 15 m</b>                |
|              |   |   | <b>WEIGHT: 6Kg Pmax: 20bar</b>                  |
|              |   |   | <b>LOT NUMBER: 000000000/00</b>                 |
|              |   |   | <b>ATTENTION: READ MANUAL</b>                   |

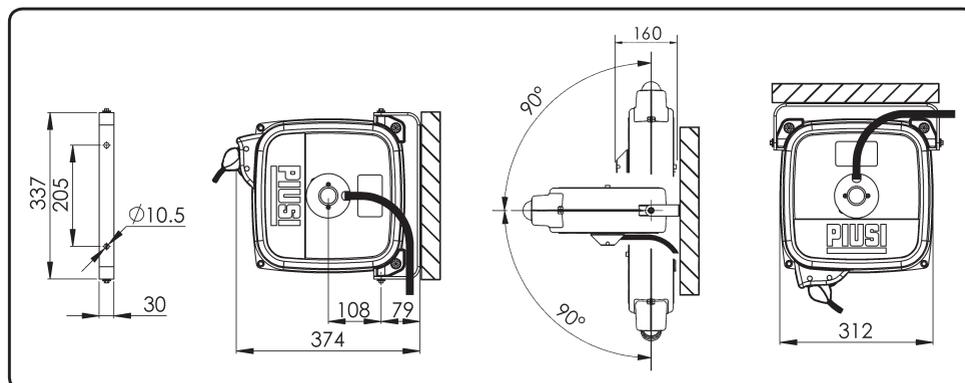
### Technical data

| FLUID | MAX.<br> | MODEL       | INLET   | OUTLET       | HOSE DIAMETER | HOSE LENGTH | kg   | PRE LOAD<br> |
|-------|----------|-------------|---------|--------------|---------------|-------------|------|--------------|
| AIR   | 20 Bar   | HC20151200  | ø 8 mm  | G1/4" M cil. | TPU 8x12mm    | 15 m        | 6 Kg | 5            |
|       |          | HCS20151200 |         |              |               |             |      |              |
|       |          | HC20121400  | ø 10 mm | G3/8" M cil. | TPU 10x14mm   | 12 m        | 6 Kg | 8            |
|       |          | HCS20121400 |         |              |               |             |      |              |



Safety hose reels with controlled return of the hose.

### Dimensions



## 7 - INSTALLATION

**IMPORTANT :** The hose reel has to be wall mounted at a minimum height of the floor of 2,50 m in order to prevent accidents during work operations.

Before delivery, each hose reel is packed with care. Please, check the packaging at the reception of the goods and store only at a dry place.

### PRELIMINARY VERIFICATIONS:

- Make sure you receive all the components. Ask the manufacturer for any possible missing component.
- Verify that the device hasn't been damaged during transport or storage operations.
- Accurately Clean suction and recovery openings, removing dust and rest of packing.
- Make sure that the hose reel is free to turn.
- Make sure to install it in a well lighted place.
- It is suggested to use a suction filter

In particular cases it is possible to mount it on the floor or on other machines as accessory, only if complete with a fixed support.

Mount the hose reel already complete with hose on stiff and consistent walls, using 4 dowels of 10 mm diameter.

**WARNING!** The manufacturer declines any responsibility for injuries to people or damages to things caused by a wrong assembly of the hose reel.

## 8 - MAINTENANCE



**IMPORTANT:** *Maintenance should only be carried out by suitably trained staff, who are familiar with the instructions and information in this manual.*

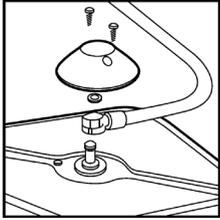
Periodically check the reel for the leaks and smooth operation. Check that there is no fluid leakage from the fittings and that the swivel joint and fittings are tight. Periodically lubricate the hose for easy rewinding. If necessary, lubricate the joint.

**Make sure that there is no tension in the spring before starting any operations inside the hose reel. Always close the feeding of fluid to the machine before performing any maintenance or servicing.**

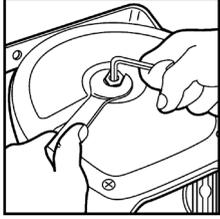
Replace the flexible hose if it shows any signs of wear or damage. Replace the seal inside the revolving joint if it is worn or damaged. The replacement of the spring must only be carried out by trained staff, according to the instructions supplied by the manufacture. Any replacement of hose reel parts has to be done using original spare parts.

We advise you to contact the manufacturer for any possible anomaly and before replacing any part. After every maintenance operation, put again the eventual supports.

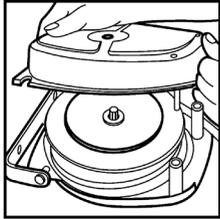
## 9 - REPLACEMENT OF THE HOSE



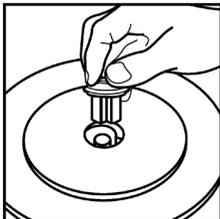
**A**



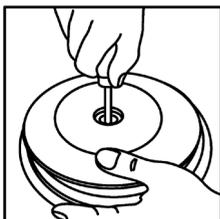
**B**



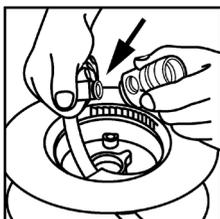
**C**



**D**



**E**



**F**

**WARNING: BEFORE PERFORMING ANY OPERATION, POSITION THE STOPPER AT THE END OF THE HOSE, REEL THE HOSE COMPLETELY AND MAKE SURE THAT THE SPRING IS COMPLETELY SLACKENED.**

For safety reasons, operations of hose replacement must be carried out at the bench.

Use a hose with dimension and pressure characteristics suited to the use.

- 1) Take the inlet hose off by removing the plastic cap and the seeger (figure A).
- 2) Insert a 5 mm hexagonal wrench into the 6 flats of the spring hub. Unfasten the nut with a 19 mm wrench, holding in place with the hexagonal wrench (figure B). Release the spring by turning the hexagonal wrench slowly clockwise.
- 3) Remove the nut and the 4 attachment screws from the two half-casings.
- 4) Remove the half-casing and take out the drum (figure C).

**WARNING: DO NOT OPEN THE SPRING CASING. SPRING REPAIR OR REPLACEMENT OPERATIONS MUST ONLY BE PERFORMED BY QUALIFIED TECHNICIANS.**

- 5) Take the spring hub out of the drum (figure D).
- 6) Unfasten the central screw and remove the bushing (figure E).
- 7) Separate the hub from the drum and take the hose coupling out of the hub (figure F). Remove the o-ring.
- 8) Cut the collar in order to retrieve the coupling and replace the hose.
- 9) Position the o-ring on the coupling and insert the coupling into the hub hole.
- 10) Reposition the hub in the drum by fastening the central screw and insert the spring hub.
- 11) Fit the stop approximately 1 m from the opposite end of the hose and reel the new hose on the drum.
- 12) Grease if required. Reassemble the reel, following the operations in reverse order.
- 13) Insert a hexagonal wrench in the hub hole. Turn the wrench anti-clockwise so that the limit stop is in contact with the hose guide end fitting. Prestress the spring by continuing to turn the wrench anti-clockwise (4 turns).
- 14) Hold the wrench in position and fasten the nut. Perform a functional check. If the hose does not go in completely or does not come out completely, readjust the tension of the spring (point 13).
- 15) Reposition the inlet hose and the plastic cap.

## 10 - DISPOSING OF CONTAMINATED MATERIALS

In case of maintenance or demolition by the machine, the parts that make it up must be sent to companies that specialize in the disposal and recycling of industrial refuse and, in particular:

### DISPOSAL OF PACKING MATERIAL

The packaging consists of biodegradable cardboard which can be delivered to companies for normal recycling of cellulose.

### DISPOSAL OF METAL COMPONENTS

Metal parts, whether paint-finished or in stainless steel, can be consigned to scrap metal collectors.

### DISPOSAL OF OTHER PARTS:

Other components, such as hoses, rubber gaskets and plastic parts, must be disposed of by companies specialising in the disposal of industrial waste.

EN

## 11 - EC DECLARATION OF CONFORMITY

The undersigned:

PIUSI S.p.A

Via Pacinotti c.m. z.i.Rangavino

46029 Suzzara - Mantova - Italy



*Fluid Handling Innovation*

HEREBY STATES under its own responsibility, that the equipment described below:

Description: Automatic Reeling drum

Model: **HC - HCS**

Serial number: refer to Lot Number shown on CE plate affixed to product

Year of manufacture: refer to the year of production shown on the CE plate affixed to the product

is in conformity with the legal provisions indicated in the directives:

- Machine Directive 2006/42/EC

The documentation is at the disposal of the competent authority following motivated request at Piusi S.p.A. or following request sent to the email address: doc\_tec@piusi.com

The person authorised to compile the technical file and draw up the declaration is Otto Varini as legal representative.

Suzzara 15/02/2014

*Legal representative*  
**Otto Varini**  
A handwritten signature in black ink that reads "Otto Varini".