

Operation Manual

High Pressure Spring Hose Reel

EF460SRSH EF460MRSH



The company reserves the right for random changes and make unannounced notice!



"Fold ,unfold and wind at ease"—— This is the latest high pressure spring hose reel released by Ebenalp.

It creatively designs the adjustable structure at exit hose, which facilitates installation on-site. We inherit the notion of providing the most enjoyable working process and extraordinary value of use... ...





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1. Safety and Points for Attention

Ebenalp designs and provides the best quality hose reel products for clients in every area. Each series of hose reel has its own unique advantages and recommended application. As for unique advantages in different areas, Ebenalp specifies detailed safety instructions and regulations. To ensure the safety and reliability of hose reel products, working staff should strictly adheres to safety instructions and regulations provided by the manufacturer, so as to avoid accidents. The following regulations should be observed:

- 1) Before using, ensure that installation seat of hose reel has been fixed.
- 2)Before using, according to the chapter of "Recommended and forbidden transmission medium" in 《Operation Manual》, confirm whether medium is suitable for transmission.
- 3) Before using, ensure that all connectors have been tightened up.
- 4) According to the "operation instructions" in 《Operation Manual》, conduct reasonable use.
- 5) Do not release the soft pipe while rewinding it.
- 6) Unauthorized maintenance personnel are forbidden to disassemble the hose reel.
- 7) According to the "Malfunction elimination" in 《Operation Manual》, eliminate and remove malfunctions.



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2.Overview

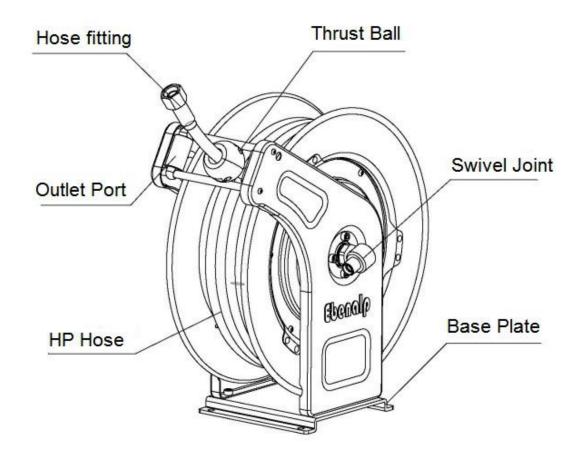
2.1 Introduction of EB series

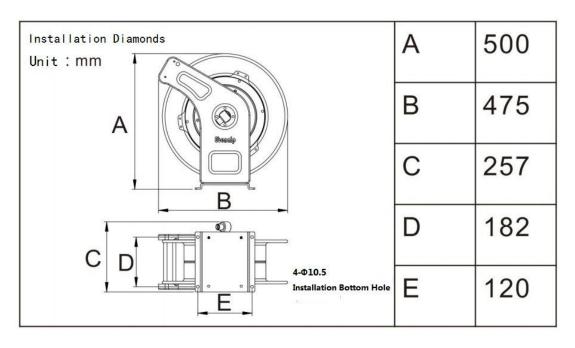
Application area: Ebenalp EF serie hose reel, a type of high-pressure spring hose reel, includes the model of EF460SRSH, EF460MR, etc. It can be applied in oil transportation, sanitation cleaning, engineering machinery, workshop management in factory, special fire vehicles, automation equipment, fiber optic cable communication, power supply through power cable, charging pile cable releasing and retraction, oxygen acetylene double hose releasing and retraction, and other situations. As a special type of Ebenalp EF seria hose reel, stainless steel hose reel can be used for usage situations with strict requirement and special medium such as food and pharmaceutical machinery, transport of petrochemical medium, marine vessel, airport ground service, high pressure water mist fire protection, etc.

2) Drive modes: driven by spring and rewinds automatically.



2.2 Size descriptions





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3. Installation Instructions

3.1 Hose arrangement device

Automatic hose arrangement device is configured as B serie which arranges hose without any manual operation. For each set of –B serie hose reel, hose and hose arrangement device are fitted at the factory with no need for any change.



3.2 Installation of hose reel

EF serie hose reel is integral structure. Each hose reel is assembled in accordance with relevant standard in factory and strictly inspected concerning various quality index. It only needs to have the bottom plate fixed before use.

Replacement of the hose in hose reel shall be performed in strict accordance with the following steps:

Item	Installation Steps	Installation Diagram
1	Pull the hose around the reel until the final circle and adjust the positioning point ensuring the hose fitting does not affect the use of wrench.	



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2 Remove the hose fitting Pull the whole hose out and 3 remove thrust ball Mount the thrust ball at an 4 appropriate position on the new hose



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5	Pass one end of the hose through the outlet port.	
6	6Pass the hose fitting at one end of the hose though outlet	THE PART 1/2 W. P. 275 BAR 2000 PSI BETTING
7	Connect hose fitting with hose reel joint and then fasten it	



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Manually pull the reel to the automatic rollback position for rollback



Notice:

- 1.If the hose to be replaced differs from the original one in specification, please contact the manufacturer. Replacement by yourself without any permission is strictly prohibited.
- 2.For replacement by your own staff, there must be two workers in cooperation with each other, one is responsible for protection while the other one is replacing.



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4. Recommend and prohibited transmission medium

Synthetic rubber hose, unless special order from customers, when using the hose reel must strictly follow the provisions of this chapter of commonly recommend medium and commonly used banned medium

When confirm whether medium is suitable for conveying, in addition to the hose material, also need to consider the intermiscibility of materials and chemicals such as joint, flowing liquid Shaft, seals and other parts.



Forbidden to transport medium which

is not in the recommend medium list!

Others please consult the manufacture.

4.1 Commonly recommend medium



Class	Medium		
Oils	L-HL Mineral Oil		
	Diesel Gasoline fuel oil Kerosene		
Chemical substances	Glycol		
Others	Water waste water soapy water soya-bean oil		

4.2 Commonly used banned medium



Class	Medium	
Oils	Phosphate based hydraulic oil	
Chemical substances	Acetaldehyde Acetylene Ammonium hydroxide Banana oil hydrochloric acid hydrogen nitrate	
Others	strong brine carbonic acid vapour	



5. Operation Instructions

Using hose reel, need to strictly follow with below standards.

- ①Ensure the hose reel is installed in place before using;
- ② It could be positioned when heard "kaka" after pulling the hose reel :
- ③ Loosen hose reel to confirm whether positioning is firmed after positioning;
- 4 After operation, please pull the hose reel until it could automatic rewinding;
- ⑤ Forbidden to release grip on hose reel when rewinding, must hold it until all roll back, in case of personal injury.



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6. Malfunction elimination

6.1 Hose reel could not rewinding automatically.

Firstly,to ensure you have pulled the hose to automatically rollback position.



If the hore reel is stuck in the process of rewinding, check whether the part of the hose with bottom friction and get stuck.

If it is too long time no maintenance, or let the hore reel in bad condition for a long time, it could lead to failure of spring, should contact the manufacturer for repair maintenance.

6.2 After pulling out the hore reel could not positioning

Ebenalp unique design to ensure the high reliability of the hose reel, also the reliability of the positioning function.

Under normal service conditions, a remote possibility to lose positioning function.

Once the positioning function is failure, please contact the manufacturer for repair maintenance.

6.3 In the process of winding, the winding drum shakes to large.

In the situation, should check the volume on time whether side plaate and bottom screw is loose or not, if there are any loose, please follow criteria to screw down the screws.

Hose reel standard assembly

①Screw fastening torque M10 refor to 40N.m , M8 refor to 25N.m ,

M5 refor to 8N.m;

- ②Screw should apply proper amount of fastening adhesive;
- ③Coupling nut between sides and bottom should use lock nut.
- ④ Circular uniform screw should tighten twice in accordance with the "diagonal order".

If the problem still exists, may be due to improper operation caused by the shell deformation, please contact the manufacturer for repair maintenance.



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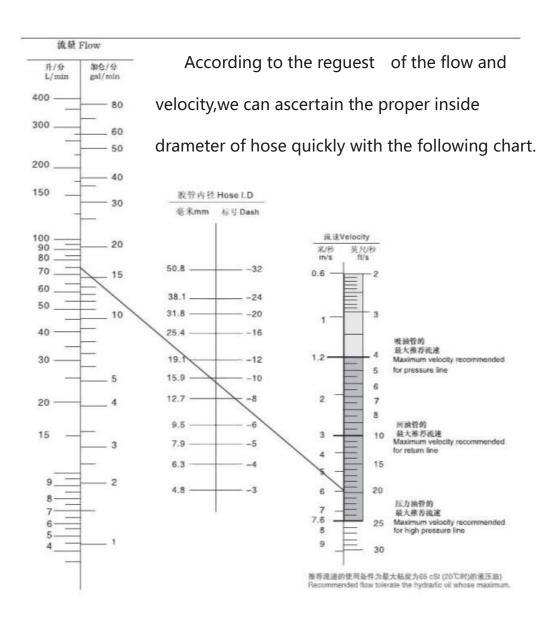
7.Tool lists

Item	Name	Spec	Product Diagram
1	Allen wrench	M4	
2	Allen wrench	M6	
3	Allen wrench	M8	
4	Open-end wrench	36	
5	Open-end wrench	46	



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How to choose with right inside diameter





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