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3.02.01.152
REV 10/14/24



Hand Crank Hose Reel Instruction Manual



HR121



HR122



WARNING:

Read carefully and understand all INSTRUCTIONS before operating. Failure to follow the safety rules and other basic safety precautions may result in serious personal injury. Save these instructions in a safe place and on hand so that they can be read when required. Keep these instructions to assist in future servicing.

REV 10/14/24



GENERAL SAFETY REGULATIONS

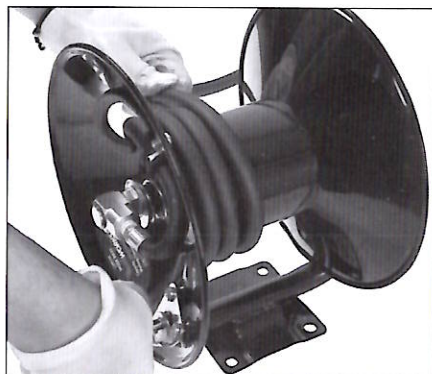


WARNING: The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions or situations that could occur. It must be understood by the operator that common sense and caution are factors that cannot be built into this product, but must be supplied by the operator.

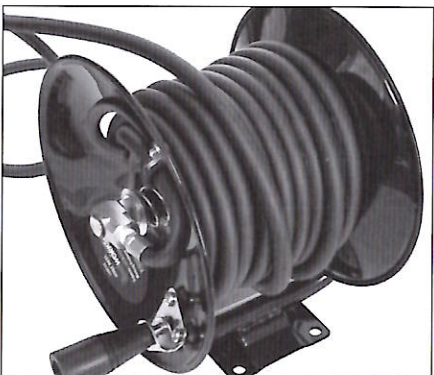
1. Keep the work area clean and dry. Damp or wet work areas can result in injury.
2. Keep children away from work area. Do not allow children to handle this product.
3. Use the right tool for the job. Do not attempt to force small equipment to do the work of larger industrial equipment. There are certain applications for which this equipment was designed. It will do the job better and more safely at the capacity for which it was intended. Do not modify this equipment, and do not use this equipment for a purpose for which it was not intended.
4. Check for damaged parts. Before using this product, carefully check that it will operate properly and perform its intended function. Check for damaged parts and any other conditions that may affect the operation of this product. Replace damaged or worn parts immediately.
5. Do not overreach. Keep proper footing and balance at all times to prevent tripping, falling, back injury, etc.
6. DO NOT use the equipment when tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating this equipment may result in serious personal injury.

Read the following precautions and instructions before you begin assembly or using. Keep this literature in a dry place for future reference.

9. Tidy and pull tight the first turn of the pipe, hold and arrange the long pipe neatly around the spool with one hand while holding the handle with the other hand to rotate the spool clockwise.

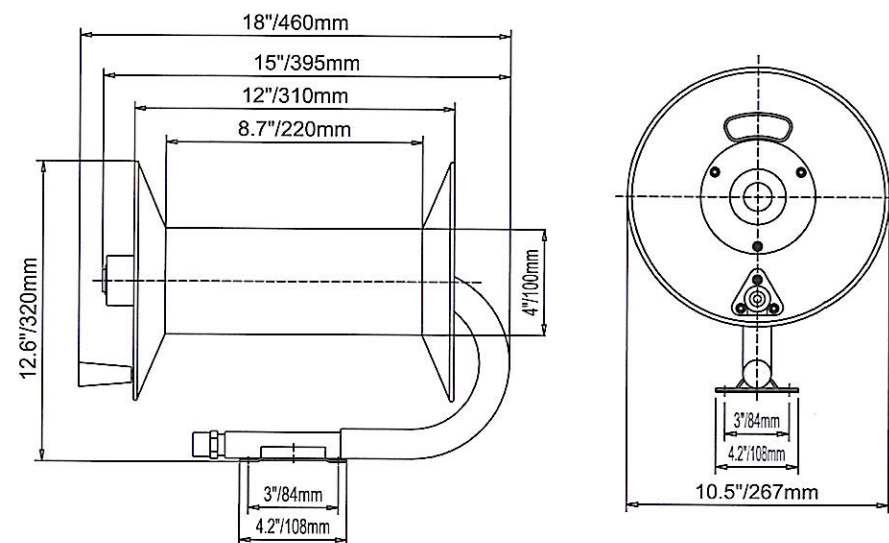


10. The pipe installation is completed.



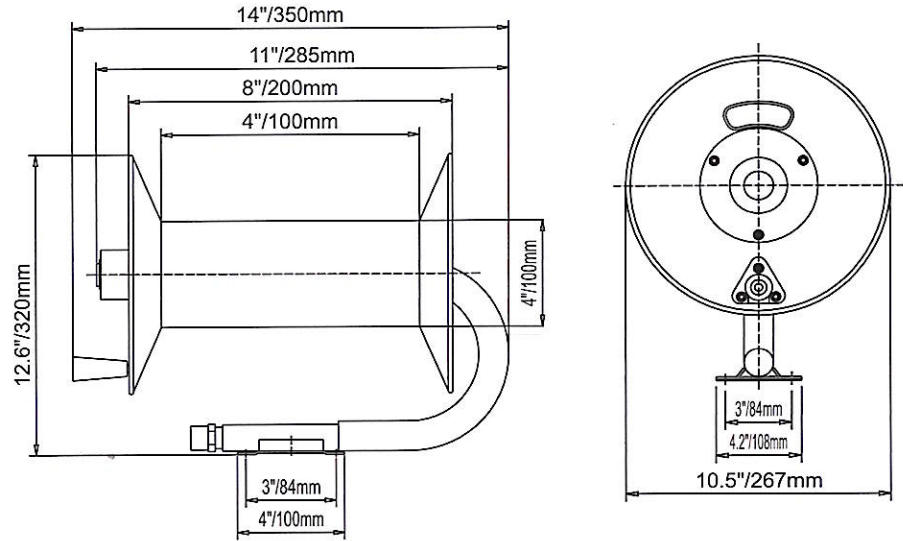
TECHNICAL DETAILS - HR121 SERIES (Hose is not included)

Item No.	Ref. No.	Max. Pressure	Inlet/Outlet	Hose Capacity		Lock Pin
				I.D.	Length	
HR121.01	L201602	300PSI	1/4" (Male/Female)	1/4" NPT	200ft.	-
HR121.02	L201303	300PSI	1/4" (Male/Female)	3/8" NPT	100ft.	-
HR121.03	L201303	300PSI	3/8" (Male/Female)	3/8" NPT	100ft.	-
HR121.04	L201602	20BAR	1/4" (Male/Female)	1/4" BSPT	60m	-
HR121.05	L201303	20BAR	3/8" (Male/Female)	3/8" BSPT	30m	-
HR121.06	H201602	3000PSI	1/4" (Female/Female)	1/4" NPT	200ft.	✓
HR121.07	H201303	3000PSI	3/8" (Female/Female)	3/8" NPT	100ft.	✓
HR121.08	H201602	207BAR	1/4" (Female/Female)	1/4" BSPT	60m	✓
HR121.09	H201303	207BAR	3/8" (Female/Female)	3/8" BSPT	30m	✓
HR121.11	L201602	300PSI	1/4" (Female/Female)	1/4" NPT	200ft.	-
HR121.12	L201303	300PSI	1/4" (Female/Female)	3/8" NPT	100ft.	-
HR121.13	L201303	300PSI	3/8" (Female/Female)	3/8" NPT	100ft.	-



TECHNICAL DETAILS - HR122 SERIES

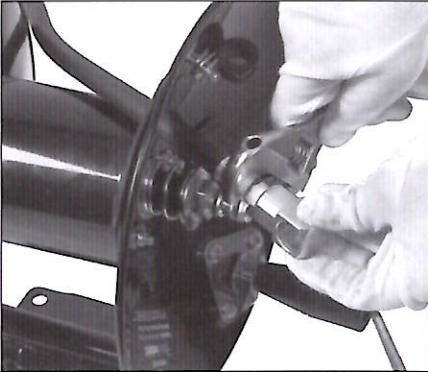
Item No.	Ref. No.	Max. Pressure	Hose Capacity			Inlet/ Outlet
			Material	I.D.	Length	
HR122.01	L202302	300PSI	Hose is not included	1/4"	100ft.	1/4"
HR122.02	L202153	300PSI	Hose is not included	3/8"	50ft.	1/4"
HR122.03	L202153	300PSI	Hose is not included	3/8"	50ft.	3/8"
HR122.04	L202302	20BAR	Hose is not included	1/4"	30m	1/4"
HR122.05	L202153	20BAR	Hose is not included	3/8"	15m	3/8"
HR122.06	H202302	3000PSI	Hose is not included	1/4"	100ft.	1/4"
HR122.07	H202153	3000PSI	Hose is not included	3/8"	50ft.	3/8"
HR122.08	H202302	207BAR	Hose is not included	1/4"	30m	1/4"
HR122.09	H202153	207BAR	Hose is not included	3/8"	15m	3/8"
HR122.10	L202153	300PSI	Hose is not included	3/8"	50ft.	1/4"
HR122.11	L202153	300PSI	Hose is not included	3/8"	50ft.	1/4"
HR122.12	H202153	3000PSI	Hose is not included	3/8"	50ft.	3/8"



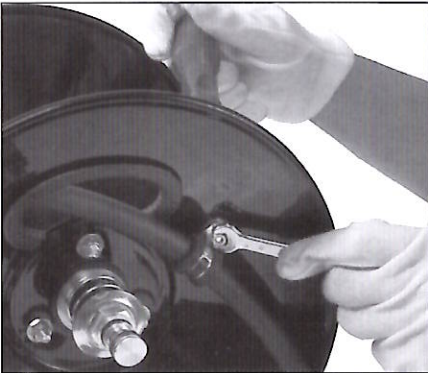
5. Pass the pipe into the opening of the disc body.



6. Connect the male connector to the valve body securely using the wrench.



7. Adjust the pipe length so that the pipe is pressed into the clamp, and tighten the nut with the No. 8 wrench and the screwdriver.



8. Put the valve body back on the valve core and fit the retaining ring with the circlip pliers. **Reminder:** Make sure that the retaining ring is fully seated in the groove of the valve core and protect the O-ring on the valve core.



PIPE INSTALLATION PROCEDURE

1. Prepare the pipe to be installed and tools (Wrench x2, Phillips screwdriver x1, Circlip pliers x1, Teflon tape x1).
Recommended: Adjustable wrench x1, No. 8 non-adjustable wrench x1.
2. Wrap an appropriate amount of Teflon tape around the male connector to strengthen the sealing. Recommended: Wrap 5~7 turns.



3. Pull the pull ring to stick it into the shallow groove to release the locking. At this point, the disc can be rotated.



4. Remove the retaining ring from the valve end with circlip pliers, and then remove the valve body.

Reminder: Be sure to remove the valve slowly and carefully to ensure that the retaining ring is not deformed and to protect the O-ring on the valve core.



SAFETY PRECAUTIONS

1. Make sure input pressure does not exceed 300 PSI / 20Bar (HR121 & HR122) or 4000 PSI / 275Bar (HR121 & HR122).
2. Use the proper eye protection when assembling and using the hose reel.
3. Assemble the hose reel on a clean workbench free of debris and moisture.
4. Use soap and water when checking for air leaks.
5. Do not expose fingers or hands directly to a pressurized hose, or it will result in severe body injury.
6. Keep children away from the work area.

UNPACKING

When you receive your new Hose Reel, it will be mostly reassembled. Check to ensure that you have received the following loose parts.

Part No.	Description	Q'ty
20	Screw	3
21	Washer	3
22	Nut	3
23	Handle	1

INSTALLATION

Note: You must purchase hardware & hose for mounting your new reel. Decide where you wish to mount reel before purchasing as the hardware needed will vary provided different locations.

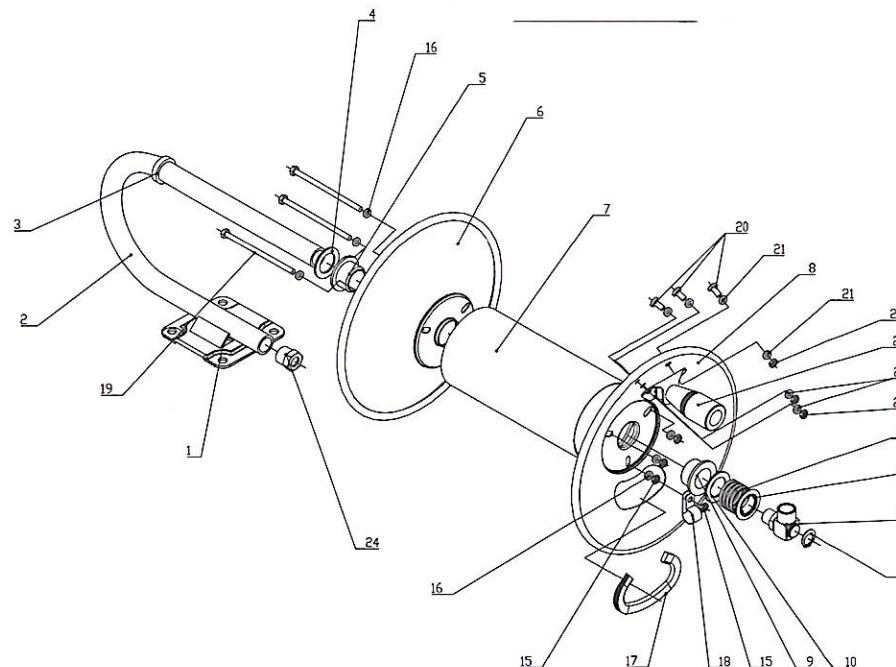
Refer To Appendix For Assembly

1. Match handle to 3 holes in reel flange. Attach using 3 screws, nuts and washers.
- Note:** Nuts must go on handle side of flange.
2. Put the bolts (3/8" or 10mm) through 4 holes in the base of the hose reel and tighten it to ceiling/wall/floor so reel can be fastened into position.
3. Apply teflon tape or thread sealant to reel's built in supply hose fitting. Then attach this supply hose to the outlet of air compressor.
4. Apply teflon tape or thread sealant to hose fitting threads. Attach to the reel swivel valve, then feed the rest of hose through the flange opening.
5. To avoid damaging the swivel valve, make sure to use a appropriate wrench to stabilize the swivel hosing tightening the hose fitting.
6. For the length of hose, please refer to TECHNICAL DETAILS on page 3.

TRUBLE SHOOTING

Problem(s)	Possible Cause	Corrective Action
Fluid path (plumbing and/or Swivel) is leaking or damaged	a) Maximum pressue rating for reel has been exceeded b) Application is not compatible with plumbing and/or swivel seal materials.	a) Replace or repair damaged components. Consult factory. Check maximum pressure rating of reel. b) Contact factory to determine chemical compatibility or environmental issues(i.e. temperature rating).
Hose will not fully retract	a) Outlet nozzle, gun or tool is too heavy. b) Spring is fatigued. c) Field installed hose is too long.	a) Add spring tension. See "Spring Tension Adjustment". b) Add spring tension. See "Spring Tension Adjustment". Replace Spring Canister if required. c) Call local distributor for correct specified hose length.
Hose will not retract at all	Spring has lost all tension or has possibly broken	Reinstall Spring Tension
Reel will not latch	a) Incorrect operation b) Dog spring or locking cam is broken or worn	a) To latch the reel, pull out the hose and allow it to retract after hearing the first second or third "click". b) Replace dog spring or locking cam.
Fluid leaks from swivel	a) Swivel seals are damaged or worn b) Inlet hose is not flexible	Replace swivel seals. See "Swivel Seal Replacement". Caution: Be sure leak is not at Hose Fitting!
Swivel assembly in not moving freely or locking up	Inlet hose is not flexible causing side force on swivel	Properly tighten inlet hose. Hand tighten fitting, plus 1/2 turn with wrench.

HR121 & HR122 EXPLODED AND PARTS LIST



Part No.	Description	Q'ty	Part No.	Description	Q'ty
1	Base(welded with stand)	1	13	Swivel (including 2 valve & 2 O-ring)	1
2	Stand(steel pipe covered with foam protector)	1	14	Spring washer	1
3	Fixed washer (welded on stand)	1	15	Nut	3
4	Washer	1	16	Washer	3
5	Position sleeve	1	17	Protector (rubber)	1
6	Flange A	1	18	Clamp	1
7	Sleeve	1	19	Screw	3
8	Flange B	1	20	Screw	3
9	Position sleeve	1	21	Washer	3
10	Washer	1	22	Nut	3
11	Spring	1	23	Handle	1
12	Washer	1	24	Valve	1