

MEFE
MITCHELL ENGINEERING
FOOD EQUIPMENT PTY LTD

Operating Manual



Stainless Steel Hose Reel

CAT 79S

Revision 1

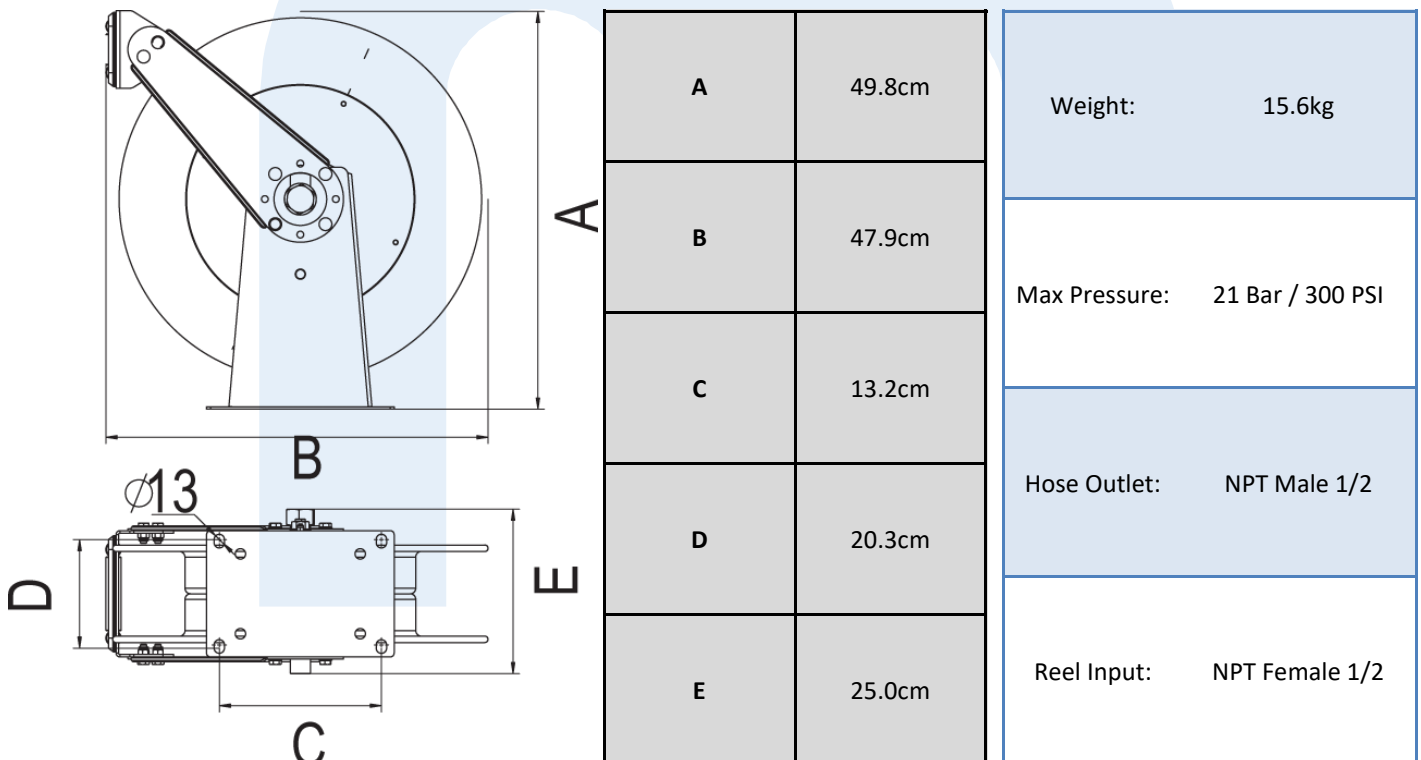
Important

Please read this manual carefully before installing, operating or servicing this equipment.

Safety

- Personal injury and/or equipment damage may result if proper safety precautions are not observed.
- Ensure that reel is properly installed before connecting input and output hoses.
- Bleed fluid/gas pressure from system before servicing reel.
- Before connecting reel to supply line, ensure that pressure does not exceed maximum working pressure rating of reel.
- Remember, even low pressure is very dangerous and can cause personal injury or death.
- Be aware of machinery and personnel in work area.
- If a leak occurs in the hose or reel, remove system pressure immediately.
- A high tension spring assembly is contained within the reel. Exercise extreme caution.
- Remove all spring tension before beginning disassembly process.
- Pull hose from reel by grasping the hose itself, not the hose end attachment.
- Ensure that reel is properly installed before connecting input and output hoses.
- If reel ceases to unwind or rewind, remove system pressure immediately. Do not pull or jerk on hose!
- Treat and respect the hose reel as any other piece of machinery, observing all common safety practices.

Specifications



Installation Instructions

Mounting

1. Unpack and inspect reel for damage. Turn by hand to check for smooth operation. Check the unit to ensure there are no missing components.
2. Configure reel for top, side, or bottom-wind hose dispensing by removing nuts securing guide arm bracket. Position guide arm bracket to desired location and replace nuts
Caution: When changing guide arm positions, the U-bolt must be placed in the proper location (See figure A - pg. 4). The reel can “latch out” during use if this is not adhered to.
3. Determine new guide arm bracket location and remove corresponding nuts. Position guide arm bracket to reel and replace nuts.
4. Position reel on floor, wall or ceiling. Secure into place using four (customer supplied) screws or bolts (3).

Installing the input hoses

Warning: Ensure that supply line pressure does not exceed maximum working pressure rating of reel. Apply thread tape to all threads.

Caution: Use flexible hose connection at input. Do not use rigid plumbing.

1. Connect the supply line hose (4) to main shaft input (5) as indicated in illustration.

Installing the Output hoses

Warning: Use extreme caution; reel under tension, avoid releasing latch mechanism. Apply thread tape to all threads.

Note: For a 22mm OD Hose, you require 1-2 rotations per meter.

1. Manually spin reel (10) towards guide arm bracket (2) until spring is tight, back off three turns, then latch.
2. Route output hose (11) through guide arm bracket (2), U bolts (12), then through cut-out (13) in spool as shown in figure 1.
3. Connect output hose (11) to swivel (14).
4. Tighten U Bolts (12),
5. Charge hose. Momentarily open control valve to purge hose of gases. When fluid appears at control valve, close valve. With hose fully charged, release latch and wind output hose onto reel.

Adjustments

Caution: Use extreme caution; reel under tension. Avoid releasing latch mechanism. If necessary, adjust spring tension on reel by adding or removing wraps of hose from spool, one wrap at a time, until desired tension is obtained. Add wraps to increase tension. Remove wraps to decrease tension. When adding wraps of hose, be careful not to exceed the winding mechanisms spring capacity. Add just enough wraps of hose to achieve the desired tension. Damage to the winding mechanism will result if spring is over-tensioned.

Service Instructions

User servicing of the reel is limited to replacing the input/output hoses only. Refer all other repairs to an authorised service person or directly to Mitchell Engineering Food Equipment Pty Ltd. Failure to do so can result in personal injury and/or equipment damage and may void the warranty.

Warning: Rewind hose on reel, then bleed pressure from system before performing the following procedures.

1. Replace hoses in accordance with procedures given in "Installation Instructions" section of this manual.
2. All moving parts are to be lubricated with Perma Bond or Loctite anti seize compound.

Caution: When replacing drive spring, hold the centre of the spring down as the hub is pulled out. If the centre is allowed to raise up, the spring may escape from its container with enough force to cause injuries.

When disposing of old or broken spring assemblies, the coils should be welded or wired together to prevent possible injury to scrap metal personnel.

