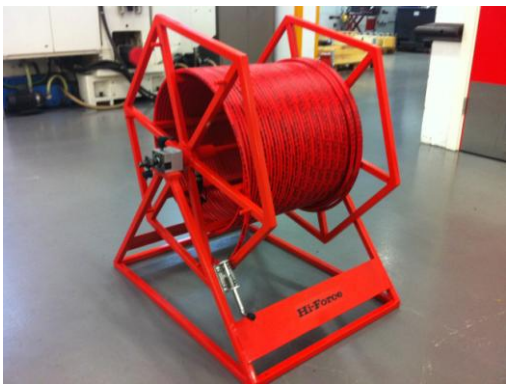
XHR1 HOSE REEL OPERATING INSTRUCTIONS.



INTRODUCTION

The Hi-Force XHR1 hose reel is designed for sub-sea main line hose connection between the pump and the first tensioner. The reel is suitable for off-shore use and can accommodate up to 300 metres of Hi-Force XHC hydraulic hose. The reel comes complete with quick connect couplings, integrated brake and a spring loaded locking bolt.

It is recommended that these instructions are read in conjunction with the STU tensioner and pump operating instructions. Hi-Force recommends the use of an AHP275BTU pump unit for tensioning duties

SAFETY NOTES.

WARNING!

All equipment used must be rated for the same operating pressure i.e. 1500 bar (21,750 psi). DO NOT MIX high and low pressure components. If in doubt, contact your local Hi-Force Distributor.

Never attempt to use this High Pressure equipment if you are in any doubt regarding the correct assembly and operation.

Always wear eye protection and gloves.

Do not exceed the maximum working pressure (1500 bar).

Never pressurise an un-coupled male coupling connector.

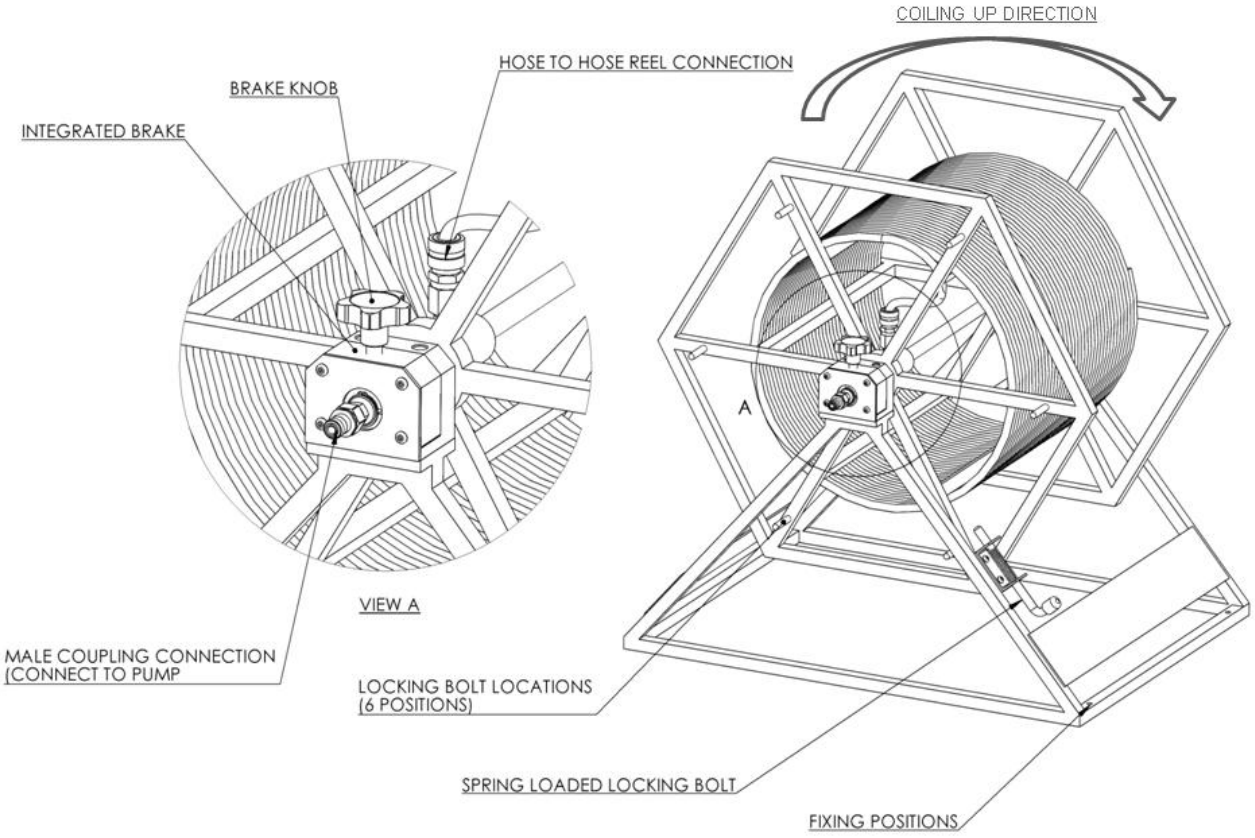
Never manually handle a pressurised hose, even with gloves.

Never attempt to solve leaks in the system while the system is pressurised.

Failure to follow these instructions will result in damage to the unit or may result in operator injury or death.

IDENTIFICATION OF COMPONENTS

Fig 1.



ASSEMBLE HOSE TO HOSE REEL

- Unravel the hose reel and connect the male coupling on the hose to the female coupling on the hose reel.
- Ensure the spring loaded locking bolt is released.
- Wind the hose carefully in rows onto the hose reel (refer to fig 1 for coiling up direction).
  Note: Ensure the coils are not overlapped and twisted as this could result in the hose being damaged.
- Engage the spring loaded locking bolt.

OPERATING INSTRUCTIONS

Note: DO NOT connect the pump unit to the hose reel until the hydraulic circuit has been fully assembled.

Uncoiling –Note: During uncoiling an authorised person is required to man the hose reel to control the reel speed and to apply the spring loaded locking bolt when the hose is at required depth.

- Tighten the knob (clockwise) on the integrated brake to apply resistance to prevent the reel speed from increasing dramatically and going out of control
  Note: the hose should be pulled / lowered at a constant speed to also prevent this from occurring.

- Lower the hose gradually to depth, if the speed increases then apply more resistance by turning the knob on the integrated brake.
  Note: the integrated brake is not a dead stop brake, as described above it's to prevent the reel speed from increasing dramatically and going out of control when being pulled / lowered.

- At depth apply the spring loaded locking bolt.

Tensioning procedure – Refer to the STU Subsea stud bolt tensioner and pump operating instructions.

Coiling up

- Ensure the pump is depressurised, turned off and disconnected from the hose reel.

- Release the spring loaded locking bolt.

- Release the knob on the integrated brake (anti-clockwise).

- Wind the hose carefully back in rows onto the reel, during this operation inspect hose for any damage i.e. cuts, kinks etc.
  Note: Ensure the coils are guided in a side by side pattern, if coils are overlapped or twisted could result in the hose being damaged.

- Apply the spring loaded locking bolt.

- Fit the dust caps to the couplings.

CARE & RECOMMENDED ROUTINE MAINTENANCE

- Inspect couplings for damage and corrosion.
- Prior to use inspect hose for damage i.e. cuts, kinks etc.
- Pressure test the hose reel at rated load (1500 bar) prior to use. This can be done by operating the pump against the un-coupled hose.
  Note: The end of the hose is fitted with a female coupler which will hold the rated load when un-coupled.
- Check the reel is free moving (without applying the integrated brake).
- Check the resistance on the reel when the integrated brake is applied. If no resistance then the brake is either worn or is contaminated with some lubrication i.e. grease, oil etc. Note: Do not apply any lubrication to the oillite bush, as the bush is self lubricating but main reason is that the lubricant will absorb into the brake material and contaminate the brake pads. If brake pads are contaminated then they will need to be replaced as there is no successful method of removing the contamination.
- When not in use ensure the dust caps are fitted.
- Protect the hose reel from the elements when not in use.

Only use genuine Hi-Force spare parts. Spare parts sheets can be downloaded from our website www.hi-force.com