



**BearsPaw  
Environmental  
Corporation**

## **BearsPaw Separators - CeptorH2X** *(Filtration Separator for Liquid Pumps)*

# **Safety Manual**

**IMPORTANT: READ AND FOLLOW ALL INSTRUCTIONS  
SAVE THESE INSTRUCTIONS**



### **Important Notice**

**Attention User.**

**This manual contains operation and safe use of this product. This information should be given to the owner/operator of this equipment.**

### **WARNING**

**Before using this product, read and follow all warning notices and instructions accompanying this tool. Failure to follow safety warnings and instructions can result in severe injury, death, or property damage.**

SAVE THESE INSTRUCTIONS

<http://www.BearspawEnvironmental.com>

[info@BearspawEnvironmental.com](mailto:info@BearspawEnvironmental.com)

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## 5.0 LIMITED WARRANTY

All products are warranted to be free of defects in material and workmanship for a period of one year from the date of shipment, subject to the limitation below: if the purchaser believes a product is defective, the purchaser shall:

- A. Notify the manufacturer, state the alleged defect and request permission to return the product
- B. If permission is given, return the product. If the product is accepted for return and found to be defective, the manufacturer will, at its discretion, either repair or replace the product.

Other than to repair or replace as described above, the purchaser agrees that the manufacturer shall not be liable for any losses, costs, expenses or damages of any kind arising out of the product's use, installation or technical data of any kind, description of product use, sample or model, warnings or lack of foregoing. No other warranties, written or oral, expressed or implied, including the warranties for fitness for particular purpose and merchantability, are made or authorized. No affirmation of fact, promise, description, of product use or sample or model shall create any warranty from the manufacturer, unless signed by the president or vice-president. These products are manufactured, sold and intended for commercial use only.

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## 1.0 CeptorH2X SAFETY INSTRUCTIONS

When using this Tool, basic safety precautions should always be followed, including the following:



### 1.1 READ AND FOLLOW ALL INSTRUCTIONS.

**1.2 WARNING:** To reduce the risk of injury, do not permit unauthorized personnel to use this product at all times.

### 1.3 PRIOR TO USE, ENSURE PROPER GROUNDING IS IN PLACE.

### 1.4 CAM LOCK SAFETY PROCEDURES SHOULD BE FOLLOWED.

**1.5 ENSURE PROPER PPE IS FOLLOWED AS PER YOUR INDUSTRY/ENVIRONMENTS REGIONAL SAFETY STANDARDS:** *In addition - personal protective equipment (PPE) suitable to any identified chemical, physical, biological or ergonomic hazard must be worn. Jewelry, watches and rings, etc. shall be removed if wearing them interferes with the protection offered by the PPE selected or if they have the potential to constitute a hazard during the work or job task. Tool should be placed in lowest point of the containment site to be pumped out. Tool is placed on Top of sand or gravel and is not to be used as a shovel.*

 <b>DANGER</b>	
	<p><b>Failure of improper selection or improper use of quick action couplings or related accessories can cause death, personal injury and property damage. Possible consequences of failure or improper selection or improper use of quick action couplings or related accessories include but are not limited to:</b></p> <ul style="list-style-type: none"><li>• Couplings or parts thrown off at high speed.</li><li>• High velocity fluid discharge.</li><li>• Explosion or burning of the conveyed fluid.</li><li>• Contact with suddenly moving or falling objects that are to be held in position or moved by the conveyed fluid.</li><li>• Dangerously whipping hose.</li><li>• Contact with conveyed fluids that may be hot, cold,</li></ul>

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## 4.0 HOSE AND FITTING MAINTENANCE & REPLACEMENT INSTRUCTIONS

**4.1 VISUAL INSPECTION TOOL AND FITTING:** Any of the following conditions require immediate shut down and replacement of the Tool or Fitting:

- Fitting slippage on Tool CeptorH2X;
- Damaged, cracked, cut or abraded cover (any reinforcement exposed);
- Cracked, damaged, or badly corroded Fittings;
- Leaks at Fitting;
- Kinked, crushed, flattened or twisted Hose; and
- Blistered, soft, degraded, or loose cover.
- Making the final selection of the Products.
- Assuring that the user's requirements are met and that the application presents no health or safety hazards.
- Providing all appropriate health and safety warnings on the equipment on which the Products are used.
- Assuring compliance with all applicable government and industry standards.

**4.2 VISUAL INSPECTION ALL OTHER:** It is recommended that your CeptorH2X be serviced by your BearsPaw Representative

- Two inch models: maintenance required after 25,000 cubic meters
- All other models: refer to website for maintenance schedule

**4.3 STORAGE:** Stored Tool must not be subjected to damage that could reduce their expected service life and must be placed in a dry area with the end capped. Stored Tool must not be exposed to ozone, oils, corrosive liquids or fumes, solvents, high humidity, rodents, insects, ultraviolet light, electromagnetic fields or radioactive materials.

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### 3.2 BONDING AND GROUNDING OF NON-ELECTRICAL

**EQUIPMENT:** The following specific controls must also be in place:

- Ensure metal parts of equipment (e.g., mud, pumps, mud tanks, centrifuges, boilers, or generators) are electrically bonded together and grounded.
- Use bonding wire no smaller than American Wire Gauge (AWG) number 6 to prevent mechanical damage. AWG number 4 is recommended.
- Attach wires with approved lugs / clips to unpainted, clean and dedicated locations. Use an Ohm meter (with Hot Work Permit) to test the connection if unsure. Alligator clips or spring enabled booster clamps are not acceptable as they may easily dislodge.
- Ensure bonding and grounding wires are without joints or splices throughout their length.
- Ensure continuity of bonding and grounding system controls.

### 3.3 BONDING AND GROUNDING OF ELECTRICAL EQUIPMENT:

The following specific controls must also be in place:

- Install ground rod for electrical generators/lights plant in accordance with manufacturer specifications, grounding drawings, and regulatory requirements.

### 3.4 STEAM CLEANING / HIGH PRESSURE WASHING:

The following specific controls must also be in place:

- Steam hose nozzles and steam lines are to be bonded to the vessel being cleaned.
- All components of the steaming system are conductive and grounded. A second bonding wire from the vessel is recommended.
- No insulated or spark-promoting objects are present inside the vessel.
- All conductive components of the tank are bonded and grounded together.
- Start the initial flow of steam at a low rate until most of the atmosphere in the vessel is replaced with steam.

## 2.0 GENERAL INSTRUCTIONS

**2.1 FAIL SAFE:** Quick action couplings or the hose they are attached to can fail without warning for many reasons. Design all systems and equipment in a fail-safe mode so that failure of the quick action coupling or hose will not endanger persons or property.

**2.2 DISTRIBUTION:** Provide a copy of the safety guide to each person that is responsible for selection or using quick action coupling products. Do not select or use quick action couplings without thoroughly reading and understanding this safety guide.

**2.3 USER RESPONSIBILITY:** Due to the wide variety of operating conditions and applications for the Tool, BearsPaw does not represent or warrant that any particular Hose or Fitting is suitable for any specific end use system. This safety guide does not analyze all technical parameters that must be considered in selecting a product. The user, through its own analysis and testing, is solely responsible for:

- Making the final selection of the Products.
- Assuring that the user's requirements are met and that the application presents no health or safety hazards.
- Providing all appropriate health and safety warnings on the equipment on which the Products are used.
- Assuring compliance with all applicable government and industry standards.



**2.4 ADDITIONAL QUESTIONS:** Call the appropriate BearsPaw technical service department if you have any questions or require any additional information.

**2.5 FLUID COMPATABILITY:** Quick action couplings selection must assure compatibility of the body and seal materials with the fluid media used.

**2.6 TEMPERATURE:** Be certain that fluid and ambient temperatures, both steady and transient, do not exceed the limitations of the quick action couplings. Use caution and hand protection when connecting or disconnecting quick action couplings that are heated or cooled by the media they are conducting or by their environment.

**2.7 ENVIRONMENT:** Care must be taken to ensure that quick couplings are either compatible with or protected from the environment to which they are exposed. Environmental conditions including but not limited to ultraviolet radiation, ozone, moisture, water, salt water, chemicals, and air pollutants can cause degradation and premature failure.

**2.8 LOCKING MEANS:** Ball locking quick action couplings can unintentionally disconnect if they are dragged over obstructions on the end of a hose or if the sleeve is bumped or moved enough to cause disconnect. Sleeves designed with flanges to provide better gripping for oily or gloved hands are especially susceptible to accidental disconnect and should not be used where these conditions exist. Sleeve lock or union (threaded) sleeve designs should be considered where there is a potential for accidental uncoupling.

 <b>STATIC ELECTRICITY WARNING</b>	
	<b>To reduce the risk of electrical shock, safe grounding practices must be followed. Failure to do so could result in an electrical shock to Tool users or others which can result in serious personal injury or death.</b>

## 3.0 BONDING AND GROUNDING:

### 3.1 BONDING AND GROUNDING THE TRANSFER OF FLAMMABLE LIQUIDS:

The following specific controls must also be in place:

- Proper grounding cables shall always be used when transferring flammable liquids - static discharging hoses do not substitute as a grounding/bonding cable.
- In temporary situations (tank truck loading/ off-loading) where there is little or no foot/machine traffic and the chances of dislodgment of the bonding cables is negligible, alligator clips may be used (providing they are in good condition and make sufficient surface contact).
- Ensure containers are in contact with each other (or connected using a bonding cable) and remain continuously electrically bonded throughout the transfer to prevent accumulation of static electric charge.
- Ensure containers are made from a conductive material compatible with the fluid being transferred. Tanks constructed of non-conductive materials are not permitted for storage of National Fire Prevention Association (NFPA) Class I, Class II, and Class IIIA liquids. Tanks, mixers, and process vessels used for flammable or explosive substances must be bonded and grounded together during liquid transfer.
- Maintain low vessel filling rates until the loading spout is submerged to help avoid the buildup of static electricity.
- Place fill spouts as low as possible in the containers to help dissipate any charge build-up.
- Monitor lower explosive limits (LELs) and wear proper personal protective equipment (PPE) as required depending on the substance being transferred.