



BLEEDER CLEANER INSTRUCTION MANUAL

Straight Shaft



Flexible Shaft



Twist Drill Bit



90° Tool



135° Tool



Everlast Drill Bit



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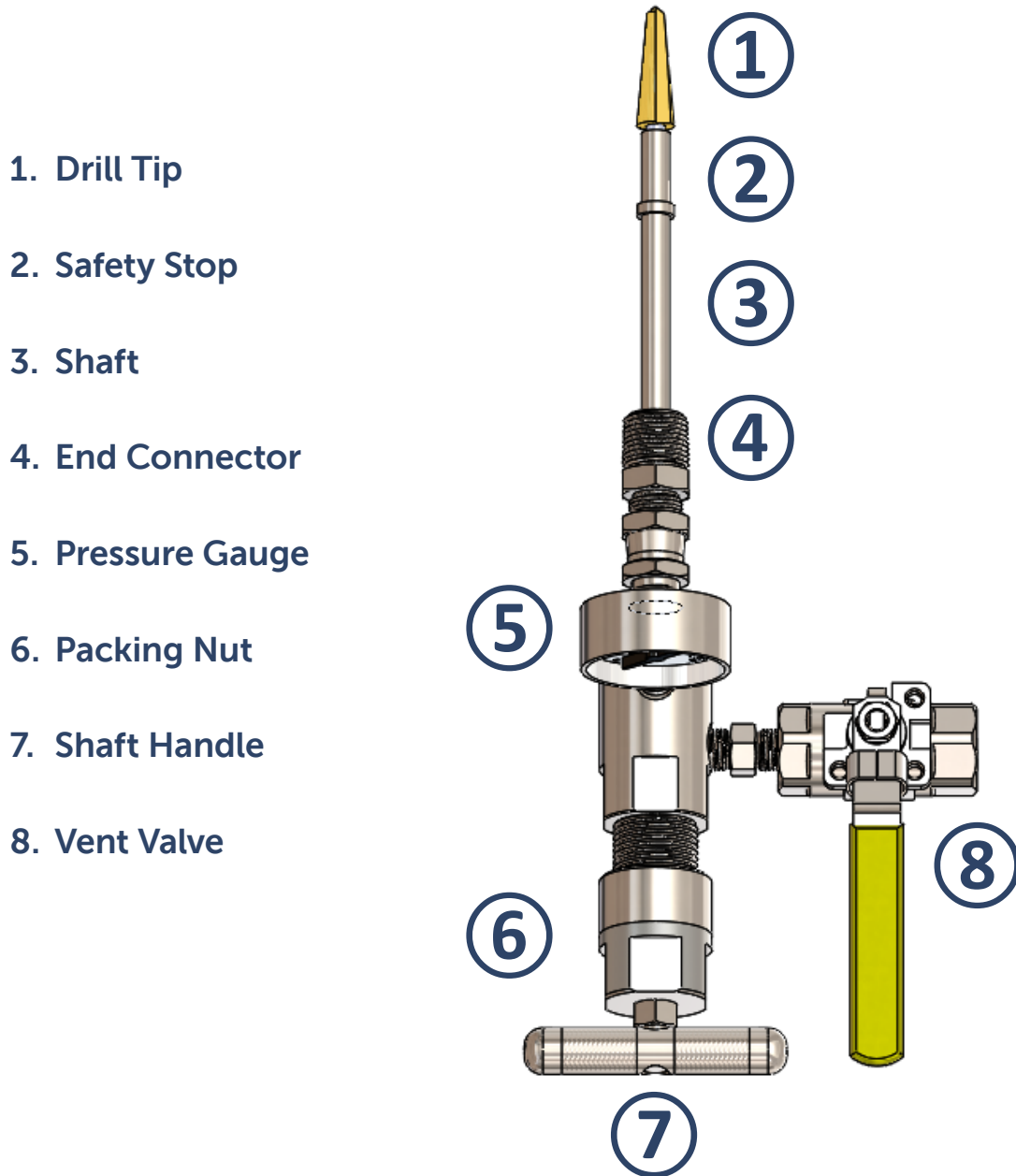
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Safety

- ⚠ Read through the operating procedure carefully before attempting installation. Failure to comply with this procedure may result in damage or injury.
- ⚠ Wear proper PPE when performing any task with the USA Industries Bleeder Cleaner as defined by site safety rules. USA Industries recommends a minimum of eye, hearing, and hand protection when operating the USA Industries Bleeder Cleaner.
- ⚠ Do not exceed ratings marked on tool. The pressure and temperature rating is based on zero process flow.
- ⚠ Do not stand directly behind the USA Industries Bleeder Cleaner *Shaft Handle* ⑦.
- ⚠ Do not use any tool to gain leverage on the USA Industries Bleeder Cleaner *Shaft Handle* ⑦.
- ⚠ When breaking through a blockage with the USA Industries Bleeder Cleaner, pressure and temperature may spike dramatically. Prepare for this and take proper precaution to avoid injury. (A 3/8" shaft with 1,000 psig applied to it can generate up to 110 lbs. of force.)
- ⚠ The USA. Industries, Inc. Bleeder Cleaner *Vent Valve* ⑧ is for bleed-off only.
- ⚠ The USA Industries Bleeder Cleaner is not intended for continuous process flushing.
- ⚠ Clean tool after each use.
- ⚠ Only use replacement parts from USA Industries, Inc.

3. Product Diagram



All wetted parts are 316 stainless steel, excluding packing and seal materials.

4. Before Installation

#:	Step / Action:	Additional Action / Information / Result:
4.1	Ensure that USA Industries' Bleeder Cleaner is compatible with the size and product in the designated valve.	<ul style="list-style-type: none"> <input type="checkbox"/> Confirm that service pressure does not exceed the maximum pressure indicated on the tool. <input type="checkbox"/> Packing is suitable for all process mediums at 0-14 pH with the exception of strong oxidizers in the 0-2 pH range. Consult manufacturer for solutions to strong oxidizers.
4.2	Visually inspect the Bleeder Cleaner before every installation.	<ul style="list-style-type: none"> <input type="checkbox"/> Ensure that all fittings are secure and packing nut is tight. <input type="checkbox"/> It is recommended to pressure test the Bleeder Cleaner prior to use. Ensure the <i>Pressure Gauge</i> ⑤ is working properly and that there are no leaks at the <i>Packing Nut</i> ⑥ and <i>Vent Valve</i> ⑧. <input type="checkbox"/> Use open-end or crescent wrench on flats of <i>Packing Nut</i> ⑥ to tighten as needed. Use a nickel-based anti-seize compound on the threads to prevent galling. <input type="checkbox"/> Worn or damaged parts can be purchased separately if needed for replacement. <input type="checkbox"/> Make sure vent valve on the Bleeder Cleaner is closed. <input type="checkbox"/> Measure the length of the <i>Shaft</i> ③ when fully retracted. Note this length for removal of the Bleeder Cleaner. <input type="checkbox"/> Ensure that the safety lock on the <i>Vent Valve</i> ⑧ is present and functional. <p>NOTE: Packing needs to be changed if the <i>Packing Nut</i> ⑥ has ¼" (0.25 in.) of travel or less or if the Bleeder Cleaner is leaking with 100 ft./lbs. or torque on the packing nut.</p>
4.3	Visually inspect the valve before installation.	<ul style="list-style-type: none"> <input type="checkbox"/> Check thread on <i>Bleeder Valve</i>. Clean if necessary to allow a good connection.

5. USA Industries' Bleeder Cleaner Installation and Usage

#:	Step / Action:	Additional Action / Information / Result:
5.1	Screw the <i>End Connector</i> ④ onto the <i>Process Valve</i> .	<input type="checkbox"/> Ensure all connections are tight. <input type="checkbox"/> Use appropriate thread sealant.
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5.2	Close the <i>Vent Valve</i> ⑧ on the Bleeder Cleaner.	<p>NOTE: Failure to do so will cause product to vent and may cause tool failure or injury.</p> <input type="checkbox"/> If desired, the <i>Vent Valve</i> ⑧ can be connected to a hose to allow remote venting of hazardous materials in the line. <input type="checkbox"/> The <i>Vent Valve</i> ⑧ is lockable for operator safety.
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5.3	Open the <i>Process Valve</i> to be cleaned slowly.	
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5.4	Grasp the <i>Shaft Handle</i> ⑦ with one hand, and using a clockwise motion, turn while applying forward pressure.	<input type="checkbox"/> The drill tip will pass through the valve, clearing any stoppage. <input type="checkbox"/> Compress the <i>Shaft Handle</i> ⑦ to insert the drill tip as deeply through the valve as necessary to ensure clear access to the process pipe. <p>NOTE: Upon breaking through the stoppage, pressure could greatly rise and the <i>Shaft Handle</i>⑦ may require more force to insert.</p>
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5.5	Draw the <i>Shaft Handle</i> ⑦ back while twisting as needed in any direction.	<input type="checkbox"/> This will back out the <i>Shaft</i> ③. <input type="checkbox"/> Continue to back out the <i>Shaft</i> ③ fully until the safety stop has been engaged. <input type="checkbox"/> Ensure that the <i>Shaft</i> ③ is extended to the measurement taken during step 4.2. <p>NOTE: Be careful to control the <i>Shaft Handle</i>⑦ while retracting.</p>



6. USA Industries' Bleeder Cleaner Removal

#:	Step / Action:	Additional Action / Information / Result:
6.1	Close the process valve.	NOTE: Failure to do so will cause product to flush through the Bleeder Cleaner and may cause tool failure or injury. NOTE: Do not flush through the Bleeder Cleaner.
6.2	Open the <i>Vent Valve</i> ⑧ on the Bleeder Cleaner.	NOTE: Product will vent at this point. Use caution to avoid injury.
6.3	Open the <i>Process Valve</i> to be cleaned slowly.	
6.4	If blockage is not cleared, repeat <i>Section 5</i> - USA Industries' Bleeder Cleaner Installation and Use.	
6.5	Unscrew the <i>End Connector</i> ④ from the valve.	



7. USA Industries' Bleeder Cleaner Inspection After Use

#:	Step / Action:	Additional Action / Information / Result:
7.1	Clean and dry the Bleeder Cleaner.	<ul style="list-style-type: none"><input type="checkbox"/> Use a suitable solvent or degreaser for the material being processed.<input type="checkbox"/> If used in acid or caustic, flush thoroughly with water and a neutralizer.<input type="checkbox"/> If operating pressure allows, a steam or other suitable purge can be added to the clearing operation through the provided pressure bleed-off valve on the Bleeder Cleaner. Do not exceed 400 °F steam.
7.2	Inspect the Bleeder Cleaner for wear and replace any damaged parts.	<ul style="list-style-type: none"><input type="checkbox"/> Contact USA Industries for additional components if replacements are needed.<input type="checkbox"/> USA Industries can provide an annual inspection and refurbishing for Bleeder Cleaners. Contact us for details.
7.3	Store the Bleeder Cleaner in a safe and dry area.	