

BROCO — Technical Service Bulletin (TSB)

Date: October 14, 2025

To: Authorized Distributors and End Users

Subject: BR-22 Underwater Cutting Torch — Oxygen Valve Lever Clearance & Pre-Use Inspection Guidance

Models Affected: BR-22 Underwater Cutting Torch units assembled approximately between June 13, 2025 and September 30, 2025. Serial number series 57103-58245 The BR-22 PLUS is not included.

Important Safety Information

Under certain operational conditions, some BR-22 torches may exhibit oxygen flow when the cylinder valve is opened if the oxygen valve lever lacks sufficient clearance at rest. Follow the inspection and testing steps below before first use and after any service where the lever or valve assembly has been disturbed.

DANGER: Oxygen supports rapid combustion. Always follow the Operator's Manual, use appropriate PPE, keep ignition sources controlled, and perform all checks in a safe, ventilated area with a regulated supply.

Required Actions (Distributors & Users)

1. **Distributor Notice Forwarding.** Distributors must promptly share this TSB with downstream customers in their records and maintain distribution logs.
2. **Pre-Use Inspection (Qualified Personnel).** With the torch isolated from fuel/ignition sources and disconnected from power:
 - Visually confirm a small, visible gap between the oxygen valve lever's inside corner and the valve stem when the lever is in its resting position.
 - Verify the lever moves freely without contacting or loading the valve stem at rest. Do not modify components.
3. **Functional Check (Regulated Supply).** Connect to a clean, regulated oxygen supply. Open the cylinder valve and set regulator to normal working pressure.
Pass condition: No oxygen should pass through the torch unless the lever is intentionally depressed.
Fail condition: If oxygen passes at rest or if lever clearance appears insufficient, remove the torch from service and proceed to Step 4.
4. **Service Path.** Do not attempt field modifications. Contact Broco or an authorized service center for inspection and standard service procedures. Broco will guide you to the appropriate service option (inspection/rework/replacement per standard policies).

Notes for Service Centers (Qualified Personnel Only)

- Use current service instructions to confirm lever-to-valve-stem clearance at rest and perform the oxygen valve and path pressure checks after lever installation and handle reassembly.

- Document inspection results and serials; retain records consistent with your quality procedures.

Additional Guidance & Documentation

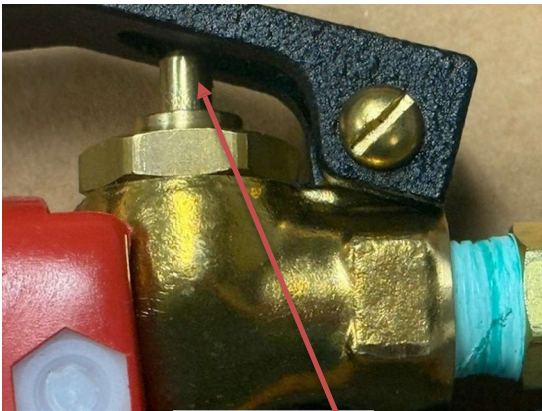
- This TSB supplements, and must be read with, the BR-22 Operator's Manual. Users remain responsible for pre-use inspection and safe operation per the Manual and applicable standards.
- Maintain records of receipt, inspection, service performed, and verification of functional checks.

Contact

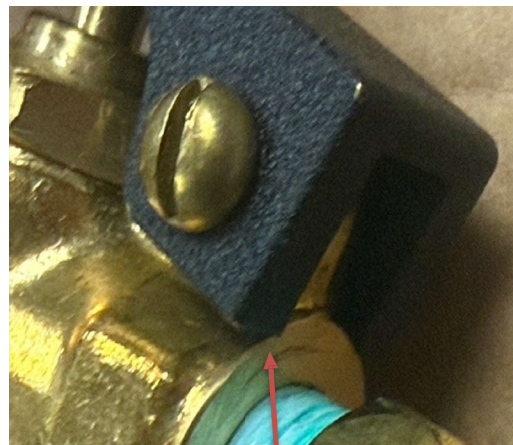
For questions, service authorization, or to locate an authorized service center: Broco-Rankin
Customer Support • +1 (909) 483-3222 • sales@broco.com

Reservation of Rights / Legal Notice

This bulletin provides technical guidance to assist with inspection and service by qualified personnel. It does not constitute a recall or an admission regarding any product condition and does not modify any warranty or contractual terms. Broco-Rankin reserves all rights and may update this guidance as additional information becomes available.



Should be approximately 1/16" movement between lever and valve stem



Interference at inside corner limits lever movement which holds valve stem down allowing oxygen flow