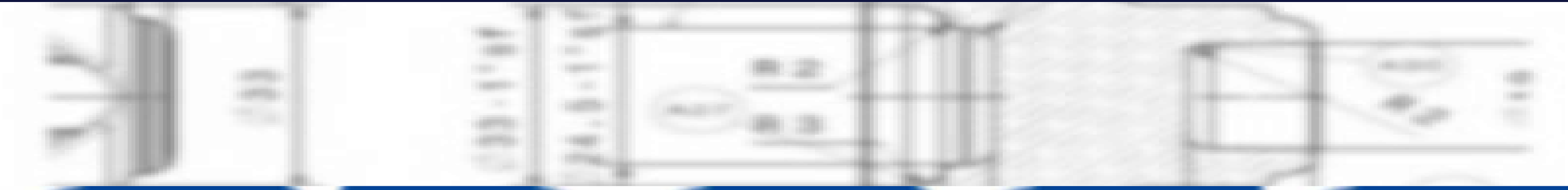
Service and Repair Operative Manual

# General Troubleshooting

*for Cressi Regulators*



CRESSI

⚠ **WARNING**: *This is a partial average list of possible troubles and recommended related corrections. Please refer to each Service and Repair operative models manual for more information, or contact Cressi sub Repair Dept for assistance before proceeding with any disassembling or maintenance procedure just in case of troubles not described here.*
*Recommended treatments which require disassembly of the regulator must be performed during a complete overhaul, according to the prescribed procedures for scheduled, annual service. Do not attempt to perform partial service*

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| SYMPTOM | POSSIBLE CAUSE | CORRECTION |
|---|---|---|
| High pressure creep (which causes second-stage leaks) | 1. HP Poppet seat is worn or damaged | 1. Replace HP seat |
| | 2. Orifice damaged. | 2. Replace orifice |
| | 3. Balancing chamber backup O-ring damaged or worn. | 3. Replace O-ring |
| | 4 Balancing chamber internal wall damaged | 4. Replace Balancing Chamber |
| | 5. Backup ring damaged or worn | 5. Replace Backup rng |
| External air leakage -Or- Secondary diaphragm distended or swollen | 1. LP / HP Port plug o-rings worn or damaged | 1. Replace o-rings |
| | 2. Diaphragm worn or damaged | 2. Replace diaphragm |
| | 3. S.C. Diaphragm swollen (under pressure) | 3. Repeat Assembly procedure S.C. (see 1° stage model service manual proced.) |
| | 4. Diaphragm seating surface damaged | 4. Replace body |
| | 5. 1st stage closing disk loose | 5. Tighten 1° stage slosing disk |
| | 6. Inlet (Yoke/DIN) fitting O-ring worn or damaged | 6. Replace o-ring |
| Restricted air flow or high inhalation resistance through entire system | 1. Cylinder valve not completely open | 1. Open valve; check fill pressure |
| | 2. Cylinder valve needs service | 2. Switch to different cylinder |
| | 3. Filter is clogged | 3. Replace filter |

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| SYMPTOM | POSSIBLE CAUSE | CORRECTION |
|---|---|---|
| Restricted airlow/high inhalation resistance through entire system | 1. Cylinder valve not completely opened. | 1. Open valve. Check ill pressure |
| | 2 Cylinder valve requires service | 2 . Connect to a different cylinder |
| | 3. Conical Filter contaminated | 3. Replace Filter with new |
| | 4. Insuficient medium pressure | 4. See below |
| Insuficient medium pressure | 1. Low inlet pressure | 1. Refill test cylinder |
| | 2. Main spring weakened | 2. Replace main spring |
| High intermediate pressure (leakage or freeflow through second stage) | 1. HP seat damaged or worn | 1. Replace HP seat |
| | 2 . Piston o-rings damaged and worn | 2 . Replace o-rings |
| | 3. Crown orifice sealing surface damaged | 3. Replace body |
| | 4. Damaged piston | 4. Replace piston |
| Leakage of air from ambient ports of piston cap | 1. Piston head or shaft o-ring damaged or worn | 1. Replace piston or o-ring |
| | 2. Dirty on cap wall or wall scratched | 2.. Check or replace cap |
| *(Balanced Piston 1° stage only)* | 3. Revolving turret Oring damaged or closing loose | 3. Replace oring or tighten 1 st stage revolving turret screw |
| Leakage of air from inlet itting | 1. Inlet (Yoke/DIN) fitting o-ring damaged | 1. Replace o-ring |

Cressi Piston First stage general Troubleshooting

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| SYMPTOM | POSSIBLE CAUSE | CORRECTION |
|---|---|---|
| Leakage or freeflow from second stage | 1. High first-stage intermediate pressure. (should be 146±5 psi) | 1. Refer to first-stage Troubleshooting Guide. |
| | 2. LP seat damaged or worn. | 2. Replace LP seat. |
| | 3. LP orifice adjusted incorrectly, lever set too high | 3. Reset LP orifice preliminary settings, refer to model service manual |
| | 4. Orifice sealing surface damaged. | 5. Replace orifice |
| | 5. Poppet spring damaged. | 6. Replace spring. |
| Low purge or excessive work of breathing (full cylinder) | 1. Low first-stage intermediate pressure. (should be 146±5 psi) | 1. Refer to first-stage Troubleshooting Guide. |
| | 2. Orifice adjusted incorrectly or lever set too low. | 2. Reset orifice to preliminary settings and repeat Adjustment Procedures refer to model service manual |
| | 3. Intermediate pressure hose clogged or obstructed. | 3. Clean or replace hose. |
| | 4. Lever bent | 4. Replace lever. |
| Water entering second-stage | 1. Hole in mouthpiece | 1. Replace mouthpiece. |
| | 2. Demand diaphragm damaged. | 2. Replace diaphragm. |
| | 3. Exhaust valve damaged. | 3. Replace valve. |
| | 4. Venturi control lever o-ring dirty, dam - aged, or worn. | 4. Disassemble and replace o-ring. |
| | 5. Diaphragm improperly seated between 2° stage body bottom and closing ring | 5. Remove front cover and properly reassemble closing ring with diaphragm (check for pair with case ). |
| | 7. Inlet o-ring valve body damaged. | 7. Replace o-ring. |
| | 8. Adjustment knob o-rings worn or damaged | 8. Replace o-ring(s) |

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| SYMPTOM | POSSIBLE CAUSE | CORRECTION |
|---|---|---|
| Leakage or freeflow from second stage | 1. High first-stage intermediate pressure. (should be 146±5 psi) | 1. Refer to first-stage Troubleshooting Guide. |
| | 2. LP seat damaged or worn. | 2. Replace LP seat. |
| | 3. LP orifice and / or locknut adjusted incorrectly, lever set too high | 3. Reset LP orifice and locknut to preliminary settings, refer to model service manual procedures |
| | 4. Orifice sealing surface damaged. | 5. Replace orifice |
| | 5. LP valve spring damaged. | 6. Replace spring. |
| Low purge or excessive work of breathing (full cylinder) | 1. Low first-stage intermediate pressure. (should be 146±5 psi) | 1. Refer to first-stage Troubleshooting Guide. |
| | 2. Orifice and / or locknut adjusted incorrectly or lever set too low. | 2. Reset orifice and locknut to preliminary settings and repeat Adjustment Procedures refer to model service manual |
| | 3. Intermediate pressure hose clogged or obstructed. | 3. Replace hose. |
| | 4. Lever bent | 4. Replace lever. |
| Water entering second-stage | 1. Hole in mouthpiece | 1. Replace mouthpiece. |
| | 2. Demand diaphragm damaged. | 2. Replace diaphragm. |
| | 3. Exhaust valve damaged. | 3. Replace valve. |
| | 4. Venturi control lever o-ring dirty, damaged, or worn. | 4. Disassemble and replace o-ring. |
| | 5. Diaphragm improperly seated between 2° stage body bottom and closing ring | 5. Remove front cover and properly reassemble closing ring with diaphragm (check for pair with case ). |
| | 7. Inlet o-ring valve body damaged. | 7. Replace o-ring. |
| | 8. Adjustment cap o-ring worn or damaged | 8. Replace o-ring |