

Troubleshooting ZipTENSIONER Subsea Flange Puller

Problem	Possible Causes	Possible Solutions
Cylinder does not hold pressure	<ol style="list-style-type: none"> 1. Cylinder seal leaking 2. Leaking connection 3. Pump malfunction 	<ol style="list-style-type: none"> 1. Change cylinder 2. Tighten connections 3. Change pump
Cylinder does not advance or advances slowly	<ol style="list-style-type: none"> 1. Pump release valve open 2. Not enough oil in pump 3. Air in system 4. Couplers not tightened 5. Pump reservoir too small 6. Strainer on pump is clogged 	<ol style="list-style-type: none"> 1. Close valve 2. Add oil 3. Bleed air 4. Fully tighten couplers 5. Change pump (use one w/ larger reservoir) 6. Clean Strainer
Cylinder advances slowly	<ol style="list-style-type: none"> 1. Leaking connection 2. Restricted hydraulic hose or fitting 3. Loose coupler 4. Pump flow rate too slow 	<ol style="list-style-type: none"> 1. Tighten connections 2. Change hoses or fittings 3. Tighten couplers 4. Change pump (use one w/ faster flow rate)
Cylinder does not retract, retracts slowly or retracts partially	<ol style="list-style-type: none"> 1. Pump release valve closed 2. Coupler not fully closed 3. Blocked hydraulic hose 4. Pump reservoir overfilled 	<ol style="list-style-type: none"> 1. Open valve 2. Close coupler 3. Replace hoses 4. Remove excess oil