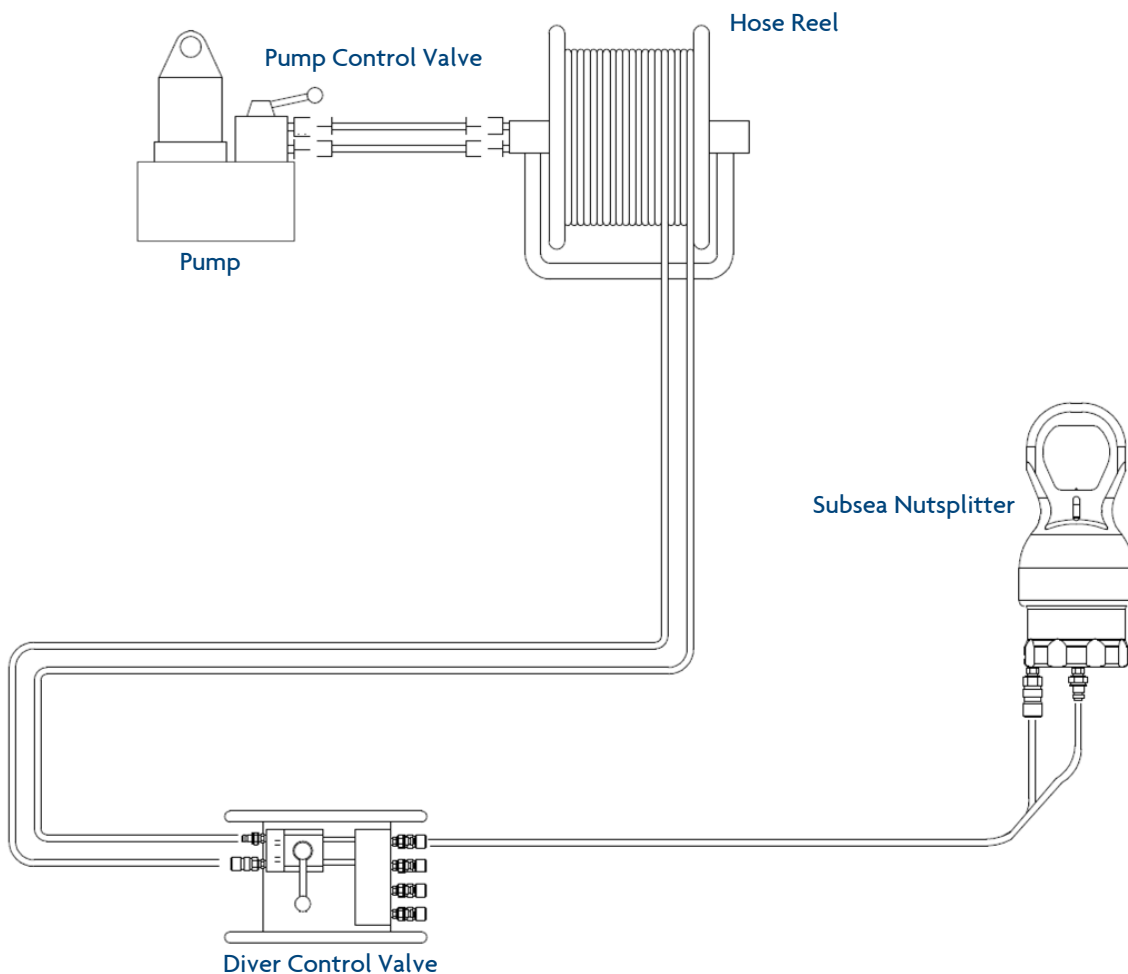


HYDRAULIC BOLT TENSIONING

Subsea Hydraulic Nut Splitter Operation



1. Prepare the nutsplitter for use in accordance with the Subsea Nutsplitter Operating Manual
2. Prior to deploying subsea, connect pump, hose reel, diver control valve and nutsplitter as indicated.
3. Place the Pump Control Valve in the ADVANCE position (marked 'A' on the top the valve unit). Move Diver Control Valve to ADVANCE position, open pump air valve (pump will start) and allow Nutsplitter to fully stroke forward. Adjust pump pressure to deliver 10,000psi. Move diver control valve to IDLE position, and allow the pressure to subside (wait about 10 seconds), then move diver control valve to RETRACT and allow nutsplitter to fully retract. Stop the pump unit.
4. Depressurise the entire system by moving the Pump Control Valve back to it's mid or central position. Allow a few seconds for the hoses to vent. Depressurise the diver control valve by moving back and forth between ADVANCE and RETRACT.
5. Deploy the equipment subsea.
6. Place the Pump Control Valve in the ADVANCE position (marked 'A' on the top the valve unit).. Ensure that the diver control valve is in the RETRACT position and open the pump air valve to start the pump.
7. Position the Nutsplitter onto the nut and then move the diver control valve into the ADVANCE position. The Nutsplitter blade will stroke forward and begin to cut the nut. Always position the nutsplitter such that the blade will cut in the centre of the nut flat.
8. Once the nut has been split. Move the diver control valve into the IDLE position, wait 10 secs to de-pressurise, then move the valve to RETRACT, and allow the nutsplitter to fully retract. Leave the diver control valve in the RETRACT mode and re-position the nutsplitter ready for the next cut.
9. Upon completion, i.e. all nuts have been split, de-pressurise the system as indicated in Step 4 above. The equipment may now be disconnected.



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HYDRAULIC BOLT TENSIONING

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