



Hands on Hydraulics

HOH

20 ideas that the student will learn and use back on the job...

1. System relief valve setup considerations for fixed displacement pumps
2. How to properly set a spike pressure relief valve when used with a pressure compensated variable displacement pump
3. How to evaluate hot running hydraulic systems
4. Determine why the hydraulic pump's electric drive motor shuts down on overload
5. Troubleshooting worn pumps
6. What's the difference between meter-in and meter out speed control
7. When meter-out speed control cannot be used
8. Understand stack valve systems by properly reading and interpreting a hydraulic schematic
9. Properly assemble D03 stack valve systems according to a hydraulic schematic
10. Understand and properly setup a pressure compensated pump
11. Understand and properly setup a remote pressure compensated pump
12. Understand and properly setup a load sensing/meter in pressure compensated pump
13. Properly check accumulator precharge pressure
14. Add nitrogen to an accumulator
15. Setup a counterbalance circuit
16. Understand the proper configuration of a hydraulic circuit when flow controls, counterbalance and load holding valves are all used to control the operation of a cylinder circuit
17. Understand the application of various directional control spool types
18. Determine if a cylinder has a piston seal leak
19. Develop troubleshooting techniques
20. Develop schematic reading and interpretation techniques