Claims

1. A high pressure intensifier system comprising:

a high pressure intensifier for receiving hydraulic fluid from an input and providing the fluid to an output at a higher pressure than at the input;

means for monitoring the pressure of hydraulic fluid provided at the output; and

control means for controlling the supply of hydraulic fluid to the input for maintaining the pressure of hydraulic fluid provided at the output at substantially a predetermined value.

2. A system according to claim 1, wherein said control means includes a valve via which the hydraulic fluid is supplied from said input and means for opening and closing the valve in dependence on the pressure of hydraulic fluid at said output as monitored by said monitoring means.

3. A system according to claim 1, wherein means control means includes electronic means coupled with said monitoring means for comparing the pressure of hydraulic fluid provided at said output with a predetermined value.

4. A system according to claim 1, wherein said control means comprises:

a valve via which the hydraulic fluid is supplied from said input; and

electronic means coupled with said monitoring means for comparing the pressure of hydraulic fluid provided at said output with a predetermined value, said electronic means controlling the opening and closing of said valve in dependence on the result of comparison for maintaining the pressure of hydraulic fluid provided at said output substantially at said predetermined value.

5. A system according to claim 3 or 4, wherein said electronic means is provided in a subsea electronic module for a subsea well control system.

6. A system according to any of claims 3 to 5, including means coupled with said electronic means for monitoring the pressure of hydraulic fluid at said input.

7. A system according to claim 4 or either of claims 5 and 6 as dependent on claim 4, including means coupled with said electronic means for monitoring the pressure of hydraulic fluid supplied by said valve.

8. A system according to any preceding claim, wherein said predetermined value is adjustable via said control means.

Claims

1. A high pressure intensifier system comprising:

a high pressure intensifier for receiving hydraulic fluid from an input and providing the fluid to an output at a higher pressure than at the input;

means for monitoring the pressure of hydraulic fluid provided at the output; and

control means for controlling the supply of hydraulic fluid to the input for maintaining the pressure of hydraulic fluid provided at the output at substantially a predetermined value, said control means including electronic means coupled with said monitoring means for comparing the pressure of hydraulic fluid provided at said output with a predetermined value, characterised in that:

said electronic means is provided in a subsea electronic module for a subsea well control system.

2. A system according to claim 1, wherein said control means comprises a valve via which the hydraulic fluid is supplied from said input, said electronic means controlling the opening and closing of said valve in dependence on the result of comparison for maintaining the pressure of hydraulic fluid provided at said output substantially at said predetermined value.

3. A system according to claims 1 or 2, including means coupled with said electronic means for monitoring the pressure of hydraulic fluid at said input.

4. A system according to claim 2, or claim 3 as dependent on claim 2, including means coupled with said electronic means for monitoring the pressure of hydraulic fluid supplied by said valve.

5. A system according to any preceding claim, wherein said predetermined value is adjustable via said control means.