

This information is for electric connections of Sidepower controlpanels to control hydraulic thrusters with ON / OFF hydraulic thrusters.

Description:

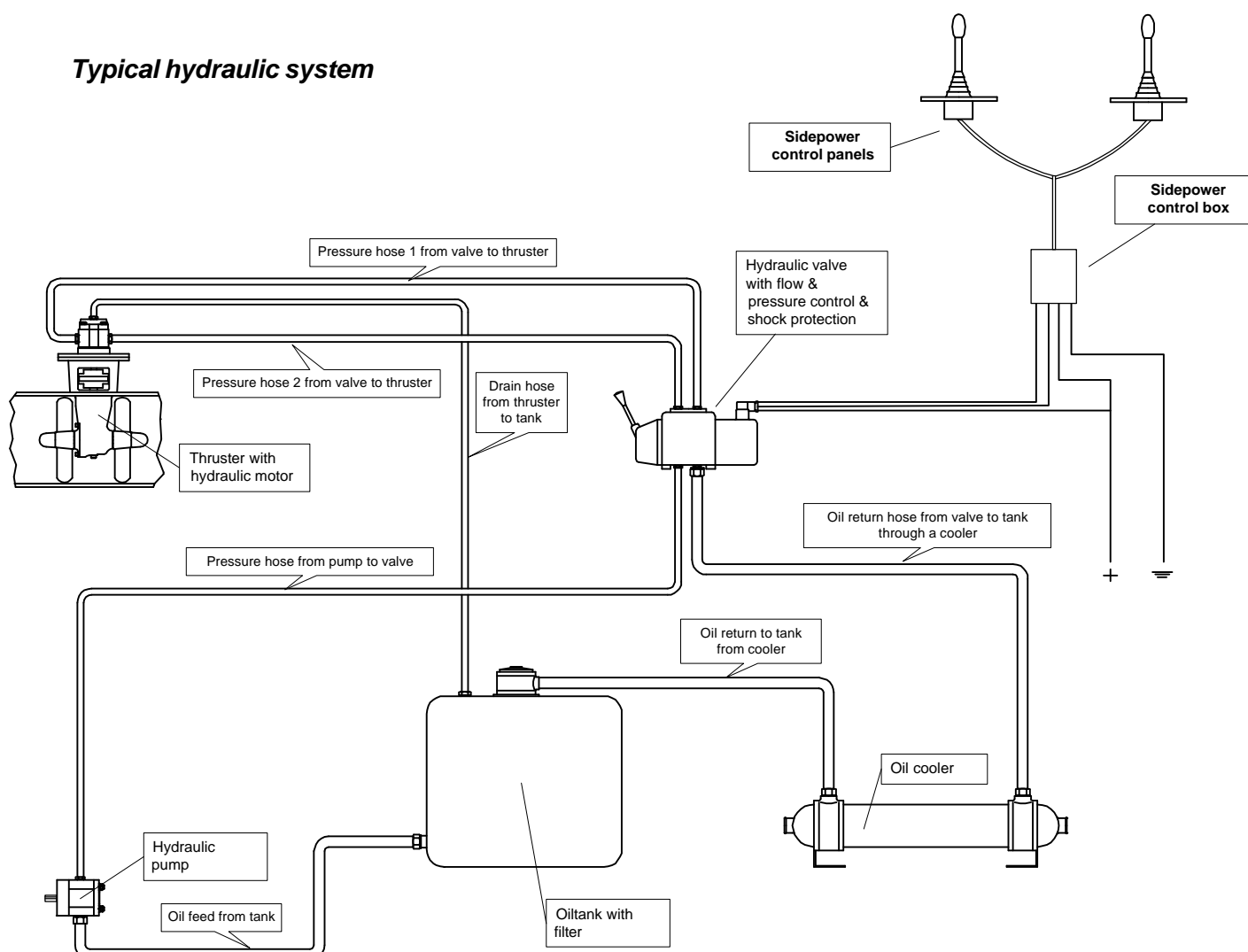
All Sidepower controlpanels can be used also for controlling hydraulic thrusters when a Sidepower electronic interface box is used. This interface must be used because the panels are designed to send only control signals in the mA range so they do not support currents above 0,50 A.

What is important to note is that the electronic controlbox will send a negative (ground) run signal to the valve. This will often be the opposite of what is "normal" so that you might experience that the connection point for the "constant" power to the valve is marked ground. Because of this it is important to use valves that has a fully isolated electric controlsystem so that the necessary constant positive power on it is not also connected to the valve housing. However this is the most common types of valves.

This information contains the following diagrams:

- Visual wiring diagram for electronic control box per thruster
- Technical wiring diagram for electronic control box per thruster
- Pin configuration of Sidepower control cables
- Wiring diagram for dual panels with bow and stern thruster installations with Sidepower dual control panels.

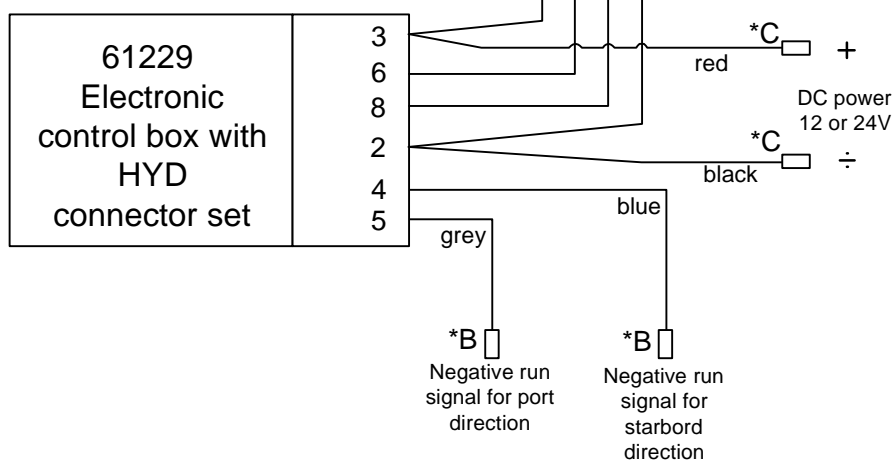
Typical hydraulic system



Visual wiring diagram for 61229-HYD

Terminals are:

A = 4 pin AMP male
B = flat 6,3mm female
C = flat 6,3mm male
All terminals are isolated.



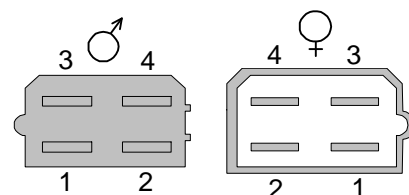
AMP contacts are used on all Sidepower control cables.

Pin configuration:

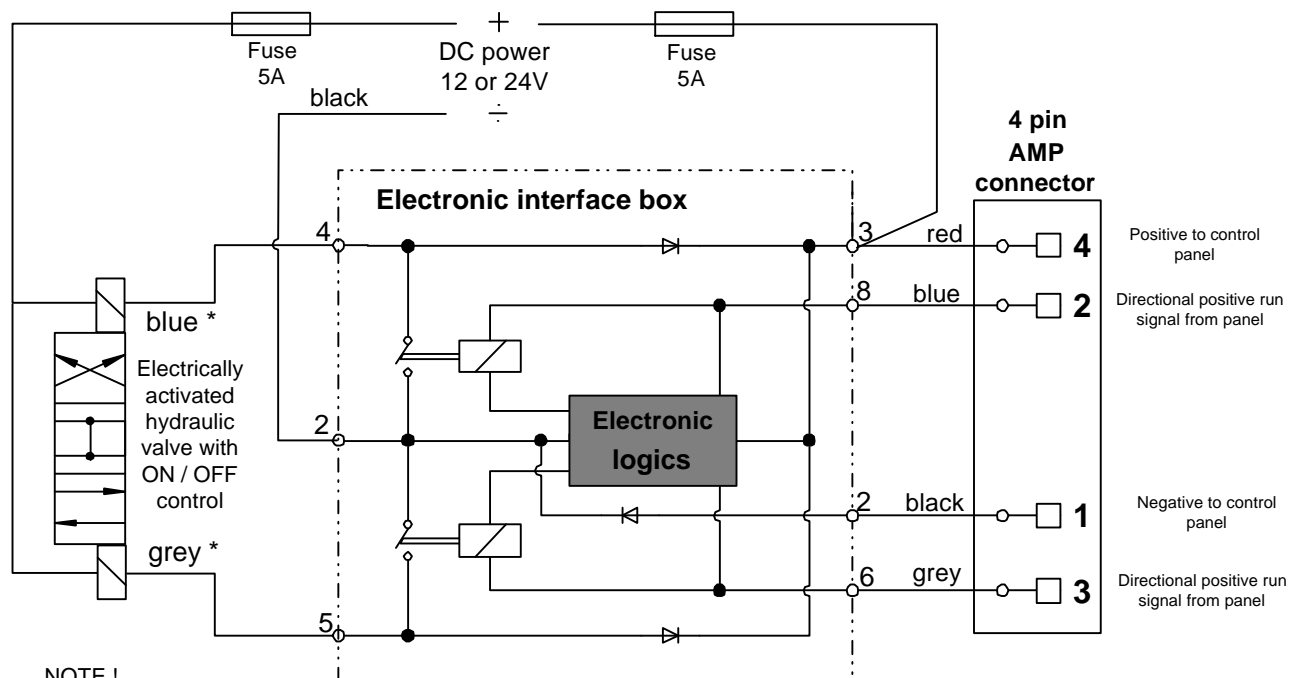
Pin1: BLACK = Ground / negative power
Pin2: BLUE = Engages thruster SB
Pin3: GREY = Engages thruster Port
Pin4: RED = Positive power

Sidepower control cables are available in various lengths between 4 and 22 metres, please see pricelist for all available lengths.

When more than one controlpanel is needed, use the Sidepower Y-connectors which should be fitted in an appropriate position in the boat. The panels are connected in parallell.



Technical wiring diagram for 61229-HYD



NOTE !

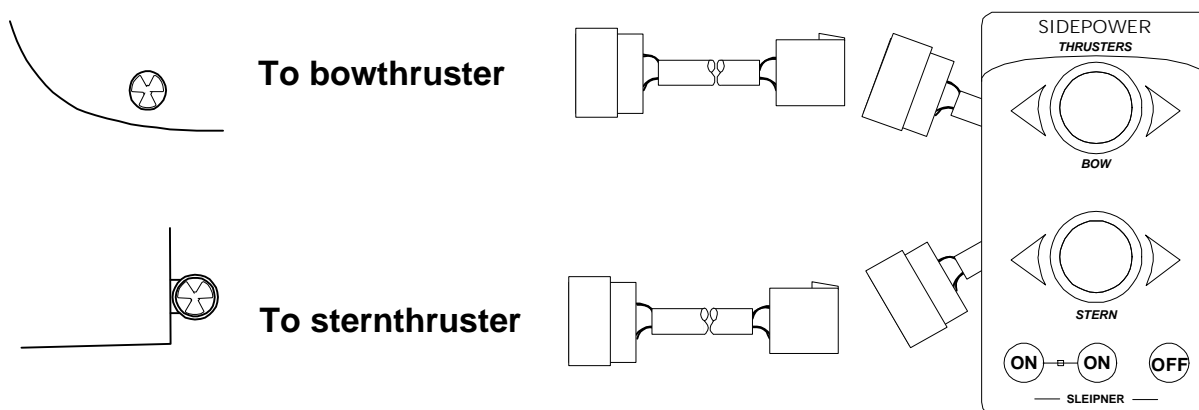
The hydraulic valve must be of the "two pole" type (electric controlsystem fully isolated from body) so that the constant power on it can be positive as it is negatively switched.

* blue and grey output from interface box provides negative / ground to the hydraulic valve. Max. draw 4,0 A

Sidepower dual control panel connections:

- When using the original Sidepower control cables just connect them to the corresponding joystick
- There are no plus/positive power connected from the stern thruster
- This wiring requires correct connections of the thrusters as per separate wiring diagrams.

Visual connection diagram for dual joystick panel



Functional diagram (simplified) for dual joystick panel

