

# WCB 400 / 600

Underwater Welding and Cutting Circuit Breaker

The **WCB (Welding Circuit Breaker) 400A and 600A** range of **DC** circuit breakers manufactured by Hydroweld are made from high quality components and comprise a double pole, single action, direct current '**switch-disconnector**', integral calibrated voltmeter and ammeter and Dinze type Input / Output connectors housed in an ABS box.

The circuit breaker is designed to break both the negative (-) and positive (+) side of the circuit with a single throw of the switch so ensuring there is no electrical potential to the diver.

The voltage meter allows both the open circuit voltage (OCV) and arc voltage to be monitored during the welding operation. The ammeter provides analogue monitoring of the current. When the circuit is broken a zero reading on the volt meter confirms there should be no electrical potential to the diver.

The input/output connections are all Dinze type panel mounted, with plugs to the welding power source (machine) and sockets to the work/electrode.

The **WCB** is designed for use in welding or cutting operations where the electrical parameters do not exceed the maximum current/voltage rating for the unit. They are available in either 400A or 600A DC models, both of which are capable of breaking up to their maximum rating under load. The **WCB** can be used with either Positive (+) or Negative (-) polarity by reversing the output cables.

The standard stock **WCB** unit is illustrated above but may be built to order to a design to meet the customer's requirements for example free standing, panel mounted or enclosed. In addition Input and output terminals can be requested in any configuration. e.g. all 4 on the top or bottom of the enclosure or 2 on each end.

Both **WCB** and **CB** breakers fully enclose all current carrying parts thus virtually eliminating the risk of electric shock and have integral arc suppressors fitted and although not hermetically sealed are the preferred breakers for situations where safety is paramount.

## Current Breakers (CB)

The **CB400/600** has the same switch disconnector's (400A or 600A) but is housed in a compact enclosure with no Amp/Volt meters. Input and output connectors are located 2 at each end of the enclosure.

CB400/600 can be used for either thermic cutting or welding and is recommended for **Hydro-Arc™ Gouging**.

Where this unit is used for any quality wet welding it is recommended that other arc monitoring is used such as clamp meters.



Outside, extreme dimensions inc, handle  
410 x 280 x 210 mm



Outside, extreme dimensions inc. handle: 410 x 190 x 210 mm

For further information please contact:

## HYDROWELD (UK)

Tel: + 44 (0) 121 378 1230  
Fax: + 44 (0) 121 378 1281  
Email: [info@hydroweld.com](mailto:info@hydroweld.com)

Visit our web site at:

**[www.hydroweld.com](http://www.hydroweld.com)**

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