



Technical Manual

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Your safety

This chapter provides vital information for your safety.

Pay special attention to this chapter. The safety instructions and rules of procedure will help you to avoid hazardous situations and to perform the necessary work as safely as possible.

residual risk The electrohydraulic control unit has been manufactured in accordance with the state of the art and generally recognized safety standards and regulations. However, a certain risk remains which might get you into hazardous situations when working with or on the electrohydraulic control unit. These may, for example, be caused by unforeseeable external influences, machine damage or operating errors.

supplementary regulations In addition to this operating manual, also be sure to observe the respective legal provisions and regulations for accident prevention in your country.

Observe the safety and accident prevention regulations:

- of the mining company,
- of the mining authority, and
- of the miners' accident insurance association.

Personnel

Persons employed in the operation, repair, and overhaul of hydraulic and/or electrohydraulic control unit components must have special qualifications. In addition to having received training in mining skills the following minimum requirements shall be met.

Operation and maintenance

qualification Operation and maintenance of the shield control is only allowed to be performed by trained personnel. The training shall be matched to the type of shield control actually used. The content of the operating manual, especially the chapter on safety, shall constitute a part of this training.

They shall possess and furnish proof of adequate familiarity with the

- mechanical,
- hydraulic, and
- control systems.

Repair

In general, repair work shall be performed only by persons who have the respective knowledge and skills to meet the special requirements and have been adequately trained in the repair of the equipment. Repair work on and overhaul of

- control blocks,
- working valves,
- pilot control valves,
- safety components, e.g. pressure relief valves, etc.

shall be performed only by DBT service technicians or by specially trained personnel of the mining company.



5 Operation

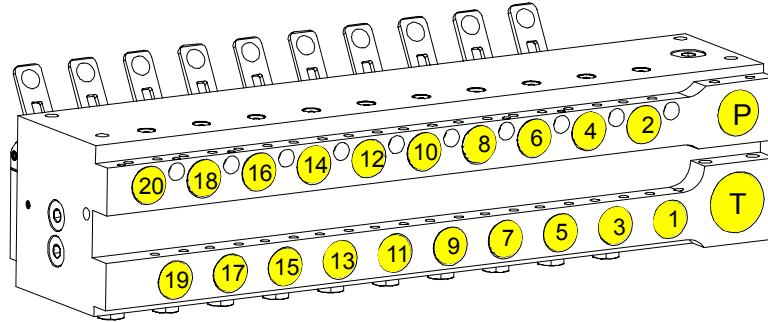




Connections

The connection ports for the hydraulic lines are located on the rear of the electrohydraulic control unit.

Fig. 14: Control unit, rear view



Hydraulic connections

medium-volume consumers

connections: 20 x DN 13, socket, plug-type
 marking: 1 ... 20
 flow rate: max 180 l/min
 at $\Delta p = 100$ bar
 application: medium-volume consumers

connections of pressure line and tank line

connections: P 1 x DN 20 socket, plug-type
 T 1 x DN 25 socket, plug-type
 marking / application: P pressure supply
 T tank line

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