



HYDRAULIC SYSTEMS

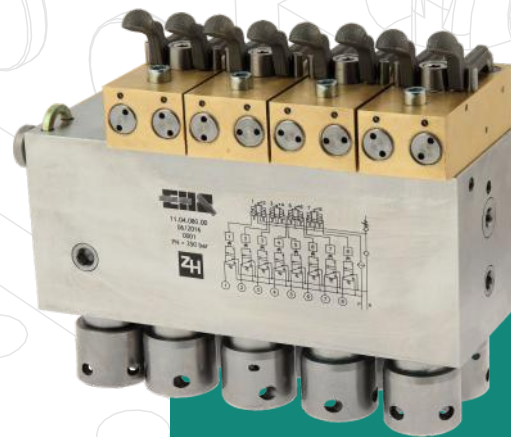
Welcome !





Modern solutions

in the mining industry

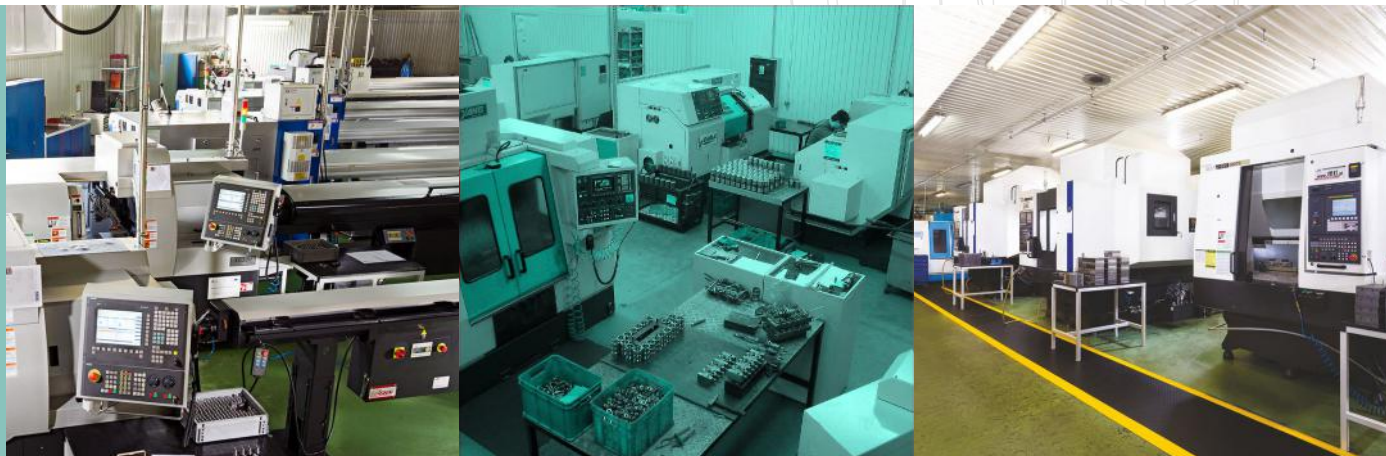




Hydraulic Systems



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The Company

The EHS Company was established in 1995 and ever since it has been producing and supplying hydraulic control components and hydraulic equipment for mining. During this time, we have managed to build a reputation of a reliable partner through our quality and reliability of products, and the approach to projects.

The plant has a modern machine fleet based on the latest generation of CNC machine tools, combined with specialist and experienced staff, which allows us to produce the most technically advanced components while maintaining the highest quality of workmanship. The use of the full range of machines is made possible by special tools made by proven and recognized manufacturers in the world.

The EHS Company is a guarantor of quality, as well as a proven and reliable partner for enterprises, starting from the design of hydraulic systems, through delivery of hydraulic and control equipment, to service and repair of manufactured components.



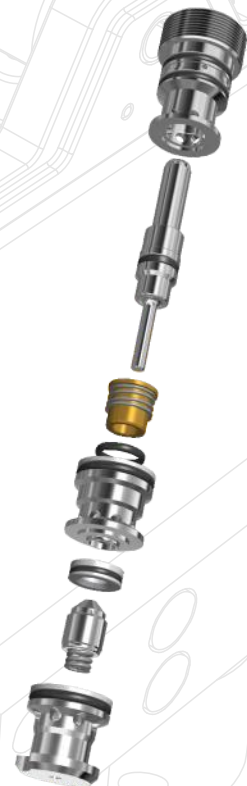
Quality Policy

EHS wants its offer of products and services to meet all customer expectations. Providing elements of hydraulic control systems for the mining mechanized support for domestic and foreign clients, EHS wants to ensure the highest quality and reliability of its products, which is why in 2007 the company implemented a quality assurance system (ISO 9001), which was crowned by obtaining the ISO 9001:2001 certificate for design, production, servicing, and sales of hydraulic equipment.

The quality of delivered products has been confirmed by numerous certificates of well-known research institutes, among others, TLO Opava, KOMAG, GIG, and the quality management system has been appreciated by an internationally recognized accreditation body - BSI Group.

Carrying out the mission of our company we use the knowledge, skills, and experience of our employees, and recognized global standards in the field of new technologies.

The quality of products manufactured by EHS is the result of a passion and commitment we have put into their execution.





Modern control systems

Pilot control system from 2 to 24 functions

Pilot control system

Pilot control performs from 2 to 24 control functions for control of the neighboring sections of mining support. Due to the low power needed to manage and increase the capacity of control valves, pilot control is particularly useful for high efficient longwall systems, mining support, hydraulic supports with large diameter, and where briefly spacer section is required.

The control is made by a pilot valve, which transmits a control pulse to the corresponding high-performance valve cartridge. In case of small actuators, eg., actuators of side rails or correction actuators, they can be connected to the power supply directly to the pilot valve.

There are variants of pilot control: separate, compact and direct.





Modern control systems

Pilot control system
from 2 to 24 functions

Separate pilot control

has the control and execution units installed on adjacent sections, interconnected by means of a multi-hose through which the control signals are transmitted.



SP 8F



SP 20F



SP 12F



Modern control systems

Pilot control system
from 2 to 24 functions

Compact pilot control

is characterized in that the control and actuating unit are connected with each other. Control signals are transmitted via a multi-hose from the control unit to the execution unit, mounted on the adjacent section. In the compact version of the pilot control it is possible to change the direction of the lining section control from right to left and left to right, turning a multi-hose 180 degrees in its connector.



SP 14F



Modern control systems

Pilot control system
from 2 to 24 functions

Direct pilot control

have control and execution units, which have built-in executive cartridges valves and pilot valves. Direct pilot control is characterized by the fact that there is no multi-hose. Signals from the pilot valve to the valve cartridge is transmitted directly through the control channels in the block.

SP 8F



SP 16F





Modern control systems

Direct control
from 2 to 24 functions

Direct control

The direct pilot control is used for parallel control of the mining cover sections which can perform from 2 to 24 control functions. The hydraulic dividers directly control the servo-motors the cover section is equipped with.

DIRECT CONTROL
10-FUNCTION



DIRECT CONTROL
20-FUNCTION



DIRECT CONTROL
10-FUNCTION





Modern control systems

Controlled return valves

Controlled return valves

The controlled return valves are used mainly in the supportive hydraulic system of the mechanised mining covers.

The task of the valve blocks is to perform the assumed kinematic functions of the stand and maintenance of constant working support.



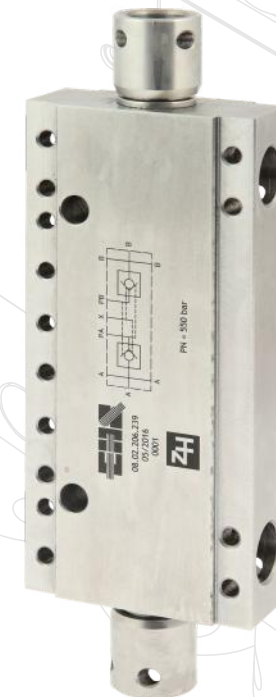
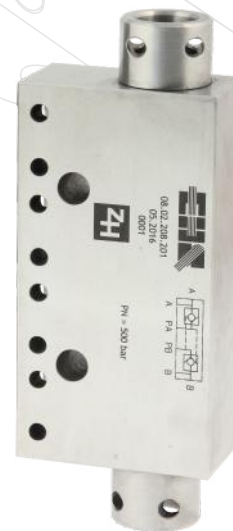


Modern control systems

Double controlled return valves

Double controlled return valves

The double controlled return valves are used to keep the support of the roof-bar and other servo-motors. The double controlled return valves, due to their structure, perform two-directional movement of the support piston rod in combination with the control system.





Modern control systems

Pressure relief valves

Pressure relief valves

The direct acting pressure relief valves are used mainly in the hydraulic sections of the mining cover as the peripheral pressure limit valves in the receiver. The direct task of the pressure limit valves is to secure the hydraulic system against excessive pressure increase in the forced hydraulics units for protection..





Modern control systems

Cut-off valves

Cut-off valves

The cut-off valves are used in hydraulic systems of the mining cover section. They can also be used in hydraulic systems of other devices, e.g. oil powered. Their task is to control the hydraulic liquid flow by manual closing and opening of the flow.





Modern control systems

Filters

Filters

The filters are used mainly for the purpose of securing against contamination all hydraulic elements the cover section is equipped with. They are installed directly at the inlet to the cover section feeding system and they are commonly used in the hydraulic systems with pilot and electrohydraulic controls.





Modern control systems

Logic valves

Logic valves

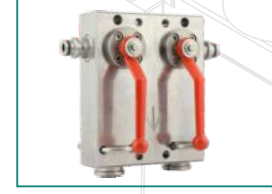
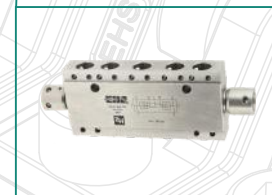
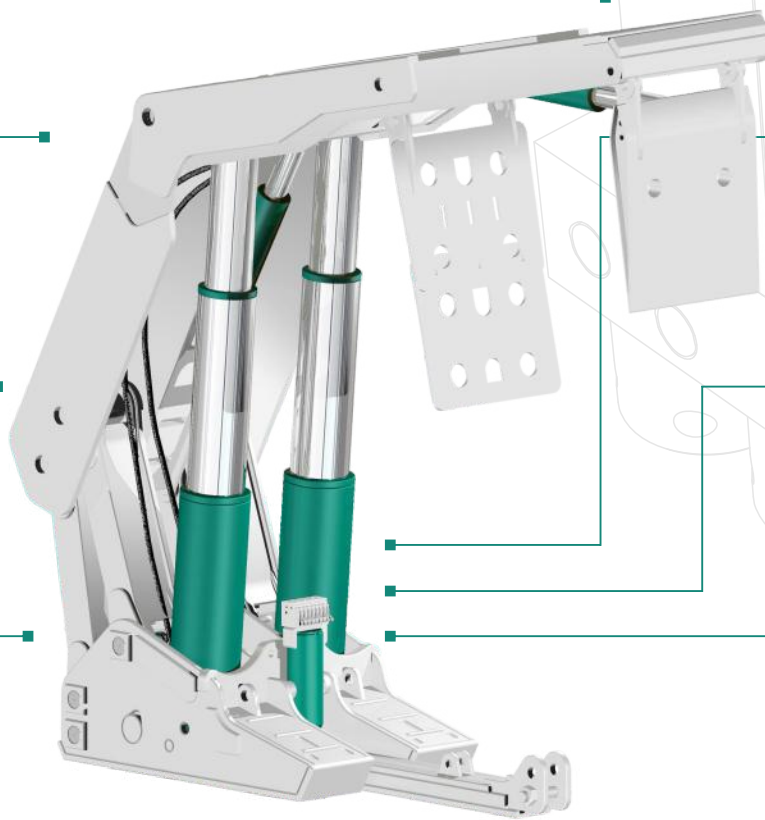
Logic valves are designed to control flow direction and capacity and, if used in appropriate solutions, are capable of performing multi-task control functions.





Production program

Elements of hydraulic control systems
for the mining mechanized support





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Thank you for your attention

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