

SCHUCK HYDRAULIC COMPACT CONTROL

Compact electro-hydraulic control system

The new Schuck hydraulic compact control is a very compact and robust desing with highest flexibility. As a result, it provides an affordable, reliable and effective system solution for standard applications in the actuation sector. For both double and single spring-return applications.

Automatic

The electronic brain of the compact, electro-hydraulic control is the auma automatic. This features a wide range of tried-and-tested characteristics, such as a user-friendly interface concept, extensive programming and setting options and variable interfaces. There are many connection options, from a field bus controller to a Bluetooth connecting.

Housing

All electronic and non-electrical components of the control unit must be protected from explosions. They are therefore located within the Ex-d housing. This results in a compact design with no need for a control cabinet.

Cost effectiveness

The Schuck hydraulic compact control offers an efficient alternative, especially for standard applications primarily by using standardized components which results in a compact design.

ADDITIONAL PRODUCTS OF THE SCHUCK GROUP

- » Hydraulic, electric and manual actuators
- » Fully Welded ball valves, Type G, ½" – 56"
- » Top Entry ball valves, Type U, 6" – 42"
- » Split Body ball valves, Type S, 2" – 56"

We manufacture and distribute components for connecting pipeline systems in more than 50 countries, with 7 international offices and over 35 years of experience.

Do you want to find out more about a specific product? Give us a call or visit our website at www.schuck-group.com.

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 SCHUCK GROUP

DESIGN
ENGINEERING
MANUFACTURING
MADE IN GERMANY

 SCHUCK GROUP

SCHUCK HYDRAULIC COMPACT CONTROL

The compact electro-hydraulic control for all actuator systems with flexible connections.



SIL
SUITABLE

SCHUCK HYDRAULIC COMPACT CONTROL

The compact electro-hydraulic control for all actuator systems with flexible connections.

AUMATIC

Electronic processing and control of all sensors and actuators, as well as communication with the control center.

HYDRAULIC CONTROL BLOCK

With all the hydraulic components, sensors and the pump. All explosion-relevant components are inside the pressurized housing.

EX-D HOUSING

Pressure-resistant housing with all explosion-relevant components, such as solenoid valve, pressure transducer or motor.

OIL TANK

Serves as a non-pressurized oil reservoir for the hydraulic actuator.

BASIC ACTUATOR

Scotch-yoke gear box CG (40,000 Nm) with hydraulic cylinders and limit switches.

PRESSURE ACCUMULATOR

To absorb the surge during a pressure change.



PRODUCT FEATURES

- » Compact design
- » High cost effectiveness
- » Fail-safe function
- » SIL 3 optional with fail-safe unit
- » Quick connection possible
- » Torques up to 350,000 Nm
- » Electric limit switch included
- » Temperature range of -60° C to +60° C
- » Torque, running time and response monitoring possible



AUMATIC HYD. CONTROL MOTOR EX-D HOUSING

APPLICATIONS

Control for electrohydraulic applications (double and single spring-return drive systems)
 Standard temp. range -30° C to +60° C
 Min. temp. range -60° C to +60° C

DESIGN

Standard function: Open » Closed
 Additional special functions are possible, such as:
 » SAV
 » SAE
 » Power failure

MANUFACTURING

Manufacturing and testing according to DIN ISO 9001, PED 97/23/EG, MRL 2006/42/EG, ATEX 94/9/EG, EMV 2004/108/EG, RL 2006/95/EG
 SIL-suitable

MATERIALS

Ex-d housing of aluminum
 Hydraulic control block of aluminum
 Emergency manual override of stainless steel

Figure at left:
The Schuck hydraulic compact control in details

Figure in center:
Sample construction of the control in combination with gear box and Schuck ball valve type G

Figure at right:
Components of the Schuck hydraulic compact control