



**Partner for your success.**

Individual hydraulic components for highest quality.

- Development
- Production
- Construction
- Assembly & testing



**T**he success of your ideas is our standard. According to this principle we have developed to a reliable partner in different industry sectors since 1984. With modern technology and close cooperation with our customers we build solutions in the field of fluid power control. Our innovative ideas in development and realization of complex projects are based on more

than 20 years of experience. Beside a range of standard programs we also deliver applied controls and customer specific solutions for highest demands. All of our controls are characterized by low weight, small size and low costs – perfect for economical applications with high power density.



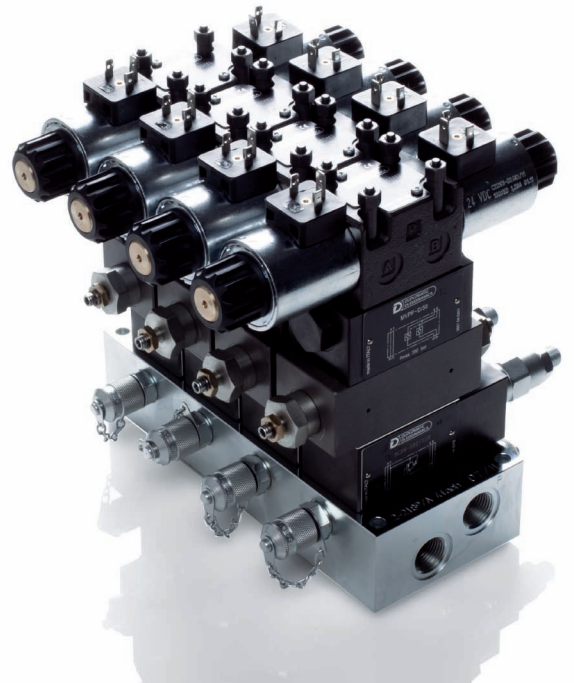




**Q**uality is not just a fortunate coincidence – it is the sum of modern technology, expert knowledge by years and consistent control. Our modern train of machines guarantees precise working and our well

trained team for careful handcraft. We guarantee in every step of fabrication for precious super-finishing and accurate burr removing. All operational sequences are accredited by DIN EN ISO 9001.

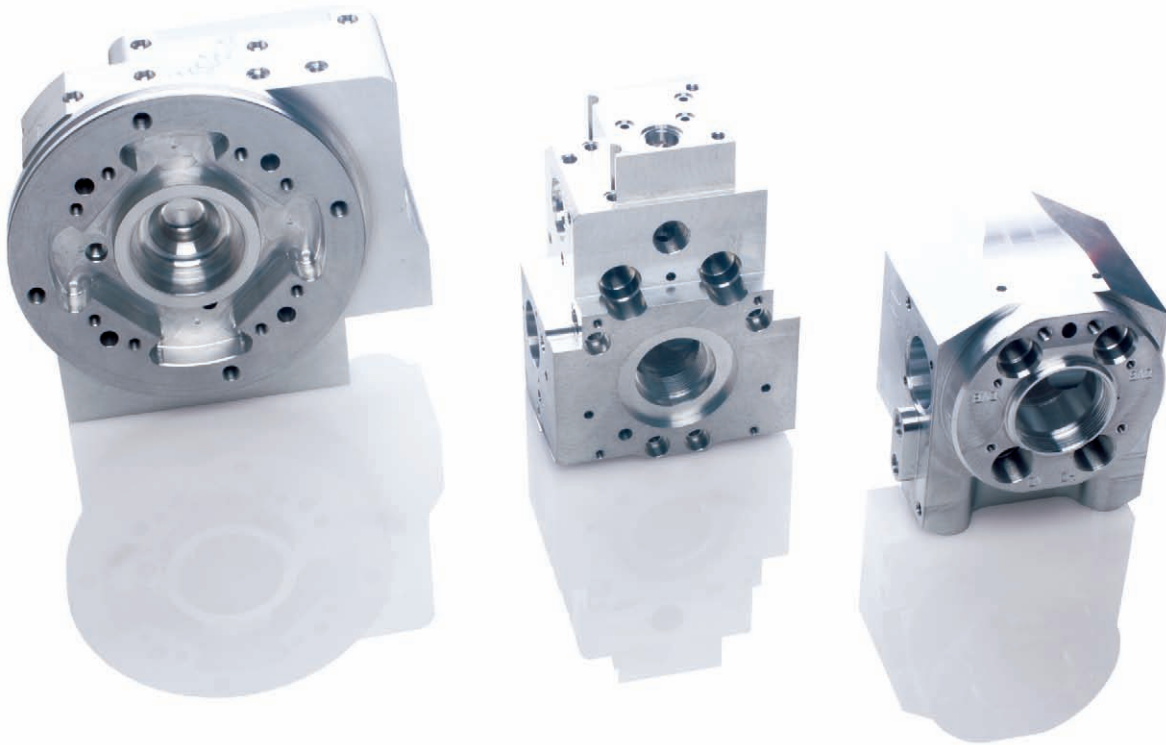
## ■ Control blocks as system solutions



### Complete control blocks as integrated system solutions

- A selection of the valve components suitable for a given application
- Blocks made of various materials, preferably aluminum or steel
- Fully assembled and functionally tested

## ■ Control blocks

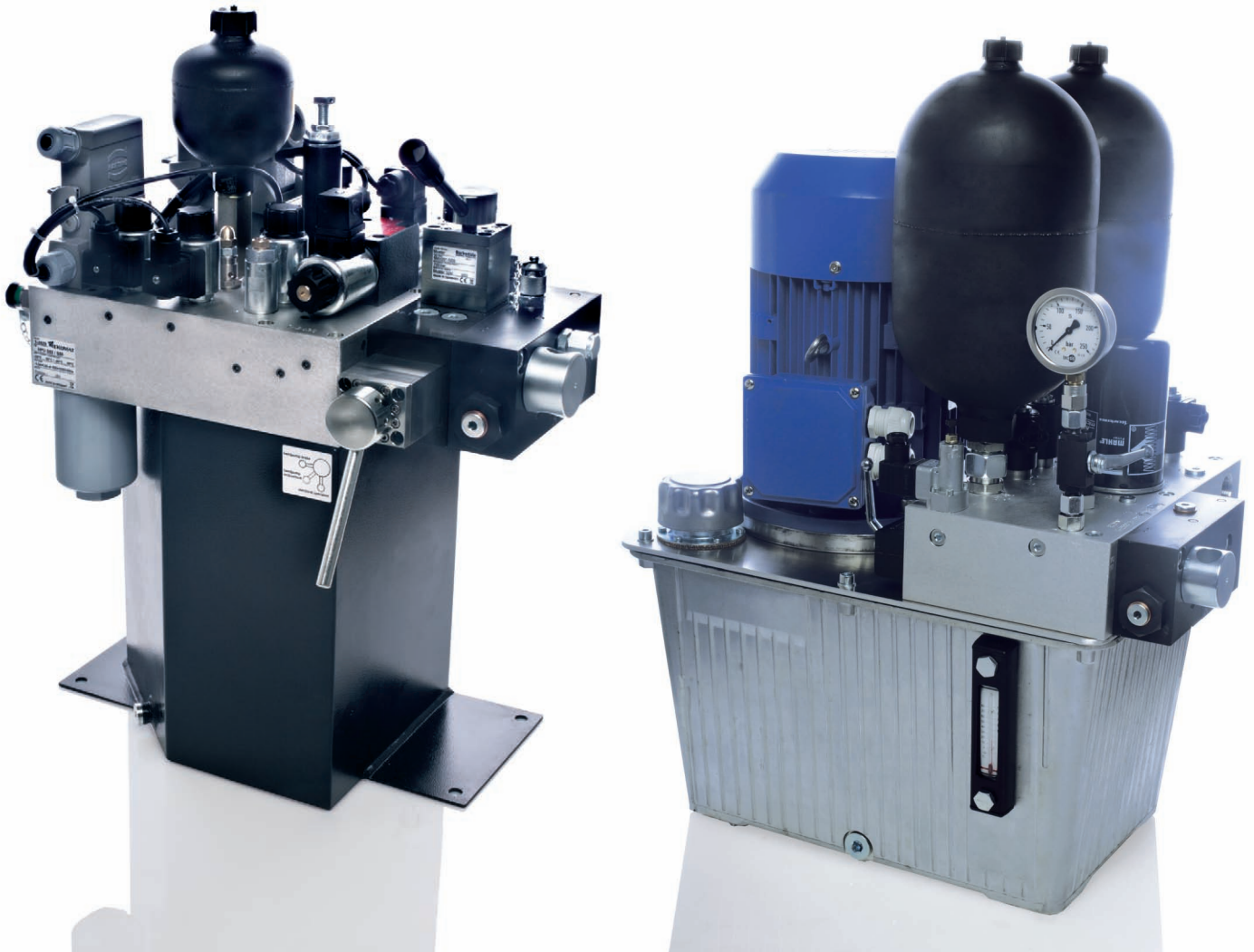


### **Control blocks according to our designs or customer designs made of various materials**

- Different materials with a preference for aluminum and steel
- Various surface treatments
- According to our drawings
- According to customer drawings



## ■ Compact hydraulic power packs

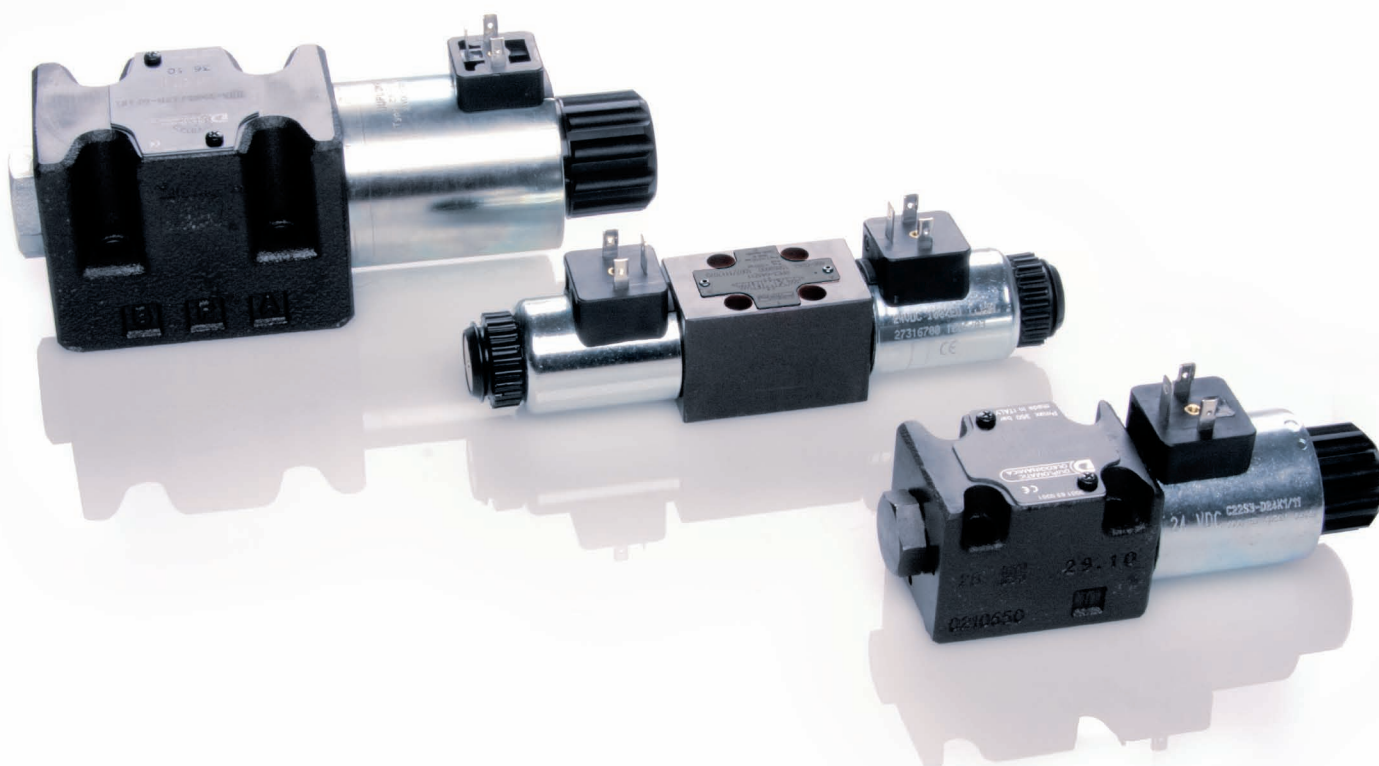


### Compact units complete with valve control

Drive power	up to 3 kW
Operating pressure	up to 700 bar
Tank sizes	up to 60 l

Our compact units are individually designed to the customer-specific operating conditions. Here, we rely on a modular design and dispense with piping components as far as possible. This ensures efficient assembly and short delivery times.

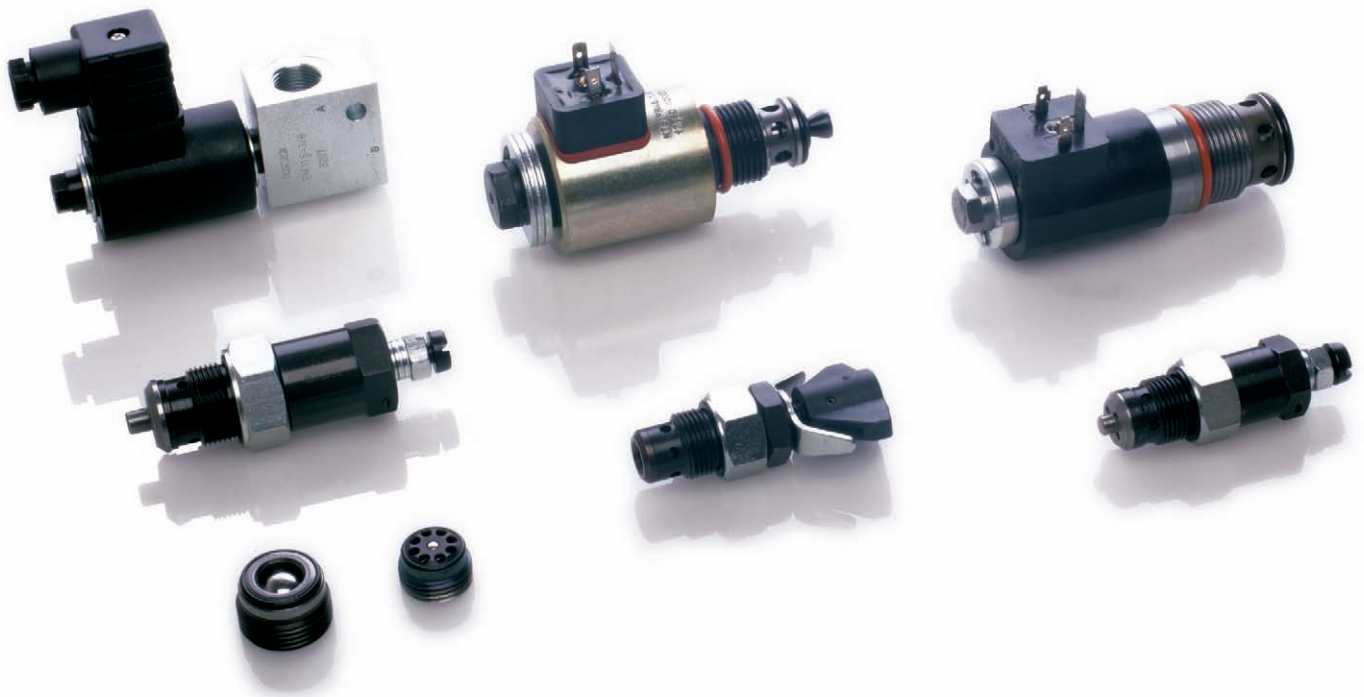
## ■ CETOP control valves



### Control valves for block assembly

Nominal sizes	from 4 to 10 (CETOP 2 to 5)
Operating pressure	up to 350
Flow rate	140 l/min

## ■ Clamp-in valves



### Clamp-in valves

- Control valves
- Pressure valves
- Flow control valves
- Stop valves
- Up to 60 l/min and 500 (700) bar



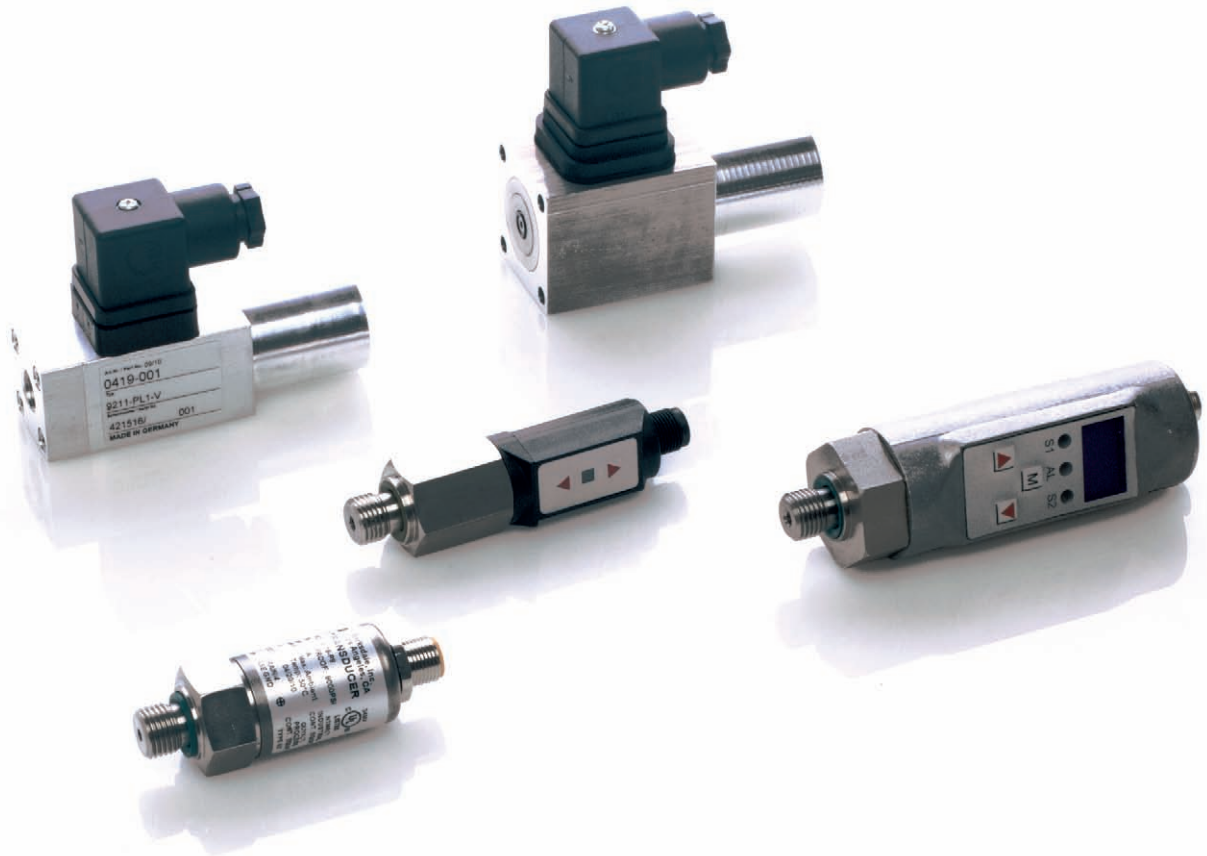
## ■ Leakage free manual valves



### Manual operated leakage free directional control valves

- Size NG 06, D 03
- 4/3 or 4/2 way valve
- Pressure up to 700 bar
- Flow 11 l/ min (higher flow rates optional)

## ■ Pressure measurement

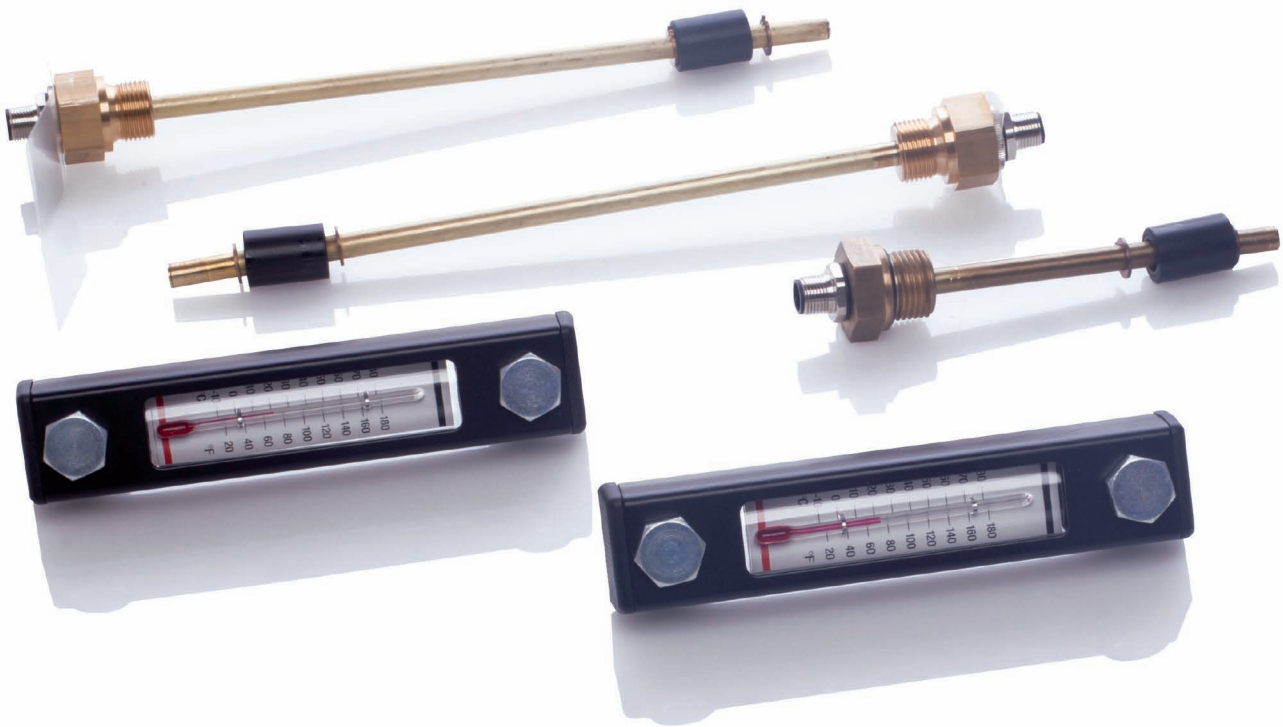


### Mechanical and electronically operated pressureswitches and transducers

- Measurement ranges 0 to 600 bar
- Pressure connection CETOP, G1/4"A, G1/2"A
- Electrical connection M12x1, or cubic connector
- Adjustable setoints
- Adjustable hysteresis
- With and without display
- Electrical output 0-20 mA, PNP contacts, microswitches



## ■ Levelindicators and temperature switch control



### **Levelswitches – optional with intergrated temperature switch control**

- Process connection G1/2" or M20x1,5
- Electrical connector M 12x1 or cubic connector
- Measurement length max. 600 mm
- Temperature switches 60 to 90 °C in 10 K steps

### **Levelindicators with or without built in thermometer**





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