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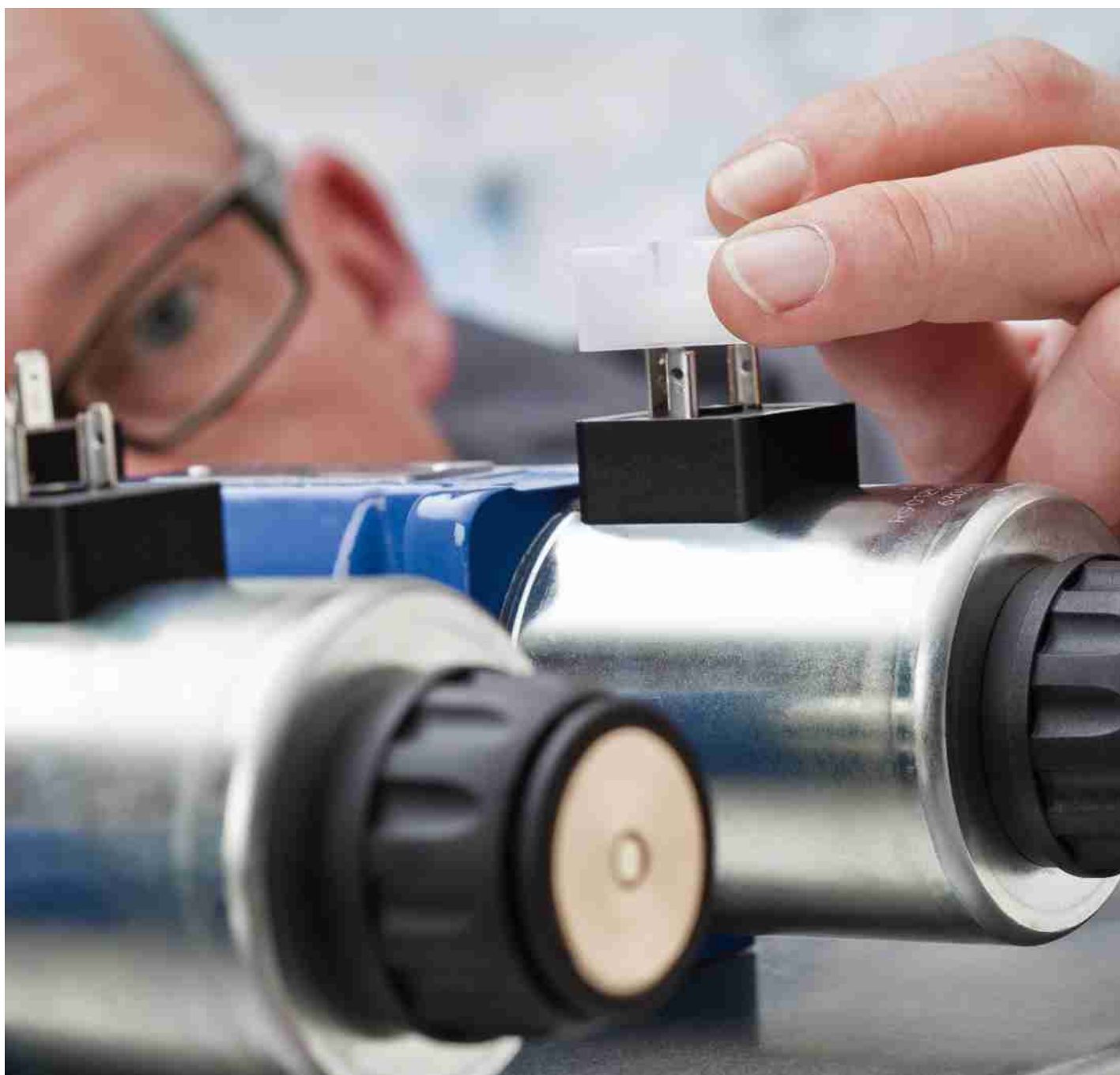
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The Drive & Control Company

**Rexroth**  
Bosch Group

# Directional on/off valve NG10 – more powerful and more robust



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# Improved performance data with unchanged connection dimensions

The new NG10 directional on/off valve is characterized by 25 % increased performance, enhanced robustness and energy efficiency while offering simplified commissioning. It therefore greatly contributes to reducing your total cost of ownership.



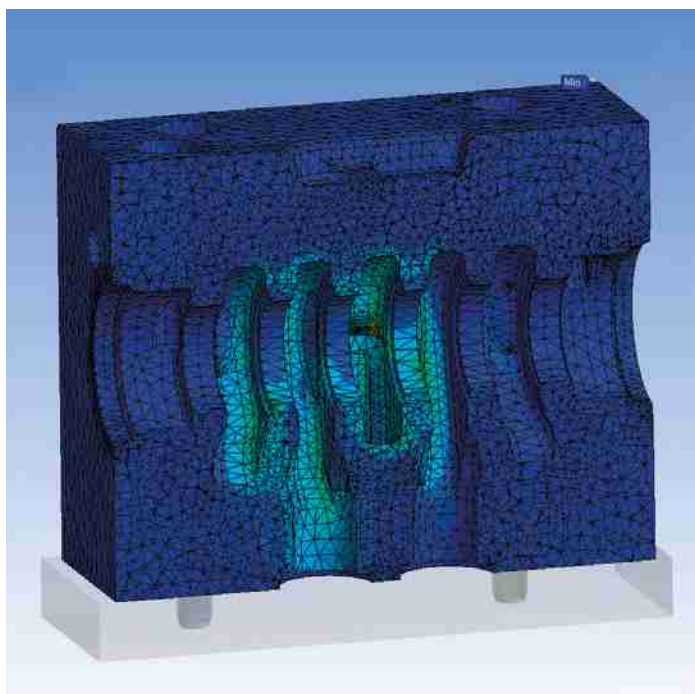


# More powerful from experience

The NG10 directional on/off valve is a proven valve that has been used in numerous applications around the world since 1992.

The redesigned cast iron housing of series 5X with patent-pending channel cross-section improves the pressure resistance by more than 10 %. In the standard version, the pressure resistance is increased from 315 bar to 350 bar. At the same time, the new design allows a higher flow rate of up to 150 l/min. In this way, you can enjoy the economic

benefit of a smaller size with increased performance. A high-pressure variant of 5-chamber design has an approval for up to 420 bar. In comprehensive test series Rexroth demonstrated an increase in the valve service life compared to valves currently available on the market.



▲ Redesigned housing with innovative channel cross-section





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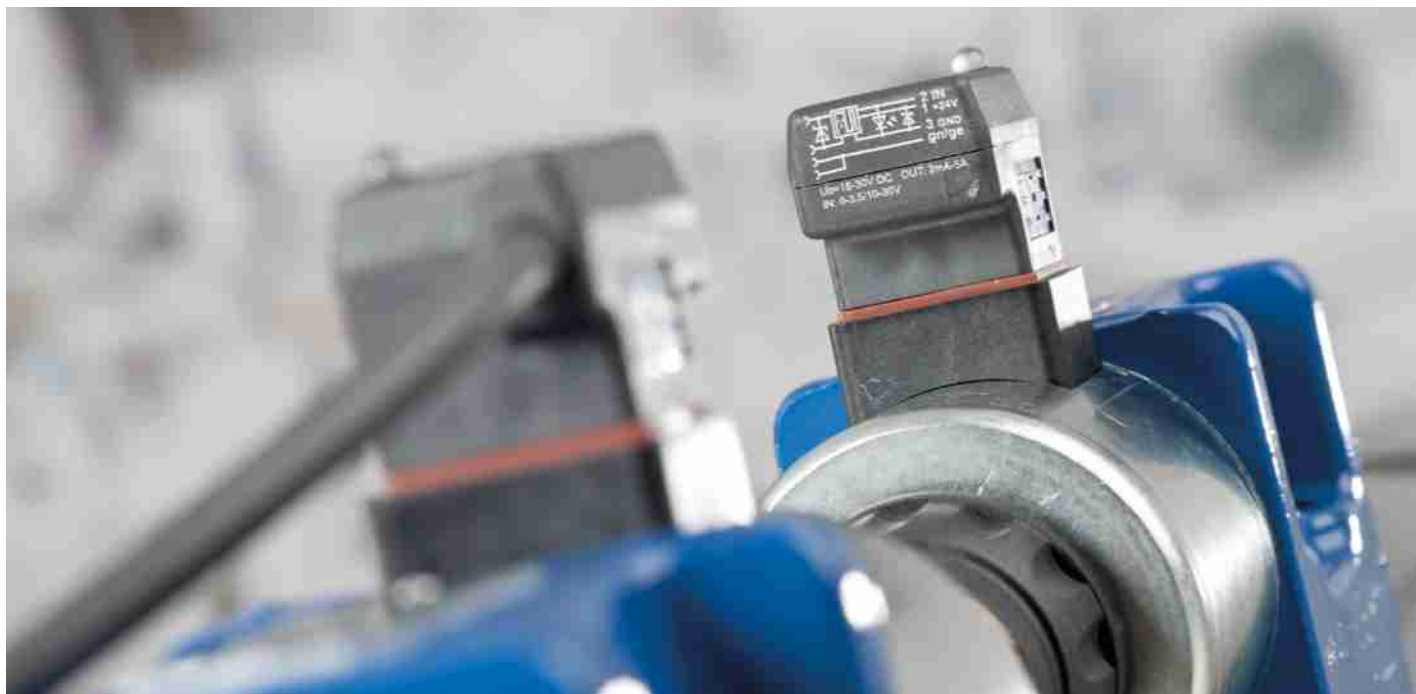
# Robust for use in harsh environments

Thanks to improved vibration resistance, also in conjunction with position switches, the directional on/off valve of NG10 is also suitable for use in harsh environments.

Corrosion-resistance up to 720 h according to DIN 81249 expands the valve's spectrum of application to maritime applications. It even covers temperature ranges down to -40 °C.

Within the framework of a complete revision, Rexroth also updated all of the valve's actuation and connection options. A two-way mating connector enables fast and low-cost connection of two solenoids with only one cable, thus reducing the cabling effort.

The central connection results in more installation space in the connection box and simplifies work with plug-in contacts.





# Energy-efficient and endurant

In conjunction with the plug-in amplifier VT-SSBA1 from Rexroth you can reduce your total cost of ownership even further.

By means of pulse-width modulation, the plug-in amplifier reduces the voltage to the valve after 100 ms, because the valve needs great force and hence a high current only for switching.

This results in energy savings of up to 50 %. Thanks to the use of this plug-in amplifier, the temperature in the coil is significantly lowered and the service life of the valve increased.





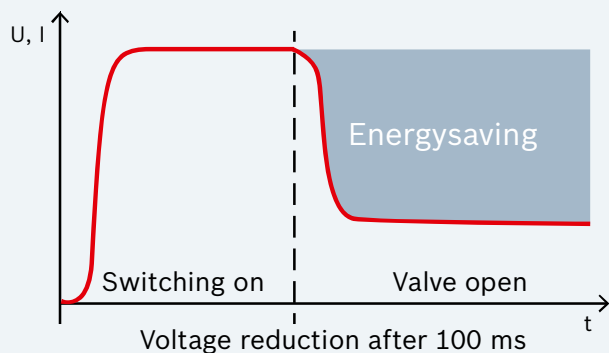
### Directives and approvals

- ▶ **MTTFd 150a**  
(Machinery Directive)
- ▶ **Functional safety according to EN ISO 13849**
- ▶ **BG approval**  
(Accident Prevention and Insurance Association)
- ▶ **Coil with UL certification**  
(US fire protection approval)
- ▶ **CSA approval**  
(Canadian Standard Association)

Rexroth verified the resistance of the NG10 directional on/off valve against numerous special fluids. This fluid compatibility enlarges the valve's spectrum of applications and contributes to its energy efficiency through the use of energy-saving fluids.



◀ **Plug-in amplifier VT-SSBA1 with pulse-width modulation increases energy efficiency and service life**



◀ **Energy saving through intelligent pulse-width modulation with voltage reduction after 100 ms**



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