

# Solenoid concept, new generation of top performing solenoid cartridge valves



## NEW GENERATION OF TOP PERFORMING SOLENOID CARTRIDGE VALVES

Bosch Rexroth Compact Hydraulics presents the new generation of top performing solenoid cartridge valves. Designed to provide excellent performance, which enables them to work in severe environment conditions, the new solenoid cartridge valves are perfectly interchangeable with the former and they introduce improved features:

Introduction of new 16mm diameter pole tube.  
Introduction of hydraulic parts (Patented) with new design concept.

New D36 coil with round shape 36mm diameter  
Leakage  $\leq 5$  drops per minutes.

Max ambient temperature range now upgraded to 90°C

Life cycle improved up to 2 million cycles

Larger admissible voltage fluctuations

## CUSTOMER BENEFITS

- Optimal stability while lowering
- Fine control
- Energy savings
- Compactness

## TECHNICAL DATA

- Operating pressure: up to 350 bar
- Max flow: up to 150 l/min
- Coil D36: 12-24-48-96-205V DC, 20W
- Ambient temperature: up to 90°C

## Advantages

The new coil Family D36 provides the basis for Bosch Rexroth 'New Solenoid Concept' Cartridge Valves with optimized technical performance suited for broader bandwidth of applications. The new coil's round shape allows compactness, easier positioning/turning, optimizing block configuration and saving cost.

## Applications

The rugged design allows the valve equipped with this coil system to be used also in the harshest environments in any type of mobile machinery applications. The coils exceed IP69K standard, are tested under harsh vibration and temperature cycle conditions and provide an excellent long term operation. The fully plastic overmolded design provides chemical resistance against corrosion induced by salt-spray or chemicals (e.g. Agriculture)

## Function

The new solenoid cartridge valves available are:

- pilot operated poppet type 2 way / 2 position (VEI-16), size 08,10 and 12
- direct acting spool type 3 way / 2 position, 4 way / 2 position and 4 way / 3 position (VED-16)
- double lock (VEDT-16)

maintaining the same UNF cavities and special cavities of the former ones, allowing a perfect interchangeability in existing blocks and reaching a broader range of market's requests.

Contact: [compact-hydraulics-cv@boschrexroth.com](mailto:compact-hydraulics-cv@boschrexroth.com)

