Load-Sensing M4 Control Block: The Flexible Multi-Talent for Maritime Applications
Load-Sensing M4 Control Block: The Multi-Talent for Highest Standards

Thanks to their modular and compact construction, Rexroth M4 control blocks are used in the most diverse applications. They can be used to control travel drives in open circuits as well as for precision and stable control of work movements. The M4 valve block is giving you furthermore the option of actuating single consumers proportionally and with high sensitivity. And this can be done mechanically or hydraulically depending on requirements. The M4 module is so flexibly constructed that all types of actuation are possible individually or combined. Beside other applications, the control block M4 is used in the new Rexroth-winch control block.
Special features of the M4 modular design:
The flexible, extendable module solution in a modular construction with integrated electronics is offering unique combinations and options:

**Types of actuation:**
- Mechanical with manual lever
- Hydraulic
- Electrohydraulic with OBE

**Input elements:**
- Central input for variable pumps
- Closed center with priority function for variable pumps
- Open center for fixed pumps

**End elements:**
- With LS load reduction
- With separate P, T, LS port

**Shock/Boost valves:**
- Adjustable
- Permanently set

**LS pressure limitation**
- Mechanically set

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**Size: control block M4-12**
- Max. nominal flow: 140 l/min
- Operating pressure up to: 420 bar

**Size: control block M4-15**
- Max. nominal flow: 200 l/min
- Operating pressure up to: 420 bar

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**Overview of Rexroth M4 control blocks benefits and advantages:**

- Same actuation modules for sizes M4-12 and M4-15
- Integration of compact hydraulic system components
- Coated valve slices and actuator covers
- Stainless handlever
- Triple special painting
- Coated inlet elements for fixed and variable displacement pumps
- Various diagnostics functions for OBE monitoring
- Analog input on the OBE
- Availability of different CAN bus protocols

- Reduction in spare parts expenditure
- Reduced pipework expenditure and more compact construction
- Long service life and reliable use
- Long maintenance periods
- Operation possible on various pump types
- Immediate display of malfunction
- Flow rate control possible with analog and digital signal
- Easy adaptation to existing conditions and operational situations
The M4 Configurator at www.boschrexroth.com/M4-configurator

The modular assembly of the Rexroth M4 control blocks in a sandwich design is allowing a flexible and easy configuration. The interactive M4 configurator is designing your individual control block for the M4-12 or M4-15 series within a few minutes. The direct access on 3D-models, hydraulic circuit diagrams and installation drawings is saving valuable development time.

The configurator is generating the following documents:
- Hydraulic circuit diagrams
- Installation drawings
- 3D installation models (Standard program M4)

Further information on the:
- M4-12 control block
  Technical data sheet RE 64276
- M4-15 control block
  Technical data sheet RE 64283