4/2 and 4/3 proportional directional valves, direct operated, with electrical position feedback, without/with integrated electronics (OBE)

RE 29061/11.12 1/22 Replaces: 05.12

Type 4WRE and 4WREE

Size 6 and 10 Component series 2X

Maximum operating pressure 315 bar Maximum flow: 80 l/min (size 6) 180 l/min (size 10)

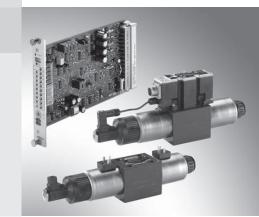


Table of contents

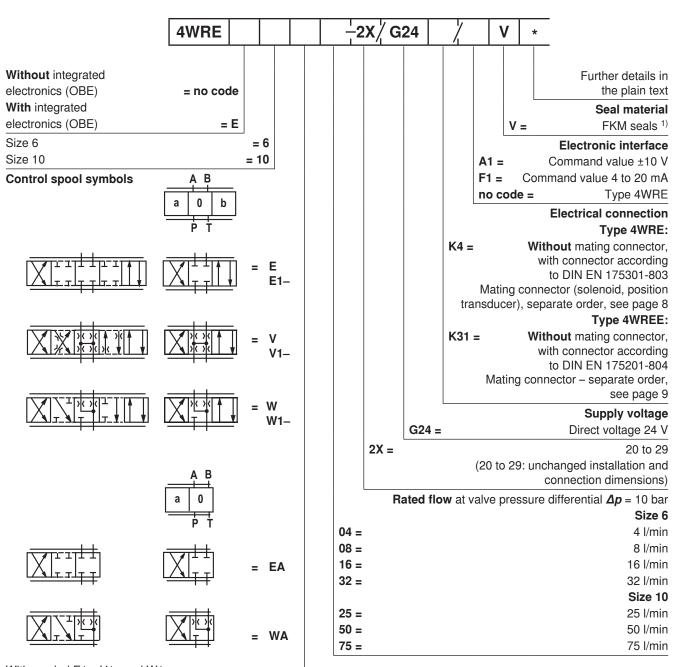
Contents Page Features 1 Ordering code 2 3 Symbols 4, 5 Function, section Technical data 6, 7 Electrical connection, mating connectors 8,9 Block diagram of the integrated electronics (OBE) for type 4WREE 10 Characteristic curves 11 to 17 Unit dimensions 18 to 22

Features

- Direct operated proportional directional valve with electrical position feedback and integrated electronics (OBE) with type 4WREE
- Control of flow direction and size
- Operation by means of proportional solenoids with central thread and detachable coil
- For subplate mounting: Porting pattern according to ISO 4401
- Spring-centered control spool
- Control electronics
 - Type 4WREE:
 - integrated electronics (OBE) with voltage or current input (A1 and/or F1)
 - Type 4WRE (4/3 version), separate order:
 - digital and analog amplifier in Euro-card format
 - analog amplifier in modular design
 - Type 4WRE...A (4/2 version), separate order:
 - analog amplifier in modular design

Information on available spare parts: www.boschrexroth.com/spc

Ordering code



With symbol E1-, V1- and W1-:

 $\begin{array}{ll} \mathsf{P} \to \mathsf{A} \colon \boldsymbol{q}_{\mathsf{V} \, \mathsf{max}} & \mathsf{B} \to \mathsf{T} \colon \boldsymbol{q}_{\mathsf{V}} / 2 \\ \mathsf{P} \to \mathsf{B} \colon \boldsymbol{q}_{\mathsf{V}} / 2 & \mathsf{A} \to \mathsf{T} \colon \boldsymbol{q}_{\mathsf{V} \, \mathsf{max}} \end{array}$

Notice:

In the zero position, spools W and WA have a connection from A to T and B to T with approx. 3 % of the relevant nominal cross-section.

¹⁾ Design SO660 with NBR seals at the valve connection surface