## NACHİ

### ELECTRO-HYDRAULIC PROPORTIONAL VALVE

# **Electro-hydraulic Proportional Valve Series**

2 to 500 ℓ /min 21,25,28,35MPa



#### **Overview**

Today's hydraulic systems demand high levels of automation, power efficiency, and energy efficiency, which is why the use of electro-hydraulic proportional valves is on the rise. Built-in electronic components deliver outstanding response and fluid pressure that allows high output, as well as superior operation, and control. The NACHI Electrohydraulic Proportional Valve Series includes the

pressure control valves, flow control valves, and direction control valves that make it easy to meet these needs.

#### **Features**

### 1) Pressure Control Valve Series

EPR Series - Small-volume direct driver type pilot relief valve

ER Series — Large-volume balanced piston type relief valve

EGB Series – Large-volume balanced piston type pressure reducing valve with relief

The pressure control section uses a poppet structure, which is virtually impervious to the effects of dirt in the operating fluid for outstanding pressure stability.

#### **2 Flow Control Valve Series**

ES Series This 3-directional valve provides proportional flow control in accordance with input current.

ESR Series – With a built-in rod sensing function, this 3-way valve is for use in low-energy circuits.

A force feedback mechanism is used for main spool positioning, and amplification is performed by the pilot spool. The result is superior response

with small hysteresis and outstanding flow rate reproduction.

### 3Direction Flow Control Valve Series

ESD Series – This electro-hydraulic proportional valve provides both direction control and flow control functions. Mounting methods are the same as those for standard directional valves, which allows simple structuring and maintenance.

### 4 Modular Type Control Valve Series

EOG-G01 – This reduction valve with relief function can be used in ganged configurations.

EOF-G01 – This flow control valve combines a restrictor valve with a pressure compensation valve.

This dual configuration provides easy installation along with dramatically reduced space requirements.

### **5** Power Amplifiers

EMA Series – Amplifier type

EMC Series – Controller type

A current-feedback amplifier system is used to virtually eliminate output current fluctuation. The same power supply specifications apply to all types.

### **6 Compact Power Amplifiers**

EBA Series - Amplifier type

The highly efficient PWM control system of this new series ensures high reliability in a compact configuration.

### Compact, Multi-function Power Amplifiers

EDA Series - Amplifier type

This compact amplifier can drive two solenoids with a single DC input.

EDC Series – Amplifier controller type

A choice of inputs: 6-contact or DC 2 input/4-contact

### **Series List**

