



Connecting dots between hydraulics and electronics  
The next generation of **motion controls**





**EBI is a global company who values  
engineering competence in its technical team.**

Know-How and expertise stand out in **EBI**  
thanks to people with 25+ years of experience in the design  
and the manufacturing of hydraulic components.

This allows EBI to introduce some innovative  
solutions in the market, focused on:

energy efficiency  
compact design  
high level of customization

EBI distribution network can rely on:

parts standardization  
web configurator  
in-stock products availability

**EBI is the right partner when a different answer is required.**  
This is our way to engineering beyond imagination



# ECS-ECM

## Sectional and Monoblock directional control valves

Cutting-edge valves that leave all standards behind

**EBI control valves** offer versatility of application for the many directional control requirements of hydraulic machinery. Ruggedness of design, manufacturing quality and maximize uptime. Our control vales are the result of year of experience. They have been designed targeting efficiency, controllability and flexibility. EBI can offer customised solutions for spools, layout and settings.

### SECTIONAL VALVES



TYPE	ECS08A	ECS10A	ECS12A
Number of sections	1-12		
Stroke (mm) - [in]	6 [0.24]	7 [0.28]	8 [0.32]
Extra stroke (mm) - [in]	5 [0.20]	4.5 [0.18]	6 [0.24]
Spool pitch (mm) - [in]	36 [1.42]	41 [1.62]	48 [1.89]
Nominal flow (l/min) - [GPM]	50 [12]	100 [25]	150 [40]
Operating pressure (bar) - [psi]	350 [5000]		
Port size (BSP) - [SAE]	G 3/8 [SAE8]	G 1/2 [SAE10]	G 3/4 [SAE12]



### MONOBLOCK VALVES



TYPE	ECM08A	ECM08B
Number of spools	2-8	1-7
Stroke (mm) - [in]	6 [0.24]	5.5 [0.28]
Extra stroke (mm) - [in]	5 [0.20]	4.5 [0.18]
Spool pitch (mm) - [in]	36 [1.42]	36 [1.62]
Nominal flow (l/min) - [GPM]	50 [12]	50 [12]
Operating pressure (bar) - [psi]	350 [5000]	
Port size (BSP) - [SAE]	G 3/8 [SAE8]	





# EDM-EDS

## Monoblock and Stackable diverters

A smart design that generates valuable options

**EBI monoblock and stackable diverter** valves are designed to guarantee flexibility and high level of customization. It simplifies the hydraulic circuit when two contemporary movements are not required. Compact design, easy and flexible mounting.

### MONOBLOCK DIVERTERS



### STACKABLE DIVERTERS



TYPE	EDM08A	EDM10A	EDS08A	EDS10A
Number of sections	1		2 / 3 / 4	
Nominal flow (l/min) - [GPM]	50 [14]	100 [28]	50 [14]	100 [28]
Operating pressure (bar) [psi]	250 [3625]		250 [3625]	
Operating pressure by using external drain (bar) [psi]	310 [4500]		310 [4500]	
Weight (kg)	3.8		3.8 [Each Valve]	
Diverter valve stroke (mm) [in]	3,2 [0.13]		3,2 [0.13]	
Port size (BSP) - [SAE]	G 3/8 [SAE8]	G 1/2 [SAE10]	G 3/8 [SAE8]	G 1/2 [SAE10]



# EHC-EHM

## Configurable and multifunctional handles

Flexible, ergonomic, customizable to fit the most demanding hands

**EBI handles** are designed to guarantee high level of customization. The ergonomic shape allows long duty cycles and excellent comfort for the operator. A wide range of switches (buttons, rollers, rockers) can fit many different types of machines and applications.

- The handles identified with **EHM1**, **EHM2** and **EHM3** have been designed to equip a vast range of earth-moving machines; these handles can be set up to have, or not, a micro-switch.

- **EHM1**: handle without micro-switch
- **EHM2**: handle with one micro-switch
- **EHM3**: handle with dual micro-switch



EHM HANDLES

- **EHC1** is a multifunctional configurable handle designed for EBI Servocontrols.

- Ergonomic design
- ON/OFF and proportional functions
- Multiple roller
- Rocker switch
- Enable trigger control
- IP configuration driven
- Configurable options combination
- Color and logo personalization on request



EHC1 HANDLES



# ESJ-ESP

## Joysticks and Foot pedals servocontrol

Clarity, precision and reliability

**EBI servocontrols**, joysticks and foot pedals, are engineered for the most demanding mobile applications. Thanks to smart casting design, minimized number of components and complexity, they provide the highest accuracy, optimal performance and safe operation.

### JOYSTICKS CONTROL



TYPE	ESJ01A	ESJ02A	ESJ02D	ESJ02M
Max input pressure (bar) - [psi]	100 [1450]			
Max back-pressure on T line (bar) - [psi]	3 [43.5]			
Control max flow on ports (l/min) - [GPM]	15 [4]			
Port size (BSP) - [SAE]	G 1/4 [SAE6]			
Number of axis	single axis	2 axis	2 differential area	2 magnetic detent
Mounting hole (mm) - [in]	95 [3.75]	90 [3.55]	80 [3.15]	90 [3.55]



### FOOT PEDALS CONTROL



TYPE	ESP02A	ESP04A	ESP02B
Max input pressure (bar) - [psi]	100 [1450]		
Max back-pressure on T line (bar) - [psi]	3 [43.5]		
Control max flow on ports (l/min) - [GPM]	15 [4]		
Port size (BSP) - [SAE]	G 1/4 [SAE6]		
Number of axis	single foot pedal	double foot pedal	single foot pedal (narrow body)



engineering beyond imagination

HEADQUARTER  
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