



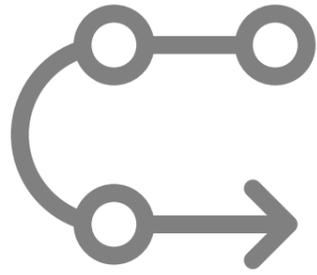
essco

LITTLE BOOK OF **ESBE**

LOOKING TO
**CONTROL THE FLOW
AND TEMPERATURE
OF WATER IN HVAC
SYSTEMS?**

WE CAN HELP.





A Little Bit About Us and How We Can Help

We are the main distributor of ESBE valve and actuator products in the UK and also offer our own range of hydronic solutions. These include our 'Fit & Forget' assemblies, which are designed to simplify installation, saving time and money for the contractor.

Essco specialise in controlling the flow and temperature of water in HVAC systems.

Alongside you. With you. For you

Having worked with the distribution network for many years, we understand the pressures involved in product selection and the need for a dependable, honest and knowledgeable supplier.

We can support you in the following ways:

- Comprehensive product information
- Excellent technical support (we can talk directly to your customer if required)
- First-class customer service
- Support with product set-up and commissioning
- Like-for-like products that match specification

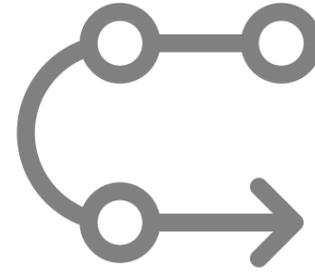
We are not a call centre, we are a friendly team ready to help.



Don't just take our word for it.

Nick Irlam, Director at Irlam UK, a Mechanical Contractor based in the North West who specialises in renewables, comments,

"We've been installing ESBE products for over 10 years and work closely with the team at Essco, often discussing product selection and sizing with them before purchasing via our local distributor. When product support is required on site, we can speak with Essco directly rather than going via the merchant, which saves us time and is particularly helpful during product set-up".



Quick Product Selection Guide

This guide contains a handful of our most popular products, and the table below is designed to help make selection easier.

If you can't find what you are looking for or would like more information, please call us on 01489 779068 or email sales@esscogroup.co.uk for technical advice and product selection.

Description	Valve Connections	Product Name	Page
Plant Room & Boiler House Controls			
Rotary Valves - 3 port (Mixing & Diverting)	DN15-DN50 (Screwed)	ESBE Series VRG130	4
	DN20 – DN150 (Flanged)	ESBE Series 3F & 4F	6
Rotary Valves - 3 port (Diverting)	DN15-DN50 (Screwed)	ESBE Series VRG230	4
Rotary Actuators	for screwed valves DN15-DN50	ESBE Series ARA600	5
	for flanged valves DN20 – DN150	ESBE Series 90	6
Temperature Controllers	for screwed valves DN15-DN50	ESBE Series CRA210 / CRC210	5
	for flanged valves DN20 – DN150	ESBE Series CRA120 / CRC120	6
Commercial Actuated Zone Valves	DN15-DN50 (Screwed)	ESSCO Actuated Zone Valves	7
Actuated Butterfly Zone Valves	DN50-DN300 (Flanged)	ESSCO Butterfly Zone Valves	7
Thermostatic Heating & DHW (TMV)			
Thermostatic Mixing Valves	DN15-DN32 (Screwed)	ESBE Series VTA320/520 (DHW) & VTA370/570 (HTG)	8
TMV3 Approved Valves	15mm / 22mm	ESBE Series VTA353 / 323 / Combi	8
Plant Room Control			
Linear (Lift & Lay) Valves	DN15-DN50 (Screwed)	ESBE Series VLA100	9
Linear (Lift & Lay) Valves	DN65-DN150 (Flanged)	ESBE Series VLB300	9
Linear Actuators	for screwed valves DN15 – DN50 + flanged valves DN65-DN150	ESBE Series ALFxxx	9
Fit & Forget Range			
Water Meter Assemblies	-	Essco WMA	10
Fan Coil Valve Assemblies	-	Essco FCVA	10
Other Essco Products			11

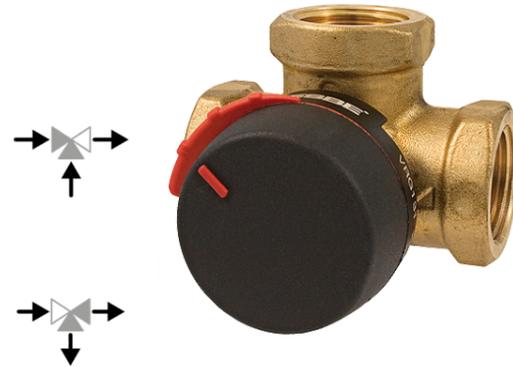
We successfully deal with around **800** emails and **1,600** calls from distributors every month.

On average, there are **32,000** ESBE products installed in the UK every year.

Rotary Valves

Series VRG130 3 Port Mixing / Diverting Valves

- DZR brass construction suitable for heating and cooling applications
- Up to 10 bar (PN10) operating pressure
- Wide range of sizes from DN15 to DN50 with internal/external thread BSP + compression
- Connections to suit most pipe dimensions
- Compact, flexible and easy to install
- Perfect match with ESBE Series ARA600 actuator and Series CRA / CRC controllers



Series VRG 230 3 Port Diverting Valves

- DZR brass construction suitable for heating and cooling applications
- Up to 10 bar (PN10) operating pressure
- Wide range of sizes from DN15 to DN50 with internal/external thread BSP + compression
- Connections to suit most pipe dimensions
- Compact, flexible and easy to install
- Perfect match with ESBE Series ARA600 actuator and Series CRA / CRC controllers



4 port and bivalent valves are also available, please refer to our website for the complete ESBE range and list price guide.



VRG rotary valve and ARA actuator delivered as a set in an all-in-one package.

Rotary Actuators

Series ARA600 for Mixing Valves DN15-50 (Series VRG)

- For use with rotary mixing/diverting valves from DN15 to DN50
- Compact, reliable, and robust
- Operating range of 90°
- Manual operation available using a pull-and-turn knob on the front of the cover
- Perfect match with ESBE Series VRG rotary valves

- All actuators are available with the following control signals: -
- 3-Point (power open / power closed)
 - 2-Point (on/off)
 - Modulating (proportional)
 - (All 230v or 24v)



Temperature Controllers

Series CRA210 Constant Temperature Controller

- Constant temperature controller with pipe sensor
- Integrated actuator
- Suitable for operating valves from DN15-50
- Operating range of 90°
- Easy-to-use joystick and display interface
- Manual operation available using a pull-and-turn knob on the front
- Perfect match with ESBE Series VRG rotary valves



Series CRC210 Weather Compensated Controller

- Weather compensated controller with outside sensor and pipe sensor
- Integrated actuator
- Set the perfect heat curve according to user requirements
- Suitable for operating valves from DN15- 50
- Perfect match with ESBE Series VRG rotary valves

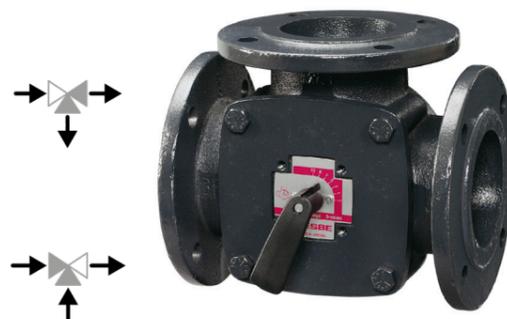




Rotary Valves

Series 3F & 4F 3 Port & 4 Port Mixing / Diverting Valves

- Cast iron construction suitable for heating and cooling applications
- Up to 6 bar (PN6) operating pressure
- Wide range of sizes from DN20 to DN150 flanged
- Available with PN6 flange pipe connections
- Perfect match with ESBE Series 90 actuator and Series CRA / CRC controllers



Rotary Actuators

Series 90 for Operating Mixing Valves DN20-150 (3F & 4F)

- Suitable for operating valves from DN20-150
- Operating range of 90-180°
- Manual operation available using disconnection button and lever
- Perfect match with ESBE Series 3F/4F rotary valves

All actuators are available with the following control signals: –

- 3-Point (power open / power closed)
- 2-Point (on/off)
- Modulating (proportional)
- (All 230v or 24v)



Temperature Controllers

Series CRA120 Constant Temperature Controller

- Constant temperature controller with pipe sensor
- Integrated actuator
- Suitable for operating valves from DN20-150
- Operating range of 90-180°
- Easy-to-use push buttons and display interface
- Perfect match with Series 3F/4F rotary valves



Commercial Zone Valves (High Flow)

- DN15 to DN50 internal thread screwed BSP
- Nickel plated brass ball valve
- 100% leak-tight
- Complete with 2-Point control 230v or 24v AC
- Features electric actuator with output switch
- Max pressure: 10 Bar
- Actuator rating: IP54
- Temperature range: 20°C to 130°C
- Running Speed: 60 Seconds
- Torque: 10Nm



Actuated Butterfly Zone Valves

- DN50 to DN300 flanged wafer / fully lugged
- Cast iron body, stainless steel disk and EPDM / NBR liner
- WRAS approved
- 100% leak-tight
- Built and tested in-house
- Complete with 3-Point control 110/230/24VAC 24vDC, 24v modulating (proportional)
- Features electric actuator with output switches
- Max pressure: 16 Bar
- Actuator rating: IP68
- Temperature range of -10°C to 100°C
- Torque: 50-400Nm





Thermostatic Mixing Valves

Series VTA320 & VTA520 (DHW)

- Suitable for high and low flow domestic hot water applications
- Point-of-use and group HWC (hot water circulation)
- Anti-scald and anti-legionella protection
- Available in T and L pattern
- Temperature range of 20-75°C
- Integrated check valve
- Premium nickel-plated series also available



Series VTA370 & VTA570 (HTG)

- High flow capacity for radiator and UFH applications
- Available in T and L pattern
- Temperature range of 10-70°C
- Premium nickel-plated series also available



Also available with internal/external thread BSP and compression connections. Please refer to our website for the complete range and list price guide.



TMV3 Thermostatic Mixing Valves

ESBE TMV3 thermostatic mixing valves are licensed for use with washbasins, showers and baths in higher risk and Healthcare applications under the requirements of the NHS Estates D08 specification.

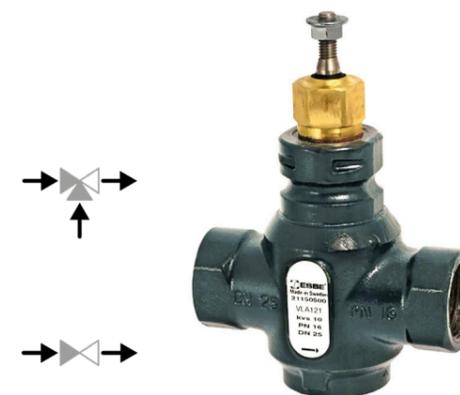
- Standard 15mm and 22mm connections
- VTA353 available in Combi format
- Supplied in T pattern (VTA353) and L pattern (VTA323), which reduces installation time
- Combi versions are supplied complete with 4-in-1 angle inlet connectors incorporating stainless steel mesh strainers, non-return valves, 1/4" BSP pressure tapping point and 1/4-turn lever ball valves



Linear (Lift and Lay) Control Valves

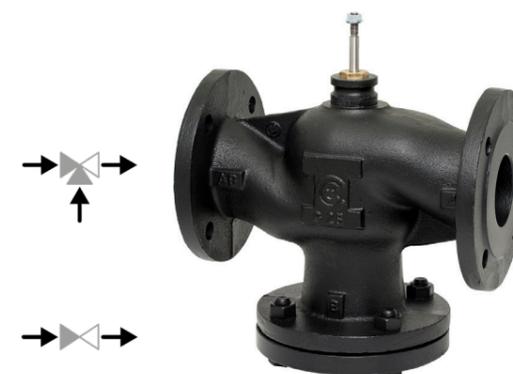
Series VLA100

- Cast iron construction
- Up to 16 bar (PN16)
- Available in 2-way DN15-DN50 or 3-way DN15-50
- Internal thread screwed BSP connections



Series VLB300

- Cast iron construction
- Up to 16 bar (PN16)
- Available in 2-way and 3-way DN65-150
- Flange connections



PN25 and PN16 Bronze Linear valves are also available, please refer to our website for the complete ESBE range and list price guide.



Linear Actuators

Series ALFxxx / ALBxxx

All actuators are available as standard with the following integrated control options: –

- 3-Point (power open / power closed)
- Modulating (proportional) (230v or 24v)
- High and low torque to suit all system pressure drops
- Positional feedback signal
- Robust, quality linear actuator range
- Fast-fit connection to ESBE linear valves, which reduces installation time (Model dependant on flow rate and pressure drop)





Our Fit & Forget Range Has Been Designed and Built To Make Life Simple

essco Water Meter Assemblies (WMAs)

- Compact solution (half the size of traditional branch valve assemblies)
- Regulation 4 compliant with WRAS approval
- Easy to install, either horizontally or vertically
- Supplied pre-tested to save time on site
- Supplied with carrier, ready to fit any approved water meter or a spacer for inline water meters
- Dust cap on water meter carrier protects from contamination during installation
- Supplied with insulation as standard



essco Fan Coil Valve Assemblies (FCVAs)

- Class-leading dimensions of 225 x 84 x 159mm
- Preassembly means less installation time required on site and only four connections to make
- Range of handed assemblies to suit both heating and cooling applications
- Flow limitation cartridges allow for a much larger range of flow rates through the same metering station
- Supplied pre-tested to save time on site
- Robust, with minimal service and maintenance requirements
- Control via a standalone thermostat or Building Management System (BMS)



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HVAC PRODUCTS AND PROCESS VALVES THAT YOU CAN DEPEND ON.

essco
FIT & FORGET

- ESSCO ENERGY**
Heat networks and energy efficient systems
- ESSCO HYDRONICS**
ESBE flow control in heating and hot water systems
- ESSCO FIT & FORGET**
Own range of products for HVAC building services
- ESSCO PROCESS VALVES**
Industrial, marine and process
- ESSCO PREFAB**
Packaged plant and prefabricated utility cupboards



SCAN ME TO FIND OUT MORE ABOUT ESSCO



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Essco Group
Unit 5, Nelson Industrial Park
Herald Road
Southampton
SO30 2JH

T. 01489 779068
F. 01489 779069

www.esscogroup.co.uk

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